Towing Electrics

Vechline Power

12N plug
Loose **012003A**
Singly or 20 per outer

Polybagged **012003B**
Singly or 12 per outer

12S plug
Loose **012014A**
Singly or 20 per outer

Polybagged **012014B**
Singly or 12 per outer

13 pin plug
Loose **012037A**
Singly or 20 per outer

Polybagged **012037B**
Singly or 12 per outer

Socket gasket
Polybagged **012047A**
Singly or 20 per outer

12N socket
With fog cut out
Loose **012025A**
Singly or 20 per outer

Polybagged **012025B**
Singly or 12 per outer

12S socket
Loose **012036A**
Singly or 20 per outer

Polybagged **012036B**
Singly or 12 per outer

13 pin socket
With fog cut out
Loose **012038A**
Singly or 20 per outer

Polybagged **012038B**
Singly or 12 per outer

Socket cover
Loose Black **012163A**
Loose Grey **012165**
Singly or 20 per outer

7 pin 12N plug to 13 pin socket
Polybagged **012044A**
Singly or 12 per outer

7 pin 12N plug to 13 pin socket mini adaptor
Polybagged **012054**
Singly or 12 per outer

13 pin plug to 7 pin 12N socket mini adaptor
Polybagged **012052**
Singly or 12 per outer

7 pin 12N & 12S plugs to 13 pin trailing socket
Polybagged **012041A**
Singly or 12 per outer

13 pin plug to 7 pin 12N & 12S trailing sockets
Polybagged **012042A**
Singly or 12 per outer

Grove PRODUCTS

Towballs and accessories

AK270 coupling head
The AL-KO AK270 with soft touch grip and safety indicators for both engagement and wear. 2700kg max total weight with 120kg imposed load. Boxed with fitting kit including 35, 40 and 45mm spacers
007361A

AL-KO soft dock
For AK7, AK10/2 and AK252. Display box of 12
007159

Spacers
13mm	**007040**
25mm	**007051**

Drop plates
51mm	**007007**
76mm	**007018**
100mm adjustable	**007029**

High tensile bolts (2)
Singly or 10 per outer
45mm pair	**007073**
65mm pair	**007084**
75mm pair	**007095**
100mm pair	**007085**

Carded.
Singly or 10 per outer
Ring 55mm	**014475**
Ring 75mm	**014478**

Socket mounting plates
Manufactured from mild steel plate.
Singly or 25 per outer
Single	**012087**
Double straight	**012096**
Double 'T'	**012105**

13 pin alignment tool
A simple tool to re-align the pins when the plug and socket have not separated correctly.
Singly or 10 per outer
012050

AL-KO towball kit
Extended necked towball includes 2 x 50mm nuts, bolts and spring washers
008003

Towball
50mm ball. 'E' approved.
Singly or 10 per outer
007062

Bump guard
With two socket mounting points.
Singly or 10 per outer
012109

Mini bump guard
Singly or 10 per outer
012110

AL-KO towball boot
Black plastic **008006**

Towball boot
Black plastic
Loose (50)	**012191**
Packaged	**014460**

W4 Cover-up
Tow ball cover with grease reservoir. Supplied in a display box of 20 pieces
012205

Ring towball cover
Chrome	**014452**
Black	**014455**

AL-KO soft ball
Supplied in a display box of 24
Red	**012200**
Black	**012201**
Blue	**012202**

W4 Socket bolt set (3)
010515
10 per outer

AL-KO 7/13 Pin plug holder
Suitable for either 7 or 13 pin plugs **012060**

Plug and ball cover holder
012058
Singly or 10 per outer

Fenwicks towball cleaner
For dry degreasing of all metal parts
● Improves damping performance
● Reduces stabiliser pad squeal
● Fast, effective, deep cleaning action
200ml. 10 per outer
007064

A

Grove PRODUCTS

Ring Towing accessories

RING Automotive

Coiled cable kits
Consists of a length of cable which extends to 1.2m and has a 7 pin plug on each end. Kit contains a 7 pin socket to mount on caravan A frame.
12N **014310**   12S **014311**

Complete towing stand
Ask your sales contact for details
014479

Combination relay
Split charge relay for charging auxiliary battery & operating a refrigerator whilst towing. With automatic cut off **014405**

Audible relay
Rear mounting sensor relay
014407

Metal plugs
12N **014314**
12S **014332**

Metal sockets
12N **014315**
12S **014330**

Socket cover
Black **014457**

Towball covers
Chrome **014452**
Black **014455**

Towball boots
Black with reflector
014465
Black
014460

Twin socket
Pre-wired with fog cut out **014395**

Socket plates
Single **014445**
Twin **014450**
Singly or 10 per outer

High tensile bolts (2)
55mm **014475**
75mm **014478**
Singly or 10 per outer

Trailer lamps
Small square
014424

Socket seal kit
Singly or 10 per outer **014470**

12N Tester

Plug / Socket Tester
Simple battery powered tool to allow you to test and identify issues with both the 12N socket on the towing vehicle and the 12N plug on the trailer. Identifies the colour of the wire causing the problem to make simple repairs easily achievable, and more complex problems less expensive at professional repair facilities.
Singly or 20 per outer
012011

7 core Black
21 x 0.2mm
100m roll **011542**
7 core Grey
6 of 21 x 0.3mm and 1 of 35 x 0.3mm
30m roll **011553**

13 Core Cable
5 x 2.5mm & 8 x 1.5mm to ISO 11446
3 meter **011554**
5 meter **011555**

Relays W4

W4 Combi Master
Combined fridge power supply and charging relay enabling the fridge to operate and an auxiliary battery to be charged whilst towing **014076**

ERL11   ERL7
Automotive relays
12V 40A - Centre pin not used
ERL11
12V 20/30A
ERL7

Wheel rims

Prins LD1361 rim
4.5J x 13" 4 Stud **005016**
Prins LD1360 rim
5J x 13" 4 Stud **005004**

Prins LD1362 rim
4.5J x 13" - B + B **005038**

Trailer wheels & tyres
Wheel rim with 4 ply tyre
400-8" No cut out **005048**
500-10" **005050**

Alloy wheel bolt
STW M12R
005147

Alloy wheel lock nuts
M12 Set of 4
005148

Lemmerz rim
5.5J x 14" 4 stud **005020**

Lemmerz rim
5.5J x 14" 5 stud **005025**
6J x 15" 5 stud **005030**

Wheel Trims
Supplied boxed in a set of 4

Motorhome trims
15" Silver **006022**
16" Silver **006024**

Ring commercial wheel trims
16" Silver **006024**

Polus trims (4)
13" silver **006026**

Gyro trims (4)
14" silver **006027**

Ikon trims (4)
14" silver **006028**

Polar trims (4)
14" white **006029**

Nelux trims (4)
15" silver **006030**

Wheel cover protectors
Protect your investment by protecting your wheel and tyre from UV, wind and rain. Colours may change periodically. Sold individually
Single axle **007347A**
Twin axle **007348B**

Grove PRODUCTS

Spare wheel accessories

AL-KO side lift jack

Can be fitted to all caravans manufactured after 1980. The jack is easy to position and operate and is supplied with mounting brackets which are bolted to the main chassis members immediately behind the wheel. The jack can also be used as an aid to levelling. Can be lowered to 85mm and raised to 375mm. The mounting bracket design ensures correct positioning and operation. WARNING: When in use the caravan must be attached to the towing vehicle.

AL-KO side lift jack 800kg
Maximum load 1600kg
Static load 800kg
Bagged **007364**
Boxed **007351**

AL-KO side lift jack 1000kg
Maximum load 2000kg
Static load 1000kg **007357**

Side lift jack bracket kit
Suitable for use only with Al-Ko Side Lift Jack or 2 Tonne Jack. Comprises of 2 x galvanised mounting brackets and fixing kit
007403
Spare bracket ONLY
007402

AL-KO spare wheel carriers
For AL-KO chassis with fixing holes. Check AL-KO technical brochure for wheel size compatibility. Telescopic action for easy wheel removal and replacement.
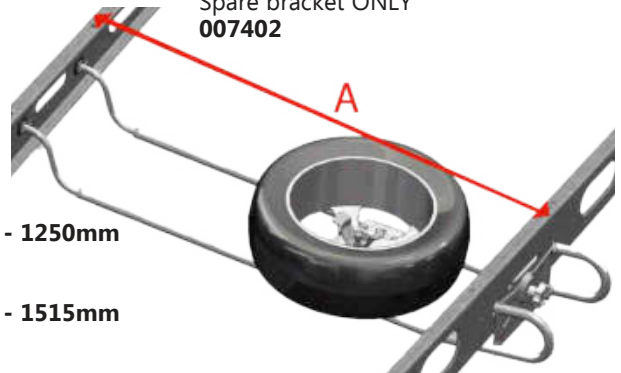
AL-KO part no. 1555934 (WAS 209550) **004018**
For chassis with a distance between the main members of **1050mm - 1250mm**

AL-KO part no. 1556005 (WAS 241859) **004004**
For chassis with a distance between the main members of **1265mm - 1515mm**

AL-KO part no. 1556010 (WAS 241860) **004015**
For chassis with a distance between the main members of **1465mm - 1815mm**

AL-KO part no. 1556159 (WAS 1287180) **004006** Pre-assembled
For chassis with a distance between the main members of **1410mm - 1715mm**
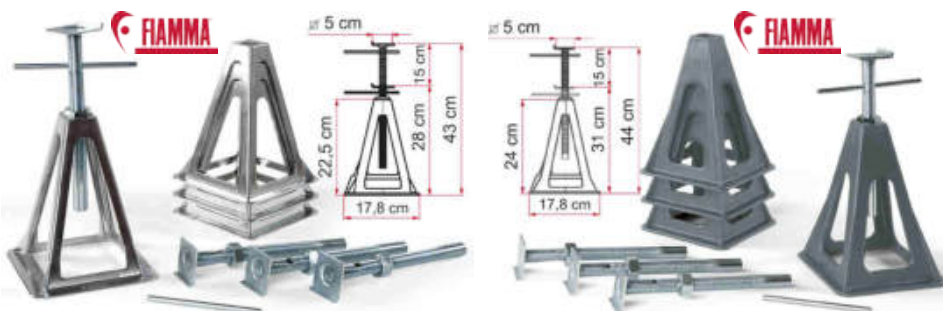
Aluminium axle stands
Supplied in a pack of 4. Max load 1000kg
Adjustable in height from min 28cm to max 43cm. Weight 0.9kg each
007353

Plastic axle stands
Plastic UV resistant axle stands supplied in a pack of 4.
Max load 750kg
Adjustable in height from min 31cm to max 44cm.
Weight 0.8kg each
007352

Stack Jack axle stands
Set of 4 aluminium axle stands. Max capacity 2722kg per jack.
Extends 28-43cm.
For stabilising only-Not for lifting
007358

12v air compressor inflater/deflater
Preset pressure mode with automatic cut off. High intensity LED white light. Handy storage case and a tyre deflation valve. Inflates a tyre to 35psi in under 3 minutes
017304

Digital 12v air compressor
Preset pressure mode with automatic cut off. Red light for SOS and high intensity LED light. Handy storage case and a tyre deflation valve. Inflates a tyre to 35psi in under 3 minutes
017303

Grove PRODUCTS

Hitch covers

W4 hitch cover
White P.V.C. weather - proofing cover with drawstring for secure fixing.
Singly or 10 per outer
007335

W4 'A' Frame cover
Hard-wearing cover which protects the hitch, handbrake mechanism and cable storage ports.
Singly or 5 per outer
007336

AL-KO hitch cover black
To cover the towing hitch/stabiliser Suitable for the AKS2004/3004 stabiliser **007350B**

National hitch covers PVC coated nylon cover with drawstring. Singly or 10 per outer

England **007342**

Scotland **007343**

Wales **007344**

Nylon hitch covers
PVC coated nylon cover with drawstring.
Singly or 10 per outer
Green **007340**   Black **007340BL**

Printed nylon hitch covers
Printed with your company name and logo.
Minimum order of 100 pieces.
Alternative colours also available **007341**

Keep Calm and Caravan hitch covers
Nylon hitch cover with drawstring.
007345A

Matching products also available

Mains cable bag
016177A

Peg bag
109563A

Grove PRODUCTS

Breakaway cables

W4 Breakaway cables
Singly or 10 per outer.
Poly-bagged and header carded.

W4 standard breakaway cable
007118

W4 plastic coated cable
007120

W4 cable with split ring
007125

W4 easy fit cable
007127

Al-ko Standard
007130

Al-ko detachable
007135

Shock absorbers

Octagon shock absorbers
Designed to complement AL-KO Euro Axles. Colour coded for easy weight identification – provides the ultimate in road holding and ride comfort. Set of 2. 1 pair required for single axles. 2 pairs required for tandem axles.

Green
Upto 900kg for single axle
Upto 1600kg for tandem axle
007425

Blue
901-1350kg for single axle
1601-2700kg for tandem axle
007426

Red
1351-2000kg for single axle
2701-3500kg for tandem axle
007427

Black
2001-4000kg for single axle
3501-7500kg for tandem axle
007424

Corner steady braces & wheel wrenches
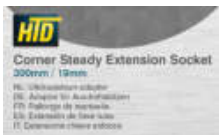
Extension sockets
For use with cordless drills for lowering and raising corner steadies. 19mm socket.
Singly or 20 per outer
30cm   **007161**
45cm   **007162**
55cm   **007162A**

Master wheel wrench
Chrome plated carbon steel body with 17/19mm vanadium socket. Telescopic handle gives adjustable length. 350-530mm. Product supplier changes occasionally
Singly or 10 per outer
007169A

AL-KO corner steady brace
Singly or 10 per outer
670mm   **007168A**

Kronings corner steady brace
Ideal for use with kronings semi-automatic movers
006699

Chassis spares

Note: More chassis spares can be found in our spares catalogue

WOW Bulk offers of 50 or more are available on One shot nuts

Corner steady nuts
16mm thread ø   **007428**
20mm thread ø   **007429**

One shot nuts
Supplied 10 per outer
20mm thread ø 32mm Socket   **007662**
25mm thread ø 36mm Socket   **007689**

Grove PRODUCTS

A

Levelling accessories

WOW Ideal for soft ground and to help support the weight of the vehicle

HTD jack pads
Set of four high quality pads with metal pins. Specially moulded to locate perfectly into HTD foot stackers.
Singly or 12 per outer **007391A**

HTD foot stackers
Set of four foot stackers for levelling the vehicle on very uneven ground. For use with jack pads.
Singly or 12 per outer **007392**

HTD wheel chocks (2)
A vital safety device when parking up or changing a wheel. 90 x 150 x 100mm
Singly or 24 per outer **007312A**

Fiamma Plates pro
Kit of 4 anti-sinking bases with pins, permanently fitted whilst travelling.
007382

Fiamma Plates
Kit of 4 reinforced anti-sinking plates for the feet of the caravan.
007381

Target level
Circular spirit level for 360° levelling indication.
HTD **007297V**
W4 packed **007297**
10 per outer

HTD Level aid
Singly or 10 per outer
007299

W4 grip trak
Ridged on both sides of track for maximum wheel to ground traction
007368

U-Level
The wireless levelling system. The smart & safe way to level your caravan before towing and also to level your caravan or motorhome on site.
Contains two units, a transmitter and receiver as well as a handy hanging/carrying strap. By simply turning on both units and placing the transmitter on a suitable flat surface inside the vehicle, the receiver can then be used outside to adjust and refine the level and weight distribution.
007300

Grove PRODUCTS

Levelling accessories

Anti slip plate (2)
To help prevent slipping on paved surfaces. Suitable for all blocks except Level System Jumbo
007328

Level Up (2)
Dimensions (mm) 570 x 200.
Maximum height 130.
Maximum axle weight 5 tons.
Grey **007326**
Level bag **007333**

Level PRO (2)
Dimensions (mm) 430 x 170.
Maximum height 90.
Maximum axle weight 5 tons.
Singly or 6 per outer.
Grey **007320**
Level bag **007332**

Chock level (2)
Lightweight chock for use with Level up, Pro and Magnum on longer stays. Comes with 2 steel hooks to firmly fasten to chocks when used on levels
007327

Each kit comes with 2 Level Ups and a washable Polyester carry bag. Easy to carry with comfortable shoulder strap.

Kit Level Up (2)
Dimensions (mm) 570 x 200.
Maximum height 130.
Maximum axle weight 5 tons.
Comes with washable polyester carry bag. Easy to carry with comfortable shoulder strap.
Grey **007316**

Kit Level Up Jumbo (2)
Dimensions (mm) 580 x 240.
Maximum height 140.
Maximum axle weight 8 tons.
Comes with washable polyester carry bag. Easy to carry with comfortable shoulder strap.
Grey **007318**

Level bag S
For level pro (007320), magnum (007322) and wheel saver (007331)
007332

Level bag
For level up (007326)
007333

Level Plate (2)
Anti skid system for installation on Fiamma level up. It increases traction, avoiding skids and slips on smooth surfaces and helps to prevent sinking on soft ground.
Grey **007329**

Magnum (2)
Dimensions (mm) 500 x 200. Maximum height 90.
Maximum axle weight 8 tons
Singly or 6 per outer
Yellow **007322**
Level bag **007332**

Jumbo (2)
Dimensions (mm) 600 x 260. Maximum height 120.
Maximum axle weight 12 tons
Yellow **007323**

Fiamma Grip System (2)
Anti skid system with superior traction. The two grips can be combined into one long piece to position under the motor home or caravan wheels. Ideal on sand or mud.
Grey **007367**

Fiamma Wheel savers
Ideal for long stays or storage. Suitable for wheels up to 70cm diameter.
Dimensions (mm) 460 x 210.
Maximum height 60. Can use level bag S 007332
Grey **007331**

Grove
PRODUCTS

Stabilisers

AL-KO MkII AKS 3004 stabiliser
Developed for caravans and trailers from 200kg up to a maximum gross weight of 3000kg
Stabiliser only **007938**

Winterhoff WS3000 stabiliser
The slender design guarantees excellent angular flexibility for manoeuvring.
Stabiliser only **007850**

WOW MkII AKS 3004 Triple pack consisting of stabiliser, premium security device, towball and safety ball **007939**

AL-KO stabiliser accessories

Towball kit
008003

Towball cover
008006

AKS security barrel and two keys
For all models **007723**

3004 4x4 handle
Replacement handle for 4x4's to avoid fouling of the rear door. For red AKS 3004
007934

Safety ball
Locks into hitch head for extra security. Supplied in a display box of 24 **002120**

Replacement friction pads

Side 1300 Stabilisers
007957

Side 2000/2500 stabilisers
To 1993 **008004**

Side 2004/3004 stabilisers
From 1994 **008005**

Front/rear 2004 stabilisers
007935

Front/rear 3004 stabilisers
From 1994 **007936**

Winterhoff friction pads
For Winterhoff WS3000 Stabiliser from Aug 2002 onwards **007852**

Grove PRODUCTS

Stabilisers

AL-KO Trailer Control

AL-KO QUALITY FOR LIFE

Avoidance manoeuvres or side wind can cause caravans to start swaying. AL-KO Trailer Control (ATC) actively works against these forces and gently brakes the caravan automatically. The emergency system reacts when the swaying of the vehicle combination exceeds limit values.

- Sensors react to small lateral accelerations
- The caravan immediately brakes automatically. The driver barely notices this correction
- The caravan is brought back into line and under control automatically. The vehicle combination once again drives safely

WOW ATC is now available as a retrofit for nearly all caravans. **Please call with the year, make, model, maximum weight and whether it is a single axle or twin axle to establish the model required.**
Personnel who have not been trained to fit ATC can request specific training in how to fit, service and upgrade ATC by contacting AL-KO either by phone on 01926 818500 or via email mail.uk@alko-tech.com

AL-KO No.	Grove No.	Weight Limits
1289273	**007870**	Single Axle 750 - 1300Kg
1289274	**007872**	Single Axle 1301 - 1500Kg
1289275	**007874**	Single Axle 1501 - 1800Kg
1289276	**007875**	Twin Axle 1301 - 1600Kg
1289277	**007876**	Twin Axle 1601 - 2000Kg
1289278	**007877**	Twin Axle 2001 - 2500Kg
1289279	**007878**	Single Axle 750 - 1300Kg
1289280	**007880**	Single Axle 1301 - 1500Kg
1289281	**007882**	Single Axle 1501 - 1800Kg
1289282	**007883**	Twin Axle 1301 - 1600Kg
1289283	**007884**	Twin Axle 1601 - 2000Kg
1289284	**007885**	Twin Axle 2001 - 2500Kg

AL-KO No.	Grove No.	Weight Limits
1289286	**007886**	Single Axle 1301 - 1500Kg
1289288	**007887**	Twin Axle 1301 - 1600Kg
1289289	**007888**	Twin Axle 1601 - 2000Kg
1289290	**007890**	Twin Axle 2001 - 2500Kg
1289296	**007892**	Single Axle 750 - 1300Kg
1289297	**007894**	Single Axle 1301 - 1500Kg
185001001	**007896**	Single Axle 750 - 1300Kg
185001002	**007897**	Single Axle 1301 - 1500Kg
185001003	**007898**	Single Axle 1501 - 1800Kg
185001004	**007899**	Single Axle 1601 - 2000Kg
185001009	**007915**	Twin Axle 1601 - 2000Kg

Leaf type stabilisers - Spares shown for Driver stabiliser

Driver stabiliser
Comes with quick release kit, 4.5" friction discs and standard L bracket to suit AL-KO and similar taperline chassis
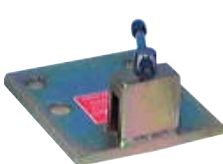**007800**

Stronghold stabiliser
2 year mechanical warranty, with quick release mechanism and fast fit 'L' bracket that clamps onto the chassis which eliminates drilling. Fitted with 2 x 4" friction discs. Supplied with canvas carry bag.
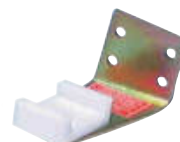**007775**

4 Hole car plate
007804

2 Hole car plate
007805

TC car plate
007808

L bracket
007812

Extended L bracket
007814

Slipper block
007822

Toggle screw
007819

4.5" Friction discs
007825

4" Friction discs
007824

Grove PRODUCTS

Jockey wheel assemblies

Al-ko standard Plastic

Shaft Ø	48mm
Length closed	470mm
Extension max	220mm
Stationary load max	150kg
Nose load max	90kg
Wheel type	Plastic rim / solid rubber
Wheel size	200x50mm
Weight	4.8Kg
Grove Number	**007194**

Al-ko standard metal

Shaft Ø	48mm
Length closed	550mm
Extension max	250mm
Stationary load max	150kg
Nose load max	90kg
Wheel type	Metal rim / solid rubber
Wheel size	200x50mm
Weight	5.0Kg
Grove Number	**007179**

Al-ko H/Duty Pnuematic

Shaft Ø	48mm
Length closed	580mm
Extension max	250mm
Stationary load max	200kg
Nose load max	120kg
Wheel type	Metal rim / Pneumatic
Wheel size	260x85mm
Weight	5.0Kg
Grove Number	**007197**

Al-ko H/Duty Plastic

Shaft Ø	48mm
Length closed	560mm
Extension max	250mm
Stationary load max	150kg
Nose load max	90kg
Wheel type	Plastic rim / Soft rubber
Wheel size	215x65mm
Weight	5.0Kg
Grove Number	**007195**

Al-ko Premium

Shaft Ø	48mm
Length closed	645mm
Extension max	250mm
Stationary load max	300kg
Nose load max	180kg
Wheel type	Metal rim / solid rubber
Wheel size	230x80mm
Weight	9.8Kg
Grove Number	**007193B**
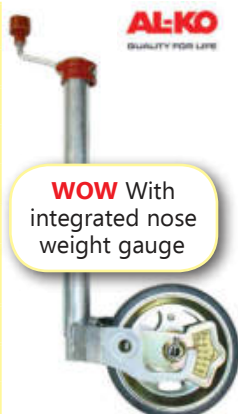
WOW With integrated nose weight gauge

Al-ko Soft Wheel

Shaft Ø	48mm
Length closed	490mm
Extension max	250mm
Stationary load max	150kg
Nose load max	90kg
Wheel type	Soft Wheel
Wheel size	240x90mm
Weight	4.8Kg
Grove Number	**007192**

Trailer 34mm

Shaft Ø	34mm
Length closed	575mm
Extension max	200mm
Max load	100kg
Wheel type	Metal rim / solid rubber
Wheel size mm	160x60
Clamp	Included
Weight	4.1kg
Grove Number	**007170**

AL-KO manoeuvring handle
For use with caravan and trailer jockey wheel assemblies with 48mm diameter stems
007250

Grove PRODUCTS

Jockey wheel accessories

**For 34mm
jockey assembly**
Overall ø 160mm
Spindle hole length 60mm
007171

**For std 48mm
jockey assembly**
Overall ø 195mm
Spindle hole length 60mm
007173

Al-Ko Soft wheel
Overall ø 240mm
Spindle hole length 90mm
007196

**Pneumatic wheel
& tyre**
Overall ø 250mm
Spindle hole length 90mm
007189

Pneumatic wheel
Overall ø 260mm
Spindle hole length 85mm
007198

Jockey wheel clamp
Suitable for 48mm tube
007276

Steel clamp
Pressed steel for 90S/3
assembly
007639

Steel clamp
Pressed steel for 161S & 251S
assembly
007619

Cast clamp
Pressed steel for 161S & 251S
assembly
007640

Clamp handle
007178

Clamp handle
007642

Jockey wheel clamp for rotary airer
For use with caravan and trailer jockey wheel assemblies with
48mm diameter stems. Ideal for both TV aerial poles and
rotary airers
095470C
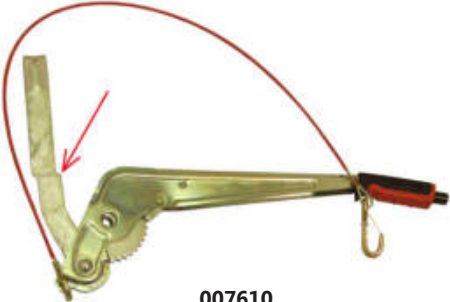
AI-ko Spare parts

STABILISERS / SECURITY			
007712 Arm left hand 2700	007713 Arm right hand 2700	007733 Arm left hand 2004/3004	007734 Arm right hand 2004/3004
007708 Operating lever left 2700 Type A	007709 Operating lever right 2700 Type A	007710 Operating lever left 2700 Type B	007711 Operating lever right 2700 Type B
007700 Operating handle 1300	007704 Hand wheel 1300	007730 Handle left hand 2004/3004	007731 Handle right hand 2004/3004
007937 Handle complete 3004	007745 Black handle 3004	007934 4 x 4 Handle 3004	007701 Retaining screw 1300
007705 Bearing set 1300	007702 Seal Kit 1300	007707 Split rings (4) 1300	007727 Packing piece 35mm
007736 Bearing set 2000	007737 Seal ring 2004/3004	007717 Bearing bolt (locked)	007726 Packing piece 40mm
007706 Fixing kit for security 1300	007703 Fixing kit 1300	007743 Fixing kit 2004/3004	007728 Packing piece 45mm

007724 Fixing kit for security 2700		007725 Fixing kit for 2700	007735 Gaiter for AKS stabilisers	007723 Lock & keys for Security hitch lock	001850 Lock & key for Compact security
007739 Mushroom head bolt M12 x 75	007740 Cylinder bolt M12 x 75 2004	007741 Cylinder bolt M12 x 75 3004	007718 Cylinder bolt M10 x 85	007835 Bolt 8 x 97 torx- 8.8	007738 Nut M12-10 A3C	007718A Nut M10 nyloc

007719 Indicator button kit - 3004	007720 Indicator button (outer)	007721 Indicator button spring	007722 indicator button inner
007932 Friction pad shim kit	007937A Cover 3004 friction pad	007937B O-ring for friction pads	007957 1300 Friction pad kit
007935 Friction pads front/rear for 2004/3004	007936 Friction pads front/rear 3004	008004 Friction pads side to 1993	008005 Friction pads side from 1994
007910 ATC LED bulb Swift	007911 ATC LED bulb non swift	007912 ATC release bar	007913 ATC LED fixing plate	007914 ATC control unit

Grove PRODUCTS

Al-ko Spare parts

A-FRAME / OVERRUN ASSEMBLIES			
007619 Clamp steel for 161S & 251S	**007639** Clamp steel 90S/3	**007642** Clamp handle	**007178** Clamp handle
007644 Rivet nut kit	**007640** Clamp cast for 161S & 251S	**007643** Pressure pad	
007735 Gaiter for AKS 2004/3004	**007601** Overrun gaiter	**007638** 90 S/3 gaiter	**007738** Nut M12-10 A3C
007609 161S pivot bolt	**007622** 161S/251S gas strut pivot bolt	**007741** Cylinder bolt M12 x 75 3004	**007631A** Overrun nut

007600 161S Delta overrun damper	**007605** 161S Delta overrun damper (old)
007625 251S Delta overrun damper	**007630** 251S Delta overrun damper (old)

007610 161S Spring cylinder hand brake assembly	**007624** Hand grip **007604** Burst ring	**007637** 90 S/3 Spring cylinder hand brake assembly
007623 161S & 251S from 08/95 Gas strut hand brake assembly	**007130** Breakaway cable **007135** Detachable breakaway cable	**007628** 251S to 07/95 Gas strut hand brake assembly

AI-ko Spare parts

A-FRAME / OVERRUN ASSEMBLIES

007627 **Welded draw shaft**	**007606** **Bearing bush set**	**007629** **Bump rubber**	**007608** **Grease nipple**
007616 **Split pin**	**007635** **Tension bar**	**007633** **Fork end**	**007634** **Spring cylinder**

BRAKES

Bowden Cable
007645   890mm
007646   1020mm
007647   1130mm
007649   1230mm
007648   1320mm

007651
Connecting eye

007677
Reverse lever spring
2051/2361

007652
Reverse lever spring left 1637

007653
Reverse lever spring right 1637

007654 **Auto reverse lever LH 1637**	**007655** **Auto reverse lever RH 1637**	**007678** **Auto reverse lever LH 2051/2361**	**007679** **Auto reverse lever RH 2051/2361**
007667 **Bearing bolt**	**007616** **Split pin**	**007669** **Compression spring**	**007670** **Adjusting assembly**
007673 **Bowden cable shell**	**007658** **Spread hinge lock 1367**	**007682** **Spread hinge lock 2051/2361**	**007672** **Cover plate**
007657 **Pull off spring 1637**	**007681** **Pull off spring 2051/2361**	**007676** **Protecting cap 1367/2051**	**007693** **Protecting cap 2361**
007664 **Wheel bolt spheric m12 x 1.5**	**007671** **Plug for brake plate**	**007667A** **High temperature axle grease**	**107008** **Cross check red sealant**

Al-ko Spare parts

BRAKES			
007662 Flange nut 20mm (32mm socket) 1637/2051	**007663** Dust cap	**007689** Flange nut 25mm (36mm socket) 2361	**007690** Dust cap
007659 100 x 4 / m12 x 1.5 1637 - After 10/94	**007684** 100 x 4 / m12 x 1.5 2051	**007685** 112 x 5 / m12 x 5.5 2051 - Less than 750Kg	**007684A** 101.6 x 4 / m10

007660 Brake Shoe Kit for 1637 after 1994	**007683** Brake Shoe Kit for 2051 after 1994	**007687** Brake Shoe Kit for 2361 after 1994

CORNER STEADIES	
007432 Corner steady 205808	**007433** Corner steady 205817
007434 Corner steady 267265	**007435** Corner steady 1221694

007428 Nut 16mm	**007429** Nut 20mm	**007436** Security Device Premium	**007430** Nut 20mm and washer kit of 5
007431 Spindle 20mm			

Grove
PRODUCTS

Weight Control

HTD Aluminium nose weight gauge
Comes with plastic foot.
Measures nose weight up to 100kg.
Singly or 20 per outer
007313

HTD Plastic nose weight gauge
Measures nose weight up to 100kg.
Singly or 20 per outer
007314

W4 weigh-it extra
Calibrated in both pounds and kilograms. Measures nose weight up to 250lbs/115kg
007310

Caravan Weight Control
The Caravan Weight Control (CWC) gives you 100% control over the total weight and the partial weights of the individual wheels. Using the handy balance may easily prevent excess and uneven loads which may have a negative impact on vehicle handling.
- Can measure the load per wheel up to 1000Kg yellow or 1500kg orange
- Totals the weight once measured on either a single or twin axle vehicle
- Can be used as a nose weight gauge
- Requires 3 x AAA batteries (not included)
- Simple to use
- Weighs 1 Kg

1500Kg orange **007304**
1000Kg yellow **007305**

Reich TLC
Towbar Load Control. Accurate and reliable digital measurement in 1kg intervals up to 100kg. Simply place on Tow ball then rest the caravan on the TLC for an accurate measurement of weight on the towball. Requires 2 x AA batteries not supplied.
007306
MUST BE REMOVED BEFORE TOWING.

Specialist Jockey wheels

Kronings Camper Belt
Avoid your jockey wheel sinking in wet and soft surfaces by mounting the Kronings Camper Belt.
Kronings Camper Belt divides the weight and vertical pressure on two wheels and the rubber belt, which increases, lift when driving. The Camper Belt can be installed only by replacing the existing jockey wheel.
Weight 8kg complete
007205

WOW Demonstration DVD available!

Reich Easy Wheel set
Transform your existing jockey wheel into a double jockey wheel. Increase your manoeuvrability on any surface. Quick and easy assembly / disassembly.
007210

WOW Al-ko Premium jockey wheel with a built-in nose weight gauge shown on page 12

Grove PRODUCTS

Towing Safety

Collapsible safety cone
Sturdy reflective safety cone
007396

21 LED warning triangle
Battery powered (3 x AA not supplied) 21 bright LEDs.
440 x 440 x 440mm.
007393

16 LED warning disk
Magnetic warning disk, high visibility, with multiple light settings. In case of emergency place on car roof
007398

Warning triangle
E approved.
Singly or 10 per outer
007390

Grayston coil spring assisters
To stiffen and raise suspension by approximately 38mm.
To measure the size - jack the vehicle up to take weight from springs then measure the gap between two parts of the spring

GE13	18mm-25mm	**008019**
GE14	26mm-38mm	**008008**
GE15	39mm-51mm	**008027**
GE15A	52mm-65mm	**008036**

GROVE PRODUCTS

Rear view lens
Manufactured from optical grade PVC with viewing angles of upward 13° sideways 25° and downward 28°, these lenses help eliminate the blind spot and therefore make reversing safer.

9"x 7"	**120137**
10" x 8"	**120138**
14" x 11"	**120139**

Beam converters
Headlamp beam adaptor for continental driving. By law, at any time - day or night, when driving in Europe you must convert your headlamps to avoid dazzling other road users
015606

Towing mirrors Note - All mirrors sold by Grove are "E" marked

HANDY mirror range

This range features the unique "Handy" ratchet system which gives minimal vibration and maximum stability. Simple to install and remove: the unique "Handy" ratchet allows a tight fit to the existing mirror every time. Attaching to the vehicle's existing mirror these universal fitting mirrors are suitable for most vehicles and include models suitable for vans and motorhomes as well as cars, and will fit left or right hand mirrors. Glass size 190mm x 120mm.
All Singly or 6 per outer.

REICH

Handy XL standard mirror
Arm length 310mm
120140

Handy Super Flex mirror
Wide angle arms for most vans and motor homes. Arm length 230mm
120144

WOW The Handy XL achieved "Best Overall towing mirror" when on test in Practical Caravan magazine - September 2013. Conclusion: "(the) ratchet tensioning system gives a satisfyingly secure feel when fitted" and "once securely fastened to the towcar mirror it was rock steady. The mirror image was superb with no distortion visible. The field of view was massive and vibration was insignificant." **89/100**

REICH

Standard towing mirror
Glass size 150mm x 110mm.
Arm length 220mm
Singly or 20 per outer **120154**
Spare straps **120153**

Summit RV98T
Adjustable arms, mirror head adjustable through 360º and shatterproof glass.
Singly or 10 per outer
120148

Summit RV3200
Removeable arm, mirror head adjustable through 360º, shatterproof glass and complete with built-in blind spot.
Singly or 10 per outer
120151

Excellent View towing mirror
After initial set up the bracket can be left on, head and extension mirror can be removed.
Glass size 185mm x 120mm.
Arm length 270mm
Singly or 20 per outer **120168**
Spare straps **120169**

Ring RCT1440 Multi fixing
● Adjustable clamp system for multi vehicle fixing
● Dual angle flat/convex lens for improved field of vision
● Fully adjustable mirror to ensure the correct field of vision
● Improved rearward visibility when towing
● Suitable for left and right fixing / top or bottom fixing
● Reg 46 'E' Approved
120147 Singly or 10 per outer

REICH

XXL towing mirror
Glass size 185mm x 120mm.
Arm length 200mm
Singly or 20 per outer **120158**

kronings

Kronings mirror set
A pair of extruded aluminium and ABS towing mirrors. Minimum vibration. Designed to fit 95% of all vehicles, this set comes with all required tools and fitment combinations.
Supplied with: 3 different sized gripping handles, 2 x flat and 2 x convex mirrors, 4 x different sized holding pins, 2 x different sized rubber ends. Weight 468g
120130

Kronings spares
Speed strap	**120131**
Flat mirror glass (2)	**120132**
Convex mirror glass (2)	**120133**

Grove PRODUCTS

Self adhesive stickers All stickers are sold 10 per outer

Scotland flag
Medium rectangle
110 x 65mm
013577

SCO
Large oval
140 x 100mm
013576

Wales flag
Medium rectangle
110 x 65mm
013582

Cymru
Large oval
140 x 100mm
013581

Ireland flag
Medium rectangle
110 x 65mm
013588

IRL
Large oval
140 x 100mm
013587

AA GB Magnetic badge
Large oval
180 x 135mm
013598

GB sticker
Large oval
180 x 135mm
013603

GB sticker
Large oval
140 x 100mm
013602

Euro GB
122 x 88mm
013605

NI
Large oval
140 x 100mm
013586

Euro Scotland
122 x 88mm
013575

Euro Cymru
122 x 88mm
013580
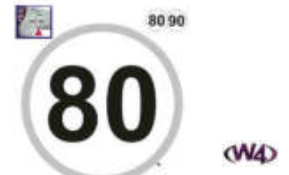
French speed limit stickers
150mm ø. 2 stickers included (80 & 90)
013609F

Tracking fitted
110 x 65mm
Motorhome **013613**
Caravan **013614**
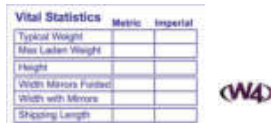
Vital statistics
60 x 48mm
013619

Tyre pressure
60 x 48mm
013615

60mph
100mm ø
013609

Rectangular number plate stickers
40 x 110mm
Adapt your number plate with ease at low cost

GB 013608   **SCO 013578**   **CYMRU 013583**   **IRL 013589**

LPG sticker
100 x 100mm
013610

GB 013579   **SCO 013578A**   **CYMRU 013583A**   **ENG 013579A**

Fresh water
60 x 55mm
013618

Grove PRODUCTS

Number plates

Reflective backings
100 per outer

Reflective yellow	**013305**
Reflective white	**013313**
Bordered yellow	**013303**
Bordered white	**013322**
Scottish yellow	**013311**
Scottish white	**013310**
Border Scottish yellow	**013309**
Cymru yellow	**013312**
Cymru white	**013312W**
Square yellow	**013317**

Acrylic plates

50 per outer	Oblong	**013306**
25 per outer	Square	**013315**
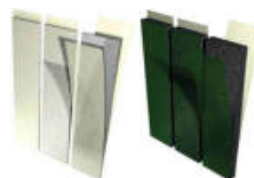
Adhesive pads
20 per outer

1mm	**013523**
6mm	**013524**
Bulk	
1mm (200)	**013525**
6mm (150)	**013526**

Individual digits (20)
013408
Followed by number or letter

3D digits (20)
013409
Followed by number or letter

Digit starter pack
100 of each digit
013407

Staticlean fluid
Apply to the acrylic sheet (and to the reflective if required) before use in order to reduce static
50ml **013512A**

Sponge pad bottle
013421

Trailer boards

3' Trailer board
H135 x W915 x D70mm. 4m cable 12N plug
015248

4' Trailer board
H140 x W1230 x D70mm. 4m cable 12N plug
015259

Grove PRODUCTS

Marker lamps

Jokon EL61
Lamp   **015457A**

Jokon
Lamp   **015465A**

Jokon PL96
Lamp   **015454A**

Britax 881
Lamp   **015438**

Jokon EL61
Lamp   **015459A**
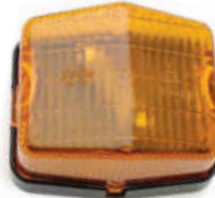
Jokon
Lamp   **015467A**
Lens   **015468**

Jokon PL96
Lamp   **015456**

Britax 883
Lamp   **015440**

Jokon EL61
Lamp   **015452A**

Britax 814
Lamp   **015384**

Britax 813
Lamp   **015404**

Britax 882
Lamp   **015442**

Hella oblong
Lamp   **015461**

Hella oval
Lamp   **015444**

Britax 536
Lamp **015450**

Britax 764
Lamp **015337**

Hella oblong
Lamp   **015463**

Hella oval
Lamp   **015446**

Number plate lamps

Britax Small **015476**

Hella Small **015479**

Hella oblong
Lamp **015464**

Jokon
Lamp   **015470A**

Jokon with clip on lens
Lamp   **015472A**

Jokon with screw on lens
015473

Jokon oblong red/white
015474A

Grove
PRODUCTS

Caraluna caravan lights

MK1 left hand, reverse
015001

MK1 right hand, fog light
015002

MK1 left hand, fog light
015018

MK2 right hand, fog light
015003

MK2 left hand, reverse
015000

MK2 right hand clear lens
015020

MK2 left hand, fog light
015017

Other rear lights

Britax 9300 wrap round
Stop/tail, flasher, fog & reverse
382mm x 130mm **015050**

Jokon wrap round
Stop/tail, flasher, reverse & fog
385mm x 112mm **015007A**

MK2 left hand fog clear lens
015021

**Britax 9002
lamp**
015056

Grove PRODUCTS

Caraluna motorhome lights

MK1 left hand
015015

MK1 Right hand, fog light
015016

MK2 left hand, reversing light
015013

MK2 Right hand, fog light
015014

Caraluna vertical
Dimensions (HxWxD):
406 x 168 x 80mm
Left hand - Includes reverse
014493

Caraluna modular
Dimensions (HxWxD):
612 x 163 x 92mm
Left hand   **014490**

Caraluna modular
Dimensions (HxWxD):
612 x 163 x 92mm
Right hand   **014491**

Reflectors

10 per outer
Self adhesive reflectors
105 x 50mm. 79mm hole centres.
Red   **015268**
Amber   **015277**
White   **015286**

(W4)
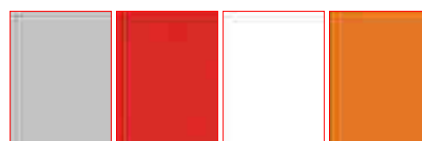
Road light repair stickers
250 x 70mm 10 per outer
Headlight - Silver vinyl   **013620**
Brake/Tail - Red vinyl   **013621**
Reverse - Clear vinyl   **013623**
Indicator - Amber vinyl   **013622**

Grove PRODUCTS

HTD Caravan Covers

Superior heavy duty breathable 4 ply material allows condensation to evaporate
  Outer layer - durable non-woven to give UV and water resistance, but with breathability
  2nd layer - Treated non-woven to give UV protection and strength
  3rd layer - PE film, enables the cover to breathe but helps with water resistance
  Inner layer - Extra soft non-woven material to protect the vehicle's paintwork
- Easy to fit (fitting instructions included)
- Ideal for winter storage
- UV stable
- Nylon straps for a secure fit
- Elasticated hem for a tailored fit
- Storage bag included
- 2 YKK zips either side for easy access
- 12 months warranty

WOW Available in 3 widths for a more tailored fit!

233cm wide

Standard		
Part No.	**Length**	**Imperial Size**
106754	Up to 450cm	Up to 14'9"
106755	450 to 500cm	14'9" to 16'4"
106756	500 to 550cm	16'4" to 18'0"
106757	550 to 600cm	18'0" to 19'8"
106758	600 to 650cm	19'8" to 21'3"
106759	650 to 700cm	21'3" to 22'11"
106760	700 to 750cm	22'11" to 24'7"

253cm wide

Extra wide		
Part No.	**Length**	**Imperial Size**
106761	Up to 650cm	19'8" to 21'3"
106762	650 to 700cm	21'3" to 22'11"
106763	700 to 750cm	22'11" to 24'7"
106764	750 to 800cm	24'7" to 26'2"

213cm wide

Extra narrow		
Part No.	**Length**	**Imperial Size**
106750	Up to 450cm	Up to 14'9"
106751	450 to 500cm	14'9" to 16'4"
106752	500 to 550cm	16'4" to 18'0"
106753	550 to 600cm	18'0" to 19'8"

Storage bag included

YKK zips on all openings

Buckled straps for a secure fit

Grove PRODUCTS

HTD Motorhome Covers

Superior heavy duty breathable 4 ply material allows condensation to evaporate
  Outer layer - durable non-woven to give UV and water resistance, but with breathability
  2nd layer - Treated non-woven to give UV protection and strength
  3rd layer - PE film, enables the cover to breathe but helps with water resistance
  Inner layer - Extra soft non-woven material to protect the vehicle's paintwork
- Easy to fit (fitting instructions included)
- Ideal for winter storage
- UV stable
- Nylon straps for a secure fit
- Elasticated hem for a tailored fit
- Storage bag included
- 2 YKK zips either side for easy access
- 12 months warranty

Motorhome Cover
NL: Camperhoes   DE: Schutzhülle für Reisemobile

Part No.	Length	Imperial Size
106765	Up to 550cm	Up to 18'0"
106766	550 to 600cm	18'0" to 19'8"
106767	600 to 650cm	19'8" to 21'3"
106768	650 to 700cm	21'3" to 22'11"
106769	700 to 750cm	22'11" to 24'7"
106770	750 to 800cm	24'7" to 26'2"

240cm wide

Storage bag included

YKK zips on all openings

Buckled straps for a secure fit

Grove PRODUCTS

A
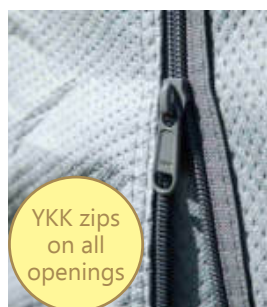
Top covers

Caravan top cover
● Superior top cover offering protection for your caravan
● Water resistant heavy duty silver polyester material
● Ideal for winter storage
● UV stable material ensuring long product life
● Elasticated straps with nylon coated steel hooks
● Elasticated hem for tailored fit
● Storage bag included
● Additional straps supplied for different fitment options
● 12 months warranty

106830	Caravan top cover up to 14'
106831	Caravan top cover 14-17'
106832	Caravan top cover 17-19'
106833	Caravan top cover 19-21'
106834	Caravan top cover 21-23'
106835	Caravan top cover 23-25'

Thermoval screen protectors

All-season thermal windscreen covers
● Made with PVC film bonded to a thin foam
● Opening panels to allow in the light (Luxe models)
● Won't wrinkle or tear
● Easy to roll up and store
● Easy to fit and remove
● Ultra-quick wipe clean and dry
● Reduces condensation
● 2 year Guarantee

Grove No.	Model	To Fit
106900	Standard	Peugeot / Fiat / Citreon June 1993 onwards
106901	Standard	Peugeot / Fiat / Citreon June 2006 onwards
106902	Standard	Ford Transit June 2006 onwards
106903	Standard	Ford Transit June 2014 onwards
106904	Standard	Mercedes June 2006 onwards
106905	Standard	Renault Master June 2010 onwards
106906	Standard	VW T5 June 2002 onwards
106907	Luxe	Peugeot / Fiat / Citreon June 1993 onwards
106908	Luxe	Peugeot / Fiat / Citreon June 2006 onwards
106909	Luxe	VW T5 June 2002 onwards

Thermoval screens are fixed using sucker pads with tongue for easy removal. The suckers can be screwed on to leave the sucker permanently in place. They fix around wing mirrors using buckles. The range will fit a wide variety of makes and models.

Grove PRODUCTS

Fiamma covers

Cover Premium M
For motor homes up to 7.1m long
Dimensions 7.16 x 2.59 x 2.74m
Weight 10kg
106870A

Cover Premium L
For motor homes up to 8m long
Dimensions: 8.08 x 2.59 x 2.74m
Weight 11kg
106872A

Fiamma Thermoglas XXL Ducato
For Fiat Ducato after 06/2006
Weight 11kg
106466

Fiamma Wall Cabin
For fiat Ducato after 06/2006
Dimensions: 182 x 150cm
Weight 1.8kg
106470

Rear Door Cover
Fiat Ducato 106893
(Citroën Jumper, Peugeot Boxer and Mercedes Sprinter high roof after 06/06) Comes with: Double rail, awning with sides and front panel, rafter for increased stability and an elastic tension kit
VW T5 106895
Comes with: Set of floor poles, complete enclosure, set of pegs and an elastic tension kit.
Canopy poles 106897
Set of aluminium poles to extend the door

Fiamma Cover Top
Sturdy and hard wearing cover made with UV resistant and heavy duty vinyl to protect the motor home from dirt and sun. Easy to tighten using ropes or elastic cords (not included). Reinforced corners and tie down grommets.
Dimensions: 8.5 x 5.2m.
Weight 6kg
106875

Fiamma Coverglas XL Ducato
For Fiat Ducato after 06/2006
Weight 3.5kg
106465

Fiamma Draught skirt
1 Motorhome: L 550cm H 60cm   **109505**
2 Caravan: L 450cm H 60cm   **109504**
3 VW T5/T6: L 250cm H 42cm   **109506**
4 Fiat Ducato: L 397cm H 55cm   **109507**
5 VW T5/T6 Rear   **109506A**
6 Fiat Ducato Rear   **109507A**

Grove PRODUCTS

A

The Camper Trolley

kronings

Camper Trolley's revolutionary design provides an innovative solution to the limitations of movers presently on the market. No wiring or drilling, simply attach the bracket, the Camper Trolley is moved into place and attached to the bracket, the unit can then be moved into place by remote control.

Stylish, compact and powerful, it can be fitted to chassis with low ground clearance, or where a conventional mover cannot be fitted due to restrictions. It can also be used on multiple vehicles or retained when a new vehicle is purchased (saving your investment)

Includes: *The CamperTrolley Mover, remote control, battery charger, mounting fittings and bag for storage*

CT1500
Low tower for single axles up to 1500kg
006590

CT2500
High tower for Twin axles up to 2500kg
006592

Closed frame bracket
006595

Kronings Caravan mover mounting accessories

ERIBA Touring kit
006615

AL-KO Vario III kit
For "Flat Frame" BPW or Al-Ko Vario III chassis
006617

M-Chassis kit
006635

Low chassis kit
006633

Spacer Kit
15mm **006625**
30mm **006627**

Flat clamp set
006637

Upper clamp bracket
006665

Lower clamp bracket
006666

Mounting bolts set
006669

Remote control
Single axle **006662**
Twin axle **006660**

Wiring set
006673

IMAGE COMING SOON

Main switch
006675

Centre bar
Comes with synchronising bar
006698

Stop block set (2)
Stops any Kronings mover from slipping on the chassis
006639

Anti-theft lock bolt set (2)
To help prevent the mover from being removed without authorisation
006642

Kronings winding handle
006699

Grove PRODUCTS

Caravan moving systems

Buy the caravan mover that gives you more year after year!

Each product is carefully tested before shipment. Kronings caravan moving systems and equipment have a built in 64 bit encryption radio transmitter as standard. This Kronings Code technology protects your remote control against interference from other transmitters and receivers!

WOW Five year warranty on all movers when the mover is serviced after years 1 and 3 by a Kronings service centre! Future proof – Software upgrades available through Kronings service centres!

kronings

Light weight Caravan mover
Manual engagement
Compact, clean design and minimal maintainance - easy to use. Manual engagement with cross actuation allowing both rollers to be engaged from one side.
Controlbox on all models can be individually programmed by Kronings service centres, to meet the exact demands of the customer.
When new software is developed, the controlbox can always be upgraded with newest functions by any Kronings service centre.

Single axle up to 1,800kg	**006600**
Twin axle with 4 motors	**006604**
(all wheel drive) up to 3,000kg	

Caravan mover
Fully Automatic engagement
Compact, clean design and minimal maintainance - easy to use. Automatic engagement by control buttons on the handset.
Controlbox on all models can be individually programmed by Kronings service centres, to meet the exact demands of the customer.
When new software is developed, the controlbox can always be upgraded with newest functions by any Kronings service centre.

Single axle up to 2,000kg	**006606**
Twin axle with 2 motors	**006608**
up to 2,300kg	
Twin axle with 4 motors	**006610**
(all wheel drive) up to 3,000kg	

	006600	**006604**	**006606**	**006608**	**006610**
	MANUAL ENGAGEMENT		AUTOMATIC ENGAGEMENT		
	Single axle	Twin axle 4 motors (AWD)	Single axle	Twin axle 2 motors	Twin axle 4 motors (AWD)
Weight	28.7kg	57.5kg	32kg	32kg	64kg
Frequency	433.92MHz	433.92MHz	433.92MHz	433.92MHz	433.92MHz
Voltage	12V	12V	12V	12V	12V
Recommended Battery Size	85-105 (Ah)	105 (Ah)	85-105 (Ah)	85-105 (Ah)	105 (Ah)
Rise	16% (1800kg) 23% (1275kg)	13% (2500kg) 15% (2100kg)	17% (1800kg) 25% (1275kg)	15% (2300kg) 18% (2000kg)	14% (3000kg) 20% (2000kg)
Electric Usage (Firm ground) Standby	25-35Ah < 10mAh	25-35Ah < 10mAh	25-35Ah < 10mAh	25-35Ah < 10mAh	25-35Ah < 10mAh
Speed cm/s (Firm ground)	12-14	12-14	13-16	13-15	14-15

Grove PRODUCTS

A

Powrtouch Caravan Movers

Powrtouch caravan movers are designed to fit caravans that have shock absorbers fitted or have a narrow gap (less than 105mm) between the chassis and the tyre. They are fitted with a reduction gearbox to provide more moving power to the caravan wheels than comparative traditional caravan movers. Under ideal conditions it is expected that Powrtouch movers will move a 1,500 Kgs (approx 1.5UK tons) caravan up a 1 in 4 slope.

powrtouch
CARAVAN MOVERS

WOW 5 Years Warranty on Powrtouch movers!

Powrtouch Freedom Caravan Mover
- Powrtouch Freedom mover for single axle caravans will fit all standard Alko & BPW chassis with or without shock absorbers
- Powrtouch adaption brackets are available to allow fitment to non standard chassis
- High strength, high grade steel reduction gearbox giving improved power delivery
- Ability to engage both rollers from one side via the included cross actuation engagement system
- Powerful enough to move caravans weighing 1500kgs on a 1 in 4 slope (levelling ramps)
- Robust and durable construction achieved through the use of high grade steel & materials
- Hard wearing roller construction in aluminium to save weight
- Precise & accurate Soft Start Powr Drive control giving smooth mm by mm manoeuvring
- 360° directional precision control with in-motion directional adjustment
- Comprehensive directional performance, all with 4 speed settings
- Multifunction handset and base unit warning indication system
- Designed & manufactured to the highest industry standards including ISO 9001:2008
- Industry leading five year no quibble guarantee is fully supported by Powrtouch's factory trained technicians and engineers
006813

HTD Mirror Protectors
Protect-it
Protect your wing mirrors as well as your wallet. Protect, upgrade, customize!
- Helps to prevent damage to wing mirrors. Improves the appearance of the vehicle, covers existing damage with a professional gloss lacquer finish.
- Easy to fit, simply stick on to the mirror housing without the need for any additional tools. Extra strong double-sided permanent adhesive tape for protection against theft
- Impact resistant up to 90kmph against stationary and moving objects
- Set of 2

For Fiat Ducato, Peugeot Boxer and Citreon Relay (Jumper) models manufactured after 2006

Coachbuilt (motorhome) version for long arm mirrors
White   **120171W**
Black   **120171B**
Chrome **120171C**
Utility (campervans) version for short arm mirrors
White   **120170W**
Black   **120170B**
Chrome **120170C**

Grove
PRODUCTS

Hitchlocks and security devices

AL-KO QUALITY FOR LIFE

fits

AKS 3004
Fits all models of 2004/3004 stabilisers
007941

fits

AKS 1300 / AK300
Fits 1300 stabilisers and AK300 coupling heads
007961

fits

AK160
Fits AK160 50mm coupling heads
007975

Security Premium
Safety Premium meets the highest international safety standards such as the criteria for the "Sold secure Gold standard" (UK).
The sturdy steel construction with powder-coated housing and a solid galvanised bolt (free of chromium(VI)) is supplied with two keys.

fits

AKS 1300
Comes with necessary fittings
007960

fits

AKS 3004
Fits all models of 2004/3004 stabilisers
007940

AKS security barrel and two keys
007723

Safety Plus
The tried-and-tested solution offers protection both on the road and when parked. So the caravan remains secure even when taking a break. With additional drill protection! Especially high-strength steel, additional reinforcements and the lock with drill protection, the Plus version offers great anti-theft protection even in unsafe areas. The red colour also means - this caravan is perfectly secured

fits

AKS 2700 security device
Supplied with safety ball
008007

fits

Winterhoff Robstop Plus
Supplied with safety ball
007860

AL-KO coupling lock
A compact and sturdy universal 50mm ball coupling lock. Singly or 5 per outer
002092

AL-KO AKS1300 lock
Integral lock for the AKS1300 stabiliser. Comes with 2 keys
002118

AL-KO AK 10 lock
For Al-Ko AK 7, 9 + 10 hitches. Comes with 2 keys. Singly or 10 per outer
002105

AL-KO AK 13 lock
Integral lock for Al-Ko AK13, AK21 and AKS 2700 stabiliser. Comes with 2 keys
002116

Corner steady lock
For use with AL-KO premium corner steady
007436

Trailerlock Mk2
To fit 50mm ball couplings. Supplied with 2 keys
002090

Grayston hitchlock
To fit 50mm ball couplings. Supplied with 2 keys
002087

AL-KO safety ball
Dispaly box of 24
002120

Grove PRODUCTS

33

AL-KO Secure wheel clamps

Lozenge insert only - Is the red insert only
Compact kit - Includes:
Rim Specific Insert, Kneeling Mat, Wheel Brace
Lock Components Box Including:
● Locking Bolt & Locking Bolt Socket
● Barrel Lock & 2 Barrel Lock Keys
● Barrel Lock Weather Cover
● Instruction Manual With Registration Card

SOLD SECURE DIAMOND WHEEL LOCKS

AL-KO QUALITY FOR LIFE

WOW
The AL-KO Secure Wheel lock has been tested to Diamond standard from SOLD Secure and
is the only product on the market with this level of security.

WOW
Many more models held in stock not illustrated.
Other models available to order by special request!

Compact No. 26	**001891**
Insert No. 26	**001891INS**
Compact No. 22	**001883**
Insert No. 22	**001883INS**
Compact No. 21	**001888**
Insert No. 21	**001888INS**
Compact No. 18	**001899**
Insert No. 18	**001899INS**
Compact No. 17	**001896**
Insert No. 17	**001896INS**
Compact No. 14	**001897**
Insert No. 14	**001897INS**
Compact No. 11	**001904**
Insert No. 11	**001904INS**
Compact No. 10	**001902**
Insert No. 10	**001902INS**
Compact No. 3	**001898**
Insert No. 3	**001898INS**

No. 2

Hawk 14"
Used by Various
1287647
Compact Kit **001900**
Insert Only **001900INS**

No. 8

Salida 14"
Used only by Lunar
1287650
Compact Kit **001903**
Insert Only **001903INS**

No. 15

Challenger 14"
Used by Swift on Challengers
& Conquerors < 2014
1287992
Compact Kit **001892**
Insert Only **001892INS**

No. 16

Bailey 14"
Used by Swift on various models
1287993
Compact Kit **001909**
Insert Only **001909INS**

No. 19

Hawk 15"
Used by various manufacturers
1287990
Compact Kit **001908**
Insert Only **001908INS**

No. 20

Pageant 6 14"
Used by Bailey on Pageant series 6
models
1287645
Compact Kit **001882**
Insert Only **001882INS**

No. 23

Roven 14"
Used by Swift on a range of
models < 2015
1289106
Compact Kit **001894**
Insert Only **001894INS**

Grove PRODUCTS

No. 24

Lunar 5514 14"
Used only by Lunar
1289166
Compact Kit   **001895**
Insert Only   **001895INS**

No. 25

Storm 14"
Used by Swift on a range of
models < 2015
1289487
Compact Kit   **001890**
Insert Only   **001890INS**

No. 27

Pegasus 14"
Used by Bailey on Pegasus &
Olympus models
1289779
Compact Kit   **001889**
Insert Only   **001889INS**

No. 28

Unicorn 15"
Used only by Bailey on Unicorn
models
1289824
Compact Kit   **001884**
Insert Only   **001884INS**

No. 29

Vortex 14"
Used by Coachman
1553574
Compact Kit   **001885**
Insert Only   **001885INS**

No. 30

Vortex 15"
Used by Coachman
1553575
Compact Kit   **001886**
Insert Only   **001886INS**

No. 31

Lunar 14"
Used only by Lunar
1555497
Compact Kit   **001887**
Insert Only   **001887INS**

No. 33

Bailey 14"
Used by Bailey
1556873
Compact Kit   **001880**
Insert Only   **001880INS**

No. 34

Scorpion 15"
Used by Swift
1556874
Compact Kit   **001881**
Insert Only   **001881INS**

No. 35

Tardis 14"
Aftermarket potential on All
Hymer, Corona, Xplore, Avante,
Affinity and dealer specials
1557310
Compact Kit   **001877**
Insert Only   **001877INS**

No. 36

Scorpion 14"
Used by Swift
1557312
Compact Kit   **001879**
Insert Only   **001879INS**

No. 37

Vision 14"
Used by Coachman
1557613
Compact Kit   **001875**
Insert Only   **001875INS**

Grove
PRODUCTS

AL-KO Secure wheel clamps

B

No. 38

Lunar 14"
Used by Lunar
1557619
Compact Kit   001876
Insert Only   001876INS

No. 39

Bailey 14"
Used by Bailey
1558298
Compact Kit   001880A
Insert Only   001880AINS

No. 42

Lunar 14"
Used by Lunar
1558766
Compact Kit   001874
Insert Only   001874INS

No. 43

Swift 15"
Used by Swift
1559389
Compact Kit   001873
Insert Only   001873INS

No. 44

Swift 14"
Used by Swift
1559417
Compact Kit   001872
Insert Only   001872INS

No. 47

Falcon 15"
Used by Coachman
1559565
Compact Kit   001886A
Insert Only   001886AINS

No. 48

Otium 14"
Used by Bailey
Option on Pegasus Grande
1821118
Compact Kit   001871
Insert Only   001871INS

No. 49

Otium 15"
Used by Bailey
Option on Pegasus Grande
1821134
Compact Kit   001870
Insert Only   001870INS

No. 50

Basecamp 16"
Used by Swift
1821165
Compact Kit   001869
Insert Only   001869INS

Protective Covers

Secure No.2	001960	Secure No.35	001984A
Secure No.5	001963	Secure No.36	001985
Secure No.8	001966	Secure No.37	001986
Secure No.15	001968	Secure No.38	001987
Secure No.23	001972	Secure No.43	001993
secure No.26	001973	Secure No.44	001994
Secure No.30	001980	Secure No.48	001998
Secure No.34	001984	Secure No.49	001999
		Secure No.50	002000

Receiver Cap Yellow
Pack of 5 **001959**

Replacement Barrel and 2 keys
001850

Grove PRODUCTS

Stronghold Security

Stronghold products come with a 2 year mechanical warranty. The hitchlocks can be fitted hitched or unhitched. All locks have high security pick free locks, supplied with 3 keys giving millions of key combinations. Handy and colour pictorial fitting instructions.
DO NOT USE WHILST TOWING

Stronghold AL-KO hitchlock
- Sold Secure Gold
- Fits Alko Hitches, AK130, AK160, AKS1300, AKS2004 and AKS3004 (all versions)
- Easy fit in under 10 seconds
- Case hardened steel body and locking bolt
001703

Stronghold Winterhoff hitchlock
- Sold Secure Gold
- Fits Winterhoff WS3000 hitches
- Easy fit in under 10 seconds
- Supplied with steel security ball for the un-hitched position
- Case hardened anti-saw location pins
001705

Maypole AL-KO hitchlock
- Fits Alko Hitches, AK130, AK160, AKS1300, AKS2004 and AKS3004 (all versions)
- Lightweight and robust construction
- Insurance approved
001703A

Maypole strongbox hitchlock
- Fits Alko, Albe, Winterhoff, Harrison, B&B and most other original open handle hitch types
- Robust steel construction
- Anti-prising lip
001701

Apex wheel clamp
- Sold Secure Gold
- Fully adjustable for wheel diameter (set once)
- Strong and robust steel hardened patented design
- Covers wheel nuts, wheel trims and alloy wheels
- Protective rubber on back plate to prevent damage to the wheel
- Easy to fit in under a minute - no tools required
12"-13" Fits tyre widths up to 165mm
001716A
13"-15" Fits tyre widths 175-195mm
001718A
15"-18" Fits tyre widths 205-225mm
001720A

The leg lock
- 2 year mechanical warranty
- Supplied with 3mm allen key and hexagon adjustor key
001707

Alloy wheel clamp
- Sold Secure Gold
- Fits 13" to 15" rim sizes
- Fits 165mm to 205mm tyre sizes
- Easy fit onto security wheel bolt in under a minute
- Strong and robust hardened steel construction
001722

Atlas wheel clamp
- Sold Secure Gold
- Fits steel and alloy wheels up to 265mm width
- Easily fitted in under a minute
- Durable PVC coating prevents damage to the wheels
001714A

Protector wheel clamp
- Sold Secure Gold
- Universal fit not restricted by tyre size or width
- Prevents tow away theft by stopping rotation of the wheel
- Easily fitted in under a minute
- Foam protection to prevent damage to the wheels
- Ideal for alloy wheels
001730A

Maypole security post
- Additional security for private or commercial use
- Highly visible deterent
- Folds down for convenient vehicle access
- 3 mounting holes for bolts (not included
- Includes integral lock and protective cover
001729

Grove
PRODUCTS

SECURITY FIAMMA
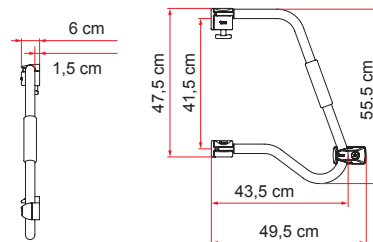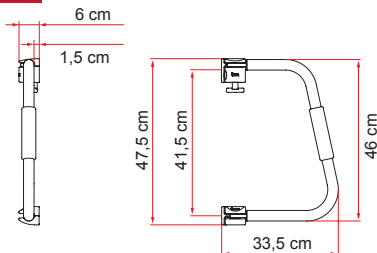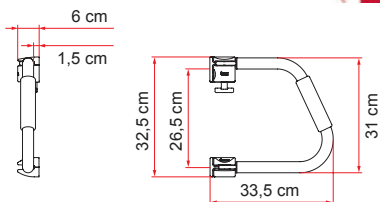
Security 31
Security device made from solid painted aluminium with 30mm diameter and 2mm thickness. It also serves as a conventional handle to make entering and exiting the vehicle easier. Adapts to all doors opening both to the right and to the left.
001201

Security S
M-shaped ergonomic handle with less projection than the standard handle
001200A

Security 46
Extra long version of Security 31
001203

Kit Security Grip
Comfortable polyester anti-slip cover to protect the safety grip of the security handles. Now delivered as standard with security handles it is available as an option for previous versions.
001203A

Security 46 PRO
Special version of Security for motor home doors or for applications where a strong structure is required. Made in light but solid aluminium. Delivered with Kit Security Lock that offers major safety and strength thanks to a third fastening point on the door.
001204

Kit Security Lock
Optional additional safety lock kit for Security 31 and Security 46 to be installed on the door of the motorhome. Delivered as standard with keys and internal brackets. Weight 0.5kg. White
001218

Duo-Safe Pro
Strong security bar allows blocking of the front doors from the inside. Quick and ready to use. Universal model thanks to the telescopic frame and Quick Lock hooks provided, to adapt to most vehicle cabins.
Tested on:
Fiat Ducato, Citroen Jumper, Peugeot Boxer and Renault Master before 06/2006
Mercedes Sprinter, Fiat Ducato, Renault Master and Ford Transit after 06/2006
Also suitable for Iveco Daily cabin.
Weight 1kg
Grey
001204A

Grove PRODUCTS

SAFE DOOR®

Safe Door®

Safety block for motor home or caravan door. It works as an anti-theft device as it is made from sturdy anodized aluminium without plastic parts. It is easily installed to the vehicle wall with bolts and internal support brackets. Weight 0.6kg.

White   **001206A**
Grey   **001206B**
Black   **001206C**

Safe Door® 3

A set of 3 Safe Doors with the same key number for convenience.

White   **001206D**
Grey   **001206E**
Black   **001206F**
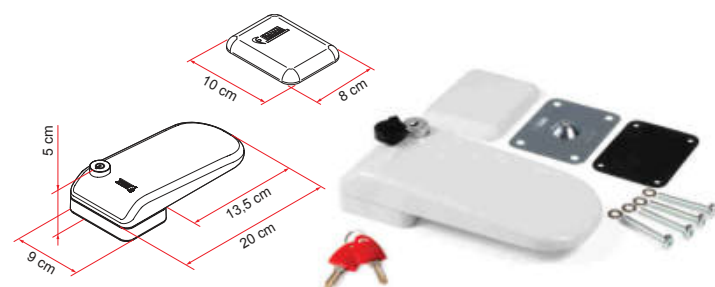
Safe Door® Magnum

A Safe Door® with extended length to 20cm to cover the locks of camper doors.
Weight 0.6kg. White.
001211

Safe Door® Frame

A Safe Door® that is installed on the side frame of the door or garage compartment with self-tapping screws. Weight 0.5kg.

White   **001208A**
Grey   **001208B**
Black   **001208C**

Safe Door® Frame 3

A set of 3 Safe Door Frames with the same key number for convenience

White   **001208D**
Grey   **001208E**
Black   **001208F**
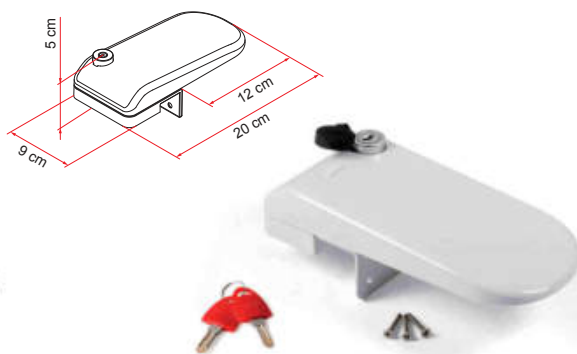
Safe Door® Magnum Frame

Installed on the inside profile of the door this special Safe Door® Frame Magnum is a Safe Door® Frame with extended length to 20cm to cover the locks of camper doors.
Weight 0.6kg. White.
001211A

Safe Door® Guardian

Security block created to be placed on the inside of the door or the garage of the motor home or caravan to secure the doors of the vehicle. Excellent protection against theft as it is made of strong aluminium, without any plastic parts. It is installed instead of the standard plastic security blocks, in the same position and using the same fixing holes.

Standard
001213

Ducato
After 09/09
001214
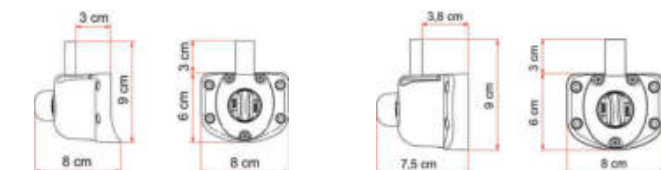
Ducato
After 06/06 before 09/09
001214A

Transit
After 06/06
001214C

Grove
PRODUCTS

Exterior door locks

WOW A left hand lock fits on a door with the hinges on the left as you look from the outside

Caraloc 640
Left hand complete	**001103**
Right hand complete	**001105**
Left hand interior only	**001104**
Right hand interior only	**001106**
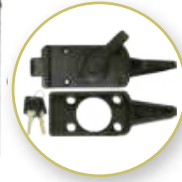
Caraloc 2000
Left hand complete	**001012**
Right hand complete	**001014**
Left hand interior only	**001013**
Right hand interior only	**001015**

Zadi round door lock
Right hand black	**001131**
Left hand black	**001132**

Zadi round door lock
Right hand cream	**001133**
Left hand cream (black interior)	**001134**

Caraloc 680
001001

Caraloc 700
Left hand	**001078**
Right hand	**001089**
Exterior only	**001091**

Locker locks

Compartment lock assembly
Complete assembly and 2 keys
001168

W4 external locker door lock
Replacement door lock assembly complete with WD lock and 2 keys. Used by manufacturers on external lockers
001169

Black oblong 50mm
001161

Black square 45mm
001180

Black square 45mm Including cover **001162**

Grove PRODUCTS

Locks and keys

WD Standard barrel
Supplied with 2 WD keys standard barrel with removal tool
001164

WD short threaded barrel
Supplied with 2 WD keys. A WD short barrel lock with a female thread to enable attachment to gas locker door mechanisms
001167

WD Short barrel
Supplied with 2 WD keys
001166

Caraloc spare barrel
Supplied with 2 MC keys
001130

Caraloc security barrel
To replace caraloc and WD standard barrels with a high security lock with over 1000 combinations. Comes with removal tool and 4 keys
002127

Zadi spare barrel
As used on Hartal doors and Vecam lock assemblies. Supplied with 2 Zadi keys
001154

Snake cut lock barrel
Replacement barrel lock cylinder, complete with one fold-away key fob and one over-moulded key. As used by Coachman Caravans
001170

Waterproof laminated padlock
Singly or 20 per outer
001177
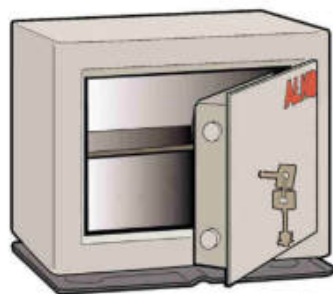
AL-KO Personal effects safe
Complete with removable internal shelf, mounting plate, with all fixings and 2 keys. 14 Litres. Outer wall thickness: 3mm
External Dimensions: 300 x 240 x 200mm.
Weight: 8.5kgs
002165

All keys are supplied individually packed in outers of 3

MC keys
001147 followed by key number
Key merchandiser
Includes 3 of the available keys between
1 and 40 **001149**
41 and 80 **001150**

ALL NUMBERS BETWEEN 1 AND 80 ARE AVAILABLE

All keys are supplied individually packed in outers of 3

WD keys
001155
followed by the key number
Key merchandiser
Includes 3 of the available 72 keys between 1 and 199
001160

1	2	3	4
5	19	20	28
29	30	32	47
48	52	53	54
58	59	60	62
64	67	69	78
82	83	84	85
97	98	99	100
101	105	106	107
108	109	110	123
124	125	126	130
131	132	133	134
135	148	149	150
151	152	156	157
158	159	160	161
174	175	176	177
178	182	183	184
185	186	187	199

Alarm systems

Swift Stinger 310
002178S

Coachman Stinger 310
002178C

Sargent Stinger 300 Alarm kit
The Stinger 300 is best suited to aftermarket applications or as a replacement for our older AS210 system.It uses a simple to fit 2 wire power connection and is supplied with a mating cable for use if your caravan doesn't have an appropriate socket. Key fob operated alarm system with:
● PIR movement sensor
● Tilt Sensor
● Awning light operation (via extra wiring)
● Battery back-up
● Loud 110db siren
002177

IDM PIR sensor
Fits IDM 2, 3 & 4
002173A

IDM charger
Fits IDM 2, 3 & 4
002171

IDM battery
Fits IDM 2, 3 & 4
002172

IDM Key pad
Fits IDM 4
002175

IDM4 Alarm kit
A keypad operated alarm system able to operate for many months from its integral battery.
● Stylish keypad with 10,000 possible codes, sensor and battery test functions and programmable settings
● 3 possible power sources – plug-top charger, leisure battery, solar panel (optional extra)
002174

Haegil H-847 Caravan alarm
A 12 volt remote control caravan / motorhome alarm that provides interior protection with a night mode to protect while you sleep. It features tow vehicle ignition sensing, unauthorised hitch-up detection, two sirens and an awning light output. It has been designed with additional alarm trigger inputs that allow the alarm to be tailored to your specific requirements, providing the ability to use additional pin switches, magnetic contacts or shock sensors to protect external lockers and equipment.
The system is supplied with 2 remote control encrypted transmitters each with its own panic facility. The main module contains an integrated tilt sensor which can be adjusted to any angle, ensuring the alarm will sound if an attempt is made to hitch-up the caravan illegally. A separate movement sensor fitted within the vehicle provides interior protection that can be disabled when you wish to sleep in the caravan with the alarm switched ON. An external awning light can be set to illuminate when switching the alarm ON or OFF for convenience on returning to the caravan. The alarm has 2 sirens, one with its own internal battery for additional security.
002150

Safe Can
Store your valuables where the thief won't find them. All labels and cans are 100% genuine and supplied by the manufacturer under licence. Recognised by Police Forces, Neighbourhood Watch groups and Insurance Companies worldwide as an excellent deterrent to theft, the Safe Can is an ideal place to hide money, jewellery and valuables. Just unscrew one end to reveal a great hiding place. Supplied 10 per outer

Soup   **002252**   Beans   **002253**

Supplied 50 per outer
Assorted soup, beans, spaghetti **002250**

Vechline 230v plugs, sockets and accessories

Mains Extension Leads
230V 16A IP44.
3 x 2.5mm² cable.
Conform to:
- BS EN 60309 (Plug & Coupler)
- BS EN 50525 (Cable)
- Low Voltage Directive (LVD2014/35/EU)

Mains extension lead with carry bag
10m lead   **016161A**
25m lead   **016162A**

Mains extension lead in polybag
10m lead   **016161B**
25m lead   **016162B**

Hook-ups and Trailing sockets
230V 16A IP44.
Conform to:
- BS EN 60309 (Couplers)
- BS EN 1363-1:2016 (UK Socket)
- BS EN 1363-1:2016 (UK Plug)
- VDE BS EN 50525-2:2011 (Cable)
- Low Voltage Directive (LVD2014/35/EU)

Mains hook-up adapter UK
Polybagged and header carded
Singly or 12 per outer
016118A

Mains hook-up adapter Continental
Polybagged and header carded
Singly or 12 per outer
016125A

Trailing socket
Polybagged and header carded
Singly or 12 per outer
016090A

Mains Plugs & Couplers
230V 16A IP44.
Conform to:
- BS EN 60309
- Low Voltage Directive (LVD2014/35/EU)

Mains site plug
Singly or 12 per outer
Polybagged and header carded
016007A

Singly or 10 per outer
Loose
016008A

Mains coupler
Singly or 12 per outer
Polybagged and header carded
016018A

Singly or 10 per outer
Loose
016019A

Grove
PRODUCTS

W4 accessories

W4 mains hook-up adaptor UK
Enables a mains lead to be connected to a 13A 3 pin socket
Singly or 10 per outer
016118

W4 mains hook-up adaptor continental
Enables a mains lead to be connected to a continental 13A 2 pin socket
Singly or 10 per outer
016125

W4 13A trailing socket
230v male site plug with 13A trailing socket.
Singly or 10 per outer
016090

W4 mains tester
For electrical safety. Considered essential on the continent. Tests Earth, Live and Neutral.
Singly or 5 per outer
016099A

W4 mains testing kit
For checking the polarity directly from site electrical post. Components can be used separately
016095A

W4 universal mains testing kit
All you need to test the site supply at source, both in the UK and Europe. Especially useful for testing for polarity reversal
016100A

W4 mains splitter 3 way
230v male 3 pole 16A to 3 way female splitter.
Conforms to EN60309
Weight 363g
Singly or 10 per outer
016020

W4 universal bulb kit
Contents:
H1, H4 & H7 headlight bulbs.
11 x assorted bulbs
3 x assorted blade fuses
2 x assorted mini blade fuse
010802

W4 inside/outside kit
Contents:
20mm fuses x 5 (1A, 2A, 3A, 5A & 10A),
30mm fuses x 3 (5A, 10A & 15A),
Mains fuses x 2 (5A & 13A),
Blade fuses x 4 (3A, 5A, 10A & 15A)
12V bulbs x 9 (Stop and tail, flasher/fog, no. plate, tail, 10W spot, 15W spot, 10W G4, 5W festoon & 10W festoon).
Singly or 25 per outer
010800

W4 budget kit
Contents:
12V bulbs x 7 (5W festoon, 4W Ba9s, 5W capless bulb, 5W Ba15s, 10W Ba15s, 21W Ba15s & 5/21W Ba15s) 2 x Blade fuses (10A, 15A)
010801

W4 motor home headlight kit
Contents:
12V bulbs x 7 (5W festoon, 4W Ba9s, 5W capless bulb, 5W Ba15s, 10W Ba15s, 21W Ba15s & 5/21W Ba15s)
3 x Blade fuses (10A, 15A & 20A),
2 x Mini blade fuses (10A & 15A)
Plus the following
H1 headlight bulb **010803**
H4 headlight bulb **010804**
H7 headlight bulb **010805**

230v mains inlets and outlets

Oblong flush mains inlet
230v male 3 pole 16A mains inlet in an IP44 housing.
Installation hole:
150x92x65mm (HxWxD)
White **016036**
Grey **016036G**

Cover and pins
Fits 016036, 016038, 016039, 016044 and 016043 (by cutting fins).
160 x 100mm
White **016040**
Grey **016040G**

W4 flush mains inlets
230v male 3 pole 16A mains inlet with lever release in an IP44 housing.
Installation hole: 100x100x80mm (HxWxD).
Singly or 10 per outer
White **016045**
Black **016046**

W4 waterproof flush socket
IP55 230v 13A socket in an IP44 housing. Installation hole:
150x92x65mm (HxWxD)
016043

W4 flush mains outlet
230v female 13A socket in an IP44 housing. Installation hole:
150x92x65mm (HxWxD)
016039

W4 mains angled inlet
Surface mounted 230v male 3 pole 16A inlet complying with BS4343 and IEC 309 CEE17
016029

W4 garage socket
230V female 3 pole 16A mains outlet. IP44
016049

Truma mains outlet
230v 13A socket in an IP44 housing. Prewired for simple installation.
Installation hole:
90x80x65mm (HxWxD)
Overall dimensions:
140x125x108mm (HxWxD)
840701

W4 waterproof socket
230v 13A socket IP55
016044

W4 flush dual 230v/12V outlet
230v female 13A socket & 12V lighter type socket in an IP44 housing. Installation hole: 150x92x65mm (HxWxD)
016038

Grove PRODUCTS

230v mains accessories

**"Keep Calm and Caravan"
mains cable bag**
Reinforced nylon bag **016174A**

Mains lead bag
Reinforced nylon bag **016174**

Cord wheel
Stores up to 45 meters of cable, cord, rope or flat hose keeping it tangle free and ready for use.
6 per outer **016269**

Matching Hitch cover **007345A**
Peg bag **109563A**

**W4 cable keeper
& storage bag**
Will hold up to 25 metres of cable comes with nylon storage bag
016267

W4 cable keeper
Will hold up to 25 metres of cable
016266

WOW Printed bags have the same unit cost as standard bags (for single colour printing) minimum quantity 100. Please speak to your sales contact for more details. For personalised product please allow a minimum of 6 weeks for first time orders and 4 weeks for repeat orders to receive your delivery.

Cable connecting case
Waterproof safety box for housing the connection when using 2 mains cables
016188

Cables

Priced per metre. Sold by the roll.
Except 13 core cable which is sold by the length.
All PVC sheath with PVC insulated cores

7 core Black - 7 cores of 21 strands x 0.2mm Ø 100m roll
011542

7 core Grey - 6 cores of 21 strands x 0.3mm Ø and 1 core of 35 strands x 0.3mm Ø
30m roll
011553

13 core Black - 5 cores x 2.5mm Ø & 8 cores x 1.5mm Ø manufactured to ISO 11446
3m length **011554**
5m length **011555**

Twin core flat - 2 x 32/0.2, 8 amp, (1.0mm^2) black
30m roll
011586

Mains cable 3 x 2.5mm^2 with orange
100m roll
016175

Grove PRODUCTS
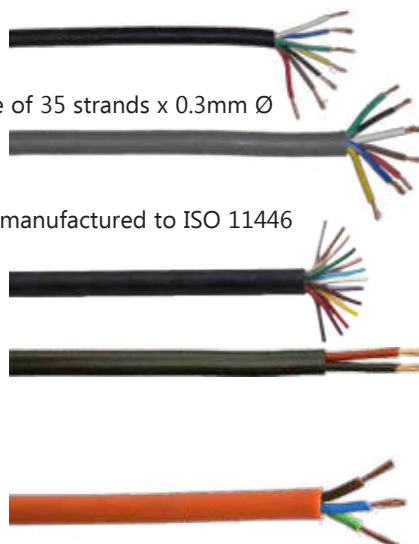
Solar panel kits
Monocrystalline
Rigid solar panel kits
High-performance monocrystalline cells. Supplied with integrated aluminium brackets, relevant charge controller, 6m cable, roof grommet, sealant and primer kit.

Part No.	010365	010366A	010367A
Pmax (W)	75	100	120
Vmp (V)	18	18	18
Imp (A)	4.31	5.56	6.67
Isc (A)	4.74	5.94	7.13
Voc (V)	21.06	21.06	21.06
Tolerance	+/- 5%	+/- 5%	+/- 5%
Dim. (LxWxD mm)	1096 x 540 x 57	1296 x 540 x 57	1326 x 660 x 57
Weight (Kg)	9.2	10.5	12.6

WOW All Vechline solar panels comply with NCC recommendation EN1648

3 year
Construction guarantee
10 year
Cell output guarantee
(Cells will produce a minimum of 90% of the rated output after 10 years)

All Vechline solar panel kits are supplied with the relevant charge controller, 6m cable, roof grommet, sealant & primer
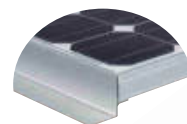
Integrated aluminium profile

Flexible solar panel Kits
Ideal for use on curved roof, profiles, greenhouses, boats and awnings. High-performance monocrystalline cells. Bending radius 10° max. Excellent holding in the marine environment. Ultra lightweight and high efficiency. Break-resistant. Supplied with relevant charge controller, 6m cable, roof grommet, sealant and primer kit.

Part No.	010369AK	010369BK	010369CK
Pmax (W)	100	120	150
Vmp (V)	18.97	18.97	17.8
Imp (A)	5.28	6.33	8.45
Isc (A)	5.69	6.83	9.30
Voc (V)	22.76	22.76	22.76
Tolerance	+/- 5%	+/- 5%	+/- 5%
Dim. (LxWxD mm)	1240 x 570	1430 x 680	1600 x 680
Weight (Kg)	4.0	4.5	4.8

Solar Technology panels

Solar Panel kits for use on motorhomes and caravans. High efficiency crystalline cell for "all weather" charging. Solar Technology panels are all accredited with the internationally recognised IEC 61215 certification that guarantees robust construction and high performance in all weather conditions. 10 year module warranty – 20* year cell output warranty.
(*Output will be minimum 80% of specification after 20 years)

Solar
TECHNOLOGY INTERNATIONAL

40Wp **010351**　　　　60Wp **010352**　　　　90Wp **010353**

Folding solar panel kits includes solar panel with fold away support legs, extension cable with crocodille clips, premium carry bag and fitting instructions

Part no.	Kit Power	Dimensions (mm)	Charge Control Included	Weight	Average Amp/ hours per day
010351	40Wp	500 x 353 x 76	10Ah (010380A)	7kg	Up to 15.54
010352	60Wp	500 x 500 x 76	10Ah (010380A)	8.5kg	Up to 22.3
010353	90Wp	700 x 520 x 76	10Ah (010380A)	11.5kg	Up to 33.41

60Wp **010363A**　　80Wp **010364A**　　120Wp **010367**　　150Wp **010368**

Aero profile panel kits includes solar panel, relevant charge controller, 5m cable bundle, 1 set of Aero profiles, cable feed gland, tube ISR bonding agent, pack of fuses / ring terminals etc. and fitting instructions

Part no.	Kit Power	Dimensions (mm)	Charge Control Included	Weight	Average Amp/ hours per day
010363A	60Wp	685 x 670 x 35	10Ah (010380A)	6kg	Up to 23.82
010364A	80Wp	815 x 670 x 35	10Ah (010380A)	7.8kg	Up to 30
010367	120Wp	1250 x 670 x 35	10Ah (010380A)	12kg	Up to 47.58
010368	150Wp	1490 x 670 x 35	10Ah (010380A)	15.2kg	Up to 58.32

WOW Charge controllers comply with NCC recommendation EN1648

Foldout solar panel
4W. Encased in hard wearing ABS material and it can be used in all weather conditions – inside and out!
● Support stand incorporated in the hard wearing body
● In built LED charge indicator
010350A

Premium profiles
18cm straight pack of 2　　**010388**
Corner pack of 4　　**010386**

Waterproof cable gland
Single comes with an extra gland to add a 2nd cable in future if necessary
Single **010391**
Double **010390**

Twin charge controllers
Can charge up to 2 batteries simultaneously
10Ah　　**010380A**
20Ah　　**010383A**

Twin charge controller
LCD Display to provide intelligent information about the solar panel performance
● Protects against battery reverse feed, overload, open circuit, lightning surge, deep discharge and currents up to 30A
30Ah　　**010384**

Grove PRODUCTS

Solar panels and accessories

Ring solar autotrickle charger 12V

Designed for cars and motorhomes when in storage to send a maintenance level charge to the battery, helping prevent flat batteries. Simply sits on the dashboard or windscreen and connects to the 12V cigar lighter socket.

Complete with suction cups (for windscreen mounting), LED charge indicator, 12V DC power plug, battery clips and 2.7 metre lead. Can be left connected overnight.

- Solar panel trickle charger to manage battery drain in parked vehicles.
- Can be connected to the cigarette lighter or directly to the battery.
- Will not overcharge or damage batteries.
- Charging voltage 13-14V, open circuit 22V.
- Applicable for all types of 12V batteries

Power 1.5W
520x170x30mm (HxWxD)
010370

Power 2.4W
525x265x35mm (HxWxD)
010373

Power 6W
580x385x60mm (HxWxD)
010377

ROKK wireless charging

The IPX6 waterproof 12/24V Qi certified waterproof wireless charging range enables wireless charging for the outdoor environment, without the need for phone charging cables. Designed from the ground up, this is the **world's first waterproof wireless charge system created specifically for use on board**, with the unique technology is housed in an IPX6, fully encapsulated and sealed unit.

Working directly with 12/24V systems, ROKK Wireless is ideal for life on the move and is perfect for sail and power boats and also RV. Easy install, anywhere you need your phone - indoors or out. No more wires! Exceeding the latest and highest standards of the Qi wireless protocol, ROKK Wireless is independently certified to deliver ultra-safe, wireless charging anywhere on board.

ROKK Hidden 12/24V wireless charger

Sub-surface, hidden from view but always ready to charge. Engineered to be installed under the surface and leave the top surface un-cluttered and looking perfect. Simply etch in your logo to identify the charge location. Ideal for GRP or wood, the unit can be installed under tables, cabinets, consoles or worktops. The installation system is simple to install and works with a variety of panel depths and materials.
010060
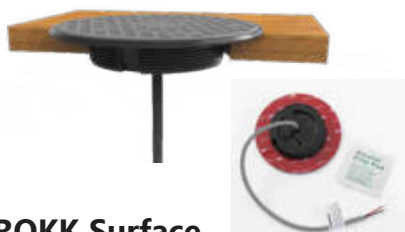
ROKK Surface 12/24V wireless charger

Low-profile, flush-mounted charge pad with an ultra grippy, nonslip surface. Contemporary look with two-tone colour, designed to complement modern interiors and exteriors. Designed to fit to any smooth surface, indoors or out.
010061

ROKK Bezel 12/24V wireless charger

The easiest to install, this option includes the non-slip surface pad but simplifies installation even further. Simply drill a 10mm cable access hole and fit to your chosen location and fast, Qi wireless charging is ready to go.
010062

ROKK receiver patch

Simply plug the Micro USB or Lightning charge patch into your phones charging port, place on the back of the phone and then clip on your phone case over the top.

Lightning (iphone)   **010064**
Micro USB (android)   **010065**

ROKK Waterproof high impact cable seal

Watertight installations for your aerial and solar panel cables! Produced in high impact, UV stable, glass filled nylon. IPX6 & 7 rated. Seal compression system, no sealant required with 3M waterproof gasket supplied.

2-6mm Cable seal   **010066**
6-10mm Cable seal   **010067**
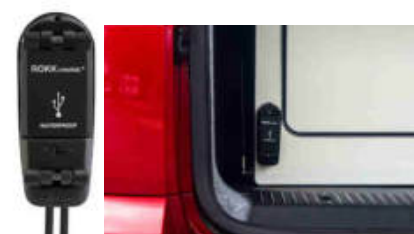
ROKK Waterproof double USB socket

Easy Install. Click and lock lid. IPX6 waterproof with cover closed.

Output current 4.2A (total), up to 3x faster than standard USB sockets. Waterproof with 1, 2 and even no cables plugged in. Anti-corrosion coating on circuit board. UV resistant., with 316 stainless hinge and spring. Anti-snag cover aligns cables when closed.
29 x 94mm **010063**

Grove PRODUCTS

Plugs, sockets, multisockets and testers

Ring 12V MultiSockets & testers

Enables multiple use of 12V appliances with cigar lighter plugs. All come with battery status indicator with the exception of 011701 & 011710. All are blister packed with euro slot

RING
Automotive

Twin MultiSocket & tester
Singly or 10 per outer
011702

Triple MultiSocket & tester
Singly or 10 per outer
011703

4-way MultiSocket & tester
Singly or 10 per outer
011704

Twin MultiSocket 12V/USB & tester
Allows the recharging of MP3 players and mobile phones. Singly or 10 per outer
011712

Can Multi-Socket & tester
10 amp 12V DC can shaped multi socket with battery analyser, width adjusting fitment collar, guide light rings and coiled cable. Singly or 10 per outer
Twin with twin USB   **011714**

12/24V plugs and sockets

Lighter type socket
12/24V, surface mounted, heavy-duty socket. 20amp
011695

Lighter type socket & cap
12/24V. Flush mounted, with a dust and splash proof cap. Push fit mounting. 20amp
011698

DIN to Lighter type converter
12/24V. Converts any single pole socket to a lighter-type socket. No fuse. 8amp
011691

DIN socket & cap
Single pole socket surface mounted with a dust & splash-proof cap. 16amp
011690

DIN multisocket
12/24V. Three single pole sockets mounted on a 90 x 36mm panel. 16amp
011693

Universal plug
12/24V. Heavy duty suitable for use in both lighter type sockets and single pole sockets. 8 amp fused
011665

Universal plug
12/24V. Heavy duty suitable for use in both lighter type and single pole sockets. 16 amp fused, built in power indication LED
011694

Bendable universal plug
A heavy duty plug similar to 011665 but can be angled at up to 90˚. 8 amp fused
011696

Standard DIN plug
12/24V basic single pole plug without a fuse. Rated 8amp
011689

Standard DIN plug
A high-quality single pole plug without a fuse. Rated 15amp
011697

Coiled extension lead
12/24V. 8amp fused universal plug with coiled cable (0.6 to 3m)
011699

Lighter socket extension 3.6m
12/24V. Heavy-duty extension lead rated to 20amps. Lighter-type plug on one end, lighter-type socket on the other. Length 12 feet, 3.6 metre
011682

Grove
PRODUCTS

Plugs, sockets, multisockets and testers

W4 illuminated cigar socket
For flush fitting in a 28mm Ø hole. 12V
011671

W4 recessed lighter socket
Flush mounted socket for permanent fixing. 12V, 5A. 10 per outer **011669**

W4 quick fit lighter socket
12V 20A. 29mm ø. 42mm depth
011647A

W4 adapt-it
2 pin 12V plug to lighter type socket adaptor. 10amp. Singly or 5 per outer
011650

W4 Dual purpose Plug
Can be used as both lighter type and single pole plug. 12V, 8 Amp. 10 per outer
011686

W4 fused lighter Plug
12V with 5amp fuse. 10 per outer **010647**

W4 lighter socket
Inline socket. 12V, 5amp. 10 per outer
011649

W4 adapt-it 2
3 pin 12V plug to lighter type socket adaptor. 2amp. Singly or 5 per outer
011652

W4 DIN socket
Single pole 12V, 19A flush fitting socket. For flush fitting in a 18mm Ø hole.
011631

W4 DIN plug & socket
Single pole 12V, 8A plug & socket. 10 per outer
011630

Hella plug and socket
Single pole 12V plug. Singly or 10 per outer
011635
Single pole socket & cap
011646

W4 adapt-it 3
Parallel pin 12V plug to lighter type socket adaptor. 10amp. Singly or 5 per outer
011654

W4 compact double USB socket
12/24V with reverse polarity protection. LED power indicator. 36.8mm ø. 40mm depth. Output : 5V DC 2.1A Max. No data transmission possible
010648

W4 2-way adaptor
Converts a lighter type socket to a double socket - internally fused at 15amps. Singly or 10 per outer
011685

W4 adapt-it 4
2 fully insulated crocodile clips to lighter type socket adaptor with 1 metre cable. 10amp. Singly or 5 per outer
011655

W4 cigar plug/socket lead
Adaptor lead to extend lighter type sockets to a distance of 2 or 5 metres. Fuse (5 amp) built into plug. Singly or 10 per outer
2m **011675**   5m **011680**

W4 adapt-it 5
Single pole plug to lighter type socket adaptor. 8 amp. Hella type. Singly or 5 per outer
011657

Grove PRODUCTS

Pack-it Ranges Electrical & TV

Stands complete with 10 packs of 24 of the best selling items in each range are available as a stand package. Please speak to your sales contact for details.
All pack-it items are sold in outers of 10 unless otherwise stated

W4

30A Terminal strip
6 way
010500

15A Terminal strip
12 way
010504

2A Terminal strip
12 way
010531

Push-on terminal &
cover (4)
Female 6.35mm
010503

Push-On terminal (3)
Insulated female
6.35mm
Red **010566**
Blue **010567**

Push-On terminal (3)
Male 6.35mm
Red **010569**
Blue **010570**

Push-On terminal (3)
Female 2.8mm
Red **010575**

Piggy back terminal
(3)
6.35mm
Blue **010573**

Ring terminal (3)
Blue 6mm ø
010578 *
Yellow 8mm ø
010579

Self stripping cable
connectors (4)
Blue **010506**

Cable clip (10)
Flat 10mm
010501

Cable clip (10)
Round
6mm **010502**
10mm **010565**

Crocodile clips
(pair)
5A **010517**

Crocodile clips
(pair)
50A   **010529**
25A   **010530**

Cable ties
100 x 2.5 mm (6)
010526 *
190 x 4.8 mm (3)
010527

Releasable cable
ties (3)
300 x 4.8 mm
010593 *

Cable tie base (3)
010528

Cable clip (3)
Self adhesive
010592

PVC insulation tape
19m x 4.5mm
010507

Bolt set (3)
For towing sockets
M5 x 35mm
010515

2 pin plug
040535

2 pin socket
040536

2 pin flush fitting
socket & plug
040537
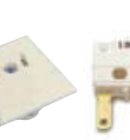
Microswitch for
taps
010583

Brass battery
terminals (Pair)
010645

Surface TV point
040546

Surface coaxial /
satellite point
040588

Surface satellite
point
040576

2-way coaxial
splitter
040586

Coaxial coupler
040544

Coaxial plug
040543

Satellite
'F' plug
040577

W4 Battery tester
Useful gadget for checking power in all sizes of dry cell batteries.
Singly or 10 per outer
016093

DC voltage tester
6-24v DC tester with neon indicator complete with 1 metre lead and crocodile clip.
Singly or 10 per outer
016041

Press switch
010514

Satellite lead 2m
F plug to F plug
040585

Aerial lead 2m
Male to male
040547

12v 1.8m power lead with reversible socket and 4 interchangeable plugs 1.3mm, 2.1mm, 2.5mm, and 3.5mm mono jack plug.
040595

W4 multimeter
Tests AC/DC voltage, DC current and resistance, diode & transformer check. Audible continuity check. Auto polarity indication. With impact resistant holder and plug in leads. Battery supplied.
Singly or 10 per outer
016096

W4 Compact multimeter
Tests AC/DC voltage, DC current, resistance. Audible continuity check. Automatic low battery indicator.
Singly or 10 per outer
016094

Rolson multimeter
Tests AC/DC voltage, DC current, decibel ratios, continuity, diode & transistors. With plug in leads. Battery supplied.
Singly or 24 per outer
016097
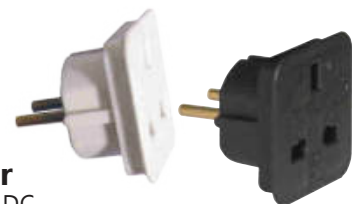
Travel adaptor
UK 3 pin socket to Euro 2 pin plug 7.5A capacity.
Singly or 10 per outer
White **016130**
Black **016131**

Grove PRODUCTS

Vechline lighting LED bulbs

WOW STABIlight technology stops flickering. 12 & 24v operation with a 3 Year Warranty.

Vechline lighting LEDs consume very little energy compared to traditional bulbs. Their performance is exceptional, 40-100 lumen / watt depending on the model. They emit virtually no heat and are highly resistant to vibration. Vechline lighting LEDs have a lifespan of 50,000 hours and use STABIlight technology that allows guaranteed lighting without flickering (especially when starting up other electrical appliances). Vechline have selected a light colour that allows for the ideal compromise between visual comfort and ambient brightness

- 12V & 24v (10-30v functioning range)
- Colour temperature 4500°K (cool white)
- Class A++
- 3 Year Warranty

Bulb terminoligy
Ba = bayonette fitting
E = Eddison screw fitting
G/GX/GU = Bi-pin connector
s = Single contact
d = Double contact
MR = Multifaceted reflector

Ba15d bulb
12/24V, 0.6w, 60 lumen, 16 SMDs.
010450

Ba15s bulb
12/24V, 0.6w, 60 lumen, 16 SMDs.
010451

MR11 G4 bulb
12/24V, 2.5w, 220 lumen, 3 SMDs 30°.
010455

MR16 GU5.3 bulb
12/24V, 5w, 220 lumen, 4 SMDs 30°
010456

G4 back pin bulb
12/24V, 2w, 205 lumen, 12 SMDs.
010452

G4 side pin bulb
12/24V, 2w, 200 lumen, 12 SMDs.
010453

G4 bulb
12/24V, 0.7w, 85 lumen, 15 SMDs. 360°
010454

G4/Ba15s dome bulb
12/24V, 1.6w, 145 lumen, 30 SMDs.
010460

31mm Festoon bulb
12/24V, 0.8w, 70 lumen, 4 SMDs.
010457

37mm Festoon bulb
12/24V, 0.5w, 50 lumen, 3 SMDs.
010458

42mmFestoon bulb
12/24V, 0.5w, 50 lumen, 3 SMDs.
010459

T10 bulb
12/24V, 1.2w, 85 lumen, 15 SMDs. 360°
010461

W4 Pack-it bulbs

12V 21W Ba15s
Indicator
010510

12V 21W Ba15s
Amber. Indicator
010564
Offset pins
010595

12V Ba15s
10W **010551**
15W **010552**

12V LED Ba15s P21
010657A

12V LED Ba15s 207
010657C

12V 5W Ba15s
Tail/side
010512

12V Ba15s Halogen
5W **010558** 10W
010559

12V Ba15d
Tail/interior
5W **010550**
21W **010553**

12V 21/5W Ba15d
Stop/tail
010509

12V LED Ba15d P21/5
010657B

12V 10 SMD G4
Back entry
2W
10 SMD **010540**

12V 12 SMD G4
Side Entry
2.4W
12 SMD **010539**

12V LED Wedge 501
010657D

12V 5W capless
Tail/side
010556

12V 1.2W capless
5mm
010556A

12V LED
G4 1.5W
130 Lumen
010541

12V LED
G4 2.5W
170 Lumen
010657F

12V G4 Halogen (2)
5W **010543**
10W **010563**
20W **010591**

230v 25W G9 halogen
010544

12V LED
G9 2.5W
220 Lumen
010657G

12V G4
30˚ MR11 dichroic
10W **010533**
20W **010534**

12V SMD G4
30˚ MR11 dichroic
1.8W
9 SMD **010538**

12V SMD GX5.3 36˚
MR16 dichroic
1.2W
12 SMD **010656**

12V GX5.3
36˚ MR16 dichroic
10W **010651**
20W **010652**

230v GU10
40˚ dichroic
Singly
50W **010589**

12V E14
15W**010554**
25W**010555**

230V 25W E14 Pigmy
bulb
010561

230v 25W E14 Golf
ball bulb
010562

12V 24W
B22d
010560

230v B22d
Globe bulb
25W **010590**
40W **010596**

12V 10W Ba9s
Halogen
Side/No. plate
010650

12V 4W Ba9s
Side/No. plate
010511

12V LED Festoon 239
010657E

12V Festoon
Interior/Awning
5W **010508**
10W **010513**
18W **010557**

Fuses

Blade fuses mixed (10)
2 x 3A, 5A, 10A, 15A & 20A
10 packs per outer
010633

Mini blade fuses mixed (8)
2 x 5A, 10A, 15A & 20A
10 packs per outer
010631

Standard blade fuses (3)
10 packs per outer
3A **010634**
5A **010635**
7.5A **010636**
10A **010637**
15A **010638**
20A **010639**
25A **010640**
30A **010641**

Mini blade fuses (3)
10 packs per outer
5A   **010605**
10A **010610**
15A **010615**
20A **010620**

LED Blade fuses (3)
LED glows when fuse blown
10 packs per outer
5A   **010670**
10A **010671**
15A **010672**
20A **010673**

10A in-line fuse holder
010516

Blade fuse holder
010642

4 Way blade fuse box
010594

Continental fuse mixed (6)
10 packs per outer
2 x 8A, 16A & 25A
010643

30 x 6.35mm fuses (3)
10 packs per outer
3A   **010519**
5A   **010520**
10A **010521**
15A **010518**

20 x 5mm fuses (3)
10 packs per outer
1A   **010632**
2A   **010522**
3A   **010523**
5A   **010524**
10A **010525**

Mains fuses mixed (6)
25mm
10 packs per outer
2 x 3A, 5A & 13A
010644

Clipsal plugs, sockets and switches

**Coax and
2 pin socket**
86 x 32mm
038638

**2 pin socket and
coax**
12V polarised socket
and coax socket
87 x 87mm
038681

Double switch
10 amp. Two gang
switch.
86 x 32mm
038643

**Single gang
socket**
Brown and silver sand
87 x 87mm
038682

**Silver sand
surround only**
038684

**Fused switch
with neon**
230v 13 amp fused
switch with neon
indicator
038675

Blanking plate
038686

Coax socket
87mm x 87mm
038622

**2 pin socket
and coax**
87 x 87mm
038678

2 pin socket
15 amp polarised
socket
87 x 87mm
038617

**Single flush
mounting box**
With push on black trim.
89mm x 89mm x 30mm
038664
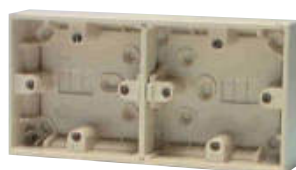
Divided box
For two single sockets.
Overall: 175mm x 85mm
Recess: 165mm x 75mm
038669

W4 mains backing boxes
Suitable for flush fitting of most 13 amp sockets.
Adjusts from 1-10mm.
Singly or 10 per outer
Single   **038723** Double **038724**
Twin   **038725**

Grove PRODUCTS

Berker sockets

UK socket
250V 13A BS1363
White	**038800**
Anthracite	**038801**
Brown	**038802**

Single pole socket
6-24V, 16A
White	**038808**
Anthracite	**038809**
Brown	**038810**

Cigar socket
6-24V, 20A (at 2.5mm^2)
White	**038806**
Anthracite	**038805**

USB charging point
5V output (not for data)
White	**038824**
Anthracite	**038825**
Brown	**038826**
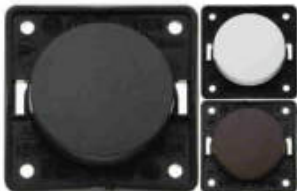
Rocker switch
Can be used as 12V or 230V
(16A at 230V) 2 pole
White	**038828**
Anthracite	**038829**
Brown	**038830**
Chrome	**038831**
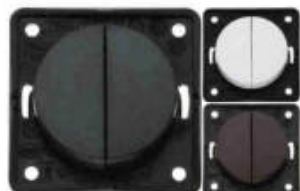
Rocker switch twin
12V/230V, 16A, 2 pole.
Common input terminal
White	**038832**
Anthracite	**038833**
Brown	**038834**
Chrome	**038835**

Rocker switch twin
12V, 5A, 2 pole.
Isolated input terminals
Anthracite	**038836**

Twin USB charging point
5V output (not for data)
Anthracite	**038827**

TV aerial point
White	**038812**
Anthracite	**038813**
Brown	**038814**

Satellite point
White	**038820**
Anthracite	**038821**
Brown	**038822**

TV/satellite point
White	**038816**
Anthracite	**038817**
Brown	**038818**

Blanking plate
Anthracite	**038882**

12V cigar socket / TV point
Anthracite	**038815**

12V cigar socket / satellite point
Anthracite	**038819**

Step switch
5 contact push button for step. 12-24V
Anthracite	**038840**

Frame & lid
With foam gasket. IP44
White	**038870**
Anthracite	**038871**
Gloss chrome	**038856A**

Frames
Frames are available in two design styles: **"Pure"-flat & "Flow"-bevelled**
An approximation of colours is shown opposite.

Granite Pure	
White Flow	
Anthracite Flow	
Matt Chrome Flow	
Stainless Steel Pure	
Gloss Chrome Flow	
Gloss black Pure	
Brown Flow	

Granite frames
Single	**038851**
Double	**038860**

White frames
Single	**038852**
Double	**038861**
Triple	**038866W**
Single & lid (IP44)	**038870**

Anthracite frames
Single	**038853**
Double	**038862**
Triple	**038866**
Single & lid (IP44)	**038871**

Matt chrome frames
Single	**038855**
Double	**038864**

Stainless steel frames
Single	**038856PSS**
Double	**038864PSS**
Triple	**038868PSS**

Gloss chrome frames
Single	**038856**
Double	**038865**
Triple	**038867**
Single & lid (IP44)	**038856A**

Gloss black frames
Single	**038857**
Double	**038865GB**
Triple	**038868**

Brown frames
Single	**038854**
Double	**038863**

Back box
45.5mm depth. Flame resistant
038850

Back box
Surface mounted. Can be used with all frames, single, double and triple
038880

Grove PRODUCTS

CBE sockets and switches

WOW CBE switches and sockets are supplied in three parts. Please order the support frame and "nl" frame as well as the switch or socket required.

Support frames grey
Single 86x78mm	**038500**
Double 139x78mm	**038503**
Triple 192x78mm	**038506**

Module "nl" frames
Single dark grey	**038518**
Single light grey	**038509**
Double dark grey	**038521**
Double light grey	**038512**
Triple dark grey	**038524**
Triple light grey	**038515**

12V Switch
2 way
038527

12V Switch & LED
038530

12V Double switch
2 way
38533

12/24V Switch & step switch
3 position 2 way
038563

Pump & light switch
038560

230V uk socket
Comes with back box
038536

12V lighter type socket
038545

12V watertight lighter type socket
038548

12V Single pole socket
038551

USB charging socket
038539

TV & satellite socket
038542

12V lighter type, TV & satellite socket
038554

12V single pole, TV & satellite socket
038557

12V battery tester
4 level indication. Does not include surround.
038569

Fuse holder 4 fuse
038590

Waste & fresh water level indicator
4 level fresh and full indication waste. Includes 2 x 4m cables, frame, spacer and probes. **038566**

Fresh water level indicator
4 level indication. Includes 4m cable, frame, spacer and probe. **038578**

Waste water level indicator
4 level indication. Includes 4m cable, frame, spacer and probe. **038581**

Back box
50mm 34mm depth
038593
45mm 22mm depth
038596

Digital clock
LCD 65x32x11mm
038584

Fuse holder 50A
038587

Grove PRODUCTS

Sargent Electrical

EC155 Power Supply Unit

The EC155 is specifically designed for converters. If you have a one off build or are a small to medium manufacturer then this would be the perfect choice for your requirements. It is a compact 155W power supply unit and charger.
Includes:
- RCD & 3 x MCB mains output protection
- 155w Electronic Charger / Converter
- Battery input fuses
- Multiple output fuses
- Built in charging & EMC relays
- Multiple relay switching channels
016910

EC155 kit with EC50 control panel

The kit contains comes with the EC50 control panel that is connected via a 2m control lead. The DIY harness simply plugs into the EC155 unit and provides the available 230V and 12V inputs and outputs for you to terminate to.
Kit Contents:
- EC155 Power Supply Unit
- EC50 Control Panel
- 5 metre length Control Lead
- DIY 230V & 12V Harness
016912

EC155 kit with EC51 control panel

As above with the addition of the fresh and waste water sensor harnesses, both connect directly onto the back of the EC51 control panel to show the levels of the fresh water tank, and indicates when the waste tank is full. Can be used to indicate one or both tanks.
Kit contents:
- EC155 Power Supply Unit
- EC51 Control Panel
- 5 Metre length Control lead
- EC155 DIY 230V & 12V Harnesses
- Waste Water Harness
- Fresh Water Harness
- Waste Tank Sensor
- Fresh Tank Sensor Kit
016914

EC160 Power Supply Unit

The EC160 PSU features a 230v AC 16A input via a pre-wired lead.
Includes:
- RCD & 3 x 10a MCB mains output protection
- 150w Electronic Charger / Converter
- 5 x 10a 12v fused outputs
- Built in split charging relay
- EMC isolation relay
- Digital voltmeter with on/off switch
- Reverse polarity indicator

Black horizontal EC160   **016896**
Black vertical EC160V   **016897**
Silver horizontal EC160S   **016898**
Silver vertical EC160SVS   **016899**

EC328 Power Supply Unit

The EC328 PSU that has now replaced the earlier EC325 model.
New intelligent 300W (~25A) battery charger and power supply which incorporates a 3 stage inteligent charge routine. Built in solar panel regulator for the direct connection of up to a 100 watt solar panel providing the simultaneous charging of both the leisure and vehicle batteries. The charge current is displayed on the matching EC328 control panel. Attractive 'round edge' case in silver with distinctive graphics and logical component layout.
016920

EC328 kit

The EC328 Complete Electrical Kit is specifically designed for customers that are building their own motorhome or caravan conversion, and have the need for a powerful 25 amp charging system with added features. The kit contains:
- EC328 power supply unit
- Digital display EC328 control panel
- 5 metre length data control lead
- DIY 230V and 12V harness
- Fresh and waste water cables including sensors
- External temperature cable with probe
016922

Sargent Electrical

PSU2005

The PSU2005 has been a popular unit for over 5 years.
The unit provides protection for the 230V (mains) and 12V equipment, supplies 12V power and charges the internal leisure battery
016902

PX300 3 stage charger

A 300W 3 stage intelligent battery charger and power supply.
This air cooled unit is ideal as a replacement for many makes and models of charger, and is also suitable for new installations.
It comes with a short adaptor cable which matches the 12V connector on many Nordelettronica charger units. This cable can also be used with 6.3mm female spade terminals. A short 230V mains cable is also supplied, for connection to a 5A fused 230V supply.
016900

Digital control panel

Works with the EC328, EC325, EC225 and EC200 PSUs. Menu displays water levels, battery voltage and current*, auto battery protect circuit, clock / alarm with event timer*. Connects to the PSU via a 20-way data cable, available separately. * depends on PSU
016934

EC50 control panel

LED logic control panel for use with the EC155 PSU, via a low current data link.
● 5 LED bar graph for battery voltage
● Battery protect automatic cut-off (both batteries)
● Pump control with pump active indication
● Lighting circuit power control via dedicated switch (lights are connected direct to the PSU)
● Easy selection between leisure and vehicle batteries
016930

EC51 control panel

LED logic control panel for use with the EC155 PSU, via a low current data link.
● 5 LED bar graph for battery voltage and fresh water levels
● Waste tank full indicator
● Battery protect automatic cut-off (both batteries)
● Pump control with pump active indication
● Easy selection between leisure and vehicle batteries
016932

Other mains electrical products

W4 MCB

Mini Circuit Breaker 16A
010597

W4 mains electrical pack

Contains all the necessary components for a safe and efficient mains installation in a caravan. Supplied with comprehensive fitting instructions
Contents:
● Consumer Unit - A compact housing with hinged clear lid (IP44) enclosing doublepole RCD together with a 6 and 10 amp MCB
● 2 x 13 amp sockets with flush fitting backing boxes
● Surface mounting angled mains inlet
● All necessary cables and connectors.
016277

WOW All Stellings products have a 2 year guarantee.

STE48

Mains consumer unit includes the same charger specifications as STE47 3 stage charger
Main unit specification
● 0-16A 230V AC input (site limited)
● 3 x 10A MCB - 40A RCD protected
● Water & space heater outputs
● BS EN 60335-2-29 approved
Singly or 5 per outer
017125

STE48 to
Nord NE143RM
017128

STE48 to
Nord NE143DU
017127

Grove
PRODUCTS

Bonus Electrical (CEC / Plug-in-systems)

Mains unit 225SPN
Fully insulated enclosure (IP65) containing a 40A RCD and two single pole, neutral switched MCB's (10A and 6A). Used in conjunction with a charging system and distribution panel the 225SPN can supply and protect all aspects of power supply to a caravan or motor home. Dimensions: 150x110x90mm (HxWxD)
017050

3 stage charger 18A
A light weight and efficient leisure battery charger. Thermal, short circuit and overload protection. Fan protection. 3-stage charging - bulk mode, absorption mode and float mode - charges your battery to 100% capacity. Operates from 184v to 264v AC. Temperature operation -25ºC to +50ºC. Dimensions: 176x162x74mm (LxWxD)
017053

Open charger 18A
This open charger can be used on all CEC units. May need slight adjustment on the fixing points on older models. If you are using this on an ESM2000 make sure the small switch on the side is pointing at "FLOAT" not "3 stage". Dimensions: 167x113x59mm (LxWxD)
017052

CEC PMS 3
Power management system combining mains/12V distribution and protection with an 18A battery charger. Terminal block connections for easy installation. 40A RCD, 3 resettable MCBs (10A, 6A & 6A), polarity indicator, pump switch, battery selector switch and battery condition indicator
Vertical **017040**
Horizontal **017041**

CP1 volt meter
017060

CP2 distribution panel
Switch the power from car/cab batteries and van/auxiliary batteries or isolate both.
017062

CEC PMS 4
A combined mains 230v AC and 12V DC distribution unit. Earth leakage protection via 40A RCD device. Over current protection via 3 x MCB devices (10A, 6A & 6A). Reverse polarity 240v neon indicator. 12A or 18A charger with overcurrent, short circuit and thermal protection. Six fused outputs via automotive blade fuses. Connecting kit with all necessary plugs and sockets provided. Dimensions: 225x335x115mm
017051

Custom volt meter
017055

CP3 distribution panel
Switch the power from van/auxiliary batteries. Includes pump isolation switch. Pump running indicator displays water pump activity
017063

ESM 2000/2
Designed to operate on a mains supply of 185-265 volts AC. The 40A RCD gives protection against earth faults and also acts as the main switch. Includes 3 resettable MCBs, to protect against overcurrent. Allocation of the MCBs is as follows: MCB1 (10A) - Sockets / heater MCB2 (6A) - Water heater / Lights MCB3 (6A) - Fridge / Charger Includes a transformer/charger. Provides 12V circuits with power and charges the 12V battery when connected to the mains supply. 18A maximum output.
Dimensions: 225x123x255mm (HxWxD)
017045

KT9SCU distribution panel
Switch the power from car/cab batteries and van/auxiliary batteries or isolate both. Includes pump isolation switch. Pump running indicator displays water pump activity
017057

Grove PRODUCTS

Zig Electronics

CF8 charger

Fully automatic electronic charging plus 230/12V conversion. 12A max charge depending on battery state. Up to 4.5A continuous current on transformer. Features include 3 x 10A switched and fused outlets for the vehicle accessories, battery condition monitor, automatic self re-setting, current overload and thermal trip. Dimensions: 162x206x110 (HxWxD)

Black **017024**
Brown **017026**

CF9 charger

Fully automatic electronic charging plus 230/12V conversion. 12A max charge depending on battery state. Up to 4.5A continuous current on transformer. switched selection of source, car or auxiliary battery. Double pole illuminated mains switch. Safety - the C9 incorporates no less than 8 protection devices to eliminate overheating and over current problems. Dimensions: 105x300x140mm (HxWxD)

Brown **017028**

X70 ce charger 12.5A
A lightweight compact battery charger and power supply with a stabilised output for maximum efficiency and control.
L195 x W115 x H70mm
017020

X80 ce charger 16.5A
A lightweight 230V AC low noise forced cool battery charger and power supply with increased power for additional accessories.
L195 x W115 x H90mm
017022

CBE Power Supply and Distribution

CBE Waste & fresh water level indicator
4 level fresh and only full indication of waste. Includes 2 x 4m cables, frame, spacer and probes.
038566

CBE Waste water level indicator
4 level indication. Includes 4m cable, frame, spacer and 300mm probe.
038581

CBE Fresh water level indicator
4 level indication. Includes 4m cable, frame, spacer and 300mm probe.
038578

CBE 12V battery tester
4 level LED indication. Does not include frame.
038569

CBE Power Supply and Distribution

PC100 control panel
Microprocessor controlled digital system with LED control panel. Includes: Vehicle and auxilliary battery indicator (B1 and B2 condition), fresh water tank level indicator and waste water tank alarm. Controls for battery, fridge and lights. Fuse protection fuses and save battery function.
PC100 192 x 78mm
038599

PC150 control panel
Microprocessor controlled digital system with LED control panel. With the same specifications as the PC100 PC150 245 x 165mm
038597

PC200 control panel
LCD control panel only. Microprocessor controlled digital system. Includes: Clock, battery (car and aux) level indication, fresh water level indication (%), internal and external temperature display, and controls for lights, water pump, fridge, vehicle battery charging and exterior lights. Fuse protection and save battery function. Dimensions: 192 x 78mm
017003

DS120 mains distribution unit
The DS120 is a RCD main switch with a double pole 13A MCB to control and protect various mains circuits. 138x180x85mm
017004

DS300 12V distribution unit
For use with PC200 **017006**
For use with PC100/150 **038598**

Chargers
Designed specifically for the caravan, motorhome and marine markets. Thermal protection from overheating and short circuit and reverse polarity protection on 12V. For lead acid and gel batteries. TUV approved. Automatic operation, once voltage is reached it will continue to charge for 90mins (lead acid) or 8hrs (gel). Continuous maintenance 13.5V (lead acid) and 13.8V (gel). After 10 hours of maintenance the charger will switch to standby and charge again only when the battery drops below 13V. Dimensions: 180x140x85mm (LxWxD)
10A CB510 **017000**

6m Cable for control panel
017013

Fresh water Tank Probes
400mm **017007**
300mm **017009**

Waste water Tank Probes
017010

Cables with temperature sensors
Internal and external temperature sensors
017015

Fuse 50A & holder
038587

White junction box
016190

6m Cables for probes
017012

Please order the following products to build a CBE electrical kit

Control panel	**038599** PC100	**038597** PC120	**017003** PC200
230V distribution	**017004** DS120		
12V distribution	**038598** DS300		
Charger	**017000** 10A	**017001** 16A	
Fresh water probes	**017007** 400mm	**017009** 300mm	
Waste water probes	**017010**		
Cables for probes	**017012** 1 separately required for fresh and 1 for waste		
Cable for control panel	**017013** 6m		
Temperature sensor	**017015** Cables with temperature sensors		
Fuse with holder	**038587** 50A		

Grove PRODUCTS

Charging

CTEK chargers charge all types of batteries to the maximum capacity. Lightweight and portable. Enables the leisure battery to provide as much as 25% more power than the 'on board' system. Can significantly prolong a battery's life. Can help prevent a 'dead' battery. Can be permanently connected to ensure perfect battery condition.

Charging steps

MXS 7.0 transformer/charger
Max charging current 7.0A
Supply Voltage 13.6V
Battery size 14ah to 150ah (or 225ah for maintenance only)
8 charging steps
010027

MXS 5.0 charger
Max charging current 5.0A
Battery size 1.2ah to 110ah (or 160ah for maintenance only)
8 charging steps
010026
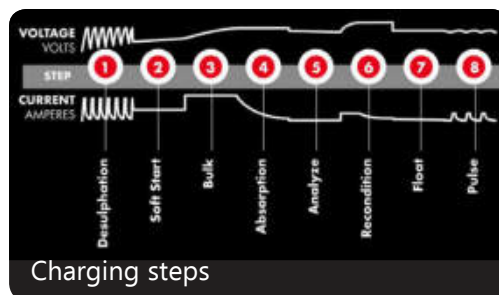
MXS 3.8 charger
Max charging current 3.8A
Battery size 1.2ah to 85ah (or 120ah for maintenance only)
7 charging steps (no "Recondition" function)
010025

Ring Automotive SmartChargers
Multi stage fully automatic chargers, ideal for charging 12V batteries. Supplied with 230v 13A plug with interactive LCD display. Auto charge applies the fastest charge, based on battery size, settings for vehicles with start/stop function and battery repair tools to increase performance and battery life.
Includes the following battery and alternator analysis tools:
- *Battery Voltage* - % display for voltage status of the battery
- *Start power test* - Measures voltage drop during engine start to identify potential problems
- *Alternator test check* - Tests the recharging performance of the alternator
- *Battery cranking perfomance* - (12A only) Measures the cold cranking performance to determine the engine starting ability

SmartCharge 8A
Up to 8A
010047A

SmartCharge 12A
Up to 12A
010049A

For batteries from 25 to 300Ah.
Memory saver function allows vehicle and audio settings to be retained if the battery has been removed

Ring Automatic Workshop Charge 20
12V, 20A fully automatic battery charger. Tough metal and rubber construction for professional use. Fast (20A) and slow (3A) charge rate settings. 80A jump start function. High quality professional battery chargers.
Dim. (HxWxD) 215x265x230mm
010058

Ring Automatic Standard Charge 8
12V, 8A fully automatic battery charger. Fast (8A) and slow (3.7A) charge rate settings. Easy to read LED indicators clearly show charger status. Reverse polarity indicating LED. Ideal for DIY, enthusiasts and standard battery charging.
Dim. (HxWxD) 215x260x100mm
For leisure batteries up to 120Ah
010054

Ring Automatic Standard Charge 12
12V, 12A fully automatic battery charger. LED display screen shows battery voltage and charge rate applied. Fast (12A) and slow (3.7A) charge rate settings. Reverse polarity indicating LED. Ideal for DIY, enthusiasts and standard battery charging.
Dim. (HxWxD) 215x260x100mm
For leisure batteries up to 180Ah
010056

Kronings battery charger
Commercial automotive battery charger/maintainer - Automatic switching power, digital processing.
Shows status as follows:
- No AC power
- Stand by
- Charging
- 75% Charged
- Charged and maintaining
- Deeply discharged or defective battery
For lead acid, Gel, AGM and VRLA leisure batteries up to 180Ah
010292

63

Inverters

PowerSource inverters

PowerSource inverters are suited to leisure and occasional use applications such as charging mobile phones, laptops etc, for periods of up to 4 hours continuously. They connect either by attaching directly to the leisure battery or into the 12V cigar socket. Made from light weight durable ABS. Includes an AC socket and a 2.1A USB charging socket.

E:Can Inverter 150w

12V DC to 230v AC can sized modified sine inverter suitable for cup holders. Suitable for laptop computers, video game consoles, MP3 players etc. USB charging point to allow the recharging of electronic devices. Peak Power Rating: 240W. Operates from 10-15 volts. Low battery shutdown protection, over voltage protection, overload protection and temperature protection
017213

150W
017215

300W
017230

500W
017234

300W compact inverter
300W continuous power rating with 0.5amp USB charging socket.
195 x 95 x 58mm
017230A

PowerSourcePro Inverters

High quality modified sine inverters, ideal for the professional user requiring mains power for heavy duty applications. These are well suited to more demanding applications and can provide power for up to 12 hours continuously. Now with a smaller footprint (40% smaller area than previous versions). Heavy duty extruded casings.

1kW
1kW continuous power rating.
2kW peak power rating.
2.1amp USB charging socket.
340 x 170 x 81.5mm.
2.7kg
017238

2kW
2kW continuous power rating.
4kW peak power rating.
340 x 170 x 162mm.
4.6kg
017241

3kW
With integrated multi-function LCD display.
3kW continuous power rating.
6kW peak power rating.
400 x 170 x 162mm.
5.7kg
017243

PowerSourcePure Inverters

Providing an extremely pure sine output which replicates the normal domestic mains supply, and as such are ideal for powering more sensitive electronic euipment. Certain products are not compatible with modified sine wave inverters such as some power tool re-chargers, coffee machines, laser printers, and sensitive audio/video equipment. The hard wired outputs on these models allow a more integrated solution for service vehicle and similar installations. With integrated multifunction LCD display for up to 12 hours continuous use. Heavy duty extruded casings.

1kW
1kW continuous power rating.
2kW peak power rating.
2.1amp USB charging socket.
320 x 247 x 118.5mm.
4.3kg
017239

2kW
2kW continuous power rating.
4kW peak power rating.
2.1amp USB charging socket.
420 x 247 x 118.5mm.
5.9kg
017242

Grove PRODUCTS

EFOY COMFORT

The best energy supply for your travel enjoyment - irrespective of the weather and all year round.

EFOY ENERGY FOR YOU

Can be used all year round
In summer or very cold winter, whether you are under a shady tree, or on a cloudy day - even at sub-zero temperatures!

Extremely quiet
When EFOY COMFORT is installed as recommended, you will not hear it at all.

Fully automatic and maintenance-free
All you have to do is to make sure that fuel is always supplied. You do not even need to clean or maintain the EFOY COMFORT!

Eco-friendly
The EFOY COMFORT is economical in use and does not produce emissions that harm the environment.

How does it work?

The EFOY COMFORT charges the on-board battery fully automatically. The integrated charge controller permanently monitors the charge level of the 12V battery. The EFOY COMFORT starts automatically and switches off again once the battery is charged.

Fuel catridge + EFOY COMFORT   Battery   Consumer
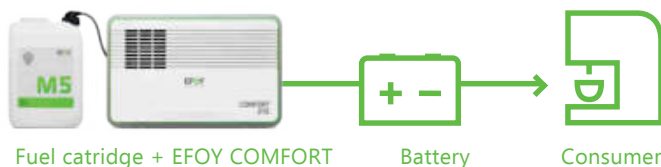
EFOY Fuel Cartridges - No mains supply for weeks at a time

EFOY fuel cartridges are a safety-tested fuel system that was specially developed for EFOY fuel cells. EFOY fuel cartridges can be changed in seconds. With an M10 fuel cartridge, you could be on the road for up to 4 weeks without a mains supply.

MADE BY **SFC** ENERGY

Cartridge*	M5	M10
Volume	5 Litre	10 Litre
Weight	4.3 kg	8.4 kg
Dimensions (L x l x H)	19.0 x 14.5 x 28.3 cm	23.0 x 19.3 x 31.8 cm
Part number	**010347**	**010348**

EFOY COMFORT Models

EFOY COMFORT	80	140	210
Maximum Power	40 W	72 W	105 W
Charge capacity /day	80 Ah	140 Ah	210 Ah
Nominal voltage		12 V	
Charge current @12 V	3.3 A	6.0 A	8.8 A
Nominal consumption / kWh		0.9 l	
Dimensions (L x l x H)		44.3 x 20.2 x 28.8 cm	
Weight	7.1 kg	7.8 kg	8.5 kg
Part number	**010336**	**010340**	**010342**

Supplied with full installation kit.

5 Years Warranty
For all three EFOY COMFORT models you have the opportunity to purchase a 5 year extended warranty. You get a two year warranty free with all models.
https://garantie.efoy.com/en/home.html

5 YEARS EFOY WARRANTY

Energy Calculator
With the convenient new online energy calculator you can quickly and easily find the right EFOY COMFORT model to meet your needs.

www.efoy-comfort.com/energy-calculator

Accessories	Part number
Service Fluid	**010334**
Extension cable for "Sense" line, 8 m	**010328**
Extension cable for Power line, 8 m	**010329**
Control Panel for EFOY 600-2200	**010332**
Insulated exhaust hose	**010326**
Off heat tube	**010327**

Other EFOY spares / accessories are available to order please speak with your sales contact for more details.

E24
10R-040718

Made in Germany EFOY QUALITY CONTROL

CE

Environmentally Friendly

TÜV SÜD

Grove PRODUCTS

Leisure Batteries
PLATINUM

Product registered and
VERIFIED ✓
www.thencc.org.uk

Intended Purpose:
For use with electrical hook-up with minimal off-grid usage e.g. Lights

LEISURE BATTERY
CLASS C

S68... **- 110ah**
Volta... *12*
Life c... at DOD 50% - 70
L267 x ...71 x H237mm
NCC C...- C
010310...

... - 100ah
Life... DOD 50% - 70
...351... x ...8mm

Product registered and
VERIFIED ✓
www.thencc.org.uk

Intended Purpose:
Frequently used without electrical hook-up

LEISURE BATTERY
CLASS A

Thin Plate Technology

PC1350 - 9...
Voltage - 12
Life cycles at D... 1850
L353 x W175 x H190mm
NCC ...
010318...

	Suitable For Motor Movers
3x More Power	**3x More Power**
	Recharge in 1 hour
	Extreme Electrical Usage
	Longer Life, Better Value
1850	**9x More Cycles @ 50% DOD**

Designed for MOTOR MOVERS

Product registered and
VERIFIED ✓
www.thencc.org.uk

Intended Purpose:
Frequently used without electrical hook-up

LEISURE BATTERY
CLASS A

	Designed For Motor Movers
AGM Technology	**AGM Technology**
	2x Faster Recharge
	Extreme Electrical Usage
	Longer Life, Better Value
360	**5x More Cycles @ 50% DOD**

AG...
Vo...
Life...
L354...
NCC...
0103...

Product registered and
VERIFIED ✓
www.thencc.org.uk

Ge...

V...

- Ens... ...y back to somewhere that will re...re your battery via a legally compliant scrap recycling scheme.
- We have a duty to protect the environment that we work and live in. After all, a healthy planet and a healthy community go hand in hand.

This scheme provides product verification for batteries used in leisure vehicles. With modern leisure vehicles featuring more technology and electrical appliances than ever before, buying an NCC verified leisure battery will give you confidence that the battery purchased is fit for purpose and will perform as advertised.

Grove PRODUCTS

Light weight battery packs **kronings**

Optima high-performance AGM batteries aren't like any other batteries in the world. Their exclusive spiral cell technology design is among the most advanced commercially available lead-acid technologies out there. It delivers an incredibly strong and clean power source that can't be touched by today's lead-acid batteries. With longer lasting battery life under both starting and deep-cycle applications. Vibration resistant, spill proof and built to last. Low internal resistance also provides more constant power output and faster recharges.

2.7 power pack
For vehicles
up to 1650 kg
010282

4.2 power pack
For vehicles
up to 2000 kg
010284

5.5 power pack
For vehicles
over 2000 kg
010286

Specifications	Optima		
YTS = Yellow Top Standard terminals	**41Ah 2.7 YTS**	**55Ah 4.2 YTS**	**75Ah 5.5 YTS**
Rated voltage	12.0V	12.0V	12.0V
Fully Charged voltage	13.1V	13.1V	13.1V
Cut-off voltage	10.5V	10.5V	10.5V
Battery Charger recommended	13.8 to 15V, 10A max	13.8 to 15V, 10A max	13.8 to 15V, 10A max
Charging time at 50A Charging time at 10A	65 mins (90%) 6-12 hours (100%)	75 mins (90%) 6-12 hours (100%)	112 mins (90%) 6-12 hours (100%)
Length	237mm	254mm	325mm
Width	129mm	172mm	165mm
Height (at terminals)	227mm	200mm	238mm
Weight	11.6kg	19.9kg	26.5kg
	010282	**010284**	**010286**

Battery accessories

Battery boxes
Acid resistant plastic boxes. Comes with battery strap, 2 retainers and a buckle.

Red
Internal Dim (mm):
270x195x190
010320

Yellow
Internal Dim (mm):
410x200x200
010321

Lift-Off battery clamps
Suitable for all standard round battery terminals.
Colour coded.
Pair (packed). Singly or 10 per outer
010009
Bulk pack. 150 pairs per outer
200100

W4 battery strap retainers
2 per pack.
10 packs per outer
010324

Via Mondo battery isolator switch and key
12V 100A. Max rating 300A for 5 seconds. Includes key.
010301

Via Mondo ESSENTIALS

Via Mondo isolator switch key
Loose   **010303**

Simple
and
Effective!

Wire5
A pair of zinc plated multi-wire battery connectors. For round battery terminal posts. Connect up to 5 cables. Simply tighten the screws onto wires.
010011

Grove PRODUCTS

Dry cell batteries

Fuji EnviroMAX batteries

Eco-responsible replacement batteries – with unsurpassed power and longevity! You get the best of both worlds with Fuji EnviroMAX – at no added cost. Independent tests show Fuji EnviroMAX batteries equal, and most often exceed the performance and longevity of equivalent major brands.

- Contains no harmful Mercury or Cadmium
- Will not harm the environment if disposed of through normal waste systems
- Fully recyclable packaging
- Made in some of the world's most eco-respectful battery plants, operating under some of the most strict standards of environmental responsibility

No other batteries are so respectful of our environment as Fuji EnviroMAX.

AA MN1500 (4)
Alkaline
12 per outer
019159

AA MN1500 (2)
Alkaline
12 per outer
019158

AAA MN2400 (4)
Alkaline
12 per outer
019161

C MN1400 (2)
Alkaline
12 per outer
019155

D MN1300 (2)
Alkaline
12 per outer
019154

9V MN1604
Alkaline
12 per outer
019163

AA MN1500 (4)
Zinc
Extra Heavy Duty
12 per outer
019169

9V MN1604
Zinc
Extra Heavy duty
12 per outer
019172

Duracell alkaline batteries

AA MN1500 (4)
20 per outer
019126

AA MN1500 (2)
20 per outer
019135

AAA MN2400 (4)
10 per outer
019140

C MN1400 (2)
10 per outer
019117

D MN1300 (2)
10 per outer
019108

9V MN1604
10 per outer
019144

Zinc Chloride batteries

Good value, high quality dry cell batteries.
Please note that images are for illustration purposes only - the manufacturer may change periodically.

AA MN1500 (4)
24 per outer
019204

C MN1400 (2)
24 per outer
019202

D MN1300 (2)
12 per outer
019200

9V MN1604
24 per outer
019206

MN9100 (2)
Clock battery
10 per outer
019145

E23A
Hob / Ingnitor
10 per outer
019147

Grove
PRODUCTS

Lighting FIAMMA

LED awning light
LxDxH: 574 x 36 x 32mm
31 LED 12V
018500

LED sensor light
LxDxH: 574 x 36 x 32mm
31 LED 12V with light and movement sensors
018508

LED awning case
12V LED lights for F45 (not T5 models) and Fiamma ZIP awnings. Delivered with 5 x 50cm lengths (one with 12V wiring attached)
018509
Case Kit 50
Additional 50cm lengths
018510

Rafter LED
Suitable for use with F45s, F45L and Fiamma ZIP awnings. Can be used on F65s and F65L with optional 108263L shown below.
12V, 36 LED lights
018505

Adaptor kit for Rafter LED
To use Rafter LED on F65s and F65L
108263L

Awning arms LED
4 x 30cm LED light kits for any F45, F65 or ZIP awning
018503

Kit awning LED
12V switched LED light with 2 x 10 LED lengths. 5m of cable
018501

Kit cables guide
2 x lengths of flexible profile 1225mm long, 6.5mm ø
018515

Kit cables rail
2 x Self adhesive lengths of 1225x13x3mm.
018514

LED garage light
LxDxH: 574 x 36 x 32mm
31 LED 12V with switch
018511

LED awning gutter light
LxDxH: 690x 80 x 35mm
31 LED 12V. Ideal to stop the drips of rain above the door
018502

min 23 cm - max 50 cm
4,7 cm
1,6 cm

LED step light 12V
12V 6 LED. It can be shortened from 50-23cm
106204

Rafter LED Caravanstore
12V switched, 36 LED lights for F35 and Caravanstore awnings.
018506

Kit awning LED strip
Suitable for use with F65L and F80 awnings. Consisting of a 5m high brightness LED sticky strip, can be easily cut to length. Supplied with 10 x 50cm lenses to fit inside the profile of the lead bar.
12V, 300 LED lights
018504

LED warning solar lights (2)
LxDxH: 80 x 25 x 55mm
Kit of 2 rechargeable lights
018520

Grove PRODUCTS

69

Interior lighting

Lumolighting

lighting on the move
www.lumo.eu.com

12V dc lighting specifically designed for use in caravans and motorhomes

Lumo 1
12V 8W switched fluorescent.
375 x 55 x 22mm
Singly or 10 per outer
Clear/white   **018046**

Lumo 3
12V 2 x 8W switched fluorescent.
375 x 85 x 27mm
Clear/white   **018057**

LED24 StripLite
12V 2W LED Switched.
385 x 50 x 40mm
Singly or 10 per outer
Satin   **018000**
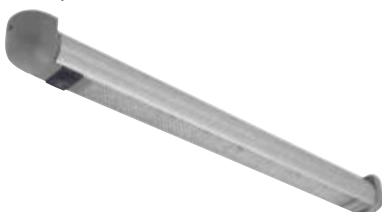
LED24 RotaLite
12V 2W LED rotating head,
switched.
390 x 35 x 32mm
Grey   **018001**

LED20 RotaLite Mini
12V 2.4W LED rotating head,
switched. 345 x 25 x 20mm
Satin **017999**

LED Rigid StripLite
Can be cut to size every 3 LEDs.
12V 18 LED   300mm **017978**
12V 30 LED   500mm **017979**

Ellipse
Stylish elliptical 12V switched
ceiling light. 2 x 8W fluorescent
418 x 100 x 32mm
Silver sand   **018276**

Coronet
Discreet 12V switched wall or
ceiling light. 220 x 140 x 47mm.
9W PL
Chrome **018274**

LED Coronet
Discreet 12V switched wall or
ceiling light. 220 x 140 x 47mm.
3.5W LED.
Chrome **018019**
Silver sand **018273A**

LED Crown
12V switched wall or ceiling light
3.5W LED. 217mm diameter. 47mm
depth
Satin   **018017**

LED21 CeilingLite
12V 1.75W LED unswitched with
'dimming facility', water-resistant.
150mm diameter. 25mm depth
Satin   **018003**

LED Corner Light
12V switched wall light. LED
Silver sand **018003C**

LED01 ecospot
12V 1W LED, switched
Brushed Nickel   **017984**

LED Spotlight
12V 40mm arm. 1W LED, switched
Chrome **017983A**

LED Spotlight
12V 1W LED, switched
Chrome **017985**

Grove PRODUCTS

Lumo lighting
lighting on the move
www.lumo.eu.com

LED01 FlexSpot
12V 1W LED, switched
Brushed Nickel **018022**

LED9 CeilingLite
12V 0.75W LED, switched. Surface mount or recess
Satin **018009**

LED021L DownLite
12V 2W 21LEDs. Warm White
65mm ø, 50mm hole ø, 25mm depth
Brushed Nickel **018004**

LED Downlight
12V LED, soft touch, switched.
Satin **018003B**

LED 6 Square Step Light
12V 0.36W 6 LEDs, square step light
Chrome **018022A**

LED 6 Round Step Light
12V 0.36W 6 LEDs, round step light
Chrome **018022B**

Common replacement interior bulbs

LED tubes
Includes instructions on how to replace 8W fluorescent tubes with an LED tube. Under no circumstances should the tube be simply swapped. It must be wired directly to the 12V DC supply.
T5 LED30 tube **018044**

G4 LED1 Capsule
Singly or 10 per outer
018014

G4 LED12 MR11
Singly or 10 per outer
018013

PL-S tubes
Replacement 4-pin tubes in cool white
11W **019537**

Fluorescent tubes
10 per outer
Replacement 8W tube   **018249**
Replacement 13W tube   **018257**

2D bulb
4 pin 12V 16W
W4 **010587**
Singly or 10 per outer

Ring Lights
RING

Link light
30cm solid 27 LED tent/awning light. Velcro or clip attachment for universal fitting. More add on units can be added for bespoke lighting solutions. Light output: 155 lumens per length.

Ring awning lamp
12V surface mounted exterior light
H55 x W246 x D86 mm
Silver   **018391S**
White   **018391W**

Starter kit
Comes with 12V and 230V adaptors and 2m cables.
019646

Add on unit
(requires starter kit) has 2m additional cable
019647

Flexi tent light
90cm flexi 90 LED tent/awning light. Comes with 12V and 230V adaptors and 2m cables. Velcro or clip attachment for universal fitting. Light output: 294 lumens. Singly or 6 per outer
019653

Grove PRODUCTS

Labcraft lighting

KL LED   **DX LED**

Labcraft Trilite LED
12V switched LED. 320 Lumen, 3W. Single LED striplight that is brighter than a twin tube fluorescent version and takes only half the power. 10 Year warranty. Made in the UK.
381 x 78 x 24mm
KL LED **018221**
DX LED **018029**

Labcraft Appollo LED
12V switched LED. 1108 Lumen, 12W. The internal LED strip can be positioned in 3 different angles by the user to direct the light exactly where it is needed. 10 Year warranty. Made in the UK.
610 x 37 x 16mm
018213

Labcraft Astro LED awning light
12V LEDs encapsulated in a weatherproof (IP66) casing. 554 Lumen, 6W. Incorporates the Orizion LED strip light. 10 year warranty. Made in the UK.
594 x 43 x 31mm
White   **018043**
Grey   **018043A**

Labcraft Orizon LED
12V LEDs encapsulated in a weatherproof (IP66) casing. 554 Lumen, 6W. Budget light with 24 high intensity LEDs. 10 year warranty. Made in the UK.
522 x 17 x 10mm
018028

Labcraft Nebula LED
12V switched LEDs encapsulated in a weatherproof (IP66) casing. 554 Lumen, 6W. Incorporates the Orizion LED strip light. 10 year warranty. Made in the UK.
624 x 44 x 14mm
018025

Labcraft Callisto LED downlighter
12V LED downlighter. 160 Lumen, 1.25W. 10 year warranty. Made in the UK.
018039

Britax 891 awning lamp
12V switched light. Can be used as interior or awning lamp. Complete with 10W festoon bulb. Dimensions: 133 x 133mm
891 awning light   **018404**
Spare lens   **018415**
Spare switch   **018388**

Grove PRODUCTS

Lights and torches

Vechline rechargeable fan lantern
Charged by a USB cable supplied. Fan, 360° light and torch with an integrated hanging hook. Can be used to recharge other products via the USB. 190 x 88mm Ø. 405g
019767

Vechline rechargeable bug killer lantern
Charged by a USB cable supplied. With 3 light levels and an integrated hanging hook. 129 x 88mm Ø. 269g
019768

Vechline bug killer lantern
230V. Attracts and kills flying insect pests. Chemical free and effective for up to 20m². Supplied with 1.5m cable. 235 x 155 x 105mm. 774g
019769

Rolson 24 LED bright light
Super bright 24 LED, now with dimmer switch, complete with hanging ring Ideal for camping or as a patio table light Supplied with 4 x D batteries.
2 per display box
019733

Milestone ultra bright 12 LED mini lantern
Super bright 12 LED. Soft touch rubber casing. Dimmer controls to adjust light levels. Indoor and outdoor use. Light weight with folding carry handle. 3 x AA batteries not included.
6 per outer
019733A

Milestone ultra bright waterproof LED lantern
Waterproof to IP54. Pull open to activate. Super bright LEDs, metal carrying handle. Light weight compact design. Operates for 8 hours. 3 x AA batteries not included.
2 per display box
019733B

Folding USB desk lamp
USB / battery operated desk lamp. Supplied with USB lead and 4 x AAA batteries. 100% / 50% / off.
127 x 71.5 x 40mm closed
127 x 71.5 x 320mm open
6 per display box
019499

W4 LED handy lamp
Powered by USB lead (supplied) or 3 x AA batteries (not supplied). Singly or 10 per outer
019498

LED pull light
Hang anywhere, pull on/off. 970mm chord length. Cool white 50 lumens. Battery powered (supplied).
019496

LED sticky light set
Bright white LED that can last up to 100 hours on a single set of batteries. Simply stick to any surface. Push to activate the 3 LEDs. Each light requires 3 x AAA batteries (not supplied)
8 per display box
019740

3 SMD Camping light
70mm ø x 42mm height. Supplied with swivel hook and 5 x modes (100% / 50% / 30% / quick flashing and flashing). 3 x AAA batteries supplied
5 per display box
019737

Grove PRODUCTS

Lights and torches

LED switch light
Ultra bright 3W (200 lumen) long lasting LEDs. 3 x AAA batteries (not included).
75 x 112 x 25mm.
10 per outer
019497A

LED switch light double
Ultra bright 4 way 2W (200 lumen) long lasting LEDs. 4 x AA batteries (not included).
120 x 112 x 25mm.
10 per outer
019497B

Compact LED switch light
Ultra bright (200 lumen) long lasting 8 LEDs. 3 x AAA batteries (not included).
75 x 95 x 20mm.
019497C

LED switch light with dimmer
Ultra bright 2W (200 lumen) long lasting LEDs with dimmer control. 4 x AA batteries (not included).
110 x 112 x 25mm.
019497D

3 Watt COB light
LED. Manufactured in ABS with rubber housing finish. With hook and magnet. 3 x AAA batteries supplied.
6 per display box
019736

Rolson 72 LED camping light
Super bright 72 LED light with three strong magnets on reverse for mounting on most metal objects, along with swivel hook for hanging. Supplied with 4 x AA batteries.
5 per display box
019730

Multi-purpose 3 LED COB light
With magnetic stand and hanging hook. 3 x AAA batteries (not included).
12 per outer
019736A

LED Wire lights
Decorative wire frame with pretty LED lights
● Brighten up any room with a warm white glow
● High quality LED's for energy efficiency
● Use 3 x AA batteries (not included)
"LOVE"   **019800A**
"HOME"   **019800B**
"DREAM"   **019800C**
"HAPPY"   **019800D**

Rolson 28 LED aluminium torch
Manufactured from aluminium, simple push button operation with 28 LED's - 100 Lumens. Supplied with 3AAA batteries. Complete with wrist strap.
12 per outer
019742

3W COB LED aluminium torch (2)
Manufactured from aluminium, simple push button operation with 28 LED's - 100 Lumens. Supplied with 3AAA batteries. Complete with wrist strap.
12 per outer
019741

Grove PRODUCTS

Vehicle Specific Naviceivers

E>GO Naviceiver: Model for:
Fiat Ducato, Citroën Relay (Jumper),
Peugeot Boxer
Z-E3756   **038885D**

E>GO Naviceiver: Model for:
Mercedes Sprinter II, Vito, Viano, A
and B class
Z-E4626 **038885E**

E>GO Naviceiver: Model for:
Volkswagon, Seat and Skoda
platforms, including VW T5
Z-E2050 **038885F**

Vehicle specific naviceivers by ZENEC. Innovative and advanced motorhome navigation systems specifically developed for the motorhome market and each vehicle's dashboard. They blend in perfectly with the original look of the vehicle, and can be conveniently controlled from the high resolution 7" / 17.8cm touchscreen display.
With ZENEC you are able to experience an amazing range of entertainment options in the vehicle. Thanks to its new multituner system, there is a crystal clear radio reception, including for DAB+. The built in CD/DVD drive and a USB port (with 0.8m extension) on the rear of the device will allow you to play the latest video and audio formats. A 4 X 50 Watt amplifier complete with DSP suite (equalizer, time alignment and vehicle presets) ensures optimum sound quality. The powerful bluetooth module from Parrot, now with database support, gives you easy access to telephone functions and playlists. With European map package with 47 countries, including the camping point of interest package with more than 6 million premium points of interest, the ZENEC will guide you safely to any destination. By choosing vehicle specific profile and entering vehicle-specific data, you can plan any route more effectively.

Vehicle Specific
Fits seamlessly into the dashboard of the most common base vehicles for motorhomes, stalk controls for steering wheel interface available separately on most models

Motorhome/Caravan Navigation Software
Specifically designed software ensures the most appropriate route for your journey, with 47 EU country maps included

Multituner with DAB+
Optimal signal and choice with two FM/AM and two DAB+ tuners. A fifth tuner takes care of traffic management

Preconfigured Vehicle Profiles
Set your vehicle dimensions and weight to plan your route more effectively. Various profiles available (towing, roof boxes, bike racks etc)

CampingSchaf Points of Interest Package
6m+ POI package includes more than 20,000 sites and stop over points. A comprehensive database allows you to see facilities with a connective phone no.

Bluetooth from Parrot
Advanced phonebook contact search and favourites. Two smart devices can be connected at one time

USB Media Management
Gracenote function allows you to set your play list by your mood or genre, MLT (more like this) function perfectly designed for entertainment on the move
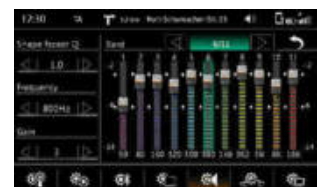
Digital Sound Processing
For perfect sound staging whilst listening to the radio in the driver's seat or in the habitation area of the motorhome
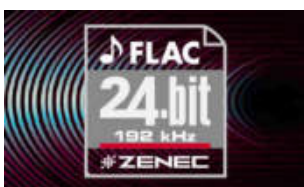
FLAC digital audio
Plays most modern audio and video files without complicated conversion

Screen Rear View Camera Interface (Camera optional)
Adjustable distance markers on screen (rather than on the camera) mean accurate distance obeservations

Camera Hard Key
Access the camera at any time via a touch of the button

ZENEC for Future Proof
With easy software updates your ZENEC is future proof

Fiat Ducato Installation
Also for Peugeot Boxer and Citroen Relay (Jumper)

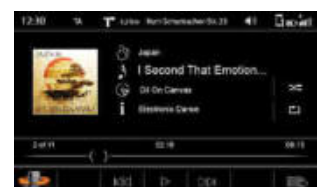| To replace OEM DAB+ radio (U-Connect 3):			To replace OEM FM radio (U-Connect 3):		
Z-E3756	Naviceiver	**038885D**	Z-E3756	Naviceiver	**038885**
or F220	Naviceiver	**038890C**	or F220	Naviceiver	**038890C**
Fiat	OEM facia	**038884**	Fiat	OEM facia	**038884**
014.808-0	Steering wheel Interface		014.808-0	Steering wheel Interface	
		038894E			**038894E**
FD2319	Fakra to DIN	**038896**	FD2319	Fakra to DIN	**038896**
FS2352	Fakra to SMB	**038896B**	AS2611	DAB+ Splitter	**038895A**

To replace U-Connect 5 that has DAB+ radio:			To replace U-Connect 5 that does not have DAB+ radio:		
Z-E3756	Naviceiver	**038885**	Z-E3756	Naviceiver	**038885**
or F220	Naviceiver	**038890C**	or F220	Naviceiver	**038890C**
Fiat	OEM facia	**038884**	Fiat	OEM facia	**038884**
011.801-2	Steering wheel Interface		011.801-2	Steering wheel Interface	
		038894D			**038894D**
FD2319	Fakra to DIN	**038896**	FD2319	Fakra to DIN	**038896**
FS2352	Fakra to SMB	**038896B**	AS2611	DAB+ Splitter	**038895A**

For new vehicles without OEM radio DAB+ solution :			For new vehicles without OEM radio FM solution :		
Z-E3756	Naviceiver	**038885**	Any universal naviceiver		
or F220	Naviceiver	**038890C**	206.000-0	DIN to DIN	**038896A**
AS2611	DAB+ Splitter	**038895A**	002.285-3	Bracket	**038893A**
014.805-0	Steering wheel Interface				
		038894A			

Where a Z-E3756 or F220 Naviceiver is suggested, a more cost effective solution can be found by replacing this with any 2-DIN universal product
X-402 **038890E**
Also add:
002.306P0-3 Bracket **038893B**
Do not use Fiat OEM facia **038884** where suggested.

VW Installation

For VW installations simply add a DAB+ aerial where vehicles have no DAB+ aerial installed otherwise this aerial is not required:
Z-E2026 Naviceiver **038885B**
DA2770 Active DAB+ Window Antenna **038895G**

Mercedes Installation

For new vehicles with DAB+ Aerial :
Z-E4626 Naviceiver **038885E**
Please call with new vehicles details to see what additional products are necessary, if any.

For vehicles with FM aerial :
Z-E4626 Naviceiver **038885E**
FD2319 Fakra to DIN **038896**
AS2611 DAB+ Splitter **038895A**
or
DA2770 Active DAB+ Window Antenna **038895G**

Multimedia systems

XZENT

XZENT X-F220
Fiat Ducato vehicle specific multimedia system:
FIAT Ducato III · Type 250/251 · model year 2006 – 2011
FIAT Ducato III · Type 250/251 · model year 2011 – 2014
FIAT Ducato III · Type 250/251 (X290) 2014 onwards
Citroën Jumper II · Type 250/250D/250L 2006 onwards
Peugeot Boxer II · Type 250/251 2006 onwards
● FM and DAB+ radio
● 6.2"/ 15.7 cm 16:9 touchscreen display
● DVD/CD player
● 6.2" / 15.7cm TFT LCD touchscreen
● Bluetooth connectivity with internal Bluetooth
  microphone for handsfree calling
● 2 x rear USB 2.0 port, supporting Apple, Android and
  other audio and video formats
● 4 x 40W amplifier
F220   **038890G**

SDHC card with motorhome specific navigation software for F220. EU map package with 47 countries, Camping POI package and 6 million+ premium POI
X-F220-SDFEU **038890D**

XZENT X-402
Multimedia system:
● FM and DAB+ radio
● 6.2"/ 15.7 cm 16:9 touchscreen display
● DVD/CD player
● 6.2" / 15.7cm TFT LCD touchscreen
● Bluetooth connectivity with internal Bluetooth
  microphone for handsfree calling
● 2 x rear USB 2.0 port, supporting Apple, Android and
  other audio and video formats
● 4 x 40W amplifier
X-402   **038890E**

SDHC card with navigation software for X402. EU map package with 47 countries and 6 million+ premium POI
X-402-SDFEU   **038890F**

Audio Accessories

**Zenec DAB+ Tuner
ZE-DAB60
038887**

**Zenec TV Tuner
ZE-DVBT40
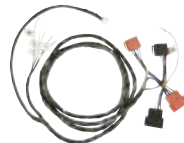038887A**

**ATB20P Active
Subwoofer
038888B**

**AXTON 2 Channel
Amp
A250
038888**
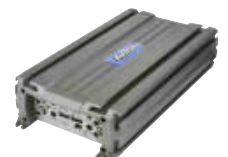
**AXTON 4 Channel
Amp
A460
038888A**

N-ADUC-IS01
Plug and play 1 Channel
038889

N-ADUC-IS02
Plug and play 2 Channel
038889A

N-ADUC-IS04
Plug and play 4 Channel
038889B

**Fiat speaker
ATC26-DUC
038891**

**Voltage stabiliser 12V
13285-004.02300**
Plug and play behind the radio
038897

Installation Accessories

**1 Din installation bracket
001.285-3**
Fiat Ducato without OEM
radio fitted > 2006
038893

2 Din installation bracket
Fiat Ducato without OEM
radio fitted > 2011.
002.285-3 Matt Black
038893A
002.285P0-3 Gloss Black
038893C

**2 Din installation bracket
002.306P0-3**
Fiat Ducato with OEM radio
fitted > 2011
Gloss Black **038893B**

Fiat Facia
Use when raplacing a Factory fitted
radio or Naviceiver in new vehicles
038884

**1 Din installation bracket
001.102S1-2**
For all VW T5 models 2010-
2014
038893E

**2 Din installation bracket
PRVC EU 90001/bp**
For all VW T5 models 2010-
2014
038893D

**Fakra to SMB
FS2352**
To connect original
DAB+ Fiat antenna
to Zenec/Xzent
products
038896B

**Fakra to DIN
FD2319**
To allow simple
connection to the
original U-connect
wiring
038896

**FM Fiat connector
206.000-0**
To connect FM Fiat
antenna to a radio
038896A

**Steering wheel remote
control interface Fiat
014.805-0**
Only for vehicles without
OEM radio but with
telephone buttons on the
steering wheel > 2015
038894A

**Steering wheel remote
control interface Fiat
014.309-0**
For vehicles without OEM
radio > 2011
038894

**Steering wheel remote
control interface Fiat
014.808-0**
For vehicles with U-connect
3 OEM radio
(no Sat Nav)
038894E

**Steering wheel remote
control interface Fiat
011.801-2**
For vehicles with U-connect
5 OEM radio
(with Sat Nav)
038894D

**Active Splitter
AS2611**
Amplifies the signal
from the aerial
and provides FM
and DAB+ inputs
for the radio, with
+20dB gain. For use
with passive aerials
(038895D)
038895A

**Passive Antenna
PA1501**
For use with
active splitter
(always use with
038895A)
038895D

**Steering wheel remote
control interface
Mercedes
014.857-0**
For Mercedes Sprinter
038894F

**Steering wheel remote
control interface T5
014.810-0**
2010 - 2014
038894B

**Steering wheel remote
control interface T6
014.811-0**
> 2015
038894C

**Phantom power
antenna 204.104-3**
For all VW T5 models
2010-2014
038895

**Passive Splitter
PS2912**
Splits signal from
aerial and provides
FM and DAB+ inputs.
For use with an
active aerial
038895B

**Dipole Antenna
DP0407**
Simple active aerial for
installation on stable
base such as fibreglass
038895C

**Active DAB+ Disc
Mount Antenna
DA2762**
Requires 12v & earth
038895F

**Active DAB+ Window
Antenna
DA2770**
No extra earth required
038895G

**Active DAB+ Glass
Antenna
DA4570**
For vehicles with fixed
windows. No extra earth
required
038895E

C1

Grove
PRODUCTS

Reversing Cameras

Compact rear view camera for motor homes
ZE-RVSC62
- Aluminum die cast housing
- Automatic day and night mode with 4 night vision IR LEDs
- View angles: 115° horizontal / 80° vertical
- IP protection rating: IP68
- Dimensions (WxHxD): 36 x 31 x 40 mm
- Weight: 60 g
- 3 m length of main wire harness with 15 m extension wire included
038886

Rear view camera for campers and caravans
ZE-RVSC70
- Corrosion resistant housing with automatic motorised cover made of stainless steel
- Automatic day and night mode with 18 night vision IR LEDs
- View angle: 115° horizontal
- IP protection rating: IP68
- Dimensions (WxHxD): 93 x 111 x 75 mm
- Weight: 590 g
- 5 m length of main wire harness with 12 m extension wire included
038886A

Rear view camera for motor homes
ZE-RVSC90
- Powdered coated Aluminum die cast housing
- Automatic day and night mode with 10 night vision IR LEDs
- Built-in microphone
- View angles: 150° horizontal / 125° vertical
- IP protection rating: IP68
- Dimensions (WxHxD): 84 x 71/99 x 65 mm
- Weight: 330 g
- 3 m length of main wire harness with 15 m extension wire included
038886B

Compact rear view camera for simple mounting
ZE-RVSC80MT
- Aluminum die cast housing
- Super light sensitivity yeilds a super sharp image even in difficult light conditions of dusk and dawn
- View angle: 140° horizontal
- IP protection rating: IP68
- Dimensions (WxHxD): 50 x 20x 78 mm
- Weight: 74 g
- 3 m length of main wire harness with 6 m extension wire included
038886C

Rear view camera built into the number plate holder
ZE-RVC50LP
- Super light sensitivity yeilds a super sharp image even at night
- View angle: 120° horizontal
- Power supply: DC 12 V
- IP protection rating: IP67
038886D

Rear view camera for Fiat Ducato
ZE-RCE3701
- Plastic injected housing with stainless steel bolts
- Fits between the high level rear brake light and the vehicle, brilliantly discrete
- View angles: 130° horizontal / 85° vertical / 150° depth
- IP protection rating: IP69K
- Dimensions (WxHxD): 270 x 40 (exc light) x 49 mm
- Weight: 74 g
- 30cm length of main wire harness with 11 m extension wire included
038886M

Rear view camera for pick up trucks, motorhomes and vans
ZE-RCE4605
- High quality materials guarantee high resistance to corrosion and long life
- Automatic day and night mode with 9 night vision IR LEDs
- View angle: 120° horizontal
- IP protection rating: IP67
- Dimensions (WxHxD): 23 x 19 x 30 mm
- Weight: 200 g
- 10 m length of main wire harness included
038886E

Grove
PRODUCTS

Vechline Visio Reversing cameras

Evo Easy
Mirror mounted for motorhomes
002228

Evo Van
For Van Conversions
002224

Evo
For motorhomes
002222

Evo Dual
For Motorhomes (Close & broad view)
002226

Screen: 5" or 7" is common on reversing camera systems. All Visio products have a 7" LCD colour screen with 400cd/m^2 that allows you to see the screen in bright conditions and 300000 pixels resolution for a clear picture. Also include antiglare shield.

Wired or wireless: All Visio products are wired to eliminate interference and signal loss.

Audio/microphone function: All Visio products have a built in microphone on the camera with an audio function on the screen, this allows you to hear, as well as see, behind you.

Mirror function: Allows you to choose whether you see the true picture or as if you were looking in a mirror, all Visio products have this feature.

Camera: All Visio cameras have a wide 120° horizontal viewing angle (with the dual also having 45° on the additonal camera). The EVO, EVO Easy and EVO Dual have a waterproof rating of IP69K which is the highest available for use with pressure washers. The EVO van has IP68 which is waterproof. Many others on the market are IP66

Mounting: Solid adhesive mounting plates with screw holes. With the exception of the Visio Easy monitor (which is 5G) each model has a camera and monitor with a vibration resistance of 10G (many others on the market have 5G cameras and/or monitors)

Visio Model	EVO Easy 002228	EVO Van 002224	EVO 002222	EVO Dual 002226
Monitor				
Voltage	12/24V	12/24V	12/24V	12/24V
Power	4W	3.6W	3.6W	5W
Screen	7", 16:9	7", 16:9	7", 16:9	7", 16:9
Video Std	PAL / NTSC	PAL / NTSC	PAL / NTSC	PAL / NTSC
Brightness	400cd/m^2	400cd/m^2	400cd/m^2	400cd/m^2
Resolution	420 TV lines	420 TV lines	420 TV lines	420 TV lines
Anti-glare	YES	YES	YES	YES
Audio func'n	YES	YES	YES	YES
Bracket	Clip on	Adhesive	Adhesive	Adhesive
Mirror func'n	YES	YES	YES	YES
Remote control	YES	YES	YES	YES
Automatic stand by	YES	YES	YES	YES
Working temperature	-20⁰C to 65⁰C	-20⁰C to 65⁰C	-20⁰C to 65⁰C	-20⁰C to 65⁰C
Vibration resistance	5G	10G	10G	10G
Dimensions mm	250 x 108 x 23	182 x 124 x 38	182 x 124 x 35	182 x 124 x 35
Weight	800g	800g	800g	1100g
Anti-glare	YES	YES	YES	YES
Audio func'n	YES	YES	YES	YES
Bracket	Clip on	Adhesive	Adhesive	Adhesive
Mirror func'n	YES	YES	YES	YES
Remote control	YES	YES	YES	YES
Automatic stand by	YES	YES	YES	YES
Working temp	-20⁰C to 65⁰C	-20⁰C to 65⁰C	-20⁰C to 65⁰C	-20⁰C to 65⁰C
Camera				
Voltage	12V dc	12V dc	12V dc	12V dc
Lens	1/3" CCD	1/4" CCD	1/4" CCD	2 x 1/4" CCD
Viewing Angle	120⁰	120⁰	120⁰	120⁰+ 45⁰
Night vision with 0 lux	18 Infra Red LEDs, 15m	9 Infra Red LEDs, 15m	18 Infra Red LEDs, 15m	30 Infra Red LEDs, 20m
Waterproof	IP69K	IP68	IP69K	IP69K
Resolution	300000 pixels	300000 pixels	300000 pixels	300000 pixels
Cable, mini-DIN	18m	10m	20m	2 x 15m
Sunshield	(Yes) Alu	NO	(Yes) Alu	(Yes) Alu
Audio func'n	YES	YES	YES	YES
Heating	YES	YES	YES	YES
Anti-mist	YES	YES	YES	YES
Working temp	-20⁰C to 65⁰C	-20⁰C to 65⁰C	-20⁰C to 65⁰C	-20⁰C to 65⁰C
Vibration resistance	10G	10G	10G	10G
Dimensions mm	72 x 52 x 42	205 x 134 x 59	80 x 60 x 71	98 x 56 x 82
Weight	350g	350g	350g	420g

C1

Grove PRODUCTS

Satellite Tv Equipment To Suit Any Vehicle & Budget

MAXVIEW Est 1964 **TARGET**

Roof Mount Satellite System

Fully automatic system. Press and go, the convenience of having all your TV channels ready to watch in an instant at the touch of a button. The ultimate in home entertainment on the move.

- Average search time 30-60 seconds typical
- 'Easy adjust' manual skew system
- Single LNB fitted as standard
- 5 pre-programmed satellites as standard (ASTRA 1, 2, 3, Hotbird & Thor)
- Easy to use wired control box
- Future proof with free software updates via a USB stick
- Watch all available UK TV channels in the UK and into parts of Europe
- Low stream line profile, only 17cm
- With 65 or 85cm dish
- All weather resistant construction
- For permanent mounting, can be transferred to another vehicle
- 3 year guarantee

With 65cm dish   **040014C**
With 85cm dish   **040014D**

MAXVIEW Est 1964 **CRANK UP**

You**Tube**
See our set up video search 'Maxviewltd'
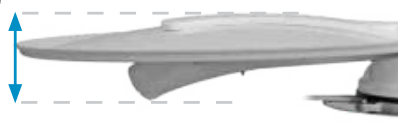
Crank-up Satellite System

Manual operation system. Raising dish using handle, locate satellite and park system from the comfort of inside your vehicle

- Ergonomic handle optimises positional accuracy
- Cable entry junction box allows for the system to be fitted in the most convenient position on roof
- Easy to align using the ceiling mounted handle and elevation zone map
- Watch all available UK TV channels in the UK and into parts of Europe
- Low stream line profile, only 17cm
- With 65 or 85cm dish
- All weather resistant construction
- For permanent mounting, can be transferred to another vehicle
- 3 year guarantee

With 65cm dish   **040014A**
With 85cm dish   **040014B**
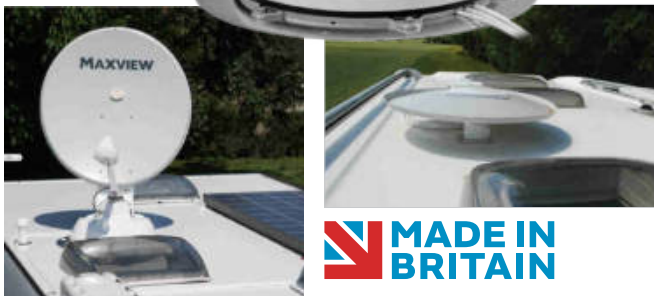
MADE IN BRITAIN

17 cm

Clear and easy to read elevation angles with simple and effective locking device

Grove PRODUCTS

Kronings Ultra Light Weight satellite system

Full automatic satellite dish
ONLY 4.7 kg.....
Aluminium dish, 62cm oval, designed to use 30-40% more reflective material than traditional round satellite dishes.
DiSEqC controlled: Fully automatic.
Gain of 80.6 dB signal in digital with BER -0.6, equivalent to a round 80cm dish.
Full HD ready LNB.
Quick intelligent automatic satellite search.
Remembers the last used satellite, leading to fast and easy usage.
Prepared for digital TV.
User friendly display.
Automatic closing when driving.
Can be mounted close to solar panels and airconditioning systems.

- 9 satellites pre-programmed in memory.

- Türksat 3A	42.0E
- Astra 1N/2A/2F	28.2E
- Astra 3A/3B&Thor 2	23.5E
- Astra 1KR/1L/1M/2C	19.2E
- Eutelsat Hotbird	13.0E
- Sirius / Astra 4	4.8E
- Thor 5&6 & Intelsat 10-02	0.8W
- Atlantic Bird / Eutelsat 5	5.0W
- Hispasat 1E	30.0W

- Power supply voltage — 11/16 Volt
- Stand-by system absorption — 20mA
- Research system absorption — 2A typical - 3,5A peak
- Typical search time — 30-60 sec
- Max time for complete scanning — 300 sec
- External unit weight — 4.7 Kg
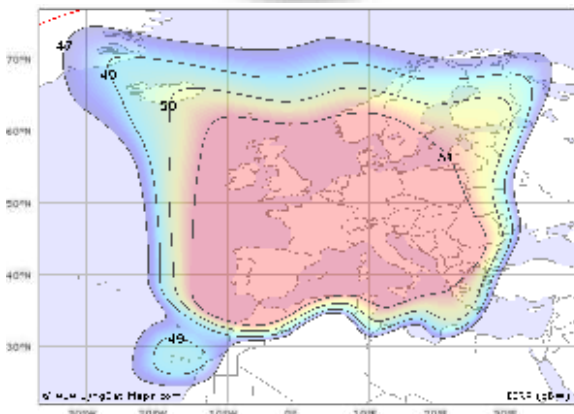
EN 55022, EN 55024, EN 12100-1, EN 12100-2, EN 294, EN 349, EN 60529, 95/56/CEE
If connected via power supply instead of battery:
Voltage: 12V (+/- 15% Max),
Power: 2A (Min),
Power: 24W (Min)
039978

Twin LNB adapter
039978A

Other roof mounted satellite systems

RoadPro domes powered by Wiworld
Complete protection against wind and weather. Roadpro domes offer the widest range of models of any sat-dome manufacturer. Average satellite search times of 30 seconds. One button operation, just switch it on!
- Operating voltage 12V
- Fixes to the roof with sikaflex and / or screws
- Space required for operation: 76cm diameter including mounting feet

- Search controller dimensions H x W x D mm: 42 x 245 x 146
- Astra 2 (N & S), Eurobird 1, Astra 1, Hotbird, Sirius, Atlantic bird 3, Hispasat
- Off-set dish inside a protective plastic cover
- All weather resistant white dome casing, can be painted
- Can be used with any satellite receiver including Freesat, Free to air & SKY receivers (not included)
- 3 year guarantee

Part Number	Dish size (W x H) cm	LNB type	Weight approx. kg (Dish & motor)	Dome height cm	Current Amps approx.	
					During search	In use (search complete)
Static models						
039992	46 x 35	Single	9.5	40	1.5	< 0.1
039990A	46 x 35	Twin	9.7	40	1.5	< 0.1

WOW Use twin LNB version to use pause, record, or other functions of a recording receiver or to use 2 receivers at once.

Grove products

Portable satellite systems

MAXVIEW Est 1964

Remora 40

Suction mount- Portable Satellite System

For people on the move, the Remora 40 is the ideal portable satellite TV kit, using high strength suction mounts for easy, temporary attachment to a vertical surface on your vehicle

Specifications:

Use:	For outdoors
Satellite TV:	SD & HD channels*, reception dependant on satellite & satellite footprint
Suction Mount:	Dual silicone suction mount suitable for a smooth surface only
Dish:	40cm Plastic Dish
LNB:	Single Universal LO 10.7 - 12.75 GHz
Elevation:	10° to 50°
Skew:	-30° to +30°

* Satellite receiver required

Remora 40 - 040002D

MADE IN BRITAIN

WOW "So simple to fit, so easy to use, ideal for people on the move"
N. Greentree - Independent Industry Expert

Easy set up
3 part design requires no tools to assemble or disassemble

High strength dual suction mount
Allows for quick, secure & non-permanent fitting to most flat, vertical surfaces

Level Indicator
Aids a quicker, more accurate setup & elevation reading

Elevation Adjustment
Lets the users easily set the antenna elevation to a high level of accuracy

Rotation Lock
Fixes the system into place once satellite signal has been acquired

Security Fixing Point
Gives peace of mind / security of the satellite system

Quick Release Lever
Two built in quick release levers for easy mount & dismount

5m Flexible Cable
Makes it easier to route to your satellite receiver

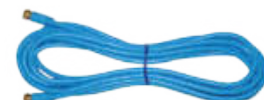3 Main parts for compact storage in high quality bag

40cm Plastic Dish

Satellite compass

Dual suction mount

10.7 - 12.75 GHz LNB

5m High flex F to F cable

Grove PRODUCTS

Portable satellite systems

MAXVIEW Est 1964

## Tripod - Portable Satellite Systems

PRECISION I.D

PRECISION

WOW Precision ID includes a Satellite Identification with a 'Sat Found LED' for user indication. This innovative design now makes it easier than ever to find the right satellite for you.

Sat Found LED:
Makes sure you find the right satellite in the simplest way possible. It is designed to let you know you have found the correct satellite easily.
When scanning for the satellite you want, the LED will turn on only when the correct satellite is found saving time, effort and guess work.
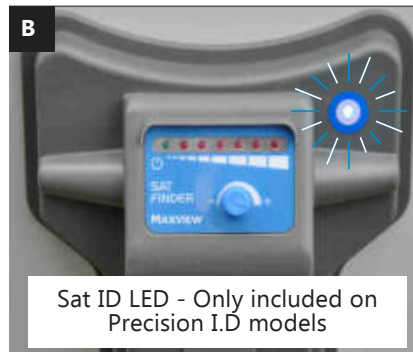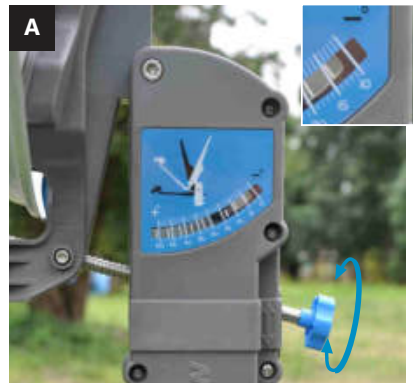
South
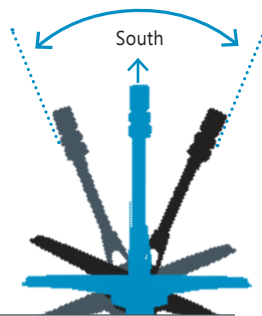
Limited satellite zone. Reduces margin for error, so locking on to the correct signal is quicker and easier.

Pre-assembled parts for very quick and easy set up. Top unit simply drops onto tripod as shown.

A

B

C

D

E

Comes complete with holdalls for easy handling

Sat ID LED - Only included on Precision I.D models

Unique and innovative features include...

A. Elevation indicator, easy to view elevation read out

B. Integrated Sat Finder, helps you align your dish to the satellite

C. Level indicator, a level tripod will allow for quicker set up and a more accurate elevation reading

D. South leg sticker, point this leg South using included compass for quicker set up

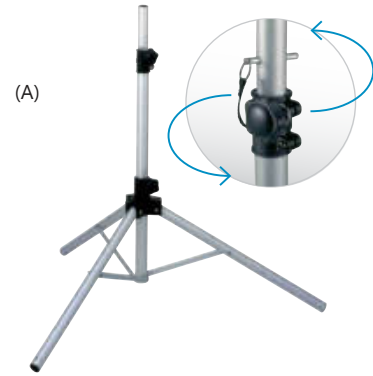E. Magnetic LNB lock, to secure LNB arm for easy storage

MADE IN BRITAIN

Manual satellite systems - All models feature the below
- Designed with the user in mind for easy set up and quick signal finding
- Watch all available UK TV channels in the UK and into parts of Europe
- Lightweight yet sturdy design, suitable for most terrains
- Unique and innovative features - see linked
- Includes, Compass, System and Tripod Holdalls, Ground Pegs, Elevation map, Quick Set Up Guide, 10m Flexible 'F' Cable, Sat Finder, Tripod & choice of LNB
- Available with either 55cm or 75cm dish. Plus Twin or Single LNB options
- Patent pending design - Designed and manufactured in the UK
- 2 year guarantee

PRECISION

With 55cm dish & single LNB	**040001A**
With 65cm dish & single LNB	**040002A**
With 55cm dish & twin LNB	**040001B**
With 65cm dish & twin LNB	**040002B**
With 75cm dish & twin LNB	**040002C**

PRECISION I.D

With 55cm dish & single LNB	**040001AB**
With 75cm dish & twin LNB	**040002CB**

grove PRODUCTS

Tripod masts

MAXVIEW Est 1964

MADE IN BRITAIN

Retractable upper mast section to lengthen the mast by up to 500mm to mount dish higher to clear possible obstructions

Both tripods include ground pegs for extra stability

(A)

Deluxe Satellite Tripod

- Stainless steel fixings
- Portable mount to position satellite dish in convenient position to achieve clear line of sight to satellite
- Upper mast section rotates freely for ease of use to aid satellite dish alignment (A)
- Long legs and an additional locking device ensure stability
- Folds together for compact storage in supplied holdall
- Lightweight and stable design
- Mast diameter 34mm
- Dimensions: Full height 165cm when legs fully extended

040005

Satellite Tripod

- Stainless steel fixings
- Portable mount to position satellite dish in convenient position to achieve clear line of sight to satellite
- Upper mast section rotates freely for ease of use to aid satellite dish alignment (A)
- Long legs and an additional locking device ensure stability
- Folds together for compact storage
- Lightweight and stable design
- Mast diameter 34mm (Top)
- Dimensions: Full height 93cm when legs fully extended

040003

MAXVIEW Est 1964

VuQube AUTO 2

You Tube

See our set up video search 'Maxviewltd'

Optional kit for roof mounting
040054C

grove PRODUCTS

Portable Satellite System

TV/Radio coverage throughout the UK and Europe
- Press and go, the convenience of having all your TV channels ready to watch in an instant at the touch of a button
- Receives transmissions from Astra 1, Astra 2, Astra 3 and Hotbird
- Designed to be permanently mounted to vehicle roof and for portable use
- Ultra lightweight with ergonomically designed carry handle for easy handling
- Can be permanently roof mounted to any touring vehicle using the add on mount pack below. Capable of being transferred to another vehicle if required
- Can be chained to any fixed object looped through the handle. Includes alarm for added peace of mind
- Twin LNB as standard
- 35cm cassergrain dish, equivalent to 50cm offset dish giving increased range
- Clear and easy to use LED Control Box, which is compact in size (W:13 x D:9.5 x H:3cm) allowing unobtrusive mounting in a cupboard space
- All weather resistant and robust casing
- Compatible with any SD/HD Free to air satellite receivers (inc SKY)
- 2 year guarantee

Specifications:
- Weight: 3.5kg
- Frequency: 10.70 - 12.75GHz
- Powering by12V Control Box
- Dimensions (mm)
- 490 front to back
- 430 side to side
- 350 top to bottom

Includes:
- 12V Control Box
- Velcro Control Box pads
- All required cables & User instructions
- 2 year guarantee

040054B

TV Aerials

MAXVIEW Est 1964

Gazelle Touring TV Aerial

- Omnidirectional receives all available digital and HD TV channels through 360 degrees
- For permanent or temporary mounting
- Also receives FM and DAB signals
- Aerodynamic design
- Includes 12/24V Variable Signal Booster
- Includes 5m coaxial cable for mounting accessories
- 2 year guarantee

040008

MADE IN BRITAIN

Omnimax Touring TV Aerial

- Omnidirectional receives all available digital and HD TV channels through 360 degrees
- For permanent or temporary mounting
- Also receives FM and DAB signals
- Includes 12/24V Variable Signal Booster
- Includes 5m coaxial cable and mounting accessories
- 2 year guarantee

040006

MADE IN BRITAIN

Mobile TV Aerial - 14 Element

- Receives all available digital, HD & 3D signals
- For all UK coverage
- Quick and easy assembly
- Compact size for travel and storage
- Complete kit, includes accessories shown right above
- Designed for quick, easy and simple installation
- 1 year guarantee

Aerial only with coaxial cable **040043A**
Aerial Kit including mast & cable **040043B**

NEW ITEM

MADE IN BRITAIN
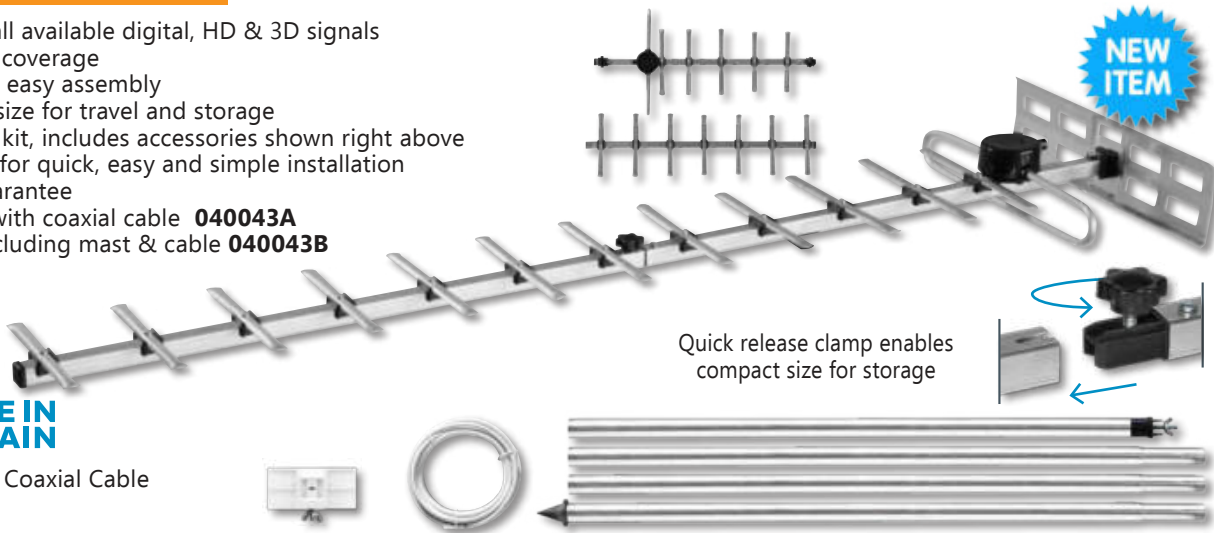
Includes 5m Coaxial Cable

Quick release clamp enables compact size for storage

Includes Mast, 2 Unimax Clamps and 5m Coaxial Cable

Mobile TV Aerial - 9 Element

- Receives all available digital, HD & 3D signals
- For all UK coverage
- Quick and easy assembly
- Compact size for travel and storage
- Complete kit, includes accessories shown right above
- Designed for quick, easy and simple installation
- 1 year guarantee

040043

MADE IN BRITAIN

Truvision - Indoor TV Aerial

- Receives all available digital, HD & 3D signals
- For all UK coverage
- Ready to use - just flip up and connect to TV
- Stylish design and folds flat for easy storage
- 2m coaxial cable allows easy positioning
- 1 year guarantee

040046

Grove PRODUCTS

Masts MAXVIEW Est 1964

Unimax Mast
MADE IN BRITAIN

- Use to mount a touring TV aerial
- For mounting on the side of a vehicle
- Includes quick release spring action clamps
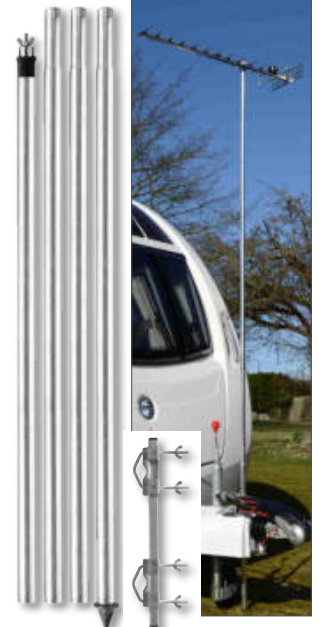- Clamps can be fixed to any smooth surface
040089

Vehicle Side Mast
MADE IN BRITAIN

- Use to mount a touring TV aerial
- For mounting on the side of a vehicle
- 4 piece section mast allows up to 2.6m height
- Clamp can be fixed to any smooth surface
040113

Jockey Wheel Mast
MADE IN BRITAIN

- Use to mount a touring TV aerial
- Mounts onto a caravan jockey wheel
- 4 piece section mast allows up to 2.6m height
- Easy installation, no tools required
040114

Accessories

Magnetic Base
- Designed for use with Maxview Omnimax only
- Temporary fixing to any flat steel surface to provide secure mounting base
040081

Suction Pad Base
- Designed for use with Maxview Omnimax only
- For temporary fixing
- 4 heavy duty suction pads for secure mounting
040080

Unimax Clamps
- Mounts to the side of any touring vehicle
- Can be either screwed into position for permanent mounting or attached using the self adhesive backing for temporary mounting

Packed **040017**
Loose **040086**

Sat Finder
- Designed to help align satellite dish to the satellite with varying audio tone and ascending visual LED display
- Signal sensitivity control for ease of satellite dish adjustment and alignment
040011

Satellite Compass
- Satellite alignment zone to help locate the signal direction for all the main European satellites Astra 1, Astra 2 & Hotbird
- For use as normal navigational compass
040013

Satellite Digital Compass
- Satellite alignment zone to help locate the direction of the signal for all the main European satellites
- All major European satellite positions pre programmed
- Modes: ASTRA 1, 2 & Hotbird, Digital time, thermometer & compass
- Features bubble level
- Back lit LCD display for low light viewing
040018

Sat Finder
- Assists and speeds up aerial alignment for the best terrestrial TV (digital/HD/3D) reception available
- Optimise signal reception before auto tuning TV/receiver
- Features signal sensitive control for high or low signal strength areas
- For use with a directional touring TV aerials
- Simply connects to aerial, adaptors
- Includes battery and velcro mounts
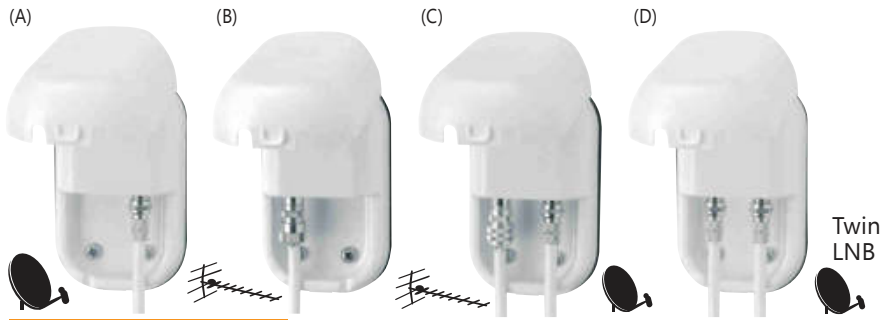**040048**

Variable Signal Booster
- Increases the strength of all incoming terrestrial TV (digital/HD/3D) and radio (FM/DAB) signals in weaker reception areas
- 12/24V ideal for use with any touring TV/radio
- Variable gain for high or low signal strength areas
- Gold plated 'F' connectors for improved connectivity
- Low power consumption
- Wall mounting option available
- 2 year guarantee
040062

Grove PRODUCTS

Sockets & plugs MAXVIEW Est 1964

(A) (B) (C) (D)

Twin LNB

Weatherproof Cable Box

- Waterproof IP66 double membrane seal
- Designed for roof mounting
- Self adhesive foam seal
- Optional four point screw fixing
- For all cable types 5 - 9mm Ø
- Can take 2 cables

040034

Weatherproof Sockets

- Provides a neat, external weatherproof cable entry point(s) into a vehicle or boat
- Complete with self adhesive foam seal and screws for easy installation
- Unobtrusive design
- 3m Cable length

- Models available:
040023 Single Socket & 'F' Connector (A)
040095 Single Socket & Coaxial Connector (B)
040015 Twin Socket & 'F' & Coaxial Connector (C)
040022 Twin Socket & Twin 'F' Connectors (D)

All products featured are supplied in full colour blister packs - see example ➡

'F' Flyleads

1m	**040038A**
2m	**040038**
4m	**040039**
10m	**040040**

Coaxial Flyleads
- With gold contacts

2m	**040026**
4m	**040083**
10m	**040029**

Coaxial Flyleads

2m	**040027**
4m	**040028**
10m	**040084**

- Multi strand core for added cable flexibility
- Less likely to tangle
- Less likely to take a set shape
- Reduces potential trip hazard
- Easy to handle
- Compact

Flexible 'F' Cables

10m Single	**040040A**
10m Twin	**040040B**

Coaxial Flyleads
- With right angled connector

2m	**040027A**

HDMI Cables

0.8m	**040085**
1.5m	**040037**
3m	**040037A**

Scart Leads

0.8m	**040016**
1.5m	**040025**

2 Way Coaxial 'Y' Splitter
040035

2 Way Coaxial 'Y' Splitter - Gold
040035A

Alloy Coaxial Plugs (2) **040019**	Back to Back Coaxial (2) **040031**	Back to Back 'F' (1) **040032**	Coaxial Cable Kit **040033**	Satellite Cable Kit **040036**	'F' Conne-ctor (2) **040041**	'F' to Coaxial Adaptors(2) **040042**	Push on 'F' Connectors (2) **040090**	Fast Fit Coaxial Plugs (2) **040030**

New angled accessory range. These adaptors allow a tight angle, perfect for use on slimline (mainly LED) or any flatscreen TV's where space is limited behind TV once wall mounted. Use for easy access to those awkward to get to sockets.

Coaxial Angled Adaptor **040082**	Coaxial Angled Adaptor - Gold **040082A**	'F' Angled Adaptor **040082B**	'F' Angled Adaptor - Gold **040082C**	HDMI Angled Adaptor Adaptor - Gold **040082D**	HDMI Pivot Adaptor Adaptor - Gold **040082E**

Grove PRODUCTS

Accessories

Universal Satellite Receiver Mounting Brackets

Application example

MAXVIEW Est 1964

- Mount your receiver securely inside your touring vehicle
- High performance velcro tested to withstand vehicle motions, vibration & shock
- Multi mounting position options to suit almost any cupboard space
- Robust, lightweight design
- Stand off clearance, designed to allow airflow to prevent receiver overheating
- Includes all fixings below for secure permanent mounting in a cupboard or shelving space
- Designed for quick and easy installation

040087

Maxview twin LNB upgrade kit
Upgrade your single LNB version for use with SKY+ and other hard drive recording receivers with the Twin LNB upgrade kit. Can also be used with 2 receivers for independent viewing. Includes low noise 0.2dB LNB, adapter and 10m twin coaxial cable. Designed specifically for use with Maxview satellite dishes

040004

Moonraker DTV-1000 Digi Pro aerial
The DTV-1000 has been specifically designed for digital TV reception. It has an integrated low noise amplifier which can be powered either by the antenna power out option on your set top box, digital TV or even via the 12v DC power cord supplied. The flexible and varied mounting options make the DTV-1000 the simplest way to enjoy digital TV on the road!

040049

Ring FM aerial
Compact design 12v electronic leisure aerial. Telescopic with six sections – overall length 39cm

040129

Pole mounting

Window mounting

A Digital Antenna

B 12V Power Lead

C 230V Mains Lead

D Power inserter

E 3m Co-axial cable

F Screws and wall plugs for fixed mounting

G U-bolts and wing-nuts for pole mounting

H Mounting bracket for pole and permanent mounting

I Sucker mounting bracket for window / wall mounting

W4 satellite finder
Easy to read analogue dial as well as an audible signal. Enables effective, quick and reliable satellite alignment for optimum reception. Adjustable gain and sensitivity to suit all situations

040009

Grove PRODUCTS

Kuma TV

Cosmos aerial

Omni-directional 360º touring aerial, ideal for permanent or temporary mounting
- 12/24v operation
- Also receives FM and DAB signals
- Aerodynamic design
- Built in amplifier
- Includes 4m coaxial cable
- 200mm High x 315mm ø
- Light weight 2830g

Standard   **040008C**
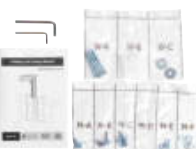Magnetic base   **040008D**

Matrix aerial

Omni-directional 360º touring aerial, ideal for permanent or temporary mounting
- 12/24v operation
- Also receives FM and DAB signals
- Aerodynamic design
- Built in amplifier
- Includes 4m coaxial cable
- 300mm High x 182mm ø

Standard   **040007A**
Magnetic base   **040007B**

NEW LOWER PRICE

Fittings supplied

Metal mount disc

Everything you need to fix magnetic-based accessories to non-metallic surfaces.

Simply clean the small area you wish to mount your TV aerial, WiFi aerial or other accessory, apply the supplied adhesive, put the ultra-lightweight disc on top (only weighs 40 grams!), wait 24 hours for the adhesive to cure and that's it. You can now fit any magnetic based product to your composite roof and remove when you have finished.
- Rustproof ultra-light metal disk
- 5ml of waterproof adhesive
- 96mm diameter x 4mm thick
- Weight 40g

040008E

Flip down TV bracket

This under cabinet mount fits LCD / LED flat screen TVs and monitors from 15" to 37" is and can also be used as a ceiling mount. The sturdy mount features a space saving design that conveniently tucks your flat panel display under a cabinet when not in use. This high-tech look mount offers perfect viewing angle adjustment.

The arm that is connected to the TV can be extended or shortened to allow the best elevation for the TV. The mount comes with a special lip to secure the TV in folded or closed position. The bracket is sturdy and will hold TVs up to 20kg. Made with high grade quality rugged materials. All mounting hardware included.

Designed for tight spaces, this bracket is ideal for Caravans and Motorhomes or at home in the kitchen.
- Locking and fully rotating
- 110º tilt, 180º swivel left and right
- Fits TVs with VESA mounting hole pattern of 75×75 (3"x3"), 100×100 (4"x4"), 200×100 (8"x4"), 200×200 (8"x8")
- Holds TVs that weigh up to 20kg

040000A

Magpole

A Magnetic Mounting Pole for use with Aerials, Flags or Antennas. Constructed of a high impact plastic shaft with a fully protected magnetic base. 450mm long but can be easily cut to a shorter length if required whilst retaining the full weatherproof functionality.
- Ultra-strong magnetic base with rubber seal cover to protect paintwork
- Completely rustproof
- 450mm Height x 124mm diameter base

040008F

Grove PRODUCTS

TV aerial masts

Mercury mast and clamp
Provides three 3' masts and a jockey wheel clamp. Suitable for use with both the Overlander and Tourer aerials and other aerials with a conventional 'V' bolt fixing
040112

W4 aerial pole kit
Fully telescopic lightweight pole kit extendable to 3.2m. Helps to receive a full range of TV signals with its infinite variety of height adjustments. Can be fitted to the jockey wheel with the special clamps provided
040115

Jockey wheel clamp for rotary airer
For use with caravan and trailer jockey wheel assemblies with 48mm diameter stems. Ideal for both TV aerial poles and rotary airers
095470C

W4 Jockey wheel satellite pole
A sturdy 30" pole complete with two specially designed brackets for safe attachment to the caravan jockey wheel. Also supplied with a 'U' bolt for fixing the satellite dish. Keeps the dish in a safe and unobtrusive area, no tripod to trip over!
040119

W4 aerial pole clamps
One pair of specially designed clamps. For safe attachment of an aerial pole to the jockey wheel.
040117

W4 Pack-it TV range
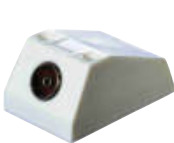
Surface TV point
Coaxial socket
040546

Surface coaxial / satellite point
Coaxial and F socket
040588

Surface satellite point
F socket
040576

Satellite lead
2m F to F plug
040585

Aerial lead
2m male to male
040547

Co-ax cable
5m
040542

Coaxial plug
040543

Coaxial coupler
040544

2-way coaxial splitter
040586

Satellite 'F' plug
040577

2 pin plug
12v 10A
040535

2 pin socket
12v 10A
040536

2 pin flush fitting socket & plug
12v 10A
040537

TV Universal Power Lead
040595

Grove PRODUCTS

Kuma WiFi

WiFi Booster kit

Boost Caravan WiFi, Motorhome WiFi and Canal boat WiFi with ease. The Kuma WiFi package is a complete solution to pick up and boost an external wireless signal and repeat it at full strength. This allows you to create your own secure wireless network in your caravan, motorhome or canal boat and share the boosted connection with all your devices. Everything you need to boost and share a motorhome WiFi connection is included.

The system is compatible with any device which is WiFi enabled, even if it does not have a USB port. You can connect your laptop, iPad, tablet, smartphone or Kindle all at the same time! There are no disks or drivers to install on your devices and no wires between you and the system. If your caravan site charges per device then you will save money instantly if 2 devices connect, (a smartphone and an iPad for example), as the Kuma WiFi Kit will only be seen once by the caravan site router.

The package consists of two main components – The Kuma High-Powered Long Range Directional WiFi Antenna (available on its own part no. 040144) which will pick up any available WiFi network as far away as 1.5km and the Kuma Wireless Repeater which will enable you to rebroadcast this boosted signal. Also included is a 5m USB cable to connect the antenna with the receiver, mounting kit, as well as 12v DC and 230v AC power supplies. Remember our system uses a high power directional antenna – this can take a few seconds longer to set up than an omni-directional antenna but will provide much better results, as you have to transmit to the internet as well as receive when you click your mouse or screen. This is why directional antennas win every time.

To set up – Simply point the directional antenna at the sites wifi signal, connect the repeater to the antenna with the USB cable and then all your devices can connect to the external internet connection wirelessly.

If your campsite service charges you 'per device', as many do, as you will only need one 'connection' for your laptop, phone, iPad etc. No more expensive bills to connect the kids' smartphones.

Includes :
- 5m 2.0 USB lead designed to plug straight from the antenna into the Kuma Router
- Built-in router software security password configuration
- 16dBi gain antenna with a 150M transmission speed to boost signal up to 1.5km (equivalent to a mile)
- Compatible with Windows ME/Vista/7/8/10, Mac OS 10.5-10.8 and all mobile devices
- DHCP for dynamic custom IP configuration
- User-definable application sensing tunnel supports applications requiring multiple connections
- Easy setup and management through web browser interface on any operating system that supports TCP/IP
- Set up guide
- 2 Year Manufactures Warranty
- Router Dimensions: 10cm x 7.2cm x 2.5cm
- Router Weight: Unit Only 81g
- Power Connections: 12/240 Volt

040140

USB Wireless WiFi adapter

This is the WiFi antenna included in the WiFi booster kit. This product includes the antenna, a 5m USB cable, pole mount clip and of course full instructions on how to install, setup and run your mobile WiFi for your caravan, motorhome, boat or lorry through your laptop.
Compatible with Windows 7, 8 and 10.
Not compatible with Windows XP.
- USB 2.0 interface
- 150M transmission speed
- Compliant with IEEE802.11b/g/n
- 16 dBi gain antenna

040144

4G Mobile Pocket WiFi Kit

Includes free internet access from Three and a Kuma external antenna. Simply insert the included Three SIM card and browse. When you have used the free 200MB of data, top-up online using your phone, iPad, laptop or tablet at Three's amazing rates.

If you already have a SIM card with data or are going to an area with poor Three coverage, (or arrive on site and there is no Three coverage), insert any network SIM card and share the internet connection with up to 5 devices – smartphones, tablets, iPads or computers.

Why choose a Kuma 4G kit? Get outside strength inside your van with the minimum of fuss. Hide the whole kit in a cupboard and connect wirelessly. Perfect solution with ultimate flexibility. Perfect for use in vehicles such as caravans, motorhomes, trucks and boats where space is limited and 4G internet is a must have.

- Including a powerful 28dBi Antenna with 3-meter cable which can work with speeds up to 150Mbps to help improve your signal. Put the antenna in a window, hang outside, it's truly versatile and comes with sticky pads to allow a permanent mount if required.
- Set up in less than 2 minutes with no technical knowledge required, letting our kit do all the work.
- 4G / 3G and 2G compatible.
- Long-lasting 1500mAh battery and can be charged via a 2.0 USB cable (supplied).
- Connect up to 5 devices at the same time wirelessly. Functions just like your router at home – password protected and has a data counter so you can see how much data you have used
- Weight 280g

040142

Grove PRODUCTS

Water containers

Jerrycans
25 litre   **050055**
10 litre   **050077**
Singly or 12 per outer

Jerrycans with taps
25 litre   **050096**
10 litre   **050078**
Singly or 12 per outer

When housed   in
in the jerrycan   use

WOW The tap is held inside the jerrycan for transport, protecting it from damage.

Jerrycan spare parts

Cap with integrated tap
For 10L & 25L jerrycans
050109

Spare cap
For 10L & 25L jerrycans
050079

Waste container
23ltr capacity container which has a large cap on the side to take two waste pipes.
6 per outer
050033

15L Compact Carrier
15L collapsible water carrier with tap.
Singly or 6 per outer
050169B

Trolleys

HTD Folding trolley truck 80kg
Aluminium foldable trolley with flexible tread. Telescopic arm for simplicity and ease of use. 105cm bungee strap included
● Maximum load: 80kg
● Dimensions unfolded: (HxWxD)
   100 x 38 x 42cm
● Dimensions folded: (HxWxD)
   68 x 38 x 5cm
● Wheel diameter: 12cm
● Weight: 3kg
2 per outer
050273

HTD Folding trolley truck 50kg
Steel foldable trolley. 140cm bungee strap included
● Maximum load: 50kg
● Dimensions unfolded: (HxWxD)
   98.5 x 34 x 47cm
● Dimensions folded: (HxWxD)
   68 x 38 x 5cm
● Wheel diameter: 14cm
● Weight: 2.5kg
2 per outer
050272

Grove PRODUCTS

aquaroll®

Hitchman display stand - **050250**
Please speak to your sales contact for details

WOW Samples of the 2 wall thicknesses are available on request.
PREMIUM 4mm approx.
ECONOMY 2.5mm approx.

WOW aquaroll PREMIUM and wastemaster PREMIUM offer fantastic lifetime value with a **10 year container guarantee!**

aquaroll® PREMIUM 40 Litre

The aquaroll PREMIUM is the UK's best-selling portable water carrier that rolls across the ground making light work of freshwater transportation. The original design was created in 1953 and evolved over the years, resulting in the 40 Litre model which was launched in 1992. The aquaroll PREMIUM is manufactured at FL Hitchmans factory in Shropshire, England.

The aquaroll PREMIUM water carriers have the added advantage of an extra side opening to connect directly to a mains water supply via the mains adaptor kit (050187). Even without the mains facility the high capacity of the 40 litre aquaroll is a must for modern caravanning. High quality tyres on deep rims give excellent ground clearance. Easily removeable handle with rust proof ball joints. Filler tube with tap connector and handle are included.

- UK's number 1 rolling water container
- 10 Year container guarantee
- Unbeatable lifetime value
- Container manufactured from 100% food grade virgin material
- Dimensions: (L x ø): 490 x 390mm
- Weight – 4.5kg approximately

Beige PREMIUM 40L   **050185**
Silver PREMIUM 40L   **050184**

aquaroll® ECONOMY 40 Litre

The aquaroll ECONOMY is also manufactured at FL Hitchman's factory in Shropshire, to the same iconic design as the aquaroll PREMIUM using recycled material on the container and tyres for maximum funcionality at excellent value for money.

The aquaroll economy comes with the filler tube and handle just like the aquaroll PREMIUM. It can also connect directly to a mains water supply via the mains adaptor kit (050187).

- 2 Year container guarantee
- Container manufactured from 100% recycled material
- Dimensions: (L x ø): 490 x 390mm

ECONOMY 40L   **050185E**

WOW Printed with your company name and logo, the aquaroll and wastemaster bags can be personalised. Please ask your sales contact for details.

aquaroll® storage bag
Made from water resistant PVC coated nylon. With draw string
050190A

aquaroll® mains adaptor storage bag
Made from water resistant heavy duty PVC coated nylon. With all round zip
050189A

aquaroll® mains adaptor

The aquaroll mains adaptor provides you with a safe and reliable way to maintain a constant supply of water to your caravan or motorhome.

There are no expensive alterations as it fits easily to your existing aquaroll, maintaining the water supply to your caravan or motorhome. Using this system gives you piece of mind that mains water pressure will never flow directly into your vehicle.

- Easy to set up
- No tools required
- On-demand water supply
- No risk of flooding your caravan
- Food grade reinforced hose – no nasty water tastes
- No need to manually fill your aquaroll

050187

aquaroll® level indicator
For use with the aquaroll stand, allows the user to view the current level of water in the container.
050200

aquaroll® stand
40 litre   **050259**

Grove PRODUCTS

wastemaster™

wastemaster™ PREMIUM

Allows the user to collect and dispose of grey water. Like the aquaroll also manufactured in FL Hitchman's factory in Shropshire. Each wastemaster is hand trimmed to ensure a quality product which is built to last.

- UK's number 1 waste container
- 10 Year container guarantee
- 38 litre capacity / 30 litre low level capacity
- The unique shape gives good balance
- Wheels and axle easily removed
- Wide wheels to spread load on soft ground
- Platform with luggage elastics to carry the toilet waste tank
- Bottom emptying outlet with cap retaining strap
- Dimensions: 355mm x 1000mm x 160/225mm
- Weight – 4.5kg approximately

Beige PREMIUM **050046**
Silver PREMIUM **050047**

wastemaster™ECONOMY

The wastemaster ECONOMY is also manufactured at FL Hitchmans factory in Shropshire, to the same iconic design as the wastemaster PREMIUM using recycled material on the container for maximum functionality at excellent value for money.

- 2 Year container guarantee
- Container manufactured from 100% recycled material
- 38 litre capacity / 30 litre low level capacity
- The unique shape gives good balance
- Wheels and axle easily removed
- Wide wheels to spread load on soft ground
- Platform with luggage elastics to carry the toilet waste tank
- Bottom emptying outlet with cap retaining strap
- Dimensions: 355mm x 1000mm x 160/225mm

ECONOMY **050046E**

wastemaster™ superclean

Especially formulated product for cleaning wastemaster, waste tanks or other waste water pipe work. Highly concentrated and one 200ml bottle is sufficient to clean a wastemaster twice.
20 per outer
050048

aquaroll® filler tube
050236

aquaroll handle
Handle only **050192**
End sockets (2) **050219**

aquaroll® pump connector
40 litre **050231**

spare cap & strap
050206

spare straps (2)
050223

aquaroll® tyre
40 litre **050215**

wastemaster™ spares
Axle and 2 hub caps **050217**
Wheel and hub cap **050218**
Luggage elastics **050226**

wastemaster™ storage bag
Made from water resistant PVC coated nylon. With all round zip
050047A

cap with tap
050251

mains adaptor ball valve only
050193

mains adaptor extension hose
7.5m **050188**

connector kit
For mains adaptor
050221

connector kit
For mains adaptor extension hose
050222

connector seals kit
050220

Grove PRODUCTS

E

Fiamma water tanks

FIAMMA
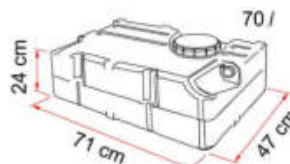
70L water tank
Constructed from non-toxic materials. It can be installed either vertically or horizontally. Complete with all fittings for installation. Water pipe inlet 38mm ø, with air outlet of 13mm ø. Dimensions: (LxDxH) 70x47x24cm. Weight 4.4kg
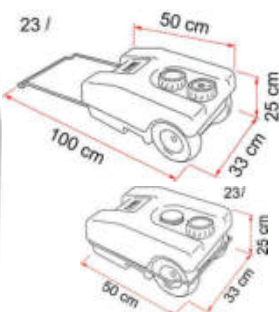**050050**
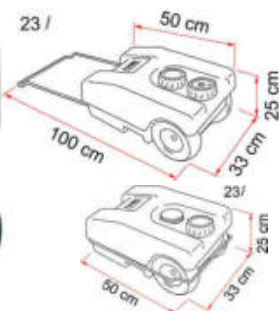
23L Roll tank water
Convenient portable 23 litre water tank with discharge cap at base. Supplied with an extra blanking cap. Weight 2.4kg
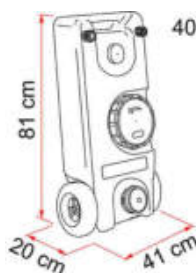**050054**
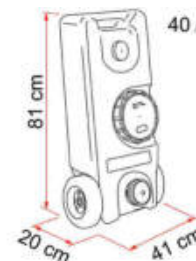
40L Roll tank water
Portable 40 litre drinking water roll tank with easy grip handle and two large wheels that make transportation easy even on gravel. Made of non-toxic material and an easy to clean wide cap. Weight 3.8kg
050054A

23L Roll tank waste
Practical and portable 23 litre tank for waste water with discharge cap at base. Weight 2.4kg
050051

40L Roll tank waste
40 litre waste tank with level indicator and air release valve. Filling and discharging are performed through a Sanitary-Flex (not included). 45˚ angle adaptor for discharge is included. Weight 3.9kg
050051A

23L spare cap
050056

23L discharge cap
050057

Fiamma Kit sanitary flex
300cm flexible hose, extendable. Delivered as standard with 2 fittings for connection to Roll-Tank 40W, Tank 21W and Quick connection W.
050060A

Fiamma quick connection waste
Adapter to turn the threaded connection into a bayonet connection, to connect the Sanitary Flex to the 23 litre waste tank.
050057A

Insulated aquaroll bag
Designed to reduce the risk of freezing in winter. Reversible with reflective lining to keep water cooler in summer.
Clever wrap-round design to remove the need to lift the full container in to the bag.
050194

Grove PRODUCTS

Water purification

Aqua clean tabs
Water purification tablets. One tablet per 5 gallons of Water. 32 tablets per pack. 12 packs per outer **052013**

Aqua tabs mini
Water purification tablets. One tablet per 1 litre of Water. 40 tablets per pack. 18 packs per outer **052012**

Aqua mega tabs
Water purifyication tablets. For use with water storage tanks with a capacity of 50 gallons or more. 12 per outer **052015**

Puriclean
Cleanses water systems and tanks
100g tub **052002**
400g tub **052024**

Aqua Sol
Aqua Sol is a powerful biocide which destroys all water borne bacteria and viruses. In addition it removes tastes and odours caused by plastics, chlorine, GRP and metals, keeping water fresh for a very long time. Aqua Sol is approved by the D.O.E. The 250ml size will treat 625 litres of water. Aqua Sol 250ml.
6 per outer **052030**

Waste Guard
Waste Guard provides rapid control of odour producing waste products. It selectively reacts to oxidise odours from many sources and does not emit harmful by products. 300ml.
6 per outer **052039**

Puri Sol
Cleans, sterilises and deodorises in one action, leaving no taint or odour. Clean, disinfect and deodorise water storage tanks, pipe work and fittings. 300ml.
6 per outer **052032**

D Scale
D Scale is a safe, effective way to remove lime scale and rust deposits and to clean the interior surfaces of water heaters. It is non-corrosive and can be safely used on Stainless Steel, Copper, Brass, Plastics and leaves no odour. Periodic us of D Scale in the water heater will avoid mineral deposits building up, so improving the efficiency and extending the life of the equipment. D Scale contains citric acid which is a naturally occurring organic fruit acid especially found in fruits such as lemons and oranges. Calcium carbonate scale builds up layers and hard gritty deposits on the interior surfaces of a water heater. When left without treatment, lime deposits build up and will clog the interior pipes within the water heater, restricting flow and reducing operating efficiency.
● Descales and cleans complete hot water systems
● Removes lime scale and rust
● Safe to use on stainless steel, copper, brass and plastics
● Ideal for hot water systems in caravans, motor homes and boats
● Environmentally friendly and biodegradable
1 litre   4 per outer   **052048**
500ml   6 per outer   **052047**

Winterban
Prevents freezing pipes and other damage by winterising your motor home or caravan. Winterban replaces the water in the water system and is safe for fresh water plumbing.
It is a propylene glycol solution (1 part winterban to 1 part water protects down to -46°C) which has a dramatically lower burst point than water. This is the point at which the liquid expands when frozen, thus protecting the system from frost damage. It is recommended that you drain as much water from your system as possible. Any excess water will be absorbed by the solution and prevents damage to pipes, taps and water heaters through expansion of frozen water.
1 gallon **052050** 6 per outer

Elsan fresh water tank clean
Leaves the tank free from micro-organisms and black spot. It also removes calcium and other deposits that can eventually clog the system. Tank Clean contains no chlorine. 1 litre
12 per outer **050035**

Elsan descale
Formulated to remove calcium deposits caused by hard water and lime scale that can be found in your portable toilet system. Regular use keeps the waste tank like new and helps to prolong its life. 1 litre
12 per outer **050035B**

Grove PRODUCTS
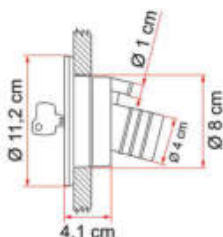
Filler caps

Fiamma water filler cap assembly
Locking water cap which complies with European closure system standards.

Dimensions:
Overall	112mm ø
Cut out	80mm ø
Outlet	40mm ø
Air intake	10mm ø
Black	**050052**
White	**050053**

Water filler assembly
Dimensions:
Overall	118mm ø
Cut out	85mm ø
Outlet	38mm ø
Air intake	10mm ø
Black	**050066**
White	**050068**

Water filler cap
78mm Ø
25 (+22)mm depth
Black **050064**
White **050062**

Non toxic water hose
Sold by the roll priced by the metre
e.g order 30 to receive 1 x 30m roll

Blue ½"	30m roll	**051339**
Clear ⅜"	30m roll	**051317**
Clear ½"	30m roll	**051325**
Clear ¾"	30m roll	**051348**
Red reinforced ½"	30m roll	**051356**
40mm ID (for water fill assembly)	25m roll	**051300**

W4 semi-rigid tubes
Sold & priced by the roll
e.g order 1 to receive 1 x 25m roll
See page 101 for John Guest

Tube 12 x 8.5mm
Blue	25m roll	**055200**
Red	25m roll	**055201**

Cassette hose
Sold individually

Superflat hose food grade
15m **051314**
20m **051316**

Waste hose
Sold by the roll priced by the metre
e.g order 30 to receive 1 x 30m roll

20mm	Flexible	30m roll	**051360**
23.5mm	Convoluted	50m roll	**051365**
28.5mm	Convoluted	25m roll	**051368**

W4 fill-ups Suitable for a variety of tap sizes.
Singly or 25 per outer	**Fill-up 1** (1.25m hose)	**050240**
Singly or 15 per outer	**Fill-up 2** (2m hose)	**050241**
Singly or 10 per outer	**Fill-up 5** (5m hose)	**050242**
Singly or 5 per outer	**Fill-up 10** (10m hose)	**050243**

Flat hose 15m
General purpose hose
Not food grade **051310**

Grove PRODUCTS

Water fittings

Hose sealing sleeves
Enables a better fit between the hose and the connector. 23.5mm hose sealing sleeves also allow 23.5mm hose to be connected to 20.5mm fittings
10 per outer
23.5mm **051366**
28.5mm **051367**

W4 easi 2 drain
For caravans with two 28.5mm waste outlets. Pre-assembled
Singly or 10 per outer
051138

7 piece 'Y' kit
Versatile kit to allow different combinations of outlets be reduced into 1. For 28.5mm hose
Singly or 10 per outer
051380

Y connectors
10 per outer
½" **051128**
¾" **051137**

Y connector
10 per outer
28.5mm **051139**

Straight connectors
10 per outer
⅜"   **051140**
½"   **051155**
¾"   **051163**
28.5mm **051167**

T pieces
10 per outer
½" **051174**
¾" **051182**

28.5 - 20mm reducer
Takes 28.5mm down to 20mm.
10 per outer
051371
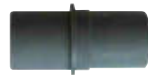
28.5mm - 1 ¼" reducer
Enables 28.5mm hose to fit 1¼ " sink wastes.
10 per outer
051369

Elbow
10 per outer
½" **051198**

Reducer
10 per outer
½" – ⅜" **051146**

W4 Tap swirler
Suitable for a variety of tap sizes. 10 per outer
104845

W4 Aqua cap
Dust cap for use with plastic water containers. Singly or 10 per outer
050049

Hose socket with flap
5 per outer
½"   **051394**
¾"   **051405**
28mm **051408**

Dust caps
10 per outer
⅜" / ½" **051416**
¾"   **051427**

Hose clips

Hose clip (2) Grove packaged
10 per outer
OOO/MOO (8-16mm)   **070249**
OO (12-22mm)   **051246**
OX (16-27mm)   **051268**

Hose clips (2) W4 packaged
10 per outer
OOO/MOO (8-16mm)   **104832**
OO (12-22mm)   **104833**
OX (16-27mm)   **104834**
1X (25-45mm)   **104836**

Hose clips bulk
Supplied 100 per bag
OOO/MOO   (8-16mm)   **070255**
OO   (12-22mm) **051257**

Grove PRODUCTS

W4 push fit fittings

Individually packed push fittings for semi rigid tube
All packed 5 per outer

Equal tee
12mm **055202**
15mm **055302**

Equal straight
12mm **055204**
15mm **055304**

Equal elbow
12mm **055203**
15mm **055303**

Two way adaptor
12mm **055275**

Non return check valve
12mm **055273**

Straight reducer
12-8mm **055205**
12-10mm **055220**
15-12mm **055312**

Elbow reducer
12-10mm **055221**

Shut off valve
12mm **055270**

Stem reducer
Female to male
12-10mm **055210**
15-12mm **055215**

Stem enlarger
Female to male
12-15mm **055216**

Stem elbow
12mm **055222**
15mm **055322**

Shut off valve
Stem elbow 12mm
055272

Stem adaptor male
⅜"bsp-12mm **055263**
½"bsp-12mm **055264**

Straight adaptor female
⅜"f-12mm **055238**
½"f-12mm **055232**

Straight adaptor male
⅜"bsp-12mm **055213**
½"bsp-12mm **055214**

Straight adaptor
12mm-½" **055206**

Bulkhead connector
12mm **055212**

Tank fitting assembly
12mm **055266**
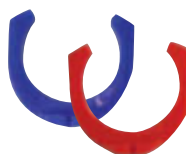
Collet clip 12mm
Blue (5) **055292**
Red (5) **055293**

End plug
12mm **055208**
15mm **055308**

Drain taps
Fresh water food grade. 28mm **051373**
Waste water. 28mm **051374**

Tube cutters
Light duty **055295**

WOW All W4 water fittings are suitable for contact with foodstuffs and drinking water. ISO 9001 and ISO 14001 certified. FDA and WRAS approved. Complying with the requirements of UK water regulation.

Push fit system stand
Not illustrated. Complete with 5 packs of 24 of the best selling items in this range **055299**

Grove PRODUCTS

John Guest Speedfit®

The Speedfit System of fittings and pipe is perfectly designed for hot and cold water systems in touring caravans. The pipe is simply pushed into the fitting to form a safe secure connection. Its flexibility ensures it can be cabled easily around the interior and hidden from view. Ideal due to it's resistance to corrosion and freezing, it can be easily demounted and reused making it very well suited to mobile applications.

Manufactured with food grade nitrile 'O' rings, John Guest Speedfit System is especially produced for foodstuff and potable liquids.

Ensure the pipe is free of score marks. Cut the pipe square. Push the pipe up until the pipe stops. Collet covers help to prevent accidental disconnection of the tube.

LLDPE Tube
12mm OD x 9mm ID
PE-1209-100M-B
Blue 100m roll   **055330**
PE-1209-100M-R
Red 100m roll   **055331**

Collet covers
PM1912E
12mm Black
055346

Equal tee
PM0212E
12mm female   **055333**

Equal straight
PM0412E
12mm female   **055332**

Equal elbow
PM0312E
12mm female   **055334**

Male stem reducer
PM061210E
12mm stem to
10mm female
055336

Male stem elbow
PM221212E
12mm stem to
12mm female
055342
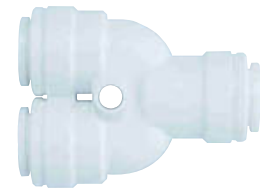
Two way divider
PPM2312W
12mm female
055334A

Male stem to BSP adaptor
PM051514E
12mm stem to 1/2" BSP male
055337
PM051513E
12mm stem to 3/8" BSP male
055338

Female to BSP adaptor
PM011514E
12mm female to 1/2" BSP male
055339
PM011513E
12mm female to 3/8" BSP male
055340

Female to BSP adaptor
CM451214F
12mm female to 1/2" BSP female
055341

Reducing straight
PM201210E
12mm female to 10mm female
055335

Single check valve
12SCV non return valve
12mm
055343

End stop
PM4612E
12mm
055344

Plug
PM0812R
12mm
055345

Drain down system floë

Drain down

The floe system is a simple and cost saving way to drain your water system, protecting it from winter frosts and reducing risk of infection from stagnant water throughout the year. With the simple step by step instructions, you will be guided through the quick and easy process, enabling you to use your leisure vehicle all year round. A matter of minutes draining down your water system will give you peace of mind whatever the season. The drainage kits all come with 1 x Drain down, relevant adaptors and an instructive DVD showing a drain down demonstration.

Drainage kits

Truma Ultraflow	**051980**
Whale	**051984**
Motorhomes	**051988**

Drain down only

Homes, static caravans, and holiday homes **051996**

PLAY ME

WOW Practical Caravan Tourer of the year awards 2012. Recommended Best accessory

Caravan AWARDS 2012
Recommended
Best Accessory
Floë Drain Down System

051996   **051980**   **051984**

051988

Floë Induratec 636

Integrated 12v DC water drain-down system.

Floë 636 has its own patented automated compression system, specifically made for draindowns. Everything is now done from inside your vehicle in only 2 minutes. No more climbing in and out in the cold, wind and rain, so you can drain down whenever and as often as you like.

With the convenient flick of a switch you can have peace of mind that, your property is protected without ever having to pay someone to do it for you. Floë will also cleanse your water system to 99.95%, making way for fresh drinking water.

Weight: 850gms
Dimensions: 20x17x6cms
051991

Floë Induratec 868

Integrated 230v AC water drain-down system.

Floë is easily and permanently fitted to the property, so the only thing the owner needs to do is, turn off the mains water supply, switch Floë on and then start opening and draining taps (faucets), showers and toilets. Everything is now operated from the inside the property, comfortably in the warmth. With its own PCB brain and clever compressor, Floë will automatically stop at the correct pressure and restart automatically after each outlet is drained. Better yet, Floë has been carefully designed to be able to be removed again without trace, so should you change your property, you are free to take Floë with you.

Floe 868 is supplied complete with all fittings required and a full installation and instructional DVD. Bonus chapter includes a full winterisation checklist.

Weight: 1160gms
Dimensions: 20x17x6cms
051992

Grove PRODUCTS

truma Water systems

Ultraflow

> **WOW** The compact shower outlet is the same size as the compact housing but has no electrical terminals.
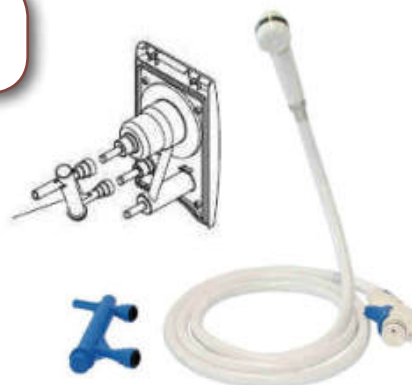
Filter housing assembly
Complete with Ultraflow active carbon filter and blanking plug. The ultraflow housing comes with an exterior accessory point which can be connected (via optional connector) to allow the use of the exterior shower set (optional).
Template size: 108mm x 163mm
White   **846011**
Grey   **846013**
Replacement lid only white **846961**

Compact housing
The Ultraflow compact housing / winter kit is the standard housing for a pump assembly that does not include a filtration system, accessory point or blanking plug.
Dimensions: 143 x 105mm, bore hole 50mm ø
White   **846031**
Grey   **846030**
Replacement lid only white **846974**

Outdoor shower set
The pistol grip of the Outdoor Shower is simply plugged in to the Ultraflow filter housing. After fitting the connector it is ready for use.
For pressurised water systems only
846080
Ultraflow bridge connector **846967**
Shower head only **896800**

Conversion kits
To convert Crystal Mk2 to Ultraflow system whilst enabling the use of the original pump assembly. Kits consist of Ultraflow housing, pistol grip pump connector and filter.
Template size: 108mm x 163mm
White   **846014**

Compact conversion kit
The Ultraflow compact housing with an Ultraflow pistol grip pump connector to allow the user to utilse their existing pump assembly.
Dimensions: 143 x 105mm, bore hole 50mm ø
White   **846034**

> **WOW** A complete range of Truma spares are available in the spares catalogue

Compact shower
Exterior shower housing. For pressurised water systems only
White **846071**
Replacement lid only white **846975**
Shower head only **896800**

Ultraflow pump assembly
This 12v water pump with ergonomically shaped pistol grip is plugged into the Ultraflow filter or compact housing. 9 litres per minute at 3m head at 1.5bar. Tube length 800mm
Pump assembly   **846041**
Twin cut blue hose   **801017**

Ultraflow Inlet hose
Compatible with any Ultraflow housing
846340

Ultraflow Inlet housing
For use only with inlet hose
White   **801037**

Grove PRODUCTS

Ultraflow accessories

Pistol grip pump connector
846977

Ultraflow filter
12 per outer
846020

Filter cap
With O-rings
846964

Blanking plug
With O-rings
846966

Pump connector O-rings (4)
846729

Push fit to flex adaptor
12mm push fit female to ½" flex male
846999

Non return valve
For ½" flexible hose
846900

Non return valve
For 12mm push fit hose
846880

Ultraflow Waterline
A 15 metre 'food quality' hose pipe which comes complete with fittings and a special pressure reducing adaptor which allows caravanners to connect their water system directly to a mains water supply without modification. Compatible with the Ultraflow filter and Ultraflow compact water systems, simply by being plugged into the Ultraflow housing
846090

Other accessories

Reich non return valve
For ½" flexible hose
054368

Reich foot switch
Rectangular brown plastic 12v switch suitable for pump control.
45mm x 60mm x 32mm
054366

Reich non return valve
For 12mm push fit hose
054367

Comet exterior water inlet 12v
Complete with plug set for pump cable and sealing cap for water spout.
58mm x 58mm x 55mm **053005**
Spare plug set **053006**

Comet foot switch
Rectangular biege plastic 12v switch suitable for pump control.
61mm x 63mm x 34mm
053001

Comet foot switch
Round beige plastic 12v switch suitable for pump control.
61mm ø
053001R

Grove PRODUCTS

Reich pumps

Reich pumps are especially durable and powerful. Their durability is enhanced by special high-tech sealing. A patented vent in many pumps speeds delivery once submerged. All pumps are extremely quiet in use and the housing material is resistant to dirt and this makes them easier to clean when necessary.

WOW 055010 15l slimline pump can be used as a direct replacement for the old Carver/Truma Thames pump. It has the same dimensions and specifications.

Reich 15L slimline
12v submersible pump. 1 bar. 40mm ø.
Singly or 10 per outer **055010**
Reich pump and hose assembly
A 76cm length of twin tube blue hose attached to 055010
Singly or 10 per outer **055030**

Reich 14L Easy pump
12v submersible pump. 0.5 bar. 43mm ø
055003
Bulk 30 per outer
055003B

Reich 12L
12v submersible pump. 0.5 bar with automatic vent. 45mm ø
055009

Reich 18L
12v submersible pump. 0.9 bar with automatic vent and strainer. 45mm ø.
Singly or 10 per outer
055014

Reich 15 litre In-line
12v booster pump. 0.5 bar. 48mm ø.
Singly or 10 per outer
055020

Reich Powerjet 22L
12v submersible pump. 1.8 bar with automatic vent. 55mmø
Singly or 10 per outer
055018

Reich twin 19 litre
12v twin submersible pump. 1.4 bar with automatic vent, strainer and non return valve. If one pump fails the TWIN pump will continue to work with reduced power
055017

Flojet pump

Flojet
- Self priming & Dry running
- Soft, noise absorbing mounts
- Snap in port fittings
- Corrosion resistant materials
- Smooth operation without accumulator tank
- Factory pre tested
- 12 months warranty
- H 121 x L 229 x W 152mm, 1.59kg
Retail Boxed   **053007**
Loose packed   **OEM053007**

Specifications			
Volts	Amp Draw @ 10psi (0.7bar)	Flow GPM (LPM)	Pressure switch Max psi (bar)
12V dc	2.2 (5amp fuse)	1.4 (5.3)	30 (2.06)

Motor
Permanent magnet, ball bearing, totally enclosed, fully suppressed.
Pump
Three chamber diaphragm design, self priming up to 9 feet suction lift, pump able to run dry without damage.
Pressure switch
Replacement pressure switch **053009**

Grove PRODUCTS

E

Onboard pumps and accessories SHURflo®

Shurflo pumps
- Range of fully automatic triple diaphragm positive displacement freshwater pumps with integral pressure switch
- Die cast alloy lower housing with twin ball bearing drive
- Motors have internal circuit breaker for overload protection
- Run dry without damage
- Low amp draw and extremely quiet in operation
- Barbed hose adaptor and inlet side strainer (053053) supplied with retail pumps

Pump fittings
½" elbow and straight connectors. Supplied with individually retail boxed pumps.
053053

	Trail King 7	Trail King 7	Trail King 10	Trail King 10	Trail King 10	2088 Series
Voltage	12V	12V	12V	12V	24V	230V
Flow rate (l/min)	7	7	10.6	7	10.6	11.4
Pressure	20 p.s.i. 1.1 Bar	30 p.s.i. 2.1 Bar	30 p.s.i. 2.1 Bar	45 p.s.i. 3 Bar	30 p.s.i. 2.1 Bar	45 p.s.i. 3 Bar
Max current	4.5A	4.5A	4A	4A	3.5A	0.6A
Weight	1.9kg	1.9kg	1.9kg	1.9kg	1.9kg	2.27kg
Retail individually boxed Shurflo No.	**053017** 2095-204-412	**053018** 2095-204-413	**053020** 2095-403-443	**053021** 2095-403-443	**053023** 2095-473-443	**053016** 2088-594-444
OEM 12 per outer Shurflo No.	**053017B** 2095-204-112	**053018B** 2095-204-113	**053020B** 2095-403-143	**053021B** 2095-403-444		

Shurflo filter
Screw-on to ½'" threaded attachment
053034

Shurflo filter
Screw-on filter to ½'" push-on attachment
053035

Shurflo filter
Screw-on filter with wing nut to ½'" threaded attachment
053036

Shurflo filter
Screw-on filter with wing nut to ½'" push-on attachment
053037

Fiamma pumps

FIAMMA®

> **WOW** For full specifications of the Fiamma pump range please see Section S

Fiamma aqua 8 pump
7 Litre	**053025**
10 Litre	**053026**
Pressure switch kit	**053028**

Fiamma aqua F pump
8 Litre	**053027A**
13 Litre	**053027B**

A20 expansion tank
053030

	Aqua 8	Aqua 8	Aqua F	Aqua F
Voltage	12V	12V	12V	12V
Flow rate (l/min)	7	10	8	13
Pressure	21.75 p.s.i. 1.5 Bar	21.75 p.s.i. 1.5 Bar	21.75 p.s.i. 1.5 Bar	21.75 p.s.i. 1.5 Bar
Operating current	1.4A	3.4A	2.0A	2.5A
Weight	1.5kg	1.5kg	1.4kg	2.2kg
Noise	55/60 db	65/70 db	50 db	50 db
Part No.	**053025**	**053026**	**053027A**	**053027B**

Grove PRODUCTS

Comet taps

Comet Novo single
Complete with microswitch. Cable length 300mm. Overall tap height 40mm. Maximum pressure 3 bar

Two tone beige	**053970**
Spare spout beige	**053974**
Microswitch	**053979**

Comet Novo mixer tap
Mixer tap complete with microswitches. Cable lengths 300mm. Overall tap height 40mm. Maximum pressure 3 bar

Two tone beige	**053972**
Spare spout beige	**053974**
Microswitch	**053979**

Smev / Comet Florenz
Single lever mixer complete with microswitch. Cable length 600mm. Overall tap height 40mm. Maximum pressure 3 bar. Installation hole 33mm

Chrome	**091240**

Reich taps

Deluxe mixer tap
Mixer tap complete with microswitch. Cable length 300mm. Overall tap height 40mm. Maximum pressure 3 bar

Matt nickel	**054233**
White	**054234**
Microswitch	**054274**
Spare spout matt nickel	**054067**

Mini deluxe single
With a slightly smaller control knob and same spout as standard deluxe. Installation hole 16mm (standard deluxe is 20mm)

Matt nickel	**054215**
Microswitch	**054274**

Deluxe single
Complete with microswitch. Cable length 300mm. Overall tap height 40mm. Maximum pressure 3 bar. Installation hole 20mm

Matt nickel	**054222**
White	**054223**
Microswitch	**054274**
Spare spout matt nickel	**054067**

Style 2005
Single lever mixer complete with micro-switch. Cable length 300mm. Overall tap height 40mm. Maximum pressure 3 bar. Installation hole 20mm

Chrome	**054270**
Microswitch	**054274**
Spare spout matt nickel	**054320**
Spare spout chrome	**054321**

Keramik style
Single lever mixer tap complete with microswitch. Cable length 600mm. The spout raises and lowers vertically. Ceramic cartridge. Overall tap height 40mm. Maximum pressure 6 bar. Installation hole 33mm

Chrome	**054306**
Microswitch	**054274**
Spare spout matt nickel	**054320**
Spare spout chrome	**054321**

Keramik deluxe
Single lever mixer. Same features as Twist but has ceramic sealing and regulating discs instead of a ceramic cartridge.

Chrome	**054307**
Microswitch	**054274**

Grove PRODUCTS

Reich taps

Twist 90° elbow
Single lever mixer tap complete with microswitch. Cable length 600mm. The spout raises and lowers vertically. Ceramic cartridge. Overall tap height 40mm. Maximum pressure 6 bar. Installation hole 39mm.

Chrome left hand 90° elbow	**054297**
Microswitch	**054303**
Spare spout chrome	**054321**

Twist
Single lever mixer tap complete with microswitch. Cable length 600mm. The spout raises and lowers vertically. Ceramic cartridge. Overall tap height 43mm. Maximum pressure 6 bar. Installation hole 50mm. Right hand illustrated

Matt nickel left hand	**054301**
Matt nickel right hand	**054296**
Chrome left hand	**054302**
Chrome right hand	**054304**
Microswitch	**054303**
Spare spout matt nickel	**054320**
Spare spout chrome	**054321**

Twist table top
Microswitched single lever mixer tap that can be used with a variety of shower sets. Any stardard ½" hose will connect to the outlet. Complete with microswitch. Cable length 600mm. Maximum pressure 6 bar. Installation hole 39mm

Table top version	**054299**
Microswitch	**054303**

Twist under-table top
As above but the shower hose connects under the surface where the water inlet pipes connect

Under table top version	**054298**
Microswitch	**054303**

Trend S
Single lever mixer tap featuring premium plastic parts for lightness and brass lever and spout for the highest quality finish. Spout rotates 360°. Comes with microswitch. Cable length 600mm. Maximum pressure 6 bar. Spout length 315mm. Installation hole 33mm

Chrome	**054266**
Microswitch	**054311**

Kama
Single lever mixer tap complete with microswitch. Cable length 600mm. Ceramic cartridge.
Installation hole 33mm

Chrome	**054275**

Installation hole 27mm

Chrome	**054279**
Microswitch	**054287**

Kama with Julia shower
Single lever mixer shower tap complete with microswitch with 600mm cable. Can be used as a normal tap or shower tap. Maximum pressure 6 bar

Chrome	**054285**
Microswitch	**054287**

Charisma
Single lever mixer tap with a 160mm outlet spout that rotates 360°. Complete with microswitch. Cable length 600mm. Ceramic cartridge. Maximum pressure 6 bar. Installation hole 30-35mm

Chrome	**054293**
Microswitch	**054295**

Ceramic cartridge

1. Caraflo 35mm ø	**054452**
2. Reich 35mm ø	**054312**
3. Reich 25mm ø	**054312A**

Spare spouts

Chrome	**054321**
Matt nickel	**054320**
Chrome for Kama tap	**054322**
'o' ring for spout	**054247**

Grove PRODUCTS

Reich taps

Samba Chrome tap
Single lever tap complete with microswitch.
Fits Smev and Thetford sinks with lids.
Overall tap height 40mm.
Maximum pressure 6 bar.
Installation hole 33mm.
Available in both single and mixer variants with a choice of connectors as below.

054305B
Flexi 1/2" hose
Single tap

054305E
Flexi 1/2" hose
Mixer tap

28.5cm length hose

WOW
Bulk packs available

054305C
Uni-Quick 12mm push fit
Single tap

054305F
Uni-Quick 12mm push fit
Mixer tap

25cm length hose

054305A
Nozzle
Single tap

054305D
Nozzle
Mixer tap

Spare microswitch	**054303**
Spare ceramic cartridge	**054312A**

Trend A
Single lever mixer complete with microswitch. Cable length 600mm. Overall tap height 40mm. Maximum pressure 3 bar. Installation hole 27mm

Chrome	**054260**
Microswitch	**054274**

Trend E
Single lever mixer tap with a brass lever and a lightweight plastic body. Ceramic cartridge can be replaced without removing the tap. Complete with microswitch. Cable length 600mm. Maximum pressure 6 bar. Spout length 134mm.
Installation hole 33mm Chrome
054268
Installation hole 27mm Chrome
054268A

Spout chrome	**054269**
Microswitch	**054311**

Pelikan
Single lever mixer tap complete with microswitch. Cable length 600mm. Spout rotates 360° for versatility. Ceramic cartridge. Maximum pressure 6 bar. Installation hole 33mm

Chrome	**054290**
Microswitch	**054311**

Vector E
Single lever mixer tap complete with microswitch. Cable length 600mm. Ceramic cartridge. Max pressure 6 bar. Installation hole 33mm. Height 199mm
Chrome/White **054238**

FOLDS DOWN

Trend B
Single lever mixer tap supplied with a 360° swivelling metal spout. Spout length 200mm. Folds down into bowl to a height of 40mm Comes with microswitch. Cable length 600mm. Maximum pressure 3 bar. Installation hole 27mm

Chrome	**054263**
Microswitch	**054274**

Keramik concept S
Single lever mixer tap with a flat spout that avoids dripping of residual water. Spout swivels 360°. Comes with microswitch. Cable length 600mm. Maximum pressure 6 bar. Installation hole 33mm

Chrome	**054313**
Microswitch	**054287**

Vector S
Single lever mixer complete with microswitch. Cable length 600mm. Max pressure 6 bar. Installation hole 33mm. Height 199mm

Chrome	**054241**
Chrome/Black	**054242**

Grove PRODUCTS

E

Caraflo taps

Milana
Single lever basin mixer tap.
Installation hole 30mm

Spout length*	Colour	Part No.
120mm	Chrome	**054400**
160mm	Chrome	**054403**
180mm	Chrome	**054406**
180mm	Nickel	**054409**
240mm	Chrome	**054412**

WOW All Caraflo taps are supplied without tails to enable the customer to select which tails they require - see below. They are designed for a pressure-switched system. *Spout length is measured from the front of the tap to the centre of the flow of water along the horizontal.

Modesta
Single lever basin mixer tap.
Installation hole 30mm

Spout length*	Colour	Part No.
160mm	Chrome	**054415**

Caraflo shower taps

Elisa
Single lever pull out mixer tap. Installation hole 40mm
Chrome **054430**

Mila
Single lever shower mixer tap. Installation hole 30mm
Chrome **054427**

Moda
Single lever shower mixer tap. Installation hole 30mm
Chrome **054424**

Tap tails

SP200   SP210   SP220   SP230

Caraflo tap tails

Model	Connection	Length	Part No.
SP200	12mm male nylon	350mm	**054440**
SP210	12mm cone (½") SS	220mm	**054443**
SP220	12mm female nylon	350mm	**054446**
SP230	15mm female nylon	390mm	**054449**

Sun shower rail sets
Riser rail, 1.5m hose, and Sun shower head plastic
054459
Wall bracket, 1.5m hose, and Sun shower head plastic
054462
Double lock 1.5m shower hose
054475

Shower head & hose
Chrome three settings plastic shower head with 1.5m hose
054512

Konus wall bracket
054331

Reich metal shower hose 1.5m
½" to ½"	**054328**
½" or ⅜" to ½"	**054329**

Grove PRODUCTS

Shower heads and accessories

Ecocamel shower heads
Water and energy saving shower heads. Patented technology increases the water flow from the showerhead. You get the same powerful shower as a full flow shower, but you use up to 45% less water. Using less water means you automatically use less energy to heat it - so you can help save the environment, whilst cutting your bills in the process.
Fantastic for caravans and motorhomes!
● Reduce the need to refill water tanks, or to empty waste tanks.
● With typical 10-14L water heater tank capacity in leisure vehicles, the Ecocamel range makes this equal to a 14-20L tank.
● Less power consumption means fewer gas bottles purchased.

ECOCAMEL
POWERFUL PRODUCTS POWERFUL SAVINGS

WOW Using Ecocamel you get the same powerful shower as a full flow shower, without using more water.

Jetstorm E
(twin venturi)
054525

Orbit
054528

Carisma
Plastic lever shower head
054325
O ring for Carisma shower head
054327

Sun
Plastic shower head
054468

Kama julia
Plastic shower head
054323

Trigger
Metal lever shower head
054465

Shower and bathroom accessories

W4 towel rail
Compact rail with non slip covering and hanging hooks.
Singly or 10 per outer
095594

Chrome towel rail
Includes screws and fittings.
050906

Chrome towel ring
Includes screws and fittings.
050905

W4 3 way towel grip
Complete with screw covers and stainless steel screws.
Singly or 10 per outer
099041

W4 concept towel ring
Designed with the confined space of caravan and boat washrooms in mind yet still large enough to hold a bath towel.
Complete with screw covers and stainless steel screws.
Singly or 10 per outer
095596

Grove PRODUCTS

Shower and bathroom sinks and accessories

E

W4 toilet roll holder
Plastic holder with special mechanism to prevent roll unravelling whilst towing. Large self adhesive fixing pad.
Singly or 10 per outer
060351

W4 toothbrush holder
Compact 4 way toothbrush holder complete with screws.
Singly or 10 per outer
050916

Beaker & holder chrome
Includes screws and fittings.
050904

W4 Mini loo brush 2
A compact brush and holder designed for use with caravan/boat toilets. The brush easily clips into the wall mounted holder to keep it secure in transit. Singly or 10 per outer
060346

Fiamma toilet brush
Toilet brush with container for all types of toilet. Complete with self-adhesive strips
060347

Chrome toilet roll holder
050902

W4 2 way robe hook
Complete with screws.
Singly or 10 per outer
099040

Chrome soap holder
Includes screws and fittings.
050903

Fiamma dispenser
Elegant - Practical - Useful 200ml refillable liquid dispenser (100 doses) ideal for soap or shampoo.
Dimensions: 15 x 8 x 5.5cm
050913

Shower curtain
White. Superior quality. Waterproof.
Size 71" x 71".
6 per outer
050945

W4 Hold steady
Stops tins, jars, bottles, aerosols from rolling around. Can be used vertically or horizontally
095883

Double robe hook chrome
Includes screws and fittings.
050907

W4 soap holder
Comes with clip on drip tray. Complete with screws.
Singly or 10 per outer
050915

Tip up basin
Size HxWxD:
Open: 345 x 500 x 170 mm
Closed: 200 x 500 x 320 mm
050630

Vanity unit
Manufactured from high impact polystyrene. Features a twin mirror sliding door with travel lock and useful shelf with retainer
Size HxWxD: 550 x 515 x 100mm
050899

Grove PRODUCTS

Sinks and shower trays

Vanity bowl ivory
Pre-drilled to take any 3/4" sink wastes
Dimensions: 508 x 286mm
050777

Vanity bowl beige
Pre-drilled to take any 3/4" sink wastes
Dimensions: 508 x 286mm
050773

Vanity bowl white
Sink waste not pre-drilled
Dimensions: 520 x 356 x 138mm
050770

Corner bowl 11"
11" corner bowls are pre-drilled to
take any ¾" sink wastes(not supplied)
White   11"   **050816**
Ivory   11"   **050818**

Corner bowl 14"
14" bowls are pre-drilled to take 1 ¼"
sink wastes (not supplied)
White   14"   **050860**
Ivory   14"   **050861**

Shower tray
Dimensions: 584 x 584 x 127mm
Ivory   **050930**
White   **050930W**

C220/260 shower trays
Moulded to fit the C220 & C260 range of cassette toilets
Left hand
Dimensions:1070 x 700mm   **050934**
Right hand as shown
Dimensions: 1160 x 700mm   **050935**

C200 shower trays
Moulded to fit the C200 range of cassette toilets
Left hand as shown
Dimensions: 1030 x 670mm   **050932**
Right hand
Dimensions: 1020 x 700mmm   **050933**

Stainless sinks

Stainless steel sink and drainer
21¾"x 14"
050534

Smev VA936 sink & drainer
With AC 540 siphon and rubber seal.
W590 x D370 x H125mm
091236

Vehicle bowl
12" x 10½' Stainless steel with lip. Bowl
9½" tapering to 7" ø base. Depth 5"
050523

Bezel (seal)
By Thetford 2100mm
091159A

Grove
PRODUCTS

Sinks

Basic Line 30
25mm waste outlet, plug, seal and lid included.
Dimensions:
Cut out: Ø390mm.
Overall: Ø405 x D145mm
Inside bowl: Ø328 x D93mm
091158A

Basic Line 33
25mm waste outlet, plug, seal, 35mm tap hole and lid included.
Dimensions:
Cut out: 460 x 460mm.
Overall: H140 x W480 x D480 mm
Inside bowl: H92 x W455 x D276mm
Left hand   **091155B**
Right hand   **091155A** as shown

Basic Line 34
25mm waste outlet, plug, seal, 35mm tap hole and lid included.
Dimensions:
Cut out: 387 x 429mm.
Overall: H140 x W400 x D445 mm
Inside bowl: H92 x W338 x D280mm
091158C

Series 23 spun bowl
25mm waste outlet, plug, seal and lid included.
Dimensions:
Cut out: Ø405mm.
Overall: Ø460 x D123mm
Inside bowl: Ø397 x D123mm
091158B

WOW Suitable taps for sinks with lids:
Florenz, Style and Keramik page 107
Twist page 108
Samba and Trend A page 109

Argent bowl
19mm waste outlet, plug, seal and lid included.
Dimensions:
Cut out: 335 x 430mm.
Overall: H153 x W360 x D470 mm
Inside bowl: H99 x W290 x D368mm
091160B

Argent sink
19mm waste outlet, plug, seal and lid included.
Dimensions:
Cut out: 605 x 415mm.
Overall: H152 x W630 x D470 mm
Inside bowl: H99 x W290 x D368mm
Left hand   **091153S** as shown
Right hand   **091152S**

Argent Kitchen centre kit
Includes plastic bowl, plastic chopping board, plastic drainer and cutlery rack (inc fixings)
091153K

Bezel (seal)
By Thetford 2100mm
091159A

Grove PRODUCTS

Sinks

Smev 8005
Includes AC 540 siphon and rubber seal.
Tap not included, includes pre-drilled
tap hole (39mm).
W420 x D370 x H145mm
Built in dimensions
W405mm x D355mm
091234

> **WOW**
> Suitable taps for sinks with lids:
> Florenz, Style and Keramik page 107
> Twist page 108
> Samba and Trend A page 109

Sink and shower waste outlets

1¼" straight outlet
5 per outer
¾" outlet   **051042**
28mm outlet   **051045**

¾" straight outlet
5 per outer
Plastic top   **051086**

¾" straight outlet
5 per outer
Stainless steel top **051097**

1¼" angled outlet
5 per outer
¾" outlet   **051064**
28mm outlet   **051067**

¾" angled outlet
5 per outer
Plastic top   **051108**

¾" angled outlet
5 per outer
Stainless steel top **051119**

**W4 Sink waste strainer
white**
10 per outer
051078

**W4 Sink waste strainer
chrome**
10 per outer
051078C

Sink waste plug (2)
10 per outer
⅞" **051227**

Sink waste plug
10 per outer
1¼ "   **051075**

W4 Sink waste plug
1½" to fit 1¼" wastes
10 per outer
051076

**W4 Universal sink waste
plug**
10 per outer
051077

Grove PRODUCTS

Rinsekit

WOW RinseKit LUX has 50% more spray time than the original RinseKit

RinseKit

A portable pressurised shower with no pumping and no batteries. It fills with 2 gallons of water from a household tap and delivers a pressurised spray.

Simply stores the water pressure from your home for later use. Water pressure from your tap enters the RinseKit, and compresses the air in the pressure chamber. When you close the valve, that pressure is trapped inside and acts like a spring to force the water through the hose and out of the nozzle. It is possible to fill it with hot water and it will stay warm for up to 6 hours.

A multitude of uses around the car, caravan, motorhome or home.

Comes complete with 1.8m hose, relevant hose connections and shower head.

Dimensions (HxWxD)
35.5 x 43.5 x 30.5cm
054555

RinseKit LUX

The Rinsekit LUX has a soft tote design. It has 50% more spray time than the original RinseKit (up to 8 minutes on the center setting) and is full of features. The hot water tap adapter is included!

The Eon™ pressure chamber has two 1 inch accessory ports to accommodate RinseKit's accessories.

The LUX has two outside pockets, a shoulder strap, a quick access double zipper top and 2 side handles for convenience when loading it into a vehicle. Adding to it's versatility, the LUX tote doubles as a soft cooler. The full zip top allows the pressure chamber to be easily removed allowing the tote to be the perfect cooler.

Dimensions (HxWxD)
32 x 43 x 38cm
054556

RinseKit 12v heater

Plugs into a cigarette lighter with a long cord. Built in timer and auto shut off switch for safety. The stainless steel heating probe screws into the drain plug hole of the RinseKit and does not need to be removed use after use. A hot shower just about anywhere!

- 12v 9A
- 8' long power cord
- 30–60-90 minute timer
- Automatic safety shutoff
- One year warranty
- Stainless steel probe

Includes; heating probe, controller plug, wrench, thread adapter and instructions
054557

RinseKit field refill kit

Allows the user to fill the RinseKit when there is no access to a tap or hose. Simply fill the filling bag with water and pressurise using a bycycle pump (not supplied).
054558

RinseKit hot water tap adaptor

Allows the user to screw the filler hose directly to the tap, which could allow filling with hot or cold water.
Supplied as standard with RinseKit LUX.
054559

Grove PRODUCTS

Mud Daddy ®

Portable mud and dirt washing brush ideal for grooming muddy dogs - but also suitable for use on bikes, boots, tools and virtually any other muddy item under the sun that needs cleaning quickly and easily. Also a perfect portable shower for camping etc.

The Mud Daddy Washing Brush works without electric or battery power, using a combination of water and air pressure to deliver the power you need the all-natural way.

You can fill up your Mud Daddy with hot or cold water, or mix with miniature shampoos.
The gentle low pressure which combined with the brush will remove any dirt or mud.
15-20 hand pumps will give you approximately 3 minutes of washing.
It uses 90% less water than a hose pipe and 80% less water than a jet wash.

- No noise (Perfect for washing animals)
- Super portable & Compact
- Environmentally friendly
- No need for batteries or electric power
- Can be filled with hot water and even mix in a little shampoo
- Perfect for showering, whilst camping, at festivals, etc
- Bulit-in sprayer brush with locking trigger
- 1 year product replacement guarantee

Mud Daddy 5L
With 5L tank capacity you can expect 10-12 minutes of washing time.
15-20 hand pump will give you approximately 3 minutes of wash.
With 1.2m hose.
HxWxD: 23 x 16.5 x 34 cm
Green (JoJo)   **054550G**
Orange (Ozzi)   **054550OR**

Mud Mummy 5L
With 5L tank capacity you can expect 10-12 minutes of washing time.
15-20 hand pump will give you approximately 3 minutes of wash.
With 1.2m hose.
HxWxD: 23 x 16.5 x 34 cm
Pink (Roxy)   **054550P**

Mud Daddy 8L
With 8L tank capacity you can expect 16-19 minutes of washing time.
15-20 hand pump will give you approximately 3 minutes of wash.
With 2m hose.
HxWxD: 20 x 20 x 30 cm
Blue (Otis)   **054551B**
Yellow (Chico)   **054551Y**

Mud Daddy 12L
Portable washing brush
With a larger 12L working capacity tank, for longer washing tasks. Adjustable metal handle with soft grip. Large funnel shaped cap for easy refill and pressure release valve. With 2.2m hose.
HxWxD: 88 x 27 x 30 cm
Purple   **054552P**
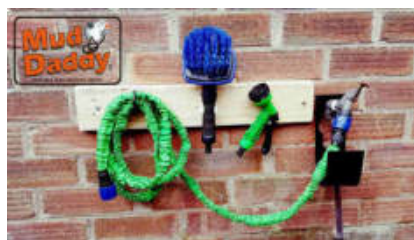
Expandable hose set
Expands up to three times its original length and shrink back at end of the usage. Easy connect/disconnect connector for nozzle and brush change.
Mud Daddy expandable hose set includes:
- 25ft expandable hose with an easy connector on both ends
- Hand wash brush
- 6 pattern nozzle shower head
- Heavy duty metal hanger
- Tap connector
054553HS

Mud Daddy spare brush
Built-in sprayer brush. Easy to connect/disconnect. Durable, good quality brush with on/off locking trigger
054553

Detangling brush
Mud Daddy detangling and deshedding brush. It works great on medium and long hair dogs. Special design removes loose hair, knots and dirt. De-sheds undercoat on wet or dry dogs. Easy grab design.
HxWxD: 12.5 x 7 x 5.5 cm
Blue   **054553BB**
Red   **054553BR**

Grove
PRODUCTS

Water spare parts

ULTRAFLOW			
846961 UF housing lid white	**846973** UF compact housing lid ivory	**846974** UF compact housing lid white	**846975** UF shower housing lid white
846041 UF water pump assembly	**846020** UF replacement filter	**846964** UF filter cover & O-ring	**846967** UF bridge connector
846966 UF blanking plug & O-ring	**846729** UF O-ring 25 x 2 mm (4)	**846090** UF waterline	**801037** Water inlet
898600 UF pressure switch	**801017** Twin cut blue hose	**846999** UF adaptor Pushfit to flex	
801039 C2 Pressure release	**801470** Drain plug & o-ring > 1987	**801022** Drain plug o ring (2)	**053009** Flojet pressure Switch
801036 Water inlet & non-return valve	**801026** Hot water outlet fulham		

Grove PRODUCTS

THETFORD

Aqua Kem blue original
Thick non-drip toilet fluid, use 150ml per 20 litre holding tank capacity
- Lasts up to 65 days average use
- 13 doses

6 per outer   2 litre   **060301**

Concentrated
2.5 times concentrated, use 60ml per 20 litre holding tank capacity
- Less weight, less space, same number of doses

12 per outer   780ml   **060301C**

Aqua Kem blue lavender
Thick non-drip toilet fluid, use 150ml per 20 litre holding tank capacity
- Lasts up to 65 days average use
- 13 doses

6 per outer   2 litre   **060301L**

Concentrated
2.5 times concentrated, use 60ml per 20 litre holding tank capacity
- Less weight, less space, same number of doses

12 per outer   780ml   **060301LC**
24 per outer   120ml   **060302A**

Aqua Kem green
Biological toilet fluid, use 150ml per 20 litre holding tank capacity
- Safe to empty in septic tank (Test ISO 11734)
- Lasts up to 40 days average usse
- It remains liquid up to -20°C and remains active after defrosting

6 per outer   1.5 litre   **060305**

Concentrated
2 times concentrated, use 75ml per 20 litre holding tank capacity
- Less weight, less space, same number of doses

12 per outer   750ml   **060305C**

Aqua Rinse plus original
Use 100ml per 15 litre of flush tank capacity. Provides a more effective flush, and keeps the flush water fresh and clean.
- Septic tank safe.
- Leaves a protective film in the bowl that prevents deposit from forming
- The lubrication action makes the blade of the waste-holding tank easier to open and close

6 per outer   1.5 litre   **060282**

Concentrated
2 times concentrated, use 50ml per 15 litre of flush tank capacity.
- Less weight, less space, same number of doses

12 per outer   750ml   **060282C**
24 per outer   100ml   **060283A**

Aqua Rinse Spray
- Specially designed for toilets without an integrated flush water tank
- Leaves a protective film in the bowl that prevents deposit from forming
- The lubrication action makes the blade of the waste-holding tank easier to open and close
- Septic tank safe

500ml   **060283** 9 per outer

Aqua Kem blue sachets
One sachet per 20 litre holding tank capacity
- Easy to use: sachets completely dissolve in water
- Highly concentrated
- Suitable for winter camping
- One dose lasts 4 to 5 days with average use

15 per tub, 6 per outer   **060307**

Aqua Kem green sachets
Biological water-soluble sachets , one sachet per 20 litre holding tank capacity
- Powerful sachets for the waste holding tank
- All the benefits of Aqua Kem Green in a sachet!
- Safe to empty in septic tank (Test ISO 11734)
- 4 days with average use

15 per tub, 6 per outer   **060306**

WOW
Thetford point of sale material packs available annually please speak to your sales contact for more details

Thetford Duo Pack
- 1.5 litre Aqua Kem blue
- 1.5 litre Aqua Rinse Plus
- Sold in a retail pack with handy carry handle

3 per outer   **060298**

Concentrate Duo Pack
- 0.78 litre Aqua Kem blue
- 0.75 litre Aqua Rinse Plus
- Sold in a retail pack with handy carry handle

6 per outer   **060298A**

Grove PRODUCTS

THETFORD
Maintenance products

Aqua Soft tissue
- Dissolves quickly to prevent clogging
- Easier to empty waste-holding tank
- Prevents malfunctions or damage to the waste-holding tank
- Super-soft

12 per outer
4 pack   **060312**

Toilet Bowl cleaner
- Removes hard water and soil deposits while safe for plastic and toilet seals
- Descaling to ensure a smooth bowl, preventing soil build up
- For an ultra-clean and hygenic toilet bowl
- Thoroughly cleans leaving a lovely fresh scent behind

9 per outer
750ml   **050037**

Cassette Tank cleaner
- Thoroughly cleans the inside of the waste-holding tank
- Easily removes stubborn calcium deposits
- No scrubbing required
- Prolongs life span of waste-holding tank
- Pleasant fresh scent

12 per outer
1 litre   **060325**

Seal Lubricant
- Protects, lubricates, ensures pliability
- Developed for safe lubricating of Thetford toilet parts
- Absolutely safe for plastics, no colouring on plastic parts
- Ensures smooth operation of valve blades and other items

12 per outer
200ml   **060355**

Grey Water Fresh
10 doses per bottle
- Prevents nasty grey water smells coming from the drains
- Reduces deposit formation in the grey water tank
- Outstanding grey water odour control
- Odour free discharging of the grey water tank
- Safe for all plastics

12 per outer
700ml   **050038A**

Bathroom cleaner
- Powerful cleaning agent for daily maintenance
- Safe for all plastic surfaces, including the outside of the toilet
- Guarantees perfect hygiene
- Active foam removes calcium deposits
- Gives a lovely shine

9 per outer
500ml   **098320**

Trigano Activ

ACTIV by **TRIGANO THETFORD**

Activ rinse
Use 70ml per 10 litre of flush tank capacity. Provides a more effective flush, and keeps the flush water fresh.
- Leaves a protective film in the bowl that prevents deposit from forming
- The lubrication action makes the blade of the waste-holding tank easier to open and close

6 per outer
2 litre   **060245**

Activ blue
Thick non-drip toilet fluid, use 60ml per 10 litre holding tank capacity
- One dose lasts 3-4 days with average use

6 per outer
2 litre   **060246**

Activ green
Biological toilet fluid, use 60ml per 10 litre holding tank capacity
- Safe to empty in septic tank
- One dose lasts 3 days with average use
- It remains liquid up to -20°C and remains active after defrosting

6 per outer
2 litre   **060247**

Grove PRODUCTS

B-Fresh

WOW Three year shelf life for great value.

WOW Amazing quality at an unbelievable price!

B-Fresh pink
Multi purpose flush water tank additive for chemical toilets. Keeps your flush water fresh, takes care of a smooth flush, prevents scale and lubricates the seals. Also improves your toilet hygiene with a floral scent.
4 per outer
2L **060251**

B-Fresh blue
Waste tank additive for chemical toilets. Stops unpleasant smells with citrus scent, reduces gas build up and quickly breaks down toilet waste.
4 per outer
2L **060253**

Fenwick's

FENWICK'S

Fenwicks top & tail
A unique toilet fluid designed for use in both top and bottom tanks which makes it simpler to use and more economical. Save space by carrying only one bottle.
8 per outer
2.5 litre **060266**

Waste pipe & tank cleaner
Cleans shower and sink drains, toilet cassettes, and eliminates unpleasant odours. Dilute to a 10:1 solution to clean hard surfaces. Fully biodegradeable and food safe, kills e-coli, salmonella and other germs. Also removes nicotine, egg, limescale, formaldehyde, and other hard to remove stains
15 per outer
1 litre **097063**

Happy Bowl toilet bowl liners

FIVE REASONS WHY YOU WILL LOVE

1. THEY'RE HYGIENIC
2. THEY'RE BIODEGRADEABLE
3. THEY REDUCE WATER USAGE
4. THEY REDUCE ODOUR WITH A FAST FLUSH
5. THEY WORK

WOW Now includes counter display as standard

Biodegradeable toilet bowl liners. Use them to line your caravan, motor home, or portable toilet. Simply flush the toilet after use, and the bowl liner and contents are flushed away, leaving your bowl clean and fresh.
12 packs per outer
50 per pack **060311D**

Grove PRODUCTS

Elsan

Elsan blue
Elsan Blue's powerful anti-bacterial formula kills germs and eliminates odours. British Standard 2893:2005
2 litre **060362** 8 per outer
4 litre **060373** 4 per outer

Elsan twin pack
1L blue and 1L rinse fluid
12 per outer
2 x 1 litre **060375A**

Elsan Blue bags
Quickly dissolves in water, kills the bacteria and eliminates odours whilst imparting a pleasant fragrance. And because each sachet contains an exact dose, no measuring is required. Clean, safe and easy to use, Blue Bags provide the ultimate in performance and reliability.
12 per outer
18 per pack **060332**

Elsan pink
Elsan Pink keeps the toilet fresh and removes bad odours when the toilet is flushed. It is anti-bacterial so it prevents algae build-up in your flush tank. It also lubricates and cleans the bowl.
2 litre **060365** 8 per outer

Elsan organic toilet fluid
Elsan Organic biological toilet fluid works in a completely different way to conventional toilet fluids. By dissolving waste and removing odours naturally, with no chemical smell it has a delightful mild fragrance. It can be used in both flush and waste tanks. It can be safely used in septic tanks.
400ml **060356** 24 per outer
2L **060359** 4 per outer

Elsan double concentrated
Double concentrated to give you the same Elsan performance and reliability on which you've always relied. Now however you only need to use half the quantity giving you a big saving on each dose. British Standard 2893:2005

Double Blue
24 per outer
400ml **060376**
12 per outer
1 litre **060378**

Double BOGOF
2L blue double concentrate and 2L rinse double concentrate fluid
4 per outer
2 x 2L **060375**

Double Rinse
24 per outer
400ml **060377**
12 per outer
1 litre **060379**

Elsan

Elsan bristol toilet
Close in height to a household toilet, the Bristol is made from high grade easy-to-clean plastic.
It features a removable inner container with close-fitting anti-spill lid, a strong, full size seat and lid together with quick release floor fixings, and strong nylon coated carrying handle.
HxWxD 432x362x437mm
Capacity 21 litres
060205

Elsan Tank Clean
Leaves the fresh water tank free from micro-organisms and black spot. It also removes calcium and other deposits that can eventually clog the system. Tank Clean contains no chlorine.
12 per outer
1 litre   **050035**

Elsan Tank Fresh
Eliminates grey water odour. Dissolves grease. Helps keep the system fresh, clean and free flowing. Add a little Tank Fresh to your water drains to get rid of stale odours
8 per outer
2 litre   **050040**

Fiamma

Super Kem blue
The most powerful detergent for fixed and portable chemical toilets. Disintegrating, deodourising, sanitizing, pleasantly scented fluid. Contains anti-freeze to work at temperatures down to -20°C
6 per outer
2 litres   **060389**

Super Rinse
Scented anti-mildew bactericide for chemical toilet fresh water tanks. Effective against algae, cleans and protects.
10 per outer
1 litre   **060393**

Fiamma soft toilet tissue
It won't clog up tanks or waste valves. Special 2-ply soft toilet tissue, formulated for chemical toilets. Stronger and softer tissue dissolves quickly in water. 300 sheets per roll.
10 per outer
6 per pack **060388**

Fiamma toilet brush
Toilet brush with container for all types of toilet. Complete with self-adhesive strips
060347

Small Bi-Pot 30
HxWxD 300x345x435mm
Flush tank 10 litres
Waste tank 11 litres
056948

Medium Bi-Pot 34
HxWxD 340x360x435mm
Flush tank 15 litres
Waste tank 13 litres
056949

Large Bi-Pot 39
HxWxD 392x360x435mm
Flush tank 15 litres
Waste tank 20 litres
056950

Bidet Universal
Fits neatly into all Bi-Pot types, also adapts to Thetford Porta Potti, and Cassette 1, 2, 3 and 4 toilets
056953

Bidet 200
Fits neatly into Thetford Cassette C200, C250, C260 and Dometic CT3000 toilets
060100A

Portable toilets

THETFORD **Porta Potti range** - 3 year warranty. Integrated cover lock for easy transportation, with recess for opening. The smooth lines and subtle curves are not just important to the appearance of the toilets, but also provide optimum comfort and ease of use. An improved blade opener. A new more comfortable handle on the waste holding tank.

Porta Potti

Hold down kit for PP335
057130

| Porta Potti 145 | Porta Potti 165 | Porta Potti 335 | Porta Potti 345 | Porta Potti 365 |

Part no.	Porta Potti Model	Body Colour	Dimensions H x W x D	Pump Type	Level Indicator	Waste tank	Flush Tank	Pack size
056966	145	White	330 x 383 x 427	Bellows	No	12L	15L	All Porta Potti toilets are available singly or 5 per outer
056968	165	White	414 x 383 x 427	Bellows	No	21L	15L	
056970	335	White	315 x 342 x 382	Piston	Waste	10L	10L	
056971	345	White	330 x 383 x 427	Piston	Waste	12L	15L	
056973	365	White	414 x 383 x 427	Piston	Waste	21L	15L	

Porta Potti

Part no.	Porta Potti Model	Body Colour	Dimensions H x W x D	Pump Type	Level Indicator	Waste tank	Flush Tank
056980	565P	White	458 x 388 x 450	Piston	Waste / flush	21L	15L
056981	565E	White	458 x 388 x 450	Electric	Waste / flush	21L	15L

Porta Potti accessories

056978　　　　　　　**056979**

Porta Potti bags
Two handles, durable zip, sturdy material, interior gloss finish for easy cleaning. Machine washable (to 40˚C).
For 65 toilets　　　　　　**056978**
For 35 or 45 toilets　　　　**056979**

056983　　　　　　**057130**

Floor plates
Floor plate to enable you to mount the Porta Potti 565 or 335 to the floor. Helps to prevent accidental movement of the toilet. The toilet simply detaches from the floor plate for emptying. Ideal for boats or home use. Can also be ordered for 165 and 365
Porta Potti 565 plate **056983**
Porta Potti 335 plate **057130**

Grove PRODUCTS

Cassette toilets **THETF✷RD**

Toilets with their own flush water tanks

Flush water is drawn from the toilets own fresh water tank. *Cassette toilets no longer come with the service door 3, please choose your door on p121 if required.*

Swivel bowl toilets

C224-CW

C262-CWE

Flush water fill doors are required for swivel bowl toilets with their own flush tank. Available in various colours. Comes with lock and keys.
White   **060084A**
Cream   **060173**
Light Grey   **060084B**
Dark Grey   **060084C**

Part no.	Model	Bowl material	Dimensions H x W x D	Pump Type	Waste Level Indicator	Waste tank capacity	Flush tank capacity	Net Weight
060058B	C224-CW	Plastic	727 x 394 x 580	Manual	Full / empty	18L	9L	8.0kg
060060A	C262-CWE	Plastic	750 x 417 x 603	Electric	3 level	17.5L	8L	8.1kg
060060B	C262-CWE	Ceramic	750 x 417 x 603	Electric	3 level	17.5L	8L	17.2kg

Right Hand cassette

WOW A complete range of OEM Thetford toilets are held in stock and are available at preferential rates to manufacturers only. Please speak to your sales contact for more details.
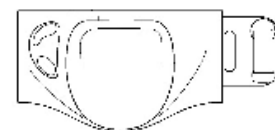
Left Hand cassette

C402-X

C502-X

Part no.	Model	Hand	Dimensions H x W x D	Pump Type	Waste Level Indicator	Flush Level Indicator	Waste tank capacity	Net Weight
060094A	C402-X	Left	512 x 670 x 400	Electric	3 level	3 level	19.3L	8.8kg
060094B	C402-X	Right	512 x 670 x 400	Electric	3 level	3 level	19.3L	8.8kg
060094E	C502-X	Left	502 x 739 x 410	Electric	3 level	3 level	19.7L	9.5kg
060094F	C502-X	Right	502 x 739 x 410	Electric	3 level	3 level	19.7L	9.5kg

Grove PRODUCTS

Cassette toilets **THETFORD**

For vehicles with on board water tanks

Flush water is drawn from the vehicles fresh water supply. CS - Console supplied with switch mounted. S - No console supplied (holding tank protrudes). CS/S - Removeable console supplied

Cassette toilets no longer come with the service door 3, please choose your door (next page) if required.

Swivel bowl toilets

C200 CS/S	C223-S	C223-CS	C263-S	C263-CSL	C263-CS

Part no.	Model	Bowl material	Dimensions H x W x D	Pump Type	Level Indicator	Waste tank capacity	Net Weight
060095A	C200-CS/S	Plastic	538 x 353 x 580	Electric	Full / Empty	17L	7.2kg
060058	C223-S	Plastic	495 x 365 x 580	Electric	Full / empty	18L	6.8kg
060058A	C223-CS	Plastic	534 x 394 x 580	Electric	Full /empty	18L	7.2kg
060062	C263-S	Plastic	488 x 417 x 603	Electric	3 level	17.5L	7.1kg
060062A	C263-S	Ceramic	488 x 417 x 603	Electric	3 level	17.5L	16.2kg
060063B	C263-CSL	Plastic	540 x 417 x 603	Electric	3 level	17.5L	7.7kg
060063C	C263-CSL	Ceramic	540 x 417 x 603	Electric	3 level	17.5L	16.8kg
060063	C263-CS	Plastic	750 x 417 x 603	Electric	3 level	17.5L	8.0kg
060063A	C263-CS	Ceramic	750 x 417 x 603	Electric	3 level	17.5L	17.1kg

Right Hand cassette

Left Hand cassette

WOW A complete range of OEM Thetford toilets are held in stock and are available at preferential rates to manufacturers only. Please speak to your sales contact for more details.

C403-L	C503-L

Part no.	Model	Hand	Dimensions H x W x D	Pump Type	Level Indicator	Waste tank capacity	Net Weight
060094C	C403-L	Left	512 x 670 x 400	Electric	3 level	19.3L	8.1kg
060094D	C403-L	Right	512 x 670 x 400	Electric	3 level	19.3L	8.1kg
060094G	C503-L	Left	502 x 739 x 410	Electric	3 level	19.7L	9.6kg
060094H	C503-L	Right	502 x 739 x 410	Electric	3 level	19.7L	9.6kg

Grove PRODUCTS

Permanent toilets **THETFORD**

For direct connection to waste tanks

American-designed floor mounted toilet, drawing flushwater from an independent pressurised water supply. Waste tank located beneath or on the floor.
- Single foot pedal operation
- Deep bowl ensures less splashing
- Easy installation and access of parts

Model	Bravura V Low	Bravura V High
Bowl material	Plastic	Plastic
Dimensions (HxWxD)	356 x 421 x 531 mm	454 x 421 x 531 mm
Weight	7.5 kg	8.3 kg
Seat height	333 mm	431 mm
Part number	060096B	060096A

Bravura V low

Bravura V High

Closet flange
Required to connect the toilet to the waste tank or pipe
060096AF

Service doors **THETFORD**

A comprehensive range of high grade UV resistant quality plastic doors suitable for cassette toilets or as service doors for gas bottles and water tanks. They can all be mounted vertically or horizontally
- Incorporate double seal to help waterproof locks and assist insulation
- Integrated hinges
- Suit wall thickness 24mm to 40mm

Door 3
Standard cassette toilet door. Can be fitted landscape or portrait.
Aperture:
330 x 280mm.
Overall dimensions:
385 x 335mm
White **060105**
Black **060105B**
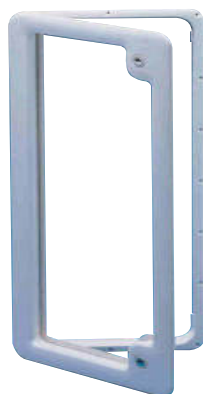
Door 4
Gas and water tank door.
Aperture:
630 x 330mm.
Overall dimensions:
700 x 395mm
Cream **060098**
White **060098W**

Door 5
Water tank and general luggage door.
Aperture:
730 x 280mm.
Overall dimensions:
-785 x 340mm
White **060099W**

Door 6
General luggage door for large objects.
Aperture:
980 x 400mm.
Overall dimensions:
1038 x 465mm
Cream **060097**
White **060097W**

Door 7
General luggage door for large objects.
Aperture:
1051 x 282mm.
Overall dimensions:
1108 x 346mm
White **060106**

Cassette accessories

060088S

060089S

Cassette seat raisers
Seat raiser makes it easier to sit down and stand up!
Raises the seat height by approx. 7cm
For C200 **060088S**
For C2, C3, C4 **060089S**

Grove PRODUCTS

Fresh-up sets

A "new" toilet in 2 steps.
The set includes:
- Waste holding tank with wheels
- Seat & Cover

The Toilet fresh-up set is an easy and economic way to make a used cassette toilet as good as new.

An additional waste holding tank for longer trips? Even then the Toilet fresh-up set is a perfect solution

C200 series fresh-up
With yellow accents
060088

C2 / C3 /C4 fresh-up
With yellow accents
Right hand **060089R**
Left hand **060089L**

C220 series fresh-up
With blue accents
060088A

C250/60 series fresh-up
With orange accents
057196

C400 series fresh-up
With green accents. Includes instructions to fit left or right hand toilets
060241

C500 series fresh-up
With green accents. Includes instructions to fit left or right hand toilets
060094J

Grove PRODUCTS

Toilet spare parts images

PORTA POTTI SPARES			
060197 **Water Fill Cap** 145/165/335/345/365	**060123** **Bellows** 145/165/335/345/365/Q145/ Q165	**060143** **Inlet Tube** 145/165/335/345/365	**060150** **Pour Out Spout Complete** 145/165/335/345/365
060116 **Cap & Spout Seals** 145/165/335/345/365/465/C2/ C3/C4/C200	**060142** **Vent Seal** **All portables**	**060153** **Vent Button Yellow** 145/165/335/345/365/465/C2/ C3/C4/C200/C220/C250/C260	**060134** **Lip Seal** **All portables**
060138 **Float Arm** 335/345/365/C2/C3/C4	**057200** **Measuring Cap & Seal Yellow** 465/C2/C3/C4/C200/C250/ C260/C400	**057201** **Measuring Cap & Seal White** 465/C2/C3/C4/C200/C250/ C260/C400	

PORTA POTTI QUBE / PORTA POTTI SPARES			
058000 **Seat & Cover** Q145/Q165/Q345/Q365	**058001** **Seat & Cover** Q335	**058006** **Water Fill Cap** **All Porta Potti Qubes**	**058010** **Pour Out Spout** **All Porta Potti Qubes**
058014 **Dump Cap & Seal** **All Porta Potti Qubes**	**060142** **Vent Seal** **All portables**	**058017** **Vent Button** **All Porta Potti Qubes &** **Excellence**	**060134** **Lip Seal** **All portables**
060123 **Bellows** 145/165/335/345/365/Q145/ Q165	**058020** **Level** **Indicator Dial** Q335 — **058021** **Level** **Indicator Dial** Q345/Q365	**058024** **Piston Pump** Q335	**058025** **Piston Pump** Q345/Q365

Grove PRODUCTS

Toilet spare parts images
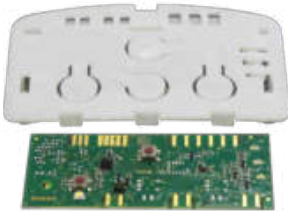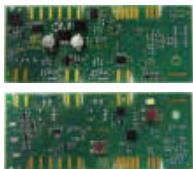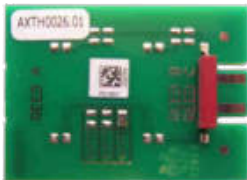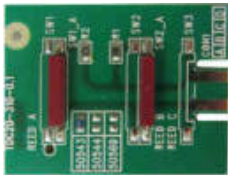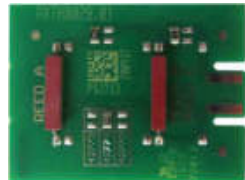
PORTA POTTI EXCELLENCE

058002 Seat & Cover	**058007** Water Fill Cap	**058008** Water Fill Adapter	**058019** Level Indicator
058026 Piston Pump	**058027** Electric Pump	**058015** Measuring Cap & Seal	**058011** Pour Out Spout
060142 Vent Seal All portables	**060134** Lip Seal All portables	**058017** Vent Button All Porta Potti Qubes & Excellence	**058022** Level Indicator Dial
058030 Float Arm	**056983** Floor Plate		

C2/3/4 BENCH

060193 Cassette Retainer Clip	**060136** Drain Cap C2/C4	**060122** Water Fill Funnel C2/C4	**060158** Water Fill Funnel Cap C2/C4/C402C/C402X/C502C/C502X
060121 Flush Knob Assembly	**060130** Seat & Lid	**060155** Hinge Post & Pins	**060147** Level Indicator Dial C2/C3/C4
060118 Cassette Pump C2/C402C/C402X/C200CWE	**060157** Sight Glass Left Hand C2/C4	**060117** Sight Glass Right Hand C2/C4	**060119** Switch C2/C3
060126 Bellows C4	**060124** Check Valve Body C4	**060176** Pump Assembly C4	**060165** Flush Tube C4
060132 Fuse 3A < 06/94 C2/C3	**060156** Fuse 3A > 06/94 C2/C3/C200CS/C200S/C200CW/C200CWE/C402C/C402X/C403L	**060114** Mechanism C2/C3	**060178** Vacuum Breaker All Cassettes

F

Toilet spare parts images

C200 / C220 SWIVEL				
060175 **Seat & Cover** **C200CS/S/CW/CWE**	**060178** **Vacuum Breaker** **C3/C200CS/C200S/** **C200CW/C200CWE/** **C223S/C223CS/C250S/** **C250CS/C250CWE/** **C263S/C263CS/** **C262CWE/C403L/C503L**	**060085** **Manual Pump** **C200CW**	**060079** **Pump retainer** **C200CW**	**060118** **Cassette Pump** **C2/C402C/C402X/** **C200CWE**
060081 **Reed Switch** **C200CS/S/CWE**	**060087** **Reed Switch** **C200CW**	**060087A** **Flush Switch** **C200CWE**	**060092** **Flush Switch** **C200CS/S**	**060172** **Electric Valve** **C3/C200CS/C200S/** **C223S/C223CS/C250S/** **C250CS/C263S/C403L**
060082 **Level Indicator LED** **C200CS/S**	**060086** **Bezel** **C200CWE**	**060071** **Control Panel** **C200CS**	**060156** **Fuse 3A > 06/94** **C2/C3/C200CS/C200S/** **C200CW/C200CWE/** **C402C/C402X/C403L**	**060174** **Drain Plug** **C200CWE**
060080 **Handle** **C200CS/S/CW/CWE**	**060080A** **Saddle Bracket** **C200CS/S/CW/CWE**			

Toilet spare parts images

C250 / C260 SWIVEL			
057164 **Overlay** **C250CS/C250S/C250CWE**	**057166** **Control Panel SN** **C250S/C250CS/C250CWE/** **C263S/C263CS/C262CWE**	**057167** **Control Panel SW** **C250S/C250CS/C250CWE**	**057168** **Control Panel FF** **C250S/C250CS/C250CWE/** **C263S/C263CS/C262CWE**
060053 **Sticker Control Panel** **C263S/C263CS/C262CWE**	**060050** **Control Panel SW** **C263S/C263CS/C262CWE**	**060064F** **Filter** **C263S/C263CS/C262CWE**	**060045** **Electric Ventilator** **C263S/C263CS/C262CWE**
057171 **Reed Switch Housing** **C250S/C250CS/C250CWE**	**057172** **Reed Switch One Switch** **C250S/C250CS/C250CWE**	**057173** **Reed Switch Single level** **C250S/C250CS/C250CWE**	**057174** **Reed Switch Multi Level** **C250S/C250CS/C250CWE**
057188A **Ring Blade Mechanism** **C250S/C250CS/C250CWE/** **C263S/C263CS/C262CWE**	**057194A** **Handle** **C250S/C250CS/C250CWE/** **C263S/C263CS/C262CWE**	**060044 Seat & Cover** **C250S/C250CS/C250CWE/** **C263S/C263CS/C262CWE**	**060047** **Seal/ Retainer Nozzle** **C250S/C250CS/C250CWE**

060178 **Vacuum Breaker** **C3/C200CS/C200S/** **C200CW/C200CWE/** **C223S/C223CS/C250S/** **C250CS/C250CWE/** **C263S/C263CS/** **C262CWE/C403L/C503L**	**060054** **Electric Valve >01/09/13** **C263S/C263CS/C503L**	**060172** **Electric Valve < 01/09/13** **C3/C200CS/C200S/** **C223S/C223CS/C250S/** **C250CS/C263S/C403L**	**060052** **Reed Switch Single Level** **C263S/C263CS/** **C262CWE**	**060051** **Reed Switch Multi Level** **C263S/C263CS/** **C262CWE**
057169 **Pump** **C250CWE**	**057170** **Pump** **C262CWE**	**060048** **Wire Harness** **C250CWE**	**060046** **Wire Harness** **C250S**	**060049** **Wire Harness** **C262CWE**

Toilet spare parts images

C400 / C500 BENCH

060236 Control Panel C403L	060183 Control Knob C502C	060184 Control Knob C502X	060211 Wall Seal C402C/C402X/C403L
060227 Seat & cover C402C/C402X/C403L	060186 Seat & Cover C502C/C502X/C503L	060231 Fill Funnel Assembly C402C/C402X/C403L	060158 Cap Fill Bottle C2/C4/C402C/C402X/C502C/ C502X
060117A Drain Tube C402C/C402X	060240 Float Box / switch C402X	060232 Switch Housing C402C	060187 Water Level Sensor C502C/C502X
060156 Fuse 3A > 06/94 C2/C3/C200CS/C200S/ C200CW/C200CWE/ C402C/C402X/C403L	057158 Water Fill Extension C402C/C402X	060181 Handle Type A C402C/C402X/C403L	060213 Wire Harness C402C/C402X/C403L	060179 Shaft C402C/C402X/C403L/C502C/ C502X/C503L
060118 Cassette Pump C2/C402C/C402X/ C200CWE	060054 Electric Valve >01/09/13 C263S/C263CS/C503L	060172 Electric Valve C3/C200CS/C200S/ C223S/C223CS/C250S/ C250CS/C263S/C403L	060185 Main PCB C503L	060178 Vacuum Breaker C3/C200CS/C200S/C200CW/ C200CWE/C223S/C223CS/ C250S/C250CS/C250CWE/ C263S/C263CS/C262CWE/ C403L/C503L

Toilet spare parts images

HOLDING TANKS			
060116 **Cap & Spout Seals** **145/165/335/345/365/465/C2/** **C3/C4/C200**	**057200** **Measuring Cap & Seal Yellow** **465/C2/C3/C4/C200/C250/** **C260/C400/C500**	**057201** **Measuring Cap & Seal White** **465/C2/C3/C4/C200/C250/** **C260/C400/C500**	**060113** **Dump Cap Yellow** **C2/C3/C4/C200**
060115 **Pour Out Spout Assembly** **C2/C3/C4/C200**	**057192** **Pour Out Spout Assembly** **C250/C260**	**060223** **Pour Out Spout Assembly** **C400/C500**	**060140** **Vent Button Assembly** **C2/C3/C4**
060128 **Lip Seal < 15/06/00** **C2/C3/C4**	**060101** **Lip Seal > 15/06/00** **All holding tanks**	**060153** **Vent Button Yellow** **145/165/335/345/365/465/C2/** **C3/C4/C200/C220/C250/C260**	**060224** **Vent Button** **C400/C500**
060110 **Automatic Vent** **C2/C3/C4/C200/C220/C500**	**060127** **Vent Seal** **C2/C3/C4**	**060209** **Vent Seal** **C400**	**060171** **Outside Vent** **C200/C220**
060138 **Float Arm** **335/345/365/C2/C3/C4**　　**060083** 　　**Float Arm** 　　**C200**	**060112** **Automatic Vent Seal** **C2/C3/C4/C200/C220/** **C250/C260**	**057190** **Float Stem Assembly** **C250/C260**	**057191** **Float** **C250/C260**
060139 **Float Vent** **C2/C3/C4**	**060141** **Sliding Cover** **C2/C3/C4/C200**	**057189** **Sliding Cover** **C220/C250/C260**	**060219** **Sliding Cover** **C400/C500**
057195 **Holding Tank Mechanism** **C250/C260**	**060242** **Mechanism Complete RH** **C400/C500**	**060243** **Mechanism Complete LH** **C400/C500**	**057187** **Mechanism Seal** **C250/C260/C400/C500**

Toilet spare parts images

HOLDING TANKS			
057186 **Tank Plate** **C250/C260**	**060078** **Blade** **C2/C3/C4/C200**	**057188** **Blade** **C220/C250/C260/C400/C500**	**060208** **Magnet Assembly** **C400**
060200 **Blade Opener > 15/06/00** **C2/C3/C4**	**060084** **Blade Opener** **C200/C250/C260**	**060218** **Blade Opener** **C400/C500**	**060195** **Tank Lock Clip** **C200/C220**
057194 **Telescopic Handle** **C250/C260**	**060180** **Pull Handle** **C400/C500**	**057193** **Wheels (x2)** **C250/C260**	**060226** **Wheel & Bearing** **C400/C500**
060090 **Holding Tank Complete LH** **C400**	**060091** **Holding Tank Complete RH** **C400**	**060066** **Holding Tank Complete LH** **C500**	**060067** **Holding Tank Complete RH** **C500**
057181 **Holding Tank Complete** **C250/C260**			

Toilet spare parts images

SERVICE DOOR SPARES			
060137 Seal Door 2 (SD2)	**060103** Seal Door 3 (SD3)	**060103A** Seal Door 4 (SD4)	**060103B** Seal Door 5 (SD5)
060162 Door 2 Lock Cover White	**060159** Door 2 Lock (SD2)	**060104** Push Button for Standard Doors (SD3/4/5/6/7)	**060163** Door Lock for Standard Doors (SD3/4/5/6/7)
060109 Hinge Pins Door 2	**060111** Hinge Pins for Standard Doors (SD3/4/5/6/7)	**060163H** Zadi Housing White for Standard Doors (SD3/4/5/6/7)	**060163HB** Zadi Housing Black for Standard Doors (SD3/4/5/6/7)
060107 Door lock Service Kit	**010323** Soft Tray for Battery Boxes	**Waterfill Door** **060173** Cream White **060084A** White **060084B** Light Grey **060084C** Dark Grey	

Door 3 **060105** White **060105B** Black	**Door 4** **060098** Cream White **060098W** White **060103C** White (no locks)	**Door 5** **060099W** White	**Door 6** **060097** Cream White **060097W** White	**Door 7** **060107** White

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Grove PRODUCTS

Calor Gas Products
Regulators

CALOR

Butane 21mm Clip-On regulator
Calor Code: 601225

Low pressure butane regulator with effortless Clip-On connection. It has an easy to operate on/off lever with a clear indicator to determine whether its switched on or off

070350C

7kg | 12kg | 15kg

Butane Screw-On 1.3kg/h regulator
Calor Code: 601226

Low pressure butane regulator ideal for both industrial and domestic use

070323C

4.5kg

Campingaz 29mb regulator
Calor Code: 601227

Low pressure butane Campingaz regulator designed to be used with Campingaz cylinders only

070342C

901 | 904 | 907

Patio Gas® 27mm Clip-On regulator
Calor Code: 601228

Low pressure Patio Gas® regulator with effortless Clip-On connection. It has an easy to operate on/off lever with a clear indicator to determine whether it's switched on or off

070345C

5kg | 13kg

Propane Screw-On 1.5kg/h regulator
Calor Code: 601229

Low pressure propane regulator ideal for both industrial and domestic use

070336C

3.9kg | 6kg | 13kg | 19kg | 47kg

Propane Screw-On 4kg/h regulator
Calor Code: 601230

Low pressure propane screw-on regulator

070351C

13kg | 19kg | 47kg

Propane HP 0.5-1bar Adjustable regulator
Calor Code: 601231

High pressure propane adjustable regulator (single stage) for use when a more precise flow is required

070352C

13kg | 19kg | 47kg

Propane HP 0.5-2bar Adjustable regulator
Calor Code: 601232

High pressure propane adjustable regulator (single stage) for use when a more precise flow is required

070353C

3.9kg | 6kg | 13kg | 19kg | 47kg

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Propane HP 0.5-4bar Adjustable regulator
Calor Code: 601233

High pressure propane adjustable regulator (single stage) for use when a more precise flow is required

070354C

3.9kg | 6kg | 13kg | 19kg | 47kg

Propane HP 1bar Fixed regulator
Calor Code: 601234

High pressure propane fixed pressure regulator (single stage)

070355C

3.9kg | 6kg | 13kg | 19kg | 47kg

Grove Code	Max Inlet Pressure	Cap. kg/hr	Operating Pressure (mbar)	Inlet	Outlet
070350C	7.5bar	1.3	29	21mm Clip On	8mm Nozzle
070323C	7.5bar	1.3	29	Butane Union 109	
070342C	7.5bar	0.8	29	Campingaz M16x1.5mm	
070345C	16bar	1.5	37	27mm Clip On	
070336C	16bar	1.5	37	Propane POL 105	3/8" BSP Female
070351C	16bar	4	37		
070352C	16bar	8	0.5-1bar 10 Position		¼" BSP Female supplied with 6.3mm Nozzle
070353C	16bar	6	0.5-2bar		
070354C	16bar	8	0.5-4bar		
070355C	16bar	8	1bar		

Grove PRODUCTS

All gas fittings and accessories should be fitted/checked by a qualified technician

Calor Gas Products

Calor Code: 603006

2 stage, 30mBar regulator with 90° 8mm outlet

070395C

Calor Code: 603003

2 stage, 30mBar regulator with 90° 10mm outlet

070396C

Calor Code: 603005

2 stage, 30mBar regulator with 8mm outlet

070399C

Calor Code: 603004

2 stage, 30mBar regulator with 10mm outlet

070400C

Grove Code	Max Inlet Pressure	Capacity kg/hr	Operating Pressure (mbar)	Inlet	Outlet
070395C	16bar	1.5	30	W20 male	90° 8mm
070396C	16bar	1.5	30	W20 male	90° 10mm
070399C	16bar	1.5	30	W20 male	8mm
070400C	16bar	1.5	30	W20 male	10mm

Changeover Valves

IMPORTANT
Recommended only for use on non-fixed installations with 2 cylinders. Not to be used with 4 cylinder upgrade kit

Propane 37mb 2 Cylinder Automatic Changeover Valve with OPSO*

Calor Code: 601238

Automatic changeover valve with OPSO with POL x 1/2" BSP FEM connections. Designed to operate multi cylinder systems, complete with a second stage regulator, 2 hoses, 1 ball valve, 1 Installation kit (gasket, screws)

070421C

Propane 37mb 2 Cylinder Automatic Changeover Valve without OPSO*

Calor Code: 601237

Automatic changeover valve without OPSO with POL 105 x 3/8" BSP FEM connections. Designed to operate two cylinder systems, complete with a second stage regulator, 2 hoses, 1 ball valve, 1 Installation kit (gasket, screws)

070420C

Propane 37mb 4kg/h Manual Changeover Valve*

Calor Code: 601236

Manual changeover valve with POL x 3/8" BSP FEM connections. Designed to operate a 2 cylinder system, complete with a second stage regulator, 2 hoses, 1 ball valve and an installation kit (gaskets and screws)

070419C

Grove Code	Max Inlet Pressure (bar)	Capacity (kg/h)	Pressure (mbar)	Connections
070419C	16	4	37	POL 105 x 3/8" BSP
070420C	16	6	37	POL 105 x 3/8" BSP
070421C	16	4	37	POL x 1/2" BSP

Calor Gas Products
Hoses & Pigtails

Accessories

CALOR

Standard Hose

High quality LPG hosing for use with changeover valves
50cm POL x W20 **070499C**
75cm POL x W20 **070500C**
75cm POL x POL **070501C**

8mm Low Pressure Hose & 2 Jubilee Clips

Calor Code: 601258

1m 8mm Low Pressure Hose & 2 Jubilee Clips

070237C

Calor Code: 601259

2m 8mm Low Pressure Hose & 2 Jubilee Clips

070238C

Universal BBQ Hose & Regulator Kit

Calor Code: 601260

A complete kit to get your BBQ up and running. Includes 1m x 8mm hose, 1 Patio Gas® Clip-On regulator and 1 x 5/8" UNF & 1 x 1/4" LH BBQ fittings

070345CK

Grove PRODUCTS

Armoured Hose

High quality LPG hosing for use with changeover valves. Armoured hosing provides extra protection from wear, sharp objects and vermin.
50cm POL x W20 **070503C**
75cm POL x W20 **070504C**
75cm POL x POL **070505C**

4 Cylinder Upgrade Kit (Standard)

Calor Code: 601239

4 cylinder OPSO upgrade kit for use when upgrading from a 2 cylinder system to 4 cylinders. Comes complete with 2 hoses and 'T' piece. Only to be used with changeover valves with OPSO (an over pressure protection device)

070510C

4 Cylinder Upgrade Kit (Armoured)

Calor Code: 601240

4 cylinder OPSO upgrade kit for use when upgrading from a 2 cylinder system to 4 cylinders. Comes complete with 2 hoses and 'T' piece. Armoured hosing provides extra protection from wear, sharp objects and vermin.

070511C

Leak Detector Spray 500ml

Calor Code: 601256

Gas leak detector spray specially formulated to detect the smallest of leaks

070549C

Light Weight Spanner

Calor Code: 601255

Spanner designed to aid in the connection of a screw on regulator to a gas cylinder

070221C

Heavy Duty Spanner

Calor Code: 601254

Spanner designed to aid in the connection of a screw on regulator to a gas cylinder

070222C

WOW All Calor Essentials products have a 5 year warranty

5 YEAR WARRANTY

WOW Calor point of sale packages available. Please speak to your sales contact for more details

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All gas fittings and accessories should be fitted/checked by a qualified technician

Cylinder sizes, types and offtakes

Propane

Capacity	3.9kg	6kg	6kg Lite	13kg	19kg	47kg
Height	340mm	495mm	495mm	580mm	800mm	1290mm
Diameter	240mm	256mm	256mm	315mm	315mm	375mm
Recommended Offtake	7.5 kW 0.53kg/h	11 kW 0.77 kg/h	11 kW 0.77 kg/h	15 kW 1.05 kg/h	19 kW 1.32 kg/h	34 kW 2.4 kg/h
Colour	Red	Red	Red	Red	Red	Red
Maximum Tare	6.8kg	8.2 kg	4.1kg	15.9kg	18.1kg	38.6kg

Butane

Capacity	4.5kg	7kg	15kg
Height	340mm	495mm	580mm
Diameter	240mm	256mm	318mm
Recommended Offtake	5 kW 0.42 kg/h	7 kW 0.5 kg/h	9.9 kW 0.7 kg/h
Colour	Blue	Blue	Blue
Maximum Tare	6.8kg	8.2 kg	15.9kg

Patio Gas®

Capacity	5kg	13kg
Height	314mm	580mm
Diameter	306mm	315mm
Recommended Offtake	10kW 0.72 kg/h	15 kW 1.05 kg/h
Colour	Green with red handles	Green with a red shroud
Maximum Tare	6.2kg	15.9kg

How to connect and disconnect a cylinder

Connecting a 3.9kg, 6kg, 13kg, 19kg & 47kg Propane cylinder

Propane cylinders have a 'female' valve connection. Check the connection is clean and undamaged before connecting. This is a 'face-to-face' seal and requires the correct size spanner to be sure it is fully tightened. (Left-hand thread).
1. Check that the valve handwheel is OFF by turning clockwise.
2. Remove the protective plug and leave hanging to replace later.
3. Inspect the bullnose connection of the regulator for damage before connecting.
NOTE: A gas tight seal is created by face-to-face connection between the bullnose & cylinder valve.
4. Fit the connecting nut (left hand thread) to the cylinder, using the correct spanner. Note that Propane cylinder connections must be tight.
5. Ensure appliances are turned OFF.
6. When gas is required turn the valve handwheel anti-clockwise (ON).
7. Check for gas soundness using leak detection solution.
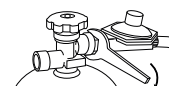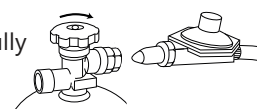
Disconnecting a 3.9kg, 6kg, 13kg, 19kg & 47kg Propane cylinder

Turn the handwheel OFF (clockwise rotation). Wait until the burner/pilot light has gone out.
1. Changeover valves
   a) If the installation does not have a changeover valve fitted, turn OFF the gas tap, if fitted, to an appliance.
   b) For installations with a changeover valve, it is only necessary to turn off the cylinder.
   N.B. Never remove the regulator (or connecting nut) with the cylinder valve open.
2. Remove the regulator (or connecting nut- left hand thread) with the correct spanner.
3. Replace the protective plug into the valve outlet.
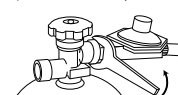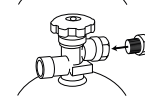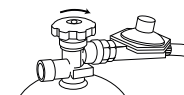
Connecting a 4.5kg Butane cylinder

A 4.5kg cylinder takes a regulator which screws on to the valve outlet. The regulator has a connecting nut that incorporates a black sealing washer. Do not use the rubber washer from the black cap as a sealing washer. Turn the orange cap so that the arrow is pointing to the gap in the shroud.
1. Check that the valve handwheel is off by turning clockwise.
2. Remove protective black cap and retain for future use.
3. Inspect the black sealing washer on the regulator for damage before connecting. Replace the washer if faulty.
4. Fit the connecting nut (left hand thread) to the cylinder using a suitable spanner. Tighten firmly, but do not over tighten as this can damage the washer
5. When gas is required, turn the valve handwheel anticlockwise.
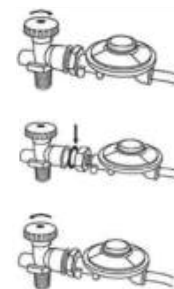
Disconnecting a 4.5kg Butane cylinder

Never disconnect the regulator (or connecting nut) with the valve open.
1. Turn the valve hand wheel off (clockwise rotation).
2. Wait until the burner and pilot lights have gone out. If the flame does not go out, turn the valve hand wheel anticlockwise back to on; leave the appliance alight and call your gas supplier.
3. Disconnect the Regulator (left hand thread) with a suitable spanner.
4. Screw the protective black-cap back on to the cylinder valve.
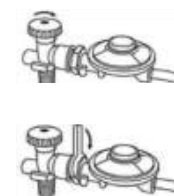
Connecting a 7kg, 12kg & 15kg Butane cylinder

7kg, 12kg and 15kg Butane cylinders have a 21mm valve and must only be used with a 21mm regulator.
1. Turn the orange cap so that the arrow is pointing to the gap in the shroud.
2. Remove the orange safety cap by pulling the lanyard out, then up. Do not use tools and leave the cap hanging.
3. Check the black sealing washer is fitted inside the cylinder valve.
4. Ensure the regulator switch is in the disconnect position (3 o'clock position).
5. Fit the 21mm regulator as per the manufacturer's instructions.
6. When gas is required, turn lever to ON position.
If the regulator ON/OFF switch gets stuck when turning the supply on, it means that the regulator has been connected incorrectly. In this event the regulator must be disconnected and the correct steps to reconnect repeated from the beginning.

Disconnecting a 7kg, 12kg & 15kg Butane cylinder

Never disconnect the regulator with the switch in the ON position.
1. Turn the regulator lever to the OFF position.
2. Wait until the burner and pilot lights have gone out. If the flame does not go out, turn the switch back to on; leave the appliance alight and call your gas supplier.
3. To remove the regulator from the cylinder valve please refer to the manufacturer's instructions.
4. Replace the orange safety cap onto the cylinder valve of the empty or part full cylinder, when not in use.
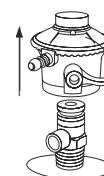
Connecting a 5kg & 13kg Patio Gas® cylinder

Reminder: Patio Gas® cylinders use a 27mm clip on valve and clip on regulators.
Unlike the other propane cylinders you do not need a spanner to connect the regulator.
1. If the cylinder has a yellow tamper evident cap, please remove and discard.
2. Make sure that:
   a) The regulator is switched to the OFF or disconnect position.
   b) All taps on the appliance are closed.
   c) The connecting pipe to the appliance is correctly fitted.
   d) The valve is clean and free from debris.
3. Put regulator on top of the cylinder valve. Place hand on top of the regulator and push down firmly and vertically until you hear a click.
4. Once the regulator is correctly fitted, switch to on position as directed by manufacturer instructions on the regulator.
   ALWAYS: Turn the switch to the OFF position after use.
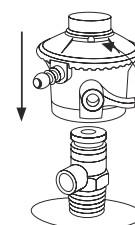
Disconnecting a 5kg & 13kg Patio Gas® cylinder.

1. Make sure the regulator is turned to the OFF position and that the appliance flame is extinguished.
2. Push the ON/OFF switch according to manufacturer instructions and then pull upwards.
   REMEMBER: Do not attempt to disconnect the cylinder if the regulator is in the ON/open position.

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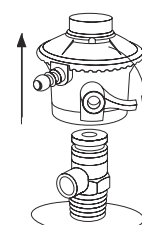
Fixed regulators

WOW
For Calor branded fixed regulators see page 138

Truma regulators
M20 x 1.5Kg/h, 30mbar with pressure protection, integrated 90° elbow and test point
8mm outlet   **070520**
10mm outlet   **070525**

Elbow for Truma regulator
070526

MonoControl CS
This safety gas pressure regulation system is ideally suited to ensuring safe heating whilst on the move. It has a built in crash sensor (CS) and integrated test point.
Now can be installed vertically or horizontally.
● Inlet M20
● Regulator capacity 1.5kg/h
● Crash sensor is easy to reset
● Crash sensor activation value: 4.0g +/- 1.0g
● 30 mbar
8/10mm   **070381**

For gas tank installation
8/10mm   **070371**

Truma gas filter
Helps to prevent blocked regulators by filtering any oily residue in the gas.
Filter and housing   **070555**
Replacement filter   **070556**

DuoControl CS Vertical
The DuoControl can be retrofitted, and has a built in crash sensor (CS) and integrated test point. **Not** for use in commercial vehicles.
● Automatic changeover from empty to full gas cylinder.
● Visual display indicating the status of the operating cylinder (empty/full)
● Manual selection of operating cylinder using control knob
● Inlet M20
● Regulator capacity 1.5kg/h
● Crash sensor is easy to reset
● Crash sensor activation value: 3.5g +/- 0.5g
● For vertical installation
● Models available on request for horizontal installation
30 mbar 10/8mm **070377**
50 mbar 8mm   **070378**

DuoControl without crashsensor
The DuoControl has the same specifications as the DuoControl CS but without the built in crash sensor
30 mbar 10mm   **070376**
30 mbar 8mm   **070379**

WOW 5 year warranty on all Cavagna regulators

Cavagna 180° regulators
30mbar double stage regulator with 1.5kg/h flow capacity. "UDS" is the standard built in safety device. With integrated test point. W20 inlet
8mm outlet   **070399**
10mm outlet   **070400**

Cavagna 90° regulators
30mbar double stage regulator with 1.5kg/h flow capacity. "UDS" is the standard built in safety device. With integrated test point. W20 inlet
8mm outlet   **070395**
10mm outlet   **070396**

Cavagna auto changeover regulators
The Reca automatic changeover gas regulator by Cavagna (30mbar) with 1.5kg/h flow capacity. It combines an automatic changeover with a double stage regulator, integrated "PRV" safety device and test point. Therefore it is the most compact gas regulation system in Europe. W20 inlet
8mm outlet   **070415**
10mm outlet   **070416**

Grove PRODUCTS

Fixed regulator equipment

Propane pigtails
EN16436
500mm   **070515**
750mm   **070518**
Truma 450mm **070534**

Butane pigtails
EN16436
500mm   **070514**
750mm   **070517**
Truma 450mm **070533**

**HP gas hose
with rupture
protection**
Truma 450mm
GB propane   **070557A**
GB butane 4.5kg **850618**
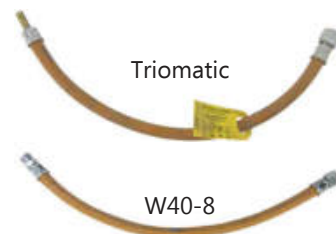
Triomatic

W40-8

Other gas hoses
Truma 450mm
Triomatic   **850615**
W40-8 gas hose   **850616**

Campingaz adaptor
Truma   **070541**
EN1949   **070548**

**21mm butane clip-
on adaptor**
Truma   **070542**
EN1949   **070545**

**27mm butane clip-
on adaptor**
With 90⁰ elbow
Truma   **070531**

Pigtail washers W20
10 per outer
Black   **070535**
Truma Green   **070532**

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Standard regulators

Butane regulator
Outlet pressure 28mbar
1.3Kg/h. EN 12864
approved.
Singly or 10 per outer
070323

Regulator washers(5)
10 per outer
070227

Propane regulator
Outlet pressure 37mbar
1.5Kg/h. EN 12864
approved.
Singly or 10 per outer
070336

**Propane handwheel
regulator**
Outlet pressure 37mbar.
1.5Kg/h. EN 12864
approved.
Singly or 10 per outer
070337

Gaz regulator
For use with Campingaz
cylinders. Integral control
valve. Outlet pressure
29mbar 0.8Kg/h. EN 12864
approved.
Singly or 10 per outer
070342

Campingaz regulator
To operate campingaz®
refillable cylinders. Simply
screws onto 901, 904, & 907
cylinders
109919

Patio gas regulator
27mm clip on regulator
for Calor patio gas. Outlet
pressure 37mbar. EN 12864
approved.
Singly or 10 per outer
070345

**BP Gas light
regulator**
Outlet pressure 37mbar.
1.5Kg/h.
070543

Regulator spanner
Light weight   **070221**

Regulator spanner
Heavy duty   **070222**

Regulator spanner
Truma   **070224**

Grove
PRODUCTS

All gas fittings and accessories should be fitted/checked by a qualified technician

Gas fittings

5 packs per outer unless otherwise stated

GAS HOSES NOT SUPPLIED ON A REEL

Low pressure Gas hose BS3212
Composite black gas hose
8mm bore
50m roll
070234

High pressure Gas hose BS3212
Orange gas hose
8mm bore
50m roll
070236

Copper tube
Supplied in 30m rolls
¼"O.D.	**070290**
5⁄16"O.D.	**070295**
3⁄8"O.D.	**070300**

Carded
10 per outer

Bulk
100 per bag

Hose clips
OOO (2) W4	**104832**
OOO (2) carded	**070249**
OOO Bulk	**070255**
OO (2) carded	**051246**
OO Bulk	**051257**

Straight couplings
¼"	**070004**
5⁄16"	**070006**
3⁄8"	**070008**
8mm	**070010**
10mm	**070012**

Reducers
5⁄16" - ¼"	**070045**
3⁄8" - 5⁄16"	**070055**
10-8mm	**070057**
15mm-3⁄8"	**070059**
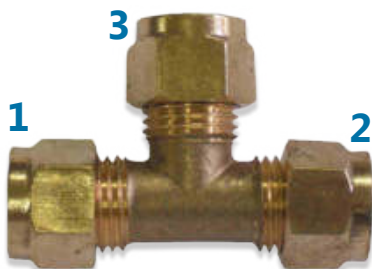
Tee pieces
1 x 2 x 3
¼ x ¼ x ¼"	**070068**
5⁄16 x 5⁄16 x 5⁄16"	**070074**
3⁄8 x 3⁄8 x 3⁄8"	**070079**
5⁄16 x 5⁄16 x ¼"	**070081**
8 x 8 x 8mm	**070080**
8 x 10 x 8mm	**070083**
10 x 10 x 8mm	**070085**
15 x 15 x 10mm	**070087**
15 x 15 x 8mm	**070089**

Elbows
¼"	**070180**
5⁄16"	**070181**
8mm	**070175**
10mm	**070177**

Elbow reducers
| 10-8mm | **070179** |

Three way nozzle
10 per outer
070174

Copper nozzles
¼"	**070099**
5⁄16"	**070102**
3⁄8"	**070105**
15mm	**070146**

Male nozzle
| ¼" | **070120** |

Female nozzle
| ¼" | **070137** |
| 3⁄8" | **070140** |

Stop end
¼" **070170**

Blank nuts
¼" **070183**

Copper olives (5)
¼"	**070267**
5⁄16"	**070269**
3⁄8"	**070273**

Line taps
Singly
| ¼" | **070196** |
| 5⁄16" | **070194** |

Gas manifolds

Straight quick acting valve
8mm **823110A**

2 way manifold valve
8mm **824111A**

3 way manifold valve
8mm **824131A**
10mm **824132A**

4 way manifold valve
8mm **824151A**
10mm **824152A**

All gas fittings and accessories should be fitted/checked by a qualified technician

Grove PRODUCTS

Gas box equipment

Truma BBQ gas point
Enables external gas appliances to be connected. The only additional equipment you need is a gas pipe with an 8mm diameter
White   **070536**
Ivory   **070537**

Reich gas supply box with lock and valve
Supply connection for gas, with safety valve and lock. 10mm inlet. Installation dimensions: 157x67mm
070465

Gas outlet box & lid
Fits on outside wall of caravan for easy connection of BBQ. Cut out -60mm Ø 60mm depth.
Finished - 90mm x 85mm
Complete box   **070463**
Lid only   **070461**
Nozzle only   **070462**

W4 gas bottle retaining kit
Gas bottle retaining kit secures up to 7kg gas bottle when travelling.
070321

Gas bottle holder
Keeps gas bottle fixed while in transit. Singly or 10 per outer
070320

W4 compression lock for gas locker
WD barrel compression lock with lever attachments. As used by manufacturers including Explorer, Bailey and Coachman. Supplied with 1 key
070318

Gas servicing equipment

Truma leak test device
For workshop use.
Complete kit   **070550**
Volumiser canister   **070552**
Leak test hose   **070551**

Universal thermocouple
Thermostatic sensor device used in many gas appliances.
900mm length
070215

W4 gas bottle locker lock
Lock supplied together with necessary fittings to enable easy installation into a variety of locker types. Supplied without keys
070319

W4 gas locker key
Replacement steel key for gas lockers (070319). Singly or 10 per outer
070322

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Fire safety

ABC powder extinguisher 1kg
Aluminium strong and light weight
- Rating A, B, & C
- Do not use on live electrical fires
- Single piece, deep drawn aluminium alloy body, externally painted with polyester resin, signal red to RAL 3000
- Plastic bracket specially designed for vehicle and marine use

Singly or 6 per outer
070636

Firemax foam extinguisher 1L with gauge
Domestic and commercial vehicle use
- Rating A & B
- Do not use on live electrical fires
- Rechargeable
- 5 year warranty

Singly or 10 per outer
070631

It is important to choose the right fire extinguisher as specific extinguishers are designed for different types of fire.
The UK recognizes six fire classes:
Class A fires involve organic solids such as paper and wood.
Class B fires involve flammable or combustible liquids, including petrol, grease, and oil.
Class C fires involve flammable gases.
Class D fires involve combustible metals.
Class E fires involving electrical appliances (when the power supply is turned off an electrical fire can fall into any category).
Class F fires involve cooking fat and oil (use blankets)

Fire blanket
Manufactured to BS6575. Supplied in wallet which can be hung on the wall. 1 m^2 blanket.
Singly or 10 per outer
070625

Fire blanket with holder
Manufactured to BS6575. Supplied in rigid plastic container which can be hung on the wall. 1 m^2 blanket.
Singly or 10 per outer
070627

Gas level indicators

Truma LevelCheck
Gas cylinder level indicator for all (LPG) steel or aluminium gas cylinders with a diameter of 200 to 350mm. The device measures whether there is liquefied gas in the cylinder at the measuring point (by horizontal connection) and indicates this.
- Reliable ultrasonic measurement
- Easy to use with 9v battery supplied
- Integrated LED torch with On/Off switch
- Status LED (green/red/orange) green = Gas, red = no gas, orange = indicates measuring process (also with audible tone)
- Under voltage display

*Not suitable for tank gas cylinders or fillable gas tanks
070560

Gas Genie
Gas level indicator with audible warning alarm and flashing LED's
- No installation required
- Powered by 2 x AA batteries (included)
- Instructions included
- Clips magnetically to steel gas cylinder body
- Weighs only 127g
070565

Other safety products

AA euro travel kit
Includes: Glovebox Atlas Europe, Driving in Europe Guide – Essential Travel Information, hazard warning triangle, headlamp beam converters, magnetic GB plate, reflective emergency jacket, first aid kit
070621

All gas fittings and accessories should be fitted/checked by a qualified technician

Grove PRODUCTS

Alarms

FireAngel SB1-T optical smoke alarm

High performance optical sensor reduces nuisance alarms which are generally associated with ionisation technology. **NCC approved**.
- 85db at 1m (Minimum)
- Wall/Free-standing installation
- Operating temperature: 0° to 40°C
- Operating humidity: 30% to 90% RH
- 113g
- Certified to BS EN 14604: 2005
- 9V battery included
- 3 year warranty

Singly or 10 per outer
070651

FireAngel carbon monoxide alarm CO-9B

Carbon Monoxide Poisonous Gas Alarm. **NCC approved**.
- 85db Alarm at 1mtr + flashing LED.
- Wall/Ceiling/Shelf installation
- Certified to BS EN50291-1:2010+A1:2012 & BS EN50291-2:2010
- 2 x AA batteries included
- 7 year guarantee

Singly or 5 per outer
070665

FireAngel carbon monoxide alarm

The same specifications as the CO-9B with a sealed in power pack, no battery pack required. 7 year life. Includes fast fit bracket for easy installation. 7 year life.
10 per outer
070665A

Kidde carbon monoxide alarm 7COC

With a 10-year sensor that lasts longer than most other CO alarms, this slim, easy-to-use alarm is ideal for use in all living areas and can be installed on a wall or ceiling, or used freestanding.
- Continuous monitoring of CO
- Approved by BSI to EN50291.2010 Part 1 and 2 (boats and caravans) / CE Approved
- Multi-function green and red LEDs to indicate power and alarm status
- End-of-life warning to replace alarm after 10 years of protection
- Test/Reset button to allow regular testing of alarm function
- 3 x AA alkaline batteries supplied

126mm x 72mm x 35mm / 120g
070668A

Sleepsafe CO detector
- Colour change Carbon Monoxide detector
- Ideal for use in homes, offices, hotels, bedsits, caravans, boats and aircraft
- Reacts to low level Carbon Monoxide (<50ppm)
- Easy to use

070656

Kronings TriGas alarm

Digital computerised gas, carbon monoxide and narcotic gas detector. The gas alarm has a unique heating element, which ensures that the air around the sensors is ventilated and renewed which increases safety and reliability.

The TriGas alarm responds to Propane/Butane (LPG) at the floor, carbon monoxide (CO and NO at the ceiling), as well as several other gases with anaesthetic effect, at floor and ceiling.

The intelligent electronics tests the calibration every 40 seconds, and adapts to the environment in the caravan to avoid false alarms due to natural changes. The sensor automatically adjusts to the temperature, ensuring proper calibration when temperature is above 25°C, again avoiding false alarms.
070658

Grove PRODUCTS

Fuel

C206 GLS
Pierceable, can't be disconnected once connected into an appliance. The Gas Lock System, is compliant to the new European standard EN 417:2012 legislation. Contains 190g of butane/propane mix.
36 per outer
109964

CV 300 Plus
High security self-sealing valve. Can be easily disconnected and reconnected even when not empty. Contains 240g of butane/propane mix.
24 per outer
109966

CV 470 Plus
High security self-sealing valve. Can be easily disconnected and reconnected even when not empty. Contains 450g of butane/propane mix.
12 per outer
109967

CP250
Contains 250g of Isobutane. For use with Bistro® type stoves.
12 per outer
109965

CG 1750
Taymar cartridge, for use with blowlamps and blowtorches. 175g.
12 per outer
109969

Coleman 300
Contains 240g of butane/propane mix in threaded self-sealing cartridges with safety valve. Size: Ø 105 x 90 mm.
24 per outer
109970

Coleman 500
Contains 440g of butane/propane mix in threaded self-sealing cartridges with safety valve. Size: Ø 105 x 160 mm.
12 per outer
109971

Propane non-refillable cylinder
Thanks to physical properties of Propane, every last gram of gas in the cylinder is used to operate the appliance. Contains 465 g of propane. Size: Ø 195 x 100 mm. Weight: 935g.
12 per outer
109973

Coleman camp fuel
Coleman fuel is a liquid petroleum fuel (100% light hydrotreated distillate). It has an octane rating of 50 to 55 and a flammability similar to petrol.
1 litre 12 per outer
109974

Refill for gas lighters
250ml.
12 per outer
070480

Campingaz spare parts
Small mantle (3)
Fits Bleuet CV 270L, Bivouac, Camping 206L, Lumostar C, M and plus, and Stellia R
070425
Medium mantle (3)
Fits L470, Rhapsody 470, Soleio R, Sun Force, Symphony, Super Symphony and Frontier CPS
109956

Instaclip (3)
Fits Single, Double and Powerhouse unleaded lanterns
109960
Instaclip tube (3)
Fits Northstar unleaded lanterns
109959

Globe
Medium round globe, fits Lumostar and C206 lanterns
109961

Stove cartridge
Cellophane wrapped economical 4 pack of gas for camping stoves and heaters. Resealable, can be removed when part full for convenient and safe storage. 250g cartridge.
6 per outer
109945

Grove PRODUCTS

Gas lighters and ignitors

Turboflame

All Turboflame lighters have a flip top safety cap that allows easy one handed operation, with adjustable 1300°C clean burn laser jet flames. They operate in any orientation – even upside down (without bending the flame). They work at altitudes up to 3000m (9,800ft). Piezo ignition (10,000 ignitions). Wind resistant. Lanyard fastening hoop.

Turboflame Pheonix PHB

Additional specification:
- Emergency signal mirror embedded inside the safety cap
- Heavy duty metal alloy body with non-slip rubberised coating
- Size: 7.2 x 3.5 cm
- Weight: 74g
- Fuel capacity 4 ml
- 600 short ignitions
- Working flame height 3/4" (2 cm)

070508B

Turboflame Ranger T2R

- Twin laser jet flames
- Visible gas-level indicator
- Heavy duty metal alloy body with rubberised coating
- Size: 7.4 x 3.3 cm
- Weight 80g
- Fuel capacity 2.7 ml
- 650 short ignitions *(approximate with full tank of recommended gas)
- Working flame height 3/4" (2 cm)

070508C

Turboflame V-Flame VFR2

- Twin laser jet V flames
- Visible gas-level indicator
- Heavy duty metal alloy body with rubberised coating
- Size: 7.6 x 3.8 cm
- Weight 90g
- Fuel capacity 4.5 ml
- 800 short ignitions *(approximate with full tank of recommended gas)
- Working flame height 1½" (3 cm)

070508D

Scripto Aim 'n' Flame flex

Disposable lighter. Ultra flexible nozzle. Easier access to BBQ grills, pilot lights, candles, fireplace and more. Built-in hanger to store, out of reach of children. Visible fuel supply.
Singly or 16 per outer
070471

Scripto Dual Flame

Disposable lighter. Easily interchangeable switch. Standard flame for indoor use. Wind resistant flame for outdoor use. Visible fuel supply.
Singly or 16 per outer
070473

Scripto Ez-Squeeze

Refillable lighter. Innovative ignition system. Eye-catching colours farben. Visible gas level. Adjustable flame. Hanger hook.
Singly or 16 per outer
070475

Scripto Folding Utility

Refillable lighter. Unfolds into full size 29cm lighter. Folds into 14.5cm lighter for easy storage. Lights in multiple positions. Visible fuel supply.
Singly or 16 per outer
070474

Gas safety lighter

Long reach flame lighter
12 per outer
070498

Piezo lighter

24 per display
070486

Grove PRODUCTS

All gas fittings and accessories should be fitted/checked by a qualified technician

G

First aid kits

Grove caravan & motorhome first aid kits
1 x Guidance leaflet
10 x Assorted transparent plasters
10 x Children's plasters
1 x 20ml Eye/wound wash
1 x Triangular bandage 90x90x127cm
2 x Safety pins
2 x Sterile medium dressing 120x120mm
1 x Sterile large dressing 180x180mm
10 x Alcohol-free moist wipes
1 x Medium powder free vinyl gloves
1 x Scissors
1 x Plastic tweezers
Box   **070605**
Pouch   **070606**

Grove first aid pouch
Contents include: Alcohol-free wipes, plasters, dressings, bandages, gloves, tape, scissors, emergency blanket, safety pins
070612

Grove camping first aid pouch
1 x Guidance on first aid leaflet
5 x Skin closure strips 75 x 3mm
2 x 20ml Eye/wound wash solution
1 x Roll-on insect repellent
1 x Medium powder free vinyl gloves
1 x Microporous tape 1.25cmx10m
5 x Sterile gauze swabs 8ply 5cm^2
3 x Burnshield hydrogel 3.5ml sachet
1 x Foil survival blanket 56 x 84"
1 x Sterile eye pad dressing
1 x Triangular bandage 90x90x127cm & 2 pins
1 x Sterile medium dressing 120x120mm
1 x Sterile No. 16 Eye pad dressing
1 x Resuscitation face shield foil pack
4 x Alcohol-free moist wipes
1 x Small scissors green handle 4"
20 x Assorted transparent plasters
070607

Truma gas fittings

GAS				
Gas valve nut 8mm **070561** 10mm **070561A**	Olive 8mm **602265** 10mm **817200**	Blanking Plug 8mm **801254A** 10mm **801254B**	**824161** M8 Nut	**824158** Manifold valve nut
804000 Reducer 8-10mm	**810160** Straight union 8mm	**810170** Elbow union 8mm	**810180** T union 8mm	
070522 Gas test point inlet 8mm	**070561B** 8mm Coupling nozzle	**885500** Gas line int conn Right	**885600** Gas line int conn Left	

Grove PRODUCTS

Thetford Stainless Steel Sinks

Basic Line 30
25mm waste outlet, plug, seal and lid included.
Dimensions:
Cut out: Ø390mm.
Overall: Ø405 x D145mm
Inside bowl: Ø328 x D93mm
091158A

Basic Line 33
25mm waste outlet, plug, seal, 35mm tap hole and lid included.
Dimensions:
Cut out: 460 x 460mm.
Overall: H140 x W480 x D480 mm
Inside bowl: H92 x W455 x D276mm
Left hand   **091155B**
Right hand   **091155A** as shown

Basic Line 34
25mm waste outlet, plug, seal, 35mm tap hole and lid included.
Dimensions:
Cut out: 387 x 429mm.
Overall: H140 x W400 x D445 mm
Inside bowl: H92 x W338 x D280mm
091158C

Series 23 spun bowl
25mm waste outlet, plug, seal and lid included.
Dimensions:
Cut out: Ø405mm.
Overall: Ø460 x D123mm
Inside bowl: Ø397 x D123mm
091158B

WOW
Suitable taps for sinks with lids:
Florenz, Style and Keramik page 107
Twist page 108
Samba and Trend A page 109

Argent bowl
19mm waste outlet, plug, seal and lid included.
Dimensions:
Cut out: 335 x 430mm.
Overall: H153 x W360 x D470 mm
Inside bowl: H99 x W290 x D368mm
091160B

Argent sink
19mm waste outlet, plug, seal and lid included.
Dimensions:
Cut out: 605 x 415mm.
Overall: H152 x W630 x D470 mm
Inside bowl: H99 x W290 x D368mm
Left hand   **091153S** as shown
Right hand   **091152S**

Argent Kitchen centre kit
Includes plastic bowl, plastic chopping board, plastic drainer and cutlery rack (inc fixings)
091153K

Bezel (seal)
By Thetford
2100mm
091159A

Vehicle bowl
12" x 10½" Stainless steel with lip. Bowl 9½" tapering to 7" ø base. Depth 5"
050523

Stainless steel sink and drainer
21¾" x 14"
050534

Grove
PRODUCTS

Thetford Hobs

Topline 902
2.3kW induction hob. Auto heat up, individual zone timers, safety "glass hot" indicator, pan detction, power boost, low temperature and pause functions. Touch control.
Dimensions:
Cut out: W274 x D482mm
Overall: H53 x W305 x D500mm
091129

Topline 981
1.4kW induction and 2.5kW gas hob (1kW and 1.5kW). Auto heat up, pan detction, safety "glass hot" indicator, child safety lock and automatic safety cut-off. 12V ignition on gas.
Dimensions:
Cut out: W480 x D360mm
Overall: H100 x W500 x D380mm
091130

Topline 922
3kW (2 x 1.5kW) gas hob. 12V ignition.
Dimensions:
Cut out: W285 x D485mm
Overall: H95 x W305 x D500mm
091122

Topline 165
4kW (1.5kW and 2.5kW) gas hob. 12V ignition. Surface mounted, coated steel trim and frame with glass lid.
Dimensions:
Cut out: W566 x D349mm
Overall: H106 x W576 x D361mm
Hinged on long side **091125**
Hinged on short side **091126**

Topline 931
5kW (1kW, 1.5kW and 2.5kW) gas hob. 12V ignition.
Dimensions:
Cut out: W740 x D322mm
Overall: H95 x W770 x D350mm
091123

9 Series
6kW (4 x 1.5kW) gas hob. 230V ignition.
Dimensions:
Cut out: W490 x D455mm
Overall: H125 x W540 x D480mm
091124

Thetford Combination Units

Topline 169
5.5kW (2 x 1.5kW and 2.5kW) gas hob. 12V ignition. Surface mounted, coated steel trim and frame with glass lid.
Dimensions:
Cut out: W514 x D450mm
Overall: H105 x W546 x D482mm
091127

Topline 111
3kW (2 x 1.5kW) gas hob with sink. Includes tap hole (35mm) and 25mm waste outlet. 12V ignition. Surface mounted, coated steel trim and frame with split glass lid.
Dimensions:
Sink Inside: Ø235 x 140mm
Cut out: W888 x D358mm
Overall: H195 x W900 x D370mm
091160A

Grove PRODUCTS

Thetford Hobs

Basic Line 330
4.5kW (3 x 1.5kW) gas hob. 12V ignition.
Dimensions:
Cut out: W453 x D460mm
Overall: H100 x W480 x D480mm
Left hand   **091146A**
Right hand   **091147A** as illustrated

Basic Line 345
5.5kW (2 x 1.5kW and 2.5kW) gas hob. 12V ignition.
Dimensions:
Cut out: W527 x D429mm
Overall: H100 x W540 x D445mm
091149A

Argent hob
5.5kW (2 x 1.5kW and 2.5kW) gas hob. 12V ignition.
Dimensions:
Cut out: W545 x D433mm
Overall: H110 x W570 x D470mm
Left hand   **091162A**
Right hand   **091161A** as illustrated

Thetford Hob & grill

4 burner hob
4 x 1.5kW gas hoplate.
W500 x D400 x H88mm
091150

Hotplate
Free standing and portable unit. 4.8kW gas hob (2 x 1.6kW) with grill (1.6kW). Stainless steel lid/cover.
Dimensions: H160 x W445 x D345mm
091128

Thetford Ovens / Ovens with grill
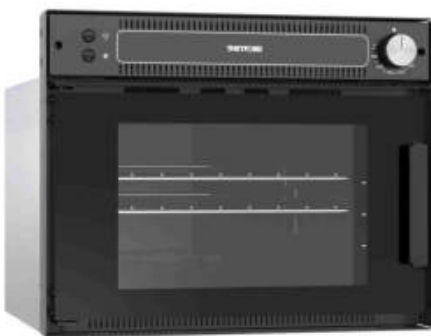
420 Oven only
1kW 23L oven. Includes 2 shelves, light and side opening (reversible) door. 12V ignition.
Dimensions: H x W x D mm
Overall: 335 x 418 x 440
Build in: 336 x 420 x 580
091171

525 Oven & Grill
1.0kW 23L oven with 1.5kW integrated grill. Comes with grill pan and 1 shelf. 12v ignition. Designed with a top hinge, to be installed above a 525mm wide fridge.
Dimensions: H x W x D mm
Overall: 369 x 525 x 480
Build in: 370 x 527 x 516
12V ignition   **091169**

Duplex Oven & Grill
1.6kW 36L oven with 1.6kW integrated grill. Comes with grill pan and 2 shelves. Peizo ignition.
Dimensions: H x W x D mm
Overall: 445 x 456 x 490
Build in: 438 x 445 x 490
12V ignition   **091172**
Piezo ignition   **091172P**

Grove
PRODUCTS

Thetford Cookers

Minigrill
4 Burner Hob & Grill
4 burner 5.5kW (3 x 1.5kW and 1 x 1kW) hob with 1.6kW 13L grill. Comes with gill pan. 12V ignition.
Dimensions: H x W x D mm
Overall: 311 x 513 x 500
Build in: 312 x 496 x 490
091172C

Triplex
3 Burner Hob, Oven & Grill
3 burner 6kW (2 x 1.8kW and 1 x 2.4kW with 1.6kW 36L oven and 1.6kW integrated grill. Comes with grill pan and 2 shelves. Dimensions: H x W x D mm
Overall: 311 x 513 x 500
Build in: 312 x 496 x 490
12V ignition   **091176**

Midi Prima MK3
Oven & Grill - 1/2 height
1.6kW 36L oven with 1.5kW 13L grill. Comes with grill pan and 2 shelves. 12V ignition.
Dimensions: H x W x D mm
Overall: 644 x 444 x 450
Build in: 646 x 445 x 490
091172A

Midi Prima MK3
Oven & Grill - 3/4 height
1.6kW 36L oven with 1.5kW 13L grill. Comes with grill pan, 2 shelves and an additional lower door for storage. 12V ignition.
Dimensions: H x W x D
Overall: 844 x 444 x 450
Build in: 846 x 445 x 490
091172B

Caprice MK3
4 Burner Gas Hob, Oven & Grill - 3/4 height
4 burner 5.5kW (3 x 1.5kW and 1 x 1kW) hob with 1.5kW 36L oven and 1.6kW 13L grill. Comes with grill pan, 2 shelves and lower door for extra storage. 12V ignition.
Dimensions: H x W x D mm
Overall: 844 x 513 x 500
Build in: 846 x 496 x 490
091181

Caprice MK3 Dual Fuel
3 Burner gas, 1 hotplate Hob, Oven & Grill - 3/4 height
3 burner 4kW (2 x 1.5kW and 1 x 1kW) gas, and a 0.8kW electric hotplate hob with 1.5kW 36L oven and 1.6kW 13L grill. Comes with grill pan, 2 shelves and lower door for extra storage. 12V ignition.
Dimensions: H x W x D mm
Overall: 844 x 513 x 500
Build in: 846 x 496 x 490
091189

Grove PRODUCTS

K1520
4 Burner Gas Hob, Fan Assisted Oven & Grill
4 burner 5.8kW (3 x 1.6kW and 1 x 1kW) gas hob with 2kW 37L oven and 1.8kW 19L grill. Comes with grill pan and 2 shelves. 12V ignition.
Dimensions: H x W x D mm
Overall: 645 x 515 x 501
Build in: 646 x 496 x 493
091187C

K1520 Dual Fuel
3 Burner Gas, 1 Hotplate Hob, Fan Assisted Oven & Grill
3 burner 4.2kW (2 x 1.6kW and 1 x 1kW) gas, and a 1kW electric hotplate hob with 2kW 37L oven and 1.8kW 19L grill. Comes with grill pan and 2 shelves. 12V ignition.
Dimensions: H x W x D mm
Overall: 645 x 515 x 501
Build in: 646 x 496 x 493
091188A

Aspire MK1 Dual Fuel
3 Burner gas, 1 hotplate Hob, Oven & Grill
3 burner 4kW (2 x 1.5kW and 1 x 1kW) gas, and a 0.8kW electric hotplate hob with 1.5kW 37L oven and 1.6kW 16L grill. Comes with grill pan and 2 shelves. 12V ignition.
Dimensions: H x W x D mm
Overall: 677 x 517 x 535
Build in: 670 x 503 x 530
091188B

Enigma
4 Burner Gas Hob, Oven & Grill
4 burner 5.5kW (3 x 1.5kW and 1 x 1kW) hob with 1.8kW 53L oven and 1.6kW 20L grill. Comes with grill pan, 2 shelves and lower door for extra storage. Enamelled oven and grill. 230V ignition.
Dimensions: H x W x D mm
Overall: 760 x 620 x 600
Build in: 750 x 602 x 600
091187A

Cocina
4 Burner Gas Hob, Oven & Grill
4 burner 6.5kW (1 x 2.5kW, 2 x 1.5kW and 1 x 1kW) hob with 1.8kW 56L oven and 2.5kW 25L grill. Comes with grill pan, 2 shelves and lower door for extra storage. 230V ignition. Fan assisted.
Dimensions: H x W x D mm
Overall: 766 x 618 x 600
Build in: 766 x 602 x 600
091187B

Oven shelves

Universal oven shelf
● Adjustable shelf
● Suitable for most ovens and fridges
● Width Min 350mm, max 560mm
● Depth 320mm
6 per outer
091190A

Stoves oven shelf
Width 355mm x depth 308mm
091193

Grove
PRODUCTS

Dometic cooking

Smev 9222 2 burner combi
Supplied with hole for optional tap (39mm), siphon and seal.
● Peizo ignition
● Power rating Output 1x1kw, 1x1.8kw
● Gas consumption 204g/h
● Gas supply pressure 30 mbar
● 2 burners
● W900 x D370 x H152mm
● Built in dimensions W793 x D307mm
● Weight 5.8 Kg
Right hand sink   **091223**
Left hand sink   **091224**

Smev 8322 2 burner combi
Supplied with hole for optional tap (39mm), AC 540 siphon and seal.
● 12v DC (electric ignition)
● Power rating 2.8kw (2 burner) 3.8kw (3 burner)
● Gas consumption 204 g/h (2 burner) 227 g/h (3 burner)
● Gas supply pressure 30 mbar
● Overall W680 x D440 x H142mm - Built in dimensions W666 x D426mm
● Weight 5.6 Kg
091225

Smev 8063 hob & lid
● 12v DC ignition
● Output 4.6kw
● Gas consumption 335 g/h
● Gas supply pressure 30 mbar
● 3 burners
● W560mm x D440mm
091219

Smev VA936 sink & drainer
With AC 540 siphon and rubber seal.
W590 x D370 x 125Hmm
091236

Smev 8005 sink & lid
Integrated heat-resistant safety glass, *no tap hole,* AC 540 siphon, rubber seal. W420 x D370 x H145mm
091234

Compact oven 600W
650w 9L compact oven
100ºc - 200ºc Temperature control
60 minute timer with automatic shut off and alarm bell. Double heat resistant tempered glass door. Includes aluminium baking tray, chrome wire rack and handle for rack/tray
091107

Smev 30 litre oven & grill FO311GT
● Voltage 12v DC (electric ignition)
● Oven output 1.2kw
● Gas consumption oven 87g/h
● Grill output 1.6kw
● Gas consumption grill 116g/h
● Gas supply pressure. 30 mbar
● Total output 2.3kw
● Total consumption 203 g/h
● Oven capacity 30L
● Stainless steel
● Thermostatically controlled
● Interior lamp
● Overall: W530 x D415 x H430mm
● Built in: W500 x D460 x H410mm
● Weight 19.5 Kg
091203

Smev 20 litre mini oven & grill FO211GT
● Same specification as 30 litre
● Oven capacity 20L
● Overall: W530 x D410 x H310mm
● Built in: W504 x D460 x H283mm
● Weight 13.2 Kg
091200

Grove PRODUCTS

Combination water and space heaters
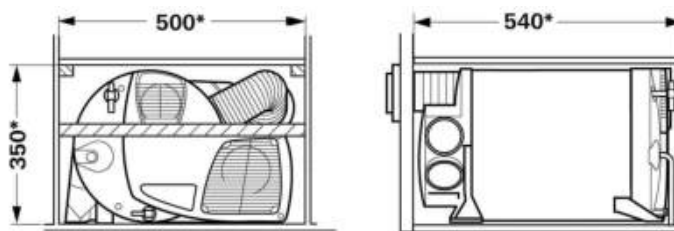
* Minimum installation dimensions.

WOW When buying a Combi, you must choose either a 4kW (2 heat settings) version or a 6kW (3 heat settings) version and whether it has the option for electric heating. You must then purchase separately a flue kit and any necessary warm air distribution ducting (See P161-162)

Truma Combi 4E, Combi 6 (E)
Heat air and water with 98% efficiency.
The Combi family hallmark is its incredible flexibility. Be it heating operation without water, or water heating without heating, you can enjoy double comfort with just one unit with the Truma Combi. All of the energy types are available – always with maximum efficiency and all of the technical advantages for your wellbeing. You are therefore not only looking after the battery, but also your wallet.
● Constant comfortable temperature
● Optimum warm air distribution through 4 warm air outlets
● Short water heating time, but no need to cut your shower short – enjoy!
● Durable stainless steel water tank
● The most lightweight and compact combination heater
● Interior installation
● Comes with FrostControl, the current-free safety drain valve with frost monitoring
● 10 litre capacity
● High heat output of 4000 W (Combi 4) or 6000 W (Combi 6)
● With integrated 1800 W heating elements
● Combined gas/electrical operation possible on 4E and 6E
● Straightforward connection to the existing gas system
● Environmentally friendly and maintenance-free
● Boiler heating time in accordance with EN 15033: approx. 20 min
● Extremely low power consumption: on average approx. 1.2 A, 0.2–5.6 A (12 V), 3.9–7.8 A (230 V - 4E and 6E)
● Low gas consumption: 160-320 g/h (Combi 4), 160–480 g/h (Combi 6), 80 g/h at 1000 W of heat output on average
Heater (excluding exhaust duct) comes complete with room thermostat, control panel with 3 m cable, mounting parts, current-free frost control safety/drain valve and elbow fittings for 10 mm Ø water hoses. *Models with water connections for semi-rigid piping (John Guest System) available on request.*
Combi 4E   **833710**
Combi 6   **833800**
Combi 6E   **833812** with John Guest fittings

Optional Elbow
For use with all models. Attaches directly to the outlet to redirect airflow.
834090A

Wall cowl Kit
Includes exhaust duct, air supply duct, clips and cowl
Cream **834111K**

Roof cowl Kit
Includes exhaust duct, air supply duct, clips and cowl
834122

WOW Combi 4E OEM kits are available to manufacturers only and are held in stock. Now including diesel only version. Please speak to your sales contact for more details

Storage water heaters

Truma Electroboiler 14 L
Electric 14 litre capacity boiler using innovative insulation which maintains the temperature of the hot water for longer periods of time making it extremely energy efficient.
● With control panel, 2.5m connecting cable and safety drain valve
● Minimal heat loss (approx 1.1°C per hour) due to EPP foam insulation
● Short heating time – from 15°C to 70°C in just 70 minutes
● 230v power supply
● 850w heating element (230v / 3.7A)
● Water pressure of up to 2.8bar
● Weight 3.0kg
● 40.5cm wide, 29.5cm in height
● Max water temp 70°C
871200

10L Electric Storage Heater
● The inner tank is made of enameled steel plate – tough, strong, resistant to corrosion and water scale, giving a long life.
● Ultra thick, non-CFC Polyurethane foam insulation
● Super compact design, novel and luxurious appearance, easy to mount
● Thermostatically controlled
● Multiple protection devices against, over temperature, over pressure and electricity-leakage.
● Choice of pipe connections and comes fitted with 3 pin plug for fast and easy installation.
● Dimensions H260 x W520 xD260mm

Voltage:	220V
Power:	900W
Frequency:	50-60HZ
Current:	4.1A
Max Pressure:	0.8MPa (116psi)
Min Pressure:	0.05MPa (7psi)
Temperature:	75°C
Socket:	250V, 16A
Efficiency:	>90%
Capacity:	10 liters

070754

Truma Ultrastore
● Stainless steel water tank
● Space saving – 10 litre tank only measuring 26cm in height
● Powerful 1.5kw gas burner
● Heating up time 35 minutes
● Reduces to 20 minutes with the gas and electric version
● Closed combustion system with wall flue
● Easy to operate – temperature selection approximately 30°C - 70°C
● Low battery load – 12v - ignition 0.17A – heating up 0.08A – stand-by 0.04A
● Suitable for all submersible and pressure pumps up to 2.8 bar
Supplied with fittings for John Guest 12mm
Rapid GE Gas and electric (450w)
10 litre complete with control panel
871552

> **WOW** Ultrastore OEM kits are available to manufacturers only and are held in stock. Please ask your sales contact for more details

Malaga 5E
● Capacity 13.5 litre
● Efficient gas burner for faster warm up
● 750W element – use on its own or with the gas burner for speed
● Small flue terminal – neat appearance outside the van
● Safe – combustion products are completely sealed from the caravan interior
● Easy to fit and service
● Electronic control
● Resettable cut out
● Dimensions H250 x W325 xD445mm
070741

Truma Therme TT-2
The proven Truma Therme warms water up using heat from the heating system – a warm air duct runs directly through the device. The Therme also features an electric heating element (300w) so water can be warmed up even if you do not have the heating on.
● Heating time (electrical operation) from approximately 15°C to approximately 60°C - 50minutes
● Power supply 230v 50Hz
● Power consumption 1.3Amp (300w)
● Temperature limit 65°C
● W220 xD370 x H230mm
● Water capacity 5 litres
● Operating pressure (max) 1.2bar
● Weight 2Kg
842012

Therme spare parts
Water container	**801500**
Heating element	**814200**
Drain valve	**800400**
Control panel	**819900**

Kronings RVS Water boiler
Replacement water container for the Truma Therme in stainless steel manufactured by Kronings.
Reduces the risk of frost damage. 6 litre tank capacity. Easy and simple to replace existing tank 15 to 20 minutes. No plastic taste in water. Fit in original mounting caps and hoses
070766

Cascade/Malaga adaptor plate
070742

Malaga flue terminal
070736

Grove
PRODUCTS

Forcali water heaters

070691
Roof Flue Kit
For 6 litre
For 10 litre

070693

070691
070693

070690   **070692**

Forcali LPG 6 (FWH-6A-GLP) and 10 (FWH-10A-GLP) litre water heaters operate without a pilot light offering high performance and safety at a size unthinkable until now. To replace an older style model you will need to fit the stand off brackets supplied to bring the flue in line. With the advantages and safety of no permanent flame, the heaters have lower gas consumption and far higher water temperature.

070694

Forcali FS-12S-GLP is a room sealed water heater with electronic ignition. It is a state of the art modern appliance that can operate at extreemly low water pressure and flow rates. It uses a mere 35 Watts maximum, and can be installed using an industry standard horizontal flue.

	FORCALI 6	FORCALI 10
Combustion Type	Atmospheric	Atmospheric
Ignition	3v (2 x LR20)	3v (2 x LR20)
Water Flow rate	6 litres / min	10 litres / min
Useful Power	12 kW	20 kW
Flue size	90mm ø	110mm ø
Connections	½"	½"
Energy Efficiency Rating	A	A
Dimensions (mm)	440 x 300 x 160	550 x 330 x 205
Weight	4.3kg	10.2kg
Part Number	**070690**	**070692**

	FORCALI 12
Combustion Type	Room sealed
Ignition	220v
Water Flow rate	12 litres / min
Useful Power	24 kW
Flue size	60/100mm ø co axial
Connections	½"
Energy Efficiency Rating	A
Dimensions (mm)	515 x 325 x 167
Weight	12kg
Part Number	**070694**

Morco water heaters

The new Morco Primo water heaters are direct replacements for the D61B, D61E and G11E. The flue diameter is the same, so if you are replacing a D61 or G11 you can use the existing flue.
They are piezo ignition and are not available with an electronic ignition.
The Primo 6 replaces the D61
The primo 11 replaces the G11E

The MPFK fitting/conversion kit will be required in order to fit the water heater in all circumstances and is NOT INCLUDED with the heater.

070704   **070708**

Morco Primo Fitting Kit
This kit is required for all Morco Primo water heater installations. It contains a 15mm gas isolation valve.
070704FIX

	MORCO PRIMO 6	MORCO PRIMO 11
Combustion Type	Atmospheric	Atmospheric
Ignition	Piezo	piezo
Water Flow rate	6 litres / min	11 litres / min
Nominal Power	10.1 kW	19 kW
Flue size	90mm ø	110mm ø
Connections	½"	½"
Energy Efficiency Rating	A	B
Dimensions (mm)	550 x 256 x 245	592 x 314 x 245
Weight	8kg	10.6kg
Part Number	**070704**	**070708**

Flue cowl
Primo 6   **070728**
Primo 11 **070710**

Flue Pipe
070730

Grove PRODUCTS

Blown air space heaters

PROPEX

Ducting 60mm per metre	**090018**
Outlet (no reducer)	**090019**
Reducer	**090017**
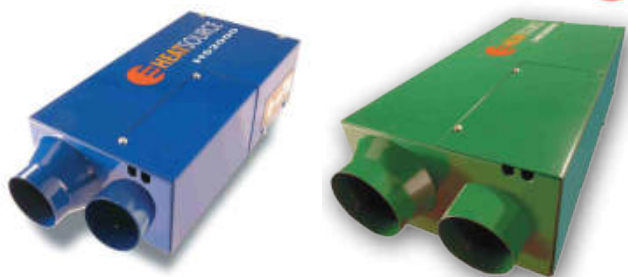
Propex heatsource
Comes with control panel, wiring loom, 3/4 meter exhaust/inlet flue, one meter of ducting, hose clips, fasteners and one air outlet.
- The smallest of this type of heater on the market.
- One of the quietest combustion heaters in production
- Designed for reliable, maintenance-free operation
- Fast warm-up time
- Airflow sensing detects blocked or restricted flue pipes
- Self-diagnostic fault finding

kronings

Blown air heaters
*Gas and current consumption is calculated on a 'continuous running' basis

Model	Heatsource 2000	Heatsource 2800
Average gas consumption	128g/hr	225g/hr
Heat Input	2kw	3kw
Heat Output	1.8kw	2.8kw
Voltage	12v or 24v	12v or 24v
Current consumption	1.2A	1.9A
Air throughput	50 C.F.M.	85 C.F.M.
Dimensions (mm)	312 x 168 x 95	415 x 210 x 120
Part Number	**090016**	**090028**

HEAT 1500+
Mains electric heating system with 100% thermostatically controlled blower. Ceramic heating elements with 180m^3 per hour low volume blower. Temperature range 10˚C to 30˚C.
- 230v electric heating system
- Fully thermostatically controlled
- Can be combined with the vehicle's original heating system or used as a stand alone system
Dimensions:
Heat 1500+ Heater & control only	**090110**
Heat 1500+ Fan Protector	**090112**
Heat 1500+ Y Adaptor	**090114**
Heat 1500+ Controller	**090116**

Fans and air distribution

Trumavent fans
For use with Trumatic S heaters. Circulates hot air throughout the vehicle.
- In all Trumavent fans a flap enables you to individually regulate the air output between the two warm air outlets to suit the room division
- On the TEB-2 / 3 with automatic speed control the air output adjusts to the respective thermal output
- High air flow rate of over 200,000l/h

Awning warmer
For guiding the warm air from the existing caravan heater directly into the awning.
Contents:
- Warm air outlet with cover
- 1 metre of ducting
- 65mm diameter straight connector
- T-pipe TS and duct shut-off SP2
White **840365**

TEB 3 / TN 3　　**Multi-vent**

	TEB 3	TEB 3	TN-3	Multivent
Power Supply	12v	12v	230v	12v
For use with	S3004	S3004	S5004	S2200 / Extractor
Control	Case control	Wall control	Wall control	
Part no.	**841241**	**841242**	**841251**	**841140**

Grove PRODUCTS

Radiant heaters

WOW Please order the heater and front casing separately.

Titanium Grey
(aka Titan Grey)

Pearl Grey

Trumatic S3004 gas heater
Designed for use in average sized caravans
● Automatic ignition
● Thermostat and installation box as standard
● Choice of colour on casing
● Uniform heat distribution with the addition of a Trumavent fan
● Exhaust duct via the roof
● Thermal output 3.5kW
● Gas consumption 30 - 280 g/h
S3004 gas heater with auto ignition
831380
Front case Titanium grey
830060TG
Front case Pearl grey
830060PG

Trumatic S5004 gas heater
For large caravans and motor homes
● With automatic ignitor
● Exhaust duct via the roof
● Thermostat and installation box as standard
● Even heat distribution and full utilisation of the high heating capacity with the addition of a Trumavent fan
● Thermal output 6kW, gas consumption 60 - 480 g/h
S5004 heater
831570
Front case Titanium grey
830070TG
Front case Pearl grey
830070PG

Roof flue kit For S3004 and S3002 (3m duct)
830330

Grove PRODUCTS

Trumatic S2200 gas heater
With 1850 watts of power, this compact heater is the ideal solution for heating a small caravan quickly.
● Gas consumption: 50-170 g/h
● Auto ignitor or piezo ignitor
S2200 Auto Left hand   **831111**
S2200 Auto Right hand   **831111R**
S2200 Piezo Left hand   **831132**
S2200 Piezo Right hand   **831132R**
Rear panel for left hand installation
830190
Rear panel for right hand installation
830191

Wall flue kit
Long for S2200
830322

55mm Stainless Ducting
Priced by the metre sold in 20m rolls
801536

65mm KR65 Ducting
For use with saphire air conditioning.
Priced and sold in 15m rolls
840201
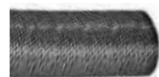
64mm ZR24 Air supply
Priced and sold by the metre
839421

49mm ZR18 Ducting
Priced and sold by the metre
839170

Exhaust duct AA 24, Ø 33 mm
Priced and sold by the metre
839420

Ultraheat electric heater
Additional electric heater with thermostat, control panel and 3 metre connecting cable. Installation is between the heat exchanger and installation box
IMPORTANT!! Installation must be carried out by an expert
● Power supply: 230v/50Hz
● Power consumption at power rating
    500w: 2.2A
    1000w: 4.5A
    2000w: 8.5A
Suitable for use with Trumatic S3002, S5002, S3002(P) after July 1981, Trumatic S5002 after April 1998 (with semicircular front design) *and with the new Trumatic S3004 / S5004.*
Installation is between the heat exchanger and installation box
830402

65mm Ducting
Priced by the metre sold in 20m rolls
801288

70mm Insulation Ducting
To insulate 801288 when ducting passes through the floor of the vehicle.
Priced by the metre sold in 10m rolls
801291

72mm VR Ducting
Priced and sold by the metre
839550
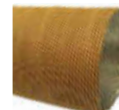
80mm VR Ducting
For use with Varioheat / E2400
Priced and sold by the metre
839580

35mm Perforated Ducting
Priced and sold by the metre
840320

Truma warm air distribution
Suitable for all warm air distributing heaters

Air Outlet
With throttle. Other colours available to order
Grey **801321**
Black **801323**

Lamellar insert
Beige   **872102**
Grey   **872101**

Back nut
Use with end air and swivel outlets
801325

Swivel Air Outlet SCW2
Comes with adapters for various ducting
Beige **839972**
Black **839971**

Straight
840160

Elbow
876400

T-Piece
801328

T-Piece Outlet
Use with end outlet
840151

Branch T AT
840130

Corner air outlet
Grey Ø 35 mm
803101

Blank cover
801335

Y piece
80mm to 2 x 65/72mm
839610

Elbow combi
834090A

Reducer RZ
72/65 to 49mm
881300

Clamp ZRS
Ø 80 mm
839590

Duct clip
Ø 35 mm
840330

Truma Spare Parts Kits

WOW Some spare parts from Truma are now available only as part of a kit.

Combi Heat Exchanger Kit
For all combis
Contents:

34020-61000	Heat exchanger
34020-08800	Seal 80 x 2mm
34020-52900	Sealing bracket
34020-55000	Form seal
34020-60000	Screw/nut set
34020-60600	Round cord seal set
34020-24000	Ducting clips x 3

861101K

Combi Water Container Kit
For all combis
Contents:

34020-64500	Replacement tank
34020-08800	Seal 80 x 2mm
34020-52900	Sealing bracket
34020-55000	Form seal
34020-60000	Screw/nut set
34020-60600	Round cord seal set
34020-24000	Ducting clips x 3

833812K

Combi Heating Element Kit
For Combi E
Contents:

34020-61100	Heating elements
34020-08800	Seal 80 x 2mm
34020-52900	Sealing bracket
34020-55000	Form seal
34020-60000	Screw/nut set
34020-60600	Round cord seal set
34020-24000	Ducting clips x 3

861100K

Frost Control JG Kit
For all combis with John Guest pipework
Contents:
34020-80300   Frost control 2.8bar John Guest

880300K

Frost Control TB Kit
For all combis with flexible pipework
Contents:
34020-80200   Frost control 2.8bar 10mm
40060-88500   Hose clamps

834101K

Grove PRODUCTS

Truma Spare Parts Kits

Combi Solenoid Valve Kit
For combis made before 04/13
Contents:
34020-63000   Solenoid Valve
70000-54600   Set coil holders
10020-25000   Nut m4
34020-24000   Ducting clips x 3
863002K

Combi Solenoid Valve Kit
For combis made from 05/13
Contents:
34020-59000   Solenoid Valve
70000-54600   Set coil holders
10020-25000   Nut m4
34020-24000   Ducting clips x 3
863001K

Combi Combustion Air Motor Kit
For all combis
Contents:
34020-60300   Motor
10010-13800   Screws
34020-24000   Ducting clips x 3
860300K
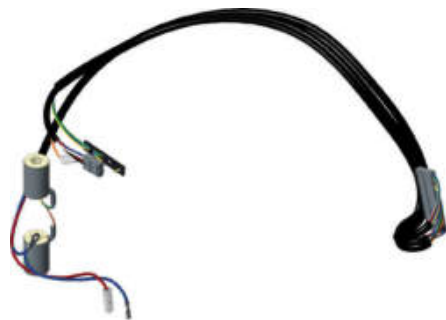
Combi 4/4E Wiring Harness Kit
Contents:
34020-62500   Combi 4 harness
34020-08800   Seal 80 x 2mm
34020-52900   Combi sealing kit
34020-60600   Round cord seal set
34020-08600   Cable bushes
34020-14900   Thermostat plate
833711K
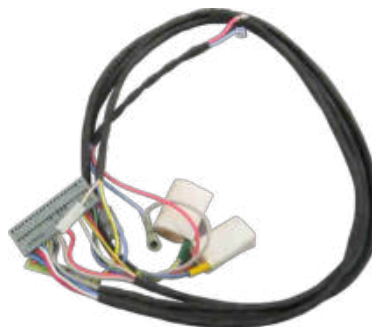
Combi 6/6E Wiring Harness Kit
Contents:
34020-62400   Combi 6 harness
34020-08800   Seal 80 x 2mm
34020-52900   Combi sealing kit
34020-60600   Round cord seal set
34020-08600   Cable bushes
34020-14900   Thermostat plate
833811K

Combi Fuse Kit
For all combis
Contents:
34010-05900   Fuse 10AT, H x 10
805900K

Combi D Glow Plug Kit
For all deisel combis
Contents:
34020-89400   Glow plug 12v
34030-68800   Gasket set
898305K

Combi Cover Kit
For all combis
Contents:
34020-07100   Cover combustion air
34020-07300   Grill
34020-21600   Cover circulation air
10010-13800   Screw
34020-24000   Ducting clip x 3
833814K
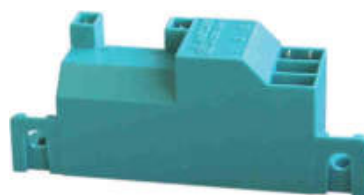
Combi Ignitor Kit
For all combis
Contents:
34020-60200   Combi ignitor
10010-13800   Screws
34020-24000   Ducting clips x 3
833815K

Ignition Electrode Kit
For combi C3402/4002/6002
Contents:
34000-76500   Rectification plug
34000-76300   Ignition plug left
34000-76400   Ignition plug right
10030-27000   O ring
10030-23600   O ring
801334K

Combi Seal Kit
For all Combis
Contents:
34020-09900   Leadthrough bushes
34020-08700   Seal 79 x 3mm
34020-60600   Round cord seal set
10030-24200   O-ring 22 x 3mm
34020-08800   Seal 80 x 2mm
34020-08600   Cable bushes
34020-19700   Profiled gasket
34020-55000   Form seal
34020-52900   Sealing bracket
833816K

Grove PRODUCTS

Truma Spare Parts Kits
Radiant heater spares

S3002 / S3004 30mbar Burner Kit
Contents:
30090-18600	Burner 30mbar
30090-16900	Thermocouple
30090-22400	Piezo electrode 1m
10010-71300	Screws x 2
30090-22600	Instulation hose
30030-39700	Burner tube 30mbar
30030-39900	Pilot burner tube
30010-11900	Union screw x 2
10030-26500	O-ring 52 x 5mm

803202K

S3002 50mbar Burner Kit
Contents:
30040-18700	Burner 50mbar
10030-26500	O-ring 52 x 5mm

803201K

S3002 Operating Kit
Contents:
30040-13600	Ignitor rod
30040-40400	Control knob
30040-60700	Knob socket

813600K

S3002 Peizo ignitor Kit
Contents:
30040-62900	Peizo ignitor
30030-85700	Earth spring

800300K

S3002/S5002 Safety Pilot Valve Kit
Contents:
30050-58000	Safety pilot valve
10030-26500	O-ring 52 x 5mm
20000-37600	Manifold valve nut
20000-41100	8mm Brass olive

859700K

S3004 Peizo ignitor Kit
Contents:
30090-18000	Peizo ignitor
30090-14200	Earth spring

818000K

S3004/S5004 Safety Pilot Valve Kit
Contents:
30090-90800	Safety pilot valve
10030-26500	O-ring 52 x 5mm
20000-37600	Manifold valve nut
20000-41100	8mm Brass olive

890800K

Alde Anti-freeze

Premium G13 Antifreeze
Premixed and ready to use ethylene glycol antifreeze, specially formulated for Alde heating systems and containing silicated OAT. VAG G13 Spec. Protects to -37°C, with 5 year corrosion protection
Alde G13
1L 12 per outer	**899600**
25L	**899602**

G13 concentrate (alternative brand)
Dilute with 2 parts water to 1 part concentrate for protection to -20°C
1L 12 per outer	**899600A**
25L	**899602A**

Grove PRODUCTS

Alde servicing equipment

Service Pump with 5m Hose
1900-811
The Alde service pump is an unbeatable aid for filling Alde heating systems. The unit allows the operator to quickly fill and remove air from even the largest heating system in minutes. It is an essential tool for service centres and dealers working with Alde systems, as it also allows for quick and easy replacement of the glycol fluid. Not for use with bottom-filled systems.
899610

12V Circulation pump and plug
2928-420
Circulation pump 12 V for installation in the expansion tank 3000 420 and 3000 495. Plug.
Power consumption 0.2A.
899622

Expansion Tank Wall
Expansion tank including wall-mounting, mounting nuts for circulation pump and drainage hose. Reversible for adaptation to the heating system's pipes.
- Width: 180 mm
- Height: 231 mm incl caps and connecting pipe
- Depth: 75 mm
- Volume: 1.5 litre
- Connection: Ø 22 mm
899625

3010 Compact PCB
Circuit board with ignition transformer
2kW   **899640**
3kW   **899642**

12V In-line Circulation pump
3010-522
Circulation pump for mounting on Compact 3010 or 3020. Five speed with adjustable dial on motor.
- Power consumption 12 Volt: 0.25 - 1.6 A.
- Ø 22 mm connection.
899620

Clear Braided hose
For fluid change. Priced by the meter, sold in 6 metre lengths.
899604
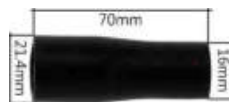
Straight 22-16mm
Hose reduction 16 > 21.4 x 4.25 mm. EPDM. Can be used for replacing glycol fluid with 1900-811 and 1900-839 Alde service pump
899608

Elbow 22-19mm
Rubber elbow 90° with reduction 19 > 21.4 x 4.25 mm. EPDM. Can be used for replacing glycol fluid with 1900-811 and 1900-839 Alde service pump. With mounted band clips
899606

Grove
PRODUCTS

Mobile heating

Mini Radiant heater
- Piezo ignition model
- Infrared, fast heating, energy saving
- Flame failure protection device
- 3 ceramic plates
- Three power setting, power settings from 1.3kW To 4.1kW
- Castors for easy moving
- Space for gas cylinder up to 7kg
- Foldaway base plate
- Gas hose and butane clip-on regulator supplied
- Dimensions H 57 x 38 x 39 cm
Black **090088B** Red **090088R**

Radiant heater black
- 4.2 kW of heat output (1.4kW per plaque)
- Full anti-tilt safety device
- Consumption 100g/h per plaque
- Fully CE approved BS EN449:2002
- Easy rolling swivel castors
- Gas hose and butane clip-on regulator supplied
- Suits up to 15kg gas cylinders
- W403x D367 x H625mm
- Weight 6.8kg
090085

Oscillating halogen heater
- Instant heat
- Voltage 230v – 50Hz
- On/off oscillating facility
- 3 heat levels – 400/800/1200w
- Safety cut off feature
- Thermofuse cut off
Singly or 6 per outer
090066

Quartz heater
- Instant heat
- Safety cut off feature
- 2 heat settings – 400/800w
- Voltage 230v – 50Hz
- Easily cleaned
- Simple controls
- Carry handle
090065

Frost watcher 500w
- 230v heater
- Ideal for caravans to protect against frost over winter
- Thermostatic control
- H 230 x W 250 x D 105mm
Singly or 6 per outer
090069

Mini radiator 500W
- 5 Fins
- 500W
- Easy to assemble
- Portable with a carry handle.
- 1.2m cable length.
090093

Mini radiator 850W
- 7 Fins
- 850W heat output
- Thermostatically controlled
090092

Mini radiator 1kW
- 9 fin
- 1kW heat output
- Thermostatically controlled
- Dimensions: 43 x 41 x 13cm
- Weight: 4.5kg
090094

Grove PRODUCTS

Cooking spares

THETFORD COOKING						
091002 Caprice knob set Satin (6)	**091004A** Caprice/Triplex knob set Satin (6)	**091016** Triplex/Cara knob set Black (6)	**091012A** Thermocouple kit Thetford hob (4)	**091173** Thermocouple kit Duplex/Triplex	**091191** Oven door inner glass	**091000K** Pan support clips (4)

Heating spares

ULTRAHEAT			
869300 Ultraheat electronics (PCB)	**870100** Ultraheat heating element	**865100** Temperature control device	**865200** Temperature limiter
809300 Control panel cable 3 m	**809400** Control panel cable 5 m	**834200** Room temperature sensor FFC 2 ONLY	**834205** Cable for remote sensor FF 2, 4 m
834206 Adapter cable jack socket	**871000** Ultraheat sensor	**898400B** Control panel black	**898500** Ultraheat Control panel original

S2200			
842700 Mica window cpl.	**813900** Thermocouple	**824160** Magnet inset mini	**830191** Rear Panel Right
801263 Roof cowl AK 3, Ø 60 mm	**801020** Cowl roof KD	**820600** Sealing ring S3	**830190** Rear Panel Left

Grove PRODUCTS
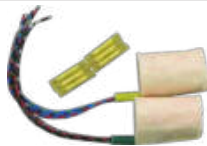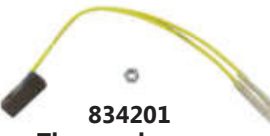
Heating spares

S 3002 / S 5002			
803202K **Burner complete S3002/** **S3004 30mbar**	**803201K** **Burner complete S3002/** **S3004 50mbar**	**859700K** **S 3002/S 5002 safety pilot** **valve kit**	**813900** **S 2200/3002/5002 thermocouple**
865800 **S 3002 electrode 45 cm** 30mbar 08/04-12/14, 50mbar 08/04-06/06	**865900** **S 3002(P) electrode 75 cm** 30mbar 05/96-05/99 & 08/04-12/14, 50mbar 08/04-06/06	**808600** **S 5002 electrode 55cm**	**842700** **Mica window**
816100 **Shield**	**824160** **Magnetic inset mini**	**824159** **MS-nut**	**803100** **Feed Pipe** 05/98-05/99
804300 **Extension Cpl.**	**804800** **Air intake extension** **500mm**	**817500** **Perforated plate**	**828500** **Extension spring**
800300 **S 3002(P) Piezo ignition** 05/96-05/99	**800300K** **S 3002(P) Piezo ignition kit** from 05/99	**860000** **S 3002 (P)/5002 retaining** **spring**	**850187** **S 5002/S 5004 ignition pipe**
813600K **Operating kit S 3002**	**853700K** **Operating kit S 5002**	**860900** **S 3002/5002 blank cover** **52 mm**	**860800** **S 3002 blank cover 35 mm**
863000 **S 3002 Cover black/brown**	**852700** **S 5002 Cover black/brown**	**818700** **S 3002 knob socket** 05/96-05/99	**858100** **Microswitch**
803600 **Exhaust duct fitting AE 3**	**826500** **O-ring 52x5**	**853000** **Automatic ignitor**	

Grove PRODUCTS
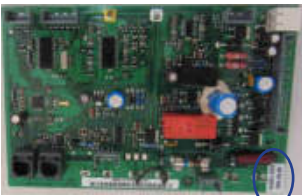
Heating spares

S 3004 / S 5004			
842700 Mica window cpl.	826500 O-ring 52 x 5 mm, VMQ, 40 Shore A	803600 Exhaust duct fitting AE 3	818000K S 3004 P piezo ignitor kit
820700 S 3004 control rod	890800K S 3004/S 5004 safety pilot valve kit	853000 Automatic ignitor	850187 S 5002/S 5004 ignition pipe
858100 Micro switch	824160 Magnet inset	824159 Ms-nut	803202K S 3002(P)/3004(P) burner cpl. 30 mbar
802000 S 5004 burner set 30 mbar	891200 S3004/S5004 ignition electrode 53 cm	804300 Extension complete	804800 Air intake extension 500mm
817500 Perforated plate	828500 Extension spring	810170 Elbow union 8 mm	
894900 Cover S3004	890400 Control knob	830060PG S3004 Front case pearl grey	830060TG S3004 Front case titan grey
830070PG S5004 Front case pearl grey	830070TG S5004 Front case titan grey		

Heating spares

FANS			
845000 **TEB-2 Control panel cable** **0.8 m**	**846000** **TEB-2 control panel,** **integrated**	**857100** **TEB-2 electronics**	**893400** **TEB-3 electronics**
842000 **TEB-2/TEN-2, D.C. motor** **12 V**	**842400** **TEB-2/TEN-2, 12V motor &** **fan wheel**	**893600** **TEB-3/TEN-3, D.C motor** **12V**	**814300** **Multivent D.C motor 12v**
	E 2400		
828800 **Carbon brush kit, white/** **black**	**819000** **E 2400 ignitor**	**877300** **E 2400 remote sensor**	**804901** **E 2400 electronics 12v** 06/12-12/16
TRUMATIC COMBIS			
898000 **PCB C 3402** from 05/2002	**806900** **PCB C 6002 EL**	**898300A** **PCB C 6002** 07/01-07/09	**807101** **PCB C 6002** 06/97-06/01
807100 **PCB C 6002 CEH**	**833100** **Fine wire fuse 4 AT**	**898501A** **C 3402 valve body, 30 mbar**	**898501B** **Solenoid coils**
834201 **Therm. observer** **temperature**	**834300** **Temperature sensor**	**855000** **Combustion air fan**	**834200** **Room temperature sensor** **FFC 2 ONLY**
898306 **O-ring 40 x 2.5 mm, VMQ**	**801334K** **Trumatic C ignition** **electrode kit**	**801040** **Water container**	**814302** **D.C. motor 12V C6002D**
876800 **Fine wire fuse 6.3 AT**	**898301** **C 4002/6002 (EH) valve** **body, 30 mbar**	**802502** **Cable red 230v elements**	**802503** **Cable white 230v elements**

Grove PRODUCTS

Heating spares

TRUMA COMBIS			
833814K Combi (E) cover kit	**833816K** Combi (E) seal kit	**833815K** Combi (E) ignitor kit	**860300K** Combustion air motor kit Combi (E)
833813K Combi (E) burner kit	**860802** Combi ignition electrode kit	**861101K** Combi heat exchanger kit	**861100K** Combi E heating element kit
861300 D.C. Motor	**833812K** Combi (E) water container kit	**805900K** Combi microfuse kit T10AH 10 pcs.	**863800** Combi / Combi D PCB, 230 V
818200 Combi 4 PCB	**818201** Combi 4 E PCB	**861900** Combi 6 PCB	**826600** Combi 6 E PCB
863001K Combi E 2SO solenoid kit After 04/13	**863002K** Combi E 2S solenoid kit 06/07-04/13	**833811K** Combi 6 E cable harness	**833711K** Combi 4 E cable harness kit
863200 Water temp. sensor harness / **834201** Over temp. sensor	**834205** 4m Cable for remote sensor / **861500K** Thermostat plate kit LTF	**898305K** Combi D glow plug kit	**833101** Combi E element replacement tool kit

Heating spares

EXHAUST & AIR SUPPLY			
834111K **Cream** **Wall cowl kit CW**	**834015** **Wall cowl WKC, bianco**	**834009** **Wall cowl WKC, black**	**822300** **S 2200 Wall cowl disc**
833600 **Cowl outer part WKC,** **cream**	**810600** **Cowl outer part WKC,** **bianco**	**812207** **Cowl outer part WKC, light** **grey**	**807301** **S 2200 air intake grille**
840660 **Air intake nozzle DT** **Ø 80 mm**	**840670** **Air intake nozzle DM**	**871800** **Hose clamp DIN 3017** **A-50-70x9-W2**	**898306** **O-ring 40 x 2.5 mm, VMQ**
801020 **Exhaust cowl screw top** **AK3**	**830702** **Exhaust cowl screw top T2**	**830703** **Exhaust cowl screw top T3**	**820600** **Sealing ring S3**
830690 **Roof cowl extension SKV 45cm**	**820800** **Cowl extension AKV 15cm**	**812206** **Roof cowl extension KVC**	**830651** **Roof cowl AK 3, Ø 60 mm**
843200K **Ultrastore cowl kit,** **pure white**	**870122** **Cowl cover** **KBS 3, pure white**	**812208** **Cowl cover** **KBS 3, bianco** · **870121** **Cowl cover** **KBS 2, cream**	**870131** **Flue extension** **VBO 2**

Heating spares

ULTRASTORE / BOILER / THERME			
814200 **Therme heating element, 230 V**	**802500** **Heating element 230V 450W**	**802501** **Heating element 230V 850W**	**802505** **Heating element 230V 1300W**
802502 **Cable red 230v elements**	**802503** **Cable white 230v elements**	**856300** **Cable harness**	**846022A** **Sealing ring**
861000 **Water container b 10 litre**	**801500** **Water container with insulation**	**828900** **Fine wire fuse 1.6 AT**	**899500** **PCB**
834201 **Over temperature sensor**	**834300** **Temperature sensor**	**854200** **Boiler burner**	**856200** **Flame rectifier electrode**
838200 **Solenoid valve 30 mbar** (05/14-04/16)	**803300** **Non return valve TB 10mm**	**803400** **Non return valve JG 12mm**	**800400** **Drain valve cpl.**
825001 **O-ring 32 x 2.8 mm, VMQ** before 12/14			

Heating spares

CONTROLS AND WATER SUPPLY			
863900 Elbow connection valve JG 10 / TB 10	**864000** Elbow connection valve JG 10 / JG 12	**834151** Elbow connection valve M 20 / TB 10	**834153** Elbow connection valve M 20 / JG 12
816900 Elbow fitting JG 10 / TB 10	**816200** Elbow fitting JG 10 / JG 12	**870151** Elbow fitting M 20 / TB 10	**870153** Elbow fitting M 20 / JG 12
870145 Drain valve JG 12 / 2.8 bar	**880300K** FrostControl kit JG	**814102** Drain valve TB 10 / 2.8 bar	**834101K** FrostControl kit TB
800400 Drain valve cpl.	**811051** Control panel cable 3 m	**811052** Control extension panel cable 9 m	**833712** Control panel connecting cable
896200 Control panel cable 3 m	**853500** Control panel cable 5 m	**860600** Cover frame black	**899400** Control knob printed be- fore 06/06
801600 Therme Control panel 230v to 04/02	**819900** Therme Control panel	**804900** Ultrastore Control Panel 230V	**806700** Ultrastore / Boiler Control Panel
836400A CP plus control panel	**836001** CP classic single pack includes 860600	**811200** CP Combi electric	

Grove PRODUCTS

THETF☼RD N4000 series refrigeration

The next generation of absorption refrigerators

WOW A comprehensive range, Thetford fridges are supplied with a left hand hinge but can be easily changed to right hand (kit included). Framed doors come with a panel supplied. Frameless are solid black. With power cables and 8mm gas inlet tube at the rear base of the refrigerator.

New interior designs

New door bins and vegetable bins for N4080-N4112

New interior for N4145-N4175

Ice grey door bins and slide-out box for N4141 & N4142

New displays
2 versions available, "E+" with blue LED controls and "A" with LCD touchscreen controls.
Both versions now have automatic energy source selection.
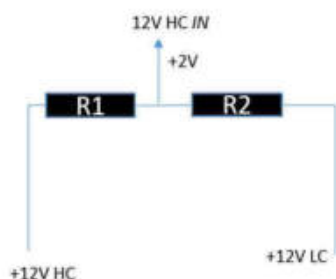
2 way or 3 way installation
A solution for caravans where 12v is not provided by the car or the power is too low and it is not desired to offer a 12v function.
The switch is done during installation, by a cable bridge between the low current +12v and the low current earth via two resistors.

Improved 230V performance
230V supply is not always stable on all campsites, the cabinet temperature is currently dependent on the input voltage. Now the cabinet temperature is independent of the input voltage. High performance from 205V to 250V.
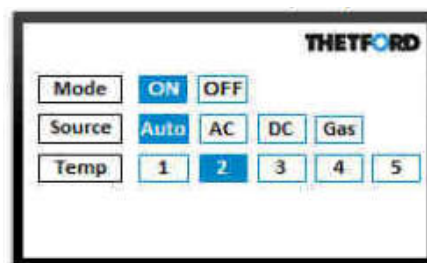
Caravanning Industry- databus (CI-BUS) compatible
With open source programing, it is possible to select, on/off, power source and cabinet temperature from the central display of the vehicle.

Counter height refrigerators

THETFORD
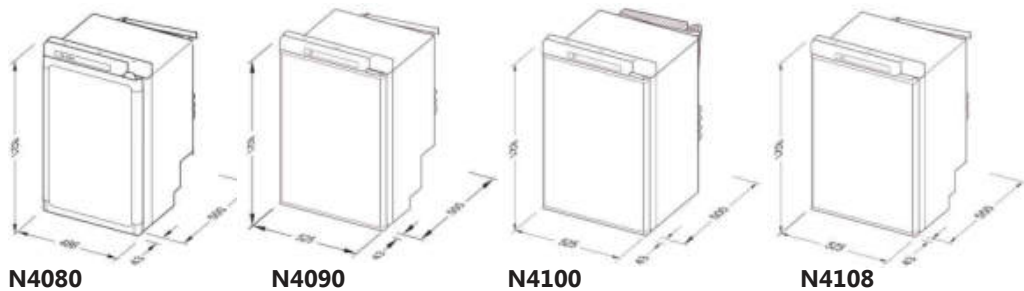
N4080

N4090

N4100

N4108

N4080
Flat Door 486mm Width

NOTE Series 3 refrigerators are being phased out and replaced by series 4. Series 4 will only be available when series 3 are sold through. Please enquire before ordering, if model version is important. Overall dimensions are the same!

N4097

N4104

N4112

N4090 / N4100 / N4108
Flat Door 525mm Width

N4097 / N4104 / N4112
Curved Door 525mm Width

MODEL	N4080E+	N4090E+	N4090A	N4097E+	N4097A	
Gross capacity **Of which Freezer**	81 litre 10 litre	89 litre 11 litre		96 litre 11 litre		
Consumption **Gas**	2.4 kWh/24h 240 g/24h	2.6 kWh/24h 270 g/24h		2.6 kWh/24h 270 g/24h		
Wheel arch model	Yes	Yes		Yes		
Display	LED	LED	LCD	LED	LCD	
Door	Flat	Flat		Curved		Curved Frameless
Part Number	**089068**	**089068B**	**089068A**	**089068F**	**089068D**	**089068E**

MODEL	N4100E+	N4100A	N4104E+	N4104A	
Gross capacity **Of which Freezer**	97 litre 11 litre		105 litre 11 litre		
Consumption **Gas**	2.8 kWh/24h 330 g/24h		2.8 kWh/24h 330 g/24h		
Wheel arch model	No		No		
Display	LED	LCD	LED	LCD	
Door	Flat		Curved		Curved Frameless
Part Number	**089071**	**By request**	**089072C**	**089072A**	**089072B**

MODEL	N4108E+	N4108A	N4112E+	N4112A	
Gross capacity **Of which Freezer**	106 litre 14 litre		113 litre 11 litre		
Consumption **Gas**	2.6 kWh/24h 270 g/24h		2.6 kWh/24h 270 g/24h		
Wheel arch model	Yes		Yes		
Display	LED	LCD	LED	LCD	
Door	Flat		Curved		Curved Frameless
Part Number	**089072E**	**089072D**	**089069B**	**089069A**	**089069**

Grove PRODUCTS

Tall refrigerators THETFORD
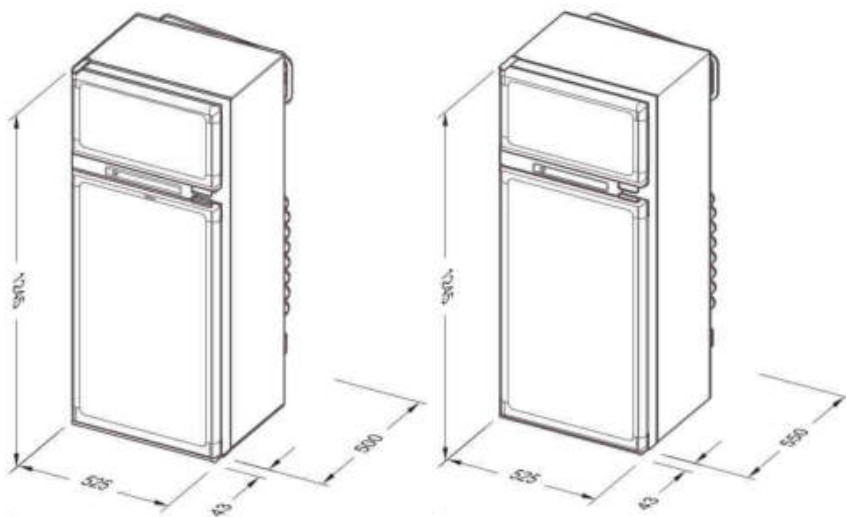
N4145

N4170

N4145 / N4170
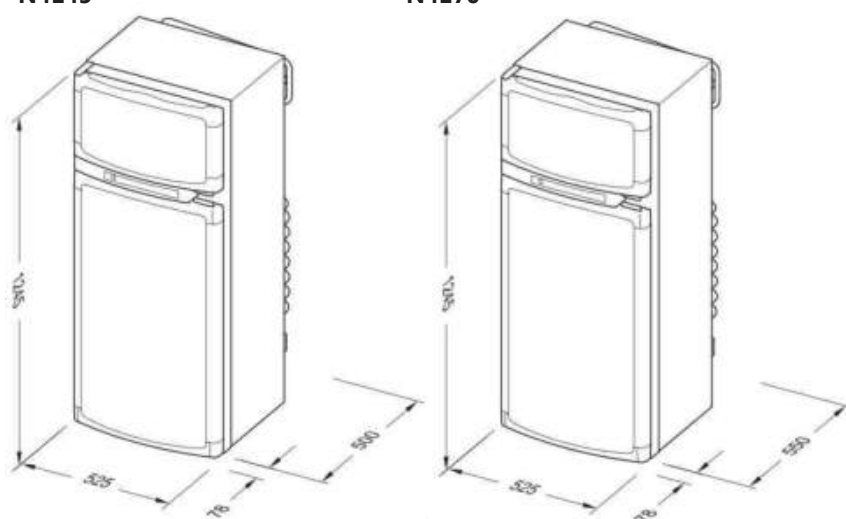
N4150

N4175

N4150 / N4175

MODEL	N4145E+	N4145A	N4150E+	N4150A	
Gross capacity Of which Freezer	141 litre 23 litre		149 litre 25 litre		
Consumption Gas	4 kWh/24h 420 g/24h		4 kWh/24h 420 g/24h		
Wheel arch model	No		No		
Display	LED	LCD	LED	LCD	
Door	Flat		Curved		Curved Frameless
Part Number	**089073A**	**089073**	**089073D**	**089073B**	**089073C**

MODEL	N4170E+	N4170A	N4175E+	N4175A	
Gross capacity Of which Freezer	167 litre 29 litre		175 litre 31 litre		
Consumption Gas	4 kWh/24h 420 g/24h		4 kWh/24h 420 g/24h		
Wheel arch model	No		No		
Display	LED	LCD	LED	LCD	
Door	Flat		Curved		Curved Frameless
Part Number	**089073F**	**089073E**	**By request**	**089073G**	**089073H**

K

Grove PRODUCTS

Slimline refrigerators THETF✦RD

N4141E+ With external accessed bottle drawer
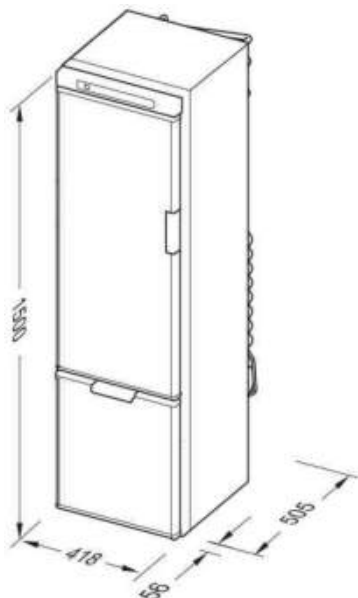
N4142E+ With internal bottle drawer
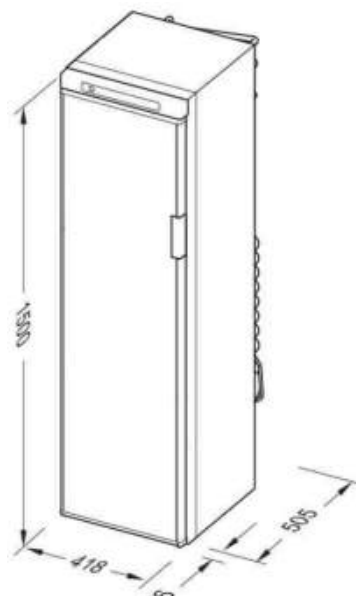
The N4140 series is unique in the range. Big in volume, small in size.

The refrigerators are only 418mm wide, compared to the standard 525mm, yet they still have a large 140 litre capacity including a 15 litre freezer compartment.

They have a user friendly automatic power source selection with an LED control panel. Available as two models, the N3141 (with external drawer) and the N3142 (with internal drawer).

Both models have a unique slide out drawer and of course a perfect cooling performance.

MODEL	N4141E+	N4142E+
Gross capacity **Of which Freezer**	141 litre 15 litre	142 litre 15 litre
Consumption **Gas**	3.9 kWh/24h 400 g/24h	
Dim: WxHxD (mm)	418 x 1500 x 561	
Wheel arch model	No	
Display	LED	
Door	Flat Framed	
Part Number	**089072F**	**089072G**

Thetford vents

Fridge vent white
186 x 483
089074

Fridge vent cream
186 x 483
089075

Fridge vent black
186 x 483
089076

SR vent screen
089077D

Winter cover pure white
186 x 483 (vent size)
089097

Winter cover cream
186 x 483 (vent size)
089098

Winter cover Fiat Bianco
186 x 483 (vent size)
089100

SR vent lock clip
089077B

SR vent large
281 x 523
White   **089077A**

SR winter cover large
281 x 523 (vent size)
White   **089077C**

SR vent
257 x 432
Pure white   **089077E**
White   **089077F**

SR winter cover
257 x 432 (vent size)
White   **089077**

Grove PRODUCTS

Thetford 230v Fridge Elements

Thetford 230V 140W
To 01/07/05
N80/N90/N97/N98/N100/N104/N108/
N109/N110/N112/N115
089231

Thetford 230V 140W
01/07/05 to 14/05/09
N80/N90/N97/N98/N100/N104/N108/
N109/N110/N112/N115
089232

Thetford 230V 140W
To 12/05/09 LCD
N90/N97/N100/N104/N109/N112
089230

Thetford 230V 153W
From 12/05/09 LCD
N90/N97/N100/N104/N112
and
N3080/N3090/N3097/N3100/N3104/
N3108/N3112/N3115
089328

Thetford 230V 200W
N145LED from 17/01/05
089255

Thetford 230V 200W
To 28/05/09 LCD
N145/N150/N175/N180
089229

Thetford 230V 153W
From 14/05/09
N80/N90/N97/N98/N100/N104/N108/
N109/N110/N112/N115
089257

Thetford 230V 220W
From 28/05/09 LCD
N145/N150/N175 (was **200W**)
and
N3145/N3150/N3175/N3180
089242

Thetford 12v Fridge Elements

Thetford 12V 140W
To 14/05/09
N80/N90/N97/N98/N100/N104/N108/
N109/N110/N112/N115
089233

Thetford 12V 190W
From 14/05/09
N80/N90/N97/N98/N100/N104/N108/
N109/N110/N112/N115/N145/N150/
N175
and
N3080/N3090/N3097/N3100/N3104/
N3108/N3112/N3115
089326

Thetford 12V 147W
To 05/12/07 LCD
N145/N150/N175/N180
089234

Thetford 12V 140W
To 12/05/09 LCD
N90/N97/N100/N104/N109/N112
089235

Thetford 12V 140W
From 12/05/09 LCD
(was **153W**)
N90/N97/N100/N104/N112
and
N3080/N3090/N3097/N3100/N3104/
N3108/N3112/N3115
089324

Thetford 12V 200W
From 17/01/05
N145 LED
089256

Grove
PRODUCTS

K

12 V Compressor refrigerator

The T1090 has a strong but quiet (32dB) 12V compressor, resulting in a powerful performance. Integrated ventilation means outside vents are not required.

The unique shape follows the contours of the vehicle resulting in the best use of space and a comfortable 90 litre volume.

Efficient use of power means more freedom with less need to visit a pitch or campsite.

THETFORD

90 LITRE

WOW
Designed specifically for the campervan, the unique shape allows it to fit at eye level making maximum use of the limited space!

MODEL	T1090
Gross capacity **Of which Freezer**	90 litre 6.5 litre
Consumption **Night mode**	0.45 kWh/24h 0.35 kWh/24h
Dim: WxHxD (mm)	418 x 975 x 485
Wheel arch model	No
Display	LED
Door	Flat Framed
Days power on a 95Ah battery **Night mode**	3.0 4.0
Part number LOW HANDLE	089068C
Part number HIGH HANDLE	089068CH

12 V Compressor slimline refrigerator

The T1152 has the same enclosure dimensions as the N4142 but has more volume and less weight, respectively 152L instead of 142L and 34 kg instead of 37 kg.

The T1152 compressor fridge has a powerful and strong 12V compressor. The fridge is rated as tropical climate class, which means it is suitable for use in ambient temperatures of +16°C to +43°C. Of course, there are different aspects that can influence the performance. One of them is the installation. The small feet at the bottom, and the distance holders at the back, ensure a good installation, and provides the necessary integrated ventilation flow.

MODEL	T1152
Gross capacity **Of which Freezer**	152 litre 18 litre
Consumption **Night mode**	0.5 kWh/24h 0.4 kWh/24h
Dim: WxHxD (mm)	418 x 1500 x 561
Wheel arch model	No
Display	LED
Door	Flat Framed
Days power on a 95Ah battery **Night mode**	2.5 3
Part Number	089067A

152 LITRE

T1152

grove PRODUCTS

Indel B Compressor fridges

Indel B was founded in 1967 with the aim of producing direct current portable refrigerators. Today Indel B is globally known, it has production facilities in Italy and China and it covers all continents with its sales network. Its continuous investments in research and development, the ability to anticipate and understand the needs of its customers, the compliance with the highest quality standards, made the most important Heavy Commercial Vehicles manufacturers, such as Scania, Iveco, Renault, Volvo, Kenworth, Peterbilt, Irizar, Irisbus, choose Indel B as their sole supplier for in-cab refrigerators. Indel B is Secop's (Formerly Danfoss) long standing partner, all Cruise fridges use a Secop compressor.

indel B
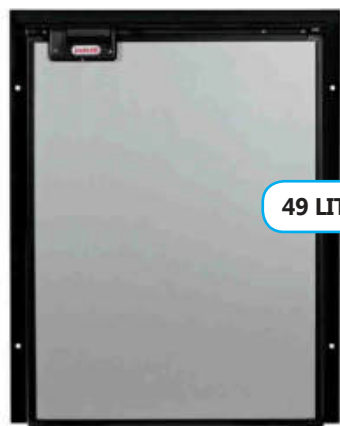
49 LITRE

WOW Installation frame included on Cruise 49. Can be installed with or without this frame.

MODEL	Cruise 49
Gross capacity inc. freezer	49 litre
Consumption	0.278 kWh/24h
Dim: WxHxD (mm)	380 x 530 x 495
Wheel arch model	No
Weight	16.6kg
Part number	087075

The Cruise 49 holds bottles in vertical and horizontal positions. The fan-cooled compressor unit is integrated on the upper part of the refrigerator. Installation frame, adjustable thermostat and inner light are all standard features. The position of the shelves can be adapted to the size of the stored items.
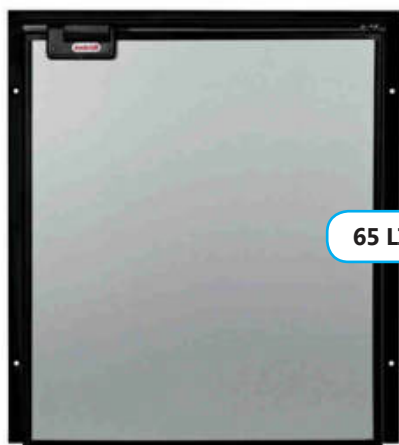
65 LITRE

WOW Installation frame included on Cruise 65. Can be installed with or without this frame.

MODEL	Cruise 65
Gross capacity inc. freezer	65 litre
Consumption	0.288 kWh/24h
Dim: WxHxD (mm)	450 x 530 x 515
Wheel arch model	No
Weight	18.2kg
Part number	087076

The Cruise 65 is a medium-sized refrigerator with a rational design of the inner cabinet so that the capacity can be fully exploited. Half-litre bottles can be stored either on the shelves or in the lower door balcony. The fan-cooled compressor unit is integrated on the upper part of the refrigerator. Installation frame, adjustable thermostat and inner light are all standard features. The position of the shelves can be adapted to the size of the stored items.

85 LITRE

WOW The Cruise 85 is a 635mm tall under counter compressor fridge.

MODEL	Cruise 85
Gross capacity inc. freezer	85 litre
Consumption	0.386 kWh/24h
Dim: WxHxD (mm)	475 x 635 x 545
Wheel arch model	No
Weight	20.8kg
Part number	087077

The Cruise 85 is a full counter height medium-sized refrigerator with a rational design of the inner cabinet so that the capacity can be fully exploited. Half-litre bottles can be stored either on the shelves or in the lower door balcony. The fan-cooled compressor unit is integrated on the upper part of the refrigerator. Adjustable thermostat and inner light are all standard features. The position of the shelves can be adapted to the size of the stored items.

Grove PRODUCTS

Absorption refrigerators ⌃⟩ DOMETIC

WOW Many more models available on request please speak to your sales contact for details.

RF60
High performance cooling. Not designed for permanent installation this 12V, 230V and gas model is ideal for use in well ventilated areas where permanent installation is impractical. MUST BE WELL VENTILATED! CANNOT BE USED IN ENCLOSED AREAS!
088046

RM5310
Under counter model with user friendly control panel and separate freezer compartment.
087995

RM5330
Wheel arch cut out model with user-friendly control panel and separate freezer compartment.
087996

RMS8401
8-series with wheel arch cut out
Left hand hinge **088007**
Right hand hinge **088009**

RMD 10 Series

TFT control panel
Intuitive control of cooling temperature, energy source and comfort features

Two-point locking system
Fitted on each side of the fridge door for safe and secure usage
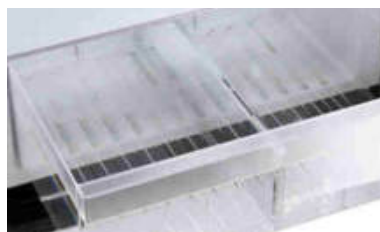
Veg-fresh crisper
With adjustable humidity and a lid that serves as an extra storage shelf

LED light bar
For uniform, energy-saving illumination of the refrigerator compartment

- Double-hinged door – opens left and right without the need to change the hinge
- Best-in-class cooling performance – tested and proven in the Australian outback
- Standard-depth cabinet with two separate doors for fridge and freezer
- Ease of use with intuitive TFT soft-touch controls recessed into the door
- Elegant aluminium door handles extending over the complete fridge height
- Two-point locking mechanism on either side for increased safety
- Flat door with customisable decor panel and variable thickness (1.2-3mm)

RMD 10.5T   088010
RMD 10.5XT   088011

Versatile interior
Innovative concept makes the best and most flexible use of the available space

Caravanning Industry- databus (CI-BUS) compatible
Operate with absolute convenience via the central control panel.

Grove PRODUCTS

Absorption refrigerators ⟩⟩ DOMETIC

ABSORPTION MODELS	RF60	RM5310	RM5330	RMS8401	RMD10.5T	RMD10.5XT
Grove part number	**088046**	**087995**	**087996**	**LH 088007 RH 088009**	**088010**	**088011**
Ignition system	12v battery	Battery	Battery	MES	AES	AES
Gross capacity (L)	Approx. 60	60	70	80	153	177
Freezer compartment (L)	-	5	5	8*	29	35
Input rating 230V (Watts) 12V (Watts)	110 110	125 120	125 120	125 120	250 170	250 170
Consumption /24h 230V (kW/h) 12V (kW/h) Gas (g)	1.9 1.9 325 / 375	2.5 2.5 270	2.5 2.5 270	2 to 2.2 2 to 2.2 250 to 270	4.4 4.4 580	4.4 4.4 580
Dimensions (W x H x D mm)	486 x 615 x 490	486 x 618 x 474	486 x 821 x 474	486 x 821 x 569	523 x 1245 x 550	523 x 1245 x 605
Stepped model to allow installation over a wheel arch	Not designed for installation	No	Yes	Yes	No	No
Weight	26	20	22	25	40	41.5

* These models have removable freezer compartments to allow increased refrigerator volume. In doing so the gross volume is increased by 5 litres

Compressor refrigerators ⟩⟩ DOMETIC

RC 10 series

This elegant 10-series compressor refrigerator is ideal for installation in panel vans, boats, or anywhere ventilation presents a challenge. The versatile and spacious interior, including a removable freezer compartment, offers convenient storage options. On top of all that, its cooling power is the best-in-class!

COMPRESSOR MODELS	RC10.4.70	RC10.4.90
Right hand hinge **Left hand hinge**	**087078R** **087078L**	**087079R** **087079L**
Gross capacity (L)	69	90
Freezer compartment (L)	7.5	7.5
Input voltage	12/24	12/24
Input power Watts 12V 24V	42 58	45 61
Dimensions (W x H x D mm)	420 x 821 x 450	420 x 975 x 485
Refrigerant	R134a	R134a
Weight	22	25

Two-point locking system
Fitted on each side of the fridge door for safe and secure usage

Versatile interior
Innovative concept makes the best and most flexible use of the available space

LED light bar
For uniform, energy-saving illumination of the refrigerator compartment

WOW Dometic compressor fridges have maximum storage flexibility thanks to patented removable freezer compartment

K

CR range of compressor refrigerators ⋀⋗ DOMETIC

Premium built-in refrigerator in stainless steel finish for motor homes, caravans, yachts and boats. Interior light. Double lock door with magnetic seal. CRP40 has a detachable cooling unit (saving 182mm depth when installed separately)

CRP40
Ideal where depth of installation is an issue, this compressor refrigerator has a cooling unit that can be installed separately **087090**

CRX50
Compact model compressor refrigerator, ideal for small campervans and conversions **087091**
Optional flush mounting frame **088049**

CRX80
Under counter model compressor refrigerator **087095**

COMPRESSOR MODELS	CRP40	CRX50	CRX80
Grove part number	**087090**	**087091**	**087095**
Gross capacity (L)	39	48	80
Includes freezer compartment of (L)	5.3	5	7.9
Energy supply	12/24V	12/24V	12/24V
Average power consumption (Watts)	40	40	48
Consumption (Ah/h) at +25°C +32°C with interior temperature at +5°C	0.77 1.77	1.4 1.7	1.8 2.1
Weight	18	19	23
Optional flush mounting frame	**088049**	**088049**	N/A
Dimensions (W x H x D mm)	380 x 536 x 310 (+182)	380 x 534 x 500	475 x 640 x 528

Dometic 230v Fridge Elements

Dometic 230V, 105W
088090

Dometic 230V, 125W
088124

Dometic 230V, 220W
088123

Dometic 12v Fridge Elements

Dometic 12V, 120W
088077

Dometic 12V, 100W
088089

grove
PRODUCTS

Ventilators and flue kits

LS100 Top vent
Set includes: Upper frame, grill with flue insert, upper winter cover and turn buttons.

LS100 set white	**089010T**
LS100 top vent only white (AS1620)	**089010TV**
LS100 top vent only grey	**088113**
LS100 Frame only	**088148**

LS200 Bottom vent
Set includes: Lower frame, grill, lower winter cover and turn buttons.

LS200 set white (AS1630)	**089010B**
LS200 Frame only	**088128**

LS100/200 winter cover set white
Comes with both LS100 and LS200 winter covers

White (WA120/WA130)	**089012**
LS200 winter cover only grey	**088130**

Refrigerator bars

Via Mondo double refrigerator bar
Helps prevent movement of contents whilst travelling. 40.5cm closed. Extending to 71cm.
089065A

Via Mondo double cupboard bar
Useful addition to stop items falling if door opens in transit. 25.5cm closed. Extending to 43cm.
095689A

A1620 insert
White	**089017**
Cream	**089018**
Grey	**088111**

Dometic Flue
Complete kit
089063
Round beige flue cover
088167

Turn buckle
White	**089014**
Cream	**089015**

LS330 vent only
Outer grill only 438 x 278 mm
White	**088110**

LS330 winter cover
401.5 x 223mm
White	**088134**
Grey	**088199**
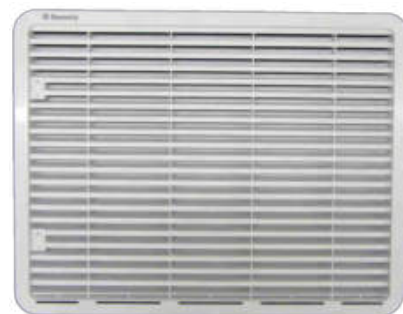
L500 vent only
Outer grill only 479 x 371mm
For winter covers use 2 x 089010B
White	**088156**
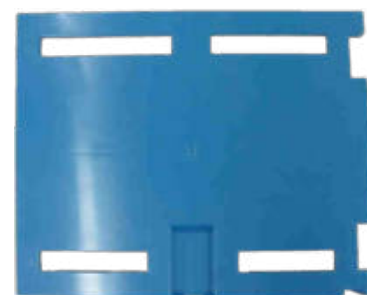
LS230 winter cover
360 x 290mm blue (internal)
088152

MPK vent
Designed for aperture 342mm x 117mm.
Surface mounted White	**089031**

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grove PRODUCTS

12v / 230v Coolers

Powerbox® Plus

The Powerbox® Plus 12/230V active coolers operate from a 12V car plug-in or a 230V electrical outlet (both cables included), combined with the high performance injected PU foam, the cooler will keep contents at 19°C below the ambient temperature.

It features a control dial with 4 modes, allowing you to choose the performance and efficiency level. The cooler can be turned off by putting the dial to "OFF" mode without the need to unplug the cord. To reduce the noise level of the fan switch to "NIGHT" mode, and for an efficient, yet environmental friendly operation, the "ECO" mode can be used, giving an A++ energy rating. "MAX" mode is available for the ultimate cooling performance.

Inhibiting the ability of micro-organisms to grow, these coolers feature an antimicrobial liner, a powerful protection ensuring resistance to mould and mildew growth inside the coolers and it also blocks unpleasant odours from developing.

● Keeps contents 19°C below the ambient temperature.
● Freeze guard circuit built in - stops freezing to delicate food.
● Battery guard - ensuring your battery will not flatten when in use.
● Very quiet fan (maximum of 39 dB) - won't wake you up at night!
● Antimicrobial lining.

	Powerbox Plus 24L	Powerbox Plus 36L
Gross Capacity (litres)	24	36
Material	Anti-microbial Premium Polyurethane	Anti-microbial Premium Polyurethane
Dimensions outer (H x W x D mm)	423 x 408 x 323	404 x 559 x 348
Dimensions inner (H x W x D mm)	310 x 328 x 243	290 x 467 x 275
Part number	089169C	089169D

Cool box accessories

M10 185x95x30mm

M30 254x200x30mm

Coleman Campingaz rectifier 230/12v

Running most 12V coolers from the 230V mains is no problem at all with this 230V AC to 12V DC adapter.
5amp – 65w
089140

Freez'Pack®

Can be used in any cool box or soft cooler to keep food and drinks cooler for longer. Simply freeze them, then put them inside the cooler with the food or drink. They're available in a range of sizes and the bigger they are the longer they stay cool.

M10 duo pack	12 per outer	**089187**
M30	12 per outer	**089183**

Fridge Fans

Reich fridge fan with auto heat sensor

Improves fridge performance. Fully automatic. Easy installation. Maintenance free. Uses only 0.25 amps. No television/radio interference. 10,000 hour continuous rated motor
089005

Thetford ventilation kit
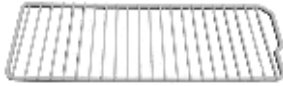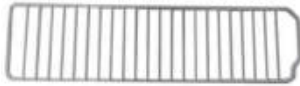
Fits all models. Extra cooling performance for your Thetford fridge
089300

grove
PRODUCTS

Thetford Fridge spare parts
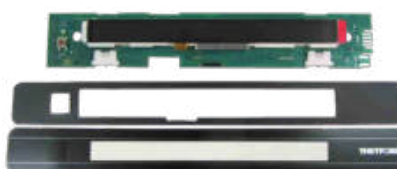
DOOR & VEGETABLE BINS			
089078 Bottle Retainer	**089096E** SR Bottle Retainer		**089081** Door Bin N80/N145 N3080/N3145/N3175
089220 Door Bin White N97/N104/N109/N110/N112 N3097/N3104/N3112	**089221 Door Bin Blue** N97/N104/N109/N110/N112 N3097/N3104/N3112	**089218 Door Bin Blue** N97/N104/N109/N110/N112 N3097/N3104/N3112	**089224 Door Bin White** N3141/N3142
089217 Door Bin Blue N150/N175/N3175	**089227** Door Bin Blue N112	**089228** Door Bin N150/N175	**089216** Flip Top Cover N145
089236 Flip Top Cover N90/N97/ N100/N104/N109/N110	**089241 Flip Top Cover** N108/N112/N115	**089285 Vegetable Bin** N90/N97/N108/N112/N115	**089286** Vegetable Bin N100/N104/ N109/N110
089287 Vegetable Bin N145	**089288** Vegetable Bin N80	**089299** Vegetable Bin N150/N180	**089310** Door Bin 486 Curved N3150/N3175
089312 Door Bin 486 Flat Shallow N3080	**089314** Door Bin 525 Curved Shallow N3097/N3104/N3112	**089316** Door Bin 525 Flat Shallow N90/N100/N108/N3090/ N3100/N3108	**089318** Door Bin 525 Flat Deep N90/N100/N108/N3090/ N3100/N3108
089370 Vegetable Bin N3080	**089372 Vegetable Bin** N175/N3100/N3104/N3145/ N3150/N3170/N3175	**089374** Vegetable Bin N3108	**089376** Vegetable Bin N3112/N3115

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Thetford Fridge spare parts

SHELVES & ACCESSORIES			
089270 **Shelf Tray insert** **N90/N97** 403 x 97.9	**089092** **Shelf Tray Insert N145** 371.3 x 183	**089362** **Shelf Tray Insert N100/N104/** **N109/N110/N112** 403 x 192	**089264A** **Shelf Tray Insert N150/N175/** **N180** 371.25 X 212
089258 **Shelf Top N145** 428.5 x 143.1	**089259** **Shelf N90/N97/N100/N104/** **N109/N110** 455 x 118.2	**089260** **Shelf Top N90/97** 455 x 163.9	**089261** **Shelf Bottom N100/N104/** **N109/N110/N112** 455 x 212.3
089262 **Shelf N145/N150** 405 x 188.5	**089263** **Shelf Top N150** 428.5 x 172	**089264** **Shelf N150/N175** 428.4 x 232.3	**089265** **Shelf Bottom N80** 415.7 x 118.2
089266 **Shelf Top N80** 415.7 x 163.9	**089267** **Shelf N108/N112/N115** 453.8 x 205	**089268** **Shelf N108/N112** 453.8 x 180	**089334** **Shelf N145** 427.5 x 203.3
089336 **Shelf A - N3080** 416 x 130	**089340** **Shelf C - N3090/N3097/** **N3100/N3104** 455 x 133	**089342** **Shelf D - N3090/N3097** 455 x 179	**089344** **Shelf E - N3108/N3112/N3115** 454 x 205
089346 **Shelf F - N3100/N3104** 454 x 220	**089352** **Shelf H - N3145/N3150** 428.5 x 158	**089354** **Shelf I - N3145/N3150** 427.5 x 218.3	**Shelf J - N3170/N3175** 428.4 x 282.3
089358 **Shelf K - N3170/N3175** 428.4 x 232.3	**089360** **Shelf L - N3108** 455 x 174	**089093** **Shelf Clip Small**	**089094** **Shelf Clip Large**
089348 **Shelf food retainer** **N80/N104/N108/N109/N110/** **N112/N145**	**089350** **Shelf food retainer** **N98/N112/N115/N150/N175**		

Grove PRODUCTS

Thetford Fridge spare parts

PCBS & CONTROLS	
089330 For Fridges manufactured 03/03/14 to 20/06/15 **PCB Kit LCD N3000 series**	**089332** For Fridges manufactured 03/03/14 to 20/06/15 **PCB Kit LED N3000 series**
089247 For Automatic ignition fridges with LCD displays **Power PCB R2G**	For Electric ignition fridges with LCD displays **Power PCB R2G** / **089096C** For Fridges manufactured after 20/06/15 **Power PCB N3000 series**
089214 For fridges with LCD displays **Display Module / PCB R2G**	**089096A** For Fridges manufactured before 3/3/14 **Display Module / PCB N3000 series** / **089096G** For Fridges manufactured after 20/06/15 **Display Module / PCB N3000 series**
089096F **Control Panel N145 LED**	**089211** **Control Panel N145 LED**
089208 **Control Panel R2G Curved LCD** **N97/N104/N112**	**089209** **Control Panel R2G Flat LCD** **N90/N100/N108/N150/N175**
089210 **Control Panel R2G LED/standard**	**089096D** Flat Black Left Hand Hinge **Control Panel N3090/N3100/N3108/N3145/N3170**
089244 **Overlay N100 LED**	**089245** **Overlay N145 LED**
089096B Universal kit for all except N3080 **Sticker N3000 Series**	**089243** **Overlay R2G LCD for E versions**

Thetford Fridge spare parts

GAS SPARES			
089253 **Selector Switch 5 position**	**089254** **Selector Switch 6 position**	**089212** **Electric Ignitor**	**089248** **Piezo Ignitor**
089089 **Control Knob Gas** N80/N90/N97/N98/N100/ N104/N108/N109/N112	**089206** **Control Knob Selector** N80/N90/N97/N98/N100/ N104/N108/N109/N112	**089280** **Thermistor**	**089282** **Thermocouple V2**
089202 **Burner Assembly** N90/N97/N98/N100/N104/ N108/N109/N110/N112/ N115/N3100/N3104	**089204** **Burner Assembly** N145/N150/N175/N180/ N3141/N3142/N3145/N3150/ N3170/N3175	**089304** **Burner Assembly** N3080/N3090/N3097/N3108/ N3112/N3115	**089096** **Thermocouple SR V1** N80/N90/N97/N98/N100/ N104/N108/N109/N112
089226 **Gas Valve V2** N80/N90/N97/N100/N104/N108/ N110/N112	**089322** **Gas Valve** After 25/09/06 N90/N97/N100/N104/N109/N110/N112/N115/ N145/N150/N175/N180		**089320** **Gas Valve** N3 Series
089271 **Spark Electrode** N90/N97/N100/N104/N109/ N110/N112/N115	**089272** **Spark Electrode** N145/N150/N175/N180	**089274** **Piezo Spark Electrode** N80/N90/N97/N98/N100/ N104/N108/N109/N112	**089273** **Electric Spark Electrode** N80/N90/N97/N98/N100/ N104/N108/N109/N112
089364 **Spark Electrode** N3080/N3090/N3097/N3108/ N3112/N3115	**089366** **Spark Electrode** N3100/N3104	**089368** **Spark Electrode** N3141/N3142/N3145/N3150/ N3170/N3175	**089213** **Flame Meter**
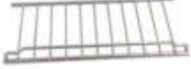
Thetford Fridge spare parts

FRIDGE MISCELLANEOUS			
089277 Storage Strap V1	089278 Storage Strap V2	089091 Latch V1	089240B Latch V2 Traffic Black
089300 Ventilator kit		089238 Freezer Door Hinge	089239 Freezer Door
089079A Interior Lamp Cover	089079 Interior Lamp		

Dometic Fridge spare parts

DOOR CATCHES			
088058 Travel Catch 295270007	088079 Travel Catch 2952148001	088104 Travel Catch 2412345601	088120 Travel Catch 241275730
088172 Travel Catch 295214007	088175 Travel Catch 2412757805	088103 Travel catch 2412757607	088200 Slider only 2412883908
088165 Door lock 289012711	088184 Lock catch (lighting) LH 289037102	088190 Lock catch (lighting) RH 2890371129	088187 Door mechanism on door 2412126308
088182 Lock catch receptor tab 2890582709	088188 Lock catch (lighting) LH 289037105		

Dometic Fridge spare parts

SHELVES & ACCESSORIES			
088050 **Bottle retainer white** 300mm 295123700	**088177** **Bottle retainer blue** 300mm 295123702	**088051** **Bottle shelf** 384mm 295123810	**088092** **Bottle shelf** 403.5mm 2412077105
088094 **Bottle shelf** 368mm 2412077006	**088162** **Bottle shelf blue** 411.5mm 241334100	**088096** **Door shelf** 368mm 241238200	**088052** **Door shelf** 384mm 2951239009
088095 **Door shelf** 200mm 2412076008	**088181** **Door shelf** 2413343506	**088178** **Door shelf blue** 373.5mm 2413342102	**088179** **Door shelf blue** 410.5mm 2413342003
088053 **Door shelf bar** 371mm 295187500	**088097** **Door shelf bar** 357mm 2412104032 / **088093** **Bottle shelf clip** 2412084002	**088180** **Door shelf with cover** 411.5mm 289023520	**088171** **Door shelf** 2413343605
088105 **Door shelf** 2412077113	**088101** **Vegetable bin** 365 x 224 x 103mm 2412078004	**088102** **Vegetable bin lid** 2412079002	**088100** **Salad tray blue** 241336700
088139 **Grating zinc plated** 116 x 449mm 2106253053	**088140** **Grating zinc plated** 171 x 449mm 2951474259	**088153** **Grating zinc plated**130 x 409mm 241322200	**088195** **Divider crisper** 2413377413
088065 **Grating zinc plated** 102 x 236mm 295128225	**088082** **Grating zinc plated** 66 x 392mm 295152125	**088194** **Grating zinc plated** 462,5 x 180mm 2413380409	**088064** **Grating zinc plated** 178 x 418mm 295128125
088164 **Shelf** 450 x 310mm 241398130	**088131** **Grating zinc plated** 392 x 116mm 2951680251	**088149** **Grating zinc plated** 392 x 172mm 2951422159	**088150** **Grating zinc plated** 462,5x220mm 241337560

Dometic Fridge spare parts

OTHER FRIDGE SPARES			
088106 **Freezer door** 389mm 241211620	**088114** **Freezer door** 430mm 2412195204	**088161** **Freezer door** 430mm 241219531	**088061** **Inspection glass retainer** 2926004009
088107 **Hinge evaporator flap** 2412125003	**088127** **Bearing evaporator flap** 2412865004	**088157** **Hinge evaporator flap** 200224400	**088060** **Inspection glass** 2926724002
088143 **Knob** 2932605013	**088108** **Thermostat Knob grey** 2412138006	**088086** **Gas regulator knob** 2951289004	**088067** **Gas regulator knob** 2951289046
088189 **Push button** 289019005	**088155** **Selector Switch knob** 2412137107	**088087** **Thermostat knob** 2951287008	
088069 **230v Switch green** 292627410	**088136** **230v Switch (orange)** 2926275203	**088069A** **12/24v Switch (red)** 2926273505	**088173** **Gas dial** 292349921
088137 **Control panel housing grey** 525mm MES 2412933109	**088133** **Control panel housing grey** 525mm AES 2412941706	**088145** **Control panel housing blk/gr** 523mm RM/S85** 2412941706	**088192** **Operating panel wiring** 2030mm 2890237106
088196 **Display board complete** RM85** MES 2890643006	**088197** **Display board complete** RMD85** AES 2890644004	**088132** **Operating panel with temperature probe** 289063802	**088185** **Operating panel complete** MES 2413977022
088170 **Electronics kit (PCB)** RM/S/L 8**1 MES 241349000	**088154** **Electronics kit (PCB)** RM 7**1L MES 241277111	**088158** **Electronics kit (PCB)** RM 7**5L AES 241277120	
088168 **Door complete** RM/S 85** 519 x 751.5mm 2890264043	**088147** **Door complete** RM/S 84** 486 x 758mm 2413923158	**088151** **Cover ledge for door** RAL 7021 746mm 2413338027	

Grove products

Dometic Fridge spare parts

GAS & IGNITION SPARES			
088135 **Gas valve complete** 2412190205	**088073** **Gas regulator valve 30/50mbar** 292627611	**088126** **Gas Valve GV100** 2412798312	**088129** **Burner control device** 2412789303
088070 **Gas burner complete** 2923928408	**088144** **Gas burner no nozzle** 292343052	**088166** **Gas burner no nozzle** 241280282	**088163** **Wiring for burner control device** 241279630
088119 **Nozzle (jet) KZ45** 2922033044	**088176** **Nozzle (jet) KZ65** 2890483007	**088174** **Thermocouple** 2100mm 292343590	**088074** **Thermocouple** 1400mm 2923435321
088071 **Thermostat** 1400mm 2926528106	**088116** **Electrode cable** 600mm 2951105713	**088169** **Spark electrode** 292362620	**088191** **Connection block** MES / AES 230V 2890189323
088117 **12v ignitor** 2951654207	**088159** **Ignitor battery** 289019010	**088160** **Ignitor battery** 292302482	**088183** **Ignitor extension** 56.4mm 2923024588

Grove PRODUCTS

Glass tableware

CORELLE®

Corelle high quality glass dinnerware is made in USA from a unique material called vitrelle and is renowned for being thin and lightweight yet strong and durable. Chip and break resistant; microwave, dishwasher and oven safe; patterns won't wash, wear or scratch off.

12 piece dinner sets.
2 per outer

080269
Mystic Grey

080269A
Sand Sketch

080269B
Ocean Blues

080261
White

080262
CC Flower

080265
Cafe Blue

080263
Memphis

080264
City Block

080266
Geometric

080267
Garden Sketch Bands

080268
Celebration

Grove
PRODUCTS

Melamine tableware

Contemporary designs to complement the latest vehicle interiors

16 piece Dinner Sets: **Consisting of 4 x dinner plates, 4 x side plates, 4 x soup/cereal bowls and 4 x mugs.**

Ink Design

Dinner set 16 pc	Singly or 6 per outer	**081070**
Square salad bowl	Singly or 6 per outer	**081071**
Rectangular platter	Singly or 6 per outer	**081072**

Navy Pinstripe

Dinner set 16 pc	Singly or 6 per outer	**081148**
Dinner plate	6 per outer	**081145**
Side plate	6 per outer	**081143**
Soup/cereal bowl	6 per outer	**081144**
Mug	4 per outer	**081142**
Salad bowl	Singly or 6 per outer	**081147**

Monochrome
Dinner set 16 piece
Singly or 6 per outer
081258

Leaf
Dinner set 16 piece
Singly or 6 per outer
081122

Cappuccino
Dinner set 16 piece
Singly or 6 per outer
081177

Petit Fleurs
Dinner set 16 piece
Singly or 6 per outer
081125

Grove PRODUCTS

Melamine tableware

16 piece Dinner Sets: Consisting of 4 x dinner plates, 4 x side plates, 4 x soup/cereal bowls and 4 x mugs.

Loops
Dinner set 16 piece
Singly or 6 per outer
081196A

Latte
Dinner set 16 piece
Singly or 6 per outer
081198

Vanilla
Dinner set 16 piece
Singly or 6 per outer
081197

12 piece Dinner Sets: Consisting of 4 x dinner plates, 4 x side plates and 4 x soup/cereal bowls

Granite Grey
Dinner set 12 piece
Singly or 6 per outer **081199**
Stacking mugs (4)
Singly or 6 per outer **081201A**

Granite Aqua
Dinner set 12 piece
Singly or 6 per outer **081204A**
Stacking mugs (4)
Singly or 6 per outer **081206A**

Granite Ruby
Dinner set 12 piece
Singly or 6 per outer **081207**
Stacking mugs (4)
Singly or 6 per outer **081207B**

Azure Premium plus
Dinner set 12 piece
Singly or 6 per outer **081214A**
Swirl mug set (4)
Singly or 6 per outer **081214B**

Non-slip inlay

Cool White Premium plus
With non slip inlay on base
Dinner set 12 piece
Singly or 6 per outer **081215A**
Mug set (4)
Singly or 6 per outer **081215B**

Non-slip inlay

Cool Grey Premium plus
With non slip inlay on base
Dinner set 12 piece
Singly or 6 per outer **081216**
Mug set (4)
Singly or 6 per outer **081216A**

Grove PRODUCTS

Love Caravanning

Dinner set 12pc & Cool Bag
High quality 12pc dinner set with 16 litre cool bag
Available singly or 3 per outer
081030

Mugs (4)
4pc mug set
Available singly or 12 per outer
081031

Salad Bowl
Available singly or 24 per outer
081035

Platter 35cm
Available singly or 24 per outer
081036

Tall Tumbler (2)
Available singly or 24 per outer
081038

Short Tumbler (2)
Available singly or 24 per outer
081037

Dining accessories

Picnic / Travel Rug
Singly or 12 per outer
081060

16pc Cutlery Set
Singly or 12 per outer
081059

Placemat Set (4)
Singly or 24 per outer
081061

Egg Cup Set (4)
Singly or 24 per outer
080815

Cleaners

40 Shot Dish & treat
Low foaming washing up liquid that also acts as a tank cleaner. Just wash the dishes and let the washing up liquid clean and protect your pipes and tank.
10 per outer **095575**

Melamine soak
Supplied in a tub of 20 tablets.
12 per outer
081409

Grove PRODUCTS

Camper Smiles

Dinner set 12pc & Cool Bag
High quality 12pc dinner set with
16 litre cool bag
Available singly or 3 per outer
081050

Dinner Plates (4)
4pc 10.5" Dinner plate set
Available singly or 12 per outer
081052

Side Plates (4)
4pc 8.5" Side plate set
Available singly or 12 per outer
081053

Soup / Cereal Bowls (4)
4pc Soup / Cereal Bowl set
Available singly or 12 per outer
081054

Mugs (4)
4pc mug set
Available singly or 12 per outer
081051

Salad Bowl
Available singly or 24 per outer
081055

Platter 35cm
Available singly or 24 per outer
081056

Tall Tumbler (2)
Available singly or 24 per outer
081058

Short Tumbler (2)
Available singly or 24 per outer
081057

Junior picnic set & ruck sack
High quality plate, bowl, tumbler, fork and spoon.
Available singly or 12 per outer
080302

Children's tableware

Dinner sets
Consists of a plate, a bowl, a tumbler, a fork and a spoon. Available singly or 12 per outer

Happy Holiday
080303

Harry & friends
080304

Charlie & friends
080307

Tumbler sets
Consists of 4 different named acrylic tumblers.
Available singly or 12 per outer
080314

Grove PRODUCTS

Acrylic and polycarbonate drinkware

Wine goblet (2)
Polycarbonate. 2 per display carton.
Available singly or 12 per outer
Small   **080119**
Large   **080116**

Savoy wine glass (2)
Polycarbonate. 2 per display carton.
Available singly or 12 per outerr
Standard   **080118A**
Large   **080118B**

Wine goblet grey (4)
10oz wine goblet with grey base.
4 per display carton.
Available singly or 12 per outer
080141

Acrylic wine goblets
6 per outer   **080102**

Stackable goblet (2)
2 per display carton.
24 per outer
080122

Soda glass
Assorted Colours
12 per outer
080148

Bella goblet grey (4)
14oz goblet with grey base. Supplied
in display carton of 4 pieces.
Available singly or 12 per outer
080146

Bella goblets (4)
14oz goblet suitable for wine, beer or
juice. 4 per display carton.
Available singly or 12 per outer
080089

Acrylic tumblers clear
Available singly or 24 per outer
Tumbler   **080090**

Heavy base stacking goblet (2)
Available singly or 24 per outer
Blue   **080125**

Heavy base stacking goblet (2)
Available singly or 24 per outer
Clear   **080127**

Savoy short tumbler (2)
2 per display carton.
Available singly or 24 per outer
080121

Acrylic and polycarbonate drinkware

Classic short tumbler (2)
Polycarbonate. 2 per display carton.
Available singly or 24 per outer
080120

Daisy short tumbler grey (2)
2 per display carton. Available singly
or 24 per outer
080130

Daisy short tumbler aqua (2)
2 per display carton. Available singly
or 24 per outer
080132

Classic tall tumbler (2)
Polycarbonate. 2 per display carton.
Available singly or 24 per outer
080135

Daisy tall tumbler grey (2)
2 per display carton.
Available singly or 24 per outer
080129

Daisy tall tumbler aqua (2)
2 per display carton.
Available singly or 24 per outer
080131

Stacking tumbler (4)
4 per display carton.
Available singly or 24 per outer
Smoked   **080124**
Clear   **080123**

Alfresco tumblers
4 per display carton. 8 per outer
Hi-ball **080136**

Slim jim tumblers grey
With grey base. 4 per display carton.
10oz
12 per outer.
080143

Acrylic pilsner glass
Ideal for large gatherings where glass is dangerous. 500ml. Available singly or 12 per outer
080096

Acrylic beer mug
12 per outer
Dimpled **080099**

Acrylic container set
3 Piece acrylic container set with air tight lid. Contains, 1 x 1L, 1 x 1.3L and 1 x 1.9L container.
081075

Hands free glass holder
Holds wine glasses on the grass or beach, made in the UK from 100% recycled polycarbonate.
4 per pack, 24 per outer   **080162**
Display stand   **080163**

Grove
PRODUCTS

201

Gas Barbeques

CAMPINGAZ

Campingaz Party Grill®

The essential camping companion with endless cooking options! This compact, portable stove offers the widest range of cooking options; stove top, grill, griddle, plancha and the lid of the 400 model even doubles as a wok.

All elements of the Party Grill® can fit inside the device. Thanks to its detachable legs and lockable lid it is easy to transport and store. The Party Grill® 200 runs on a Campingaz® CV Plus valve cartridge which can be disconnected and reconnected whilst cooking, should you run out of gas. The Party Grill® 400 model runs on conveniently sized Campingaz® cylinders. The piezo ignition on all models promises simple, match-free lighting wherever you are, so you can get the party started.

Features:
- Grill, griddle and stove cooking options
- Grill and griddle with non-stick coating for better cooking results
- Integrated pan supports for stove top cooking
- Fully adjustable power
- Piezo ignition for convenient lighting
- Non-stick cooking surface
- Water compartment collects grease and fat ensuring easy cleaning
- Folds into compact size for easy transportation

Party Grill® 400

	Party Grill® 200	Party Grill® 400
Gas pressure	30 mBar	30 mBar
Power	2000W	2000W
Gas Consumption	145g/h	145g/h
Boil Time	4min 18sec	6min 5 sec
Ignition	Piezo	Piezo
Runtime	3hrs on CV470+ 2.5hrs on CV300+	19.5hrs on R907 12.5hrs on R904
Fuel source	CV470+, CV300+	R904, R907, butane or propane cylinder
Weight	2.84kg	4.92kg
Dimensions (WxH)	ø32 x 33cm	ø36 x 42cm (on stand)
Grove Number	**085950**	**085955**

Portable Stoves

Party Grill® 200

Campingaz Camp Bistro
- Power: 2200 watt
- Size: 35cm x 28cm
- Automatic piezo ignition
- Convenient plastic carry case
- Operates off CP250 cartridge
109941

Campingaz CP250
Contains 250g Isobutane. For use with Bistro® type stoves
12 per outer
109965

Portable Gas Stove
- Lightweight design and easy to carry
- Convenient plastic carry case
- Suitable for picnics, camping, garden etc
- Requires butane gas cartridge
109943

Stove cartridges (4)
For use with portable gas stoves
6 per outer
109945

Campingaz Chef
Double burner and grill. Toast rack and drip tray with handle.
- Power: 2 x 1500 watt
- Size (open/closed): 60x40x35 / 59.5x32.5x8.5cm
- Piezo ignition
- 327 g/h consumption
- Lid with latch and carry handle
109940

Grove PRODUCTS

Outdoorchef

European Outdoorchef

The grills manufactured by OUTDOORCHEF are exclusively designed and developed by innovative Swiss engineers. Although their grills are constantly being improved, the core idea behind their unique gas kettle barbecue that allows easy, versatile and healthy grilling has existed for over two decades. OUTDOORCHEF are still passionately committed to making barbecuing a relaxed, fun-filled experience that brings people together and lets them share fun-filled moments.

The unique funnel improves the traditional barbecue:
- It prevents unwanted flare-ups
- It has perfectly even heat distribution with fewer hot spots
- Indirect grilling method - a recirculating grill system, ideal for gently cooking meat (especially large pieces)
- No need to turn the food to be grilled - Leaving you free to spend more time having fun with your guests.

Thanks to their versatile features, the grills from OUTDOORCHEF can replace an entire kitchen. From meat and crispy pizzas to fresh bread and paella – enjoy culinary creativity without limits.

Minichef Gas BBQ
- Porcelain-enamelled 1-ring burner system with piezo ignition
- Rotatable porcelain-enamelled EASY FLIP funnel for direct and indirect grilling
- Integrated lid hinge and thermometer
- Two removable side shelves
- Porcelain-enamelled kettle and barbecue grid
- Nylon-reinforced plastic base frame
- Large 39.5cm Ø cooking surface

H x W x D: 43 x 78 x 53cm. 11.4kg
086006

Outdoorchef griddle plate
Cast iron 33cm ø reversible griddle for searing at high temperatures.
086009

Outdoorchef gourmet set
Universal pan 35cm ø, can be used for paella, risotto and vegetable casserole. Pizza / baking plate 35cm ø
086011

COMING SOON!
Minichef Electric
086006E

Outdoorchef Chelsea Gas BBQ
- Porcelain-enamelled 1-ring burner system with piezo ignition
- Rotatable porcelain-enamelled EASY FLIP funnel for direct and indirect grilling
- Lid with integrated thermometer and lid holder

H x W x D: 95 x 67 x 60cm. 11.4kg
086001

Outdoorchef Chelsea Electric BBQ
- 7 heat settings
- EASY REFLECT heating system with heat reflector
- Simple, fast assembly to start cooking immediately
- Lid with integrated lid holder

H x W x D: 93 x 67 x 60cm. 11.4kg
086005

Easymat

EasyMat mini portable suction plate. Ideal for first foods and baby led weaning from 6 months and for all babies through to 24 months. Universal fit for high chairs and portable for travel. Complete with 4 suction cups, folding sides, sealed lid and carry case.
"Made for mums" gold award winner 2019.
BPA Free 100% LFGB high grade EU standard tested to EN14372:2004
32 cm x 19 cm x 2 cm
Weight: 280 gms
Buttercup   **080299EMBC**
Olive   **080299EMOL**

Muggi

Originally conceived by yachtsman David Trotter for use when sailing in rough seas, Muggi tray is a safe way to carry hot and cold drinks. Made from a lightweight but super tough Polypropylene material, it's designed so that it's light and easy to carry, but also strong and secure. Muggi holds your mugs, glasses or cups in four precision moulded slots. Just as useful for a host of outdoor occasions. Perfect to store mugs in transit in your caravan or motorhome.

WOW Carry, store and much more! Made in Britain! 88 year "higher than average lifetime" guarantee!

Microwow

The worlds first microwave and dishwasher safe insulated casserole dish. Microwow has a stainless steel interior that is microwave safe without the lid. It keeps food hot or cold for up to 6 hours.
New thermal bonding technology fuses the casserole dish, completely sealing the unit, making it dishwasher safe. Made from food grade thermal plastics and stainless steel creating a robust casserole dish. Integrated side handles for easy handling and designed with a stylish tri-tone colour finish. Designed for reheating only in microwave, maximum heating time 5 minutes.

Muggi
Dimensions 200 X 200mm, 70mm high. Each cup holders diameter is 89mm
Made from super tough, lightweight Polypropylene
Non-slip rubber feet (perfect when out sailing)
Dishwasher safe and microwave safe
Grey   **080171**
Red   **080172**
Blue   **080173**
Purple   **080174**

Microwow
3 Piece Set includes: 1 x 1 litre capacity dish (D 18cm x W21cm x H 12cm), 1 x 1.5 litre capacity dish (D 22cm x W 27cm x H 14cm) and 1 x 2.5litre capacity dish (D 23.5cm x W29cm x H16cm)
Available singly or 6 per outer
Red   **093057R**
Blue   **093057B**

Citronella products

Citronella garden light
40 hours burn time
086133 6 per outer

Maxi tealights (12)
10 hours burn time
086145 6 per outer

Tealights (30)
4.5 hours burn time
086143 6 per outer

Garden torches citronella
2 hours burn time. 2 per pack
24 packs per outer
086155

Grove PRODUCTS

Via Mondo gas kettles

Stainless steel whistling kettles for gas hobs. Individually boxed.
- Stainless steel body and lid
- Heat resistant handle
- Fixed whistle
- Large opening for easy filling and cleaning
Available singly or 6 per outer

All boil it kettles are individually boxed

1L Kettle Stainless Steel
095055S

1L Kettle Soft Gold
095055SG

1.5L Kettle Blue
095056B

1.5L Kettle Black
095056BL

1.5L Kettle Burgundy
095056BU

2L Kettle Copper
095057COP

2L Kettle Lavender
095057L

2L Kettle Stainless Steel
095057S

2L Kettle Soft Gold
095057SG

2L Kettle Turquoise
095057T

Via Mondo kettles and toasters

1.7L Electric low wattage kettles

Cordless, 230v kettle with 900w output ideally suited for site use. With Strix controls designed to meet the most stringent international safety standards and manufactured to consistently exceed 12,000 cycles of normal operation. Individually boxed.

- Overheat & boil dry protection shut off
- 75cm cable length with cord storage
- 360° cordless for left and right handed use
- Water level indicator window
- Push button lid
- Illuminated on/off
- Removeable washable limescale filter
- Non slip feet

Available singly or 6 per outer

boil it

Cream
095066C

Duck egg blue
095066B

Black
095066BL

Electric low wattage toasters

2 Slice, 230v, 950w cool wall toaster ideally suited for site use. Individually boxed.

- 75cm cable length with cord storage
- Variable browning control
- Cancel, reheat & defrost functions
- High lift for smaller items
- Removeable washable crumb tray
- Non slip feet

Available singly or 6 per outer

toast it
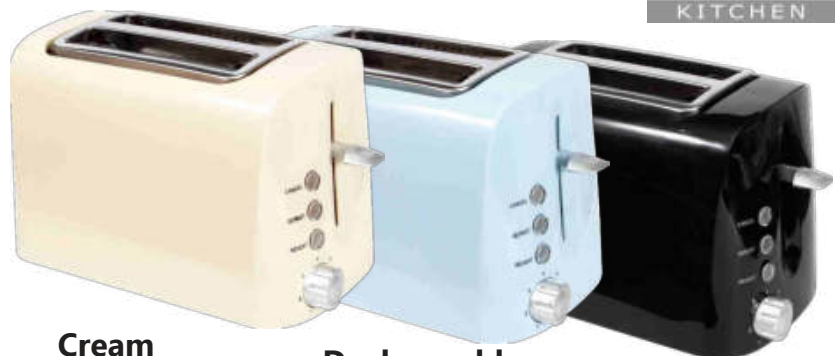
Cream
095069C

Duck egg blue
095069B

Black
095069BL

0.5L Travel kettle 12/24v

ON/OFF indicator light, 12v or 24v, automatic switch off, cordless in use. Includes 2 plastic mugs that can be stored inside the kettle. Individually boxed.
Singly or 6 per outer
095062

1L low wattage kettle

Plastic, cordless, 230v kettle with 900w output ideally suited for site use. Individually boxed.
Singly or 6 per outer
095065A

1.5L low wattage kettle

Plastic, cordless, 230v kettle with 900w output ideally suited for site use. Individually boxed.
Singly or 6 per outer
095065B

Stainless steel 12v Kettle 0.5L

100W kettle with fully concealed element. Fitted with cigar lighter plug, ideal for boat, caravan, motorhome or car.
095085

Grove PRODUCTS

230v Hot water boilers

Thermo Pot by Addis

Hot water at the touch of a button. The ideal product for a family caravan holiday!

● Very low wattage.
    Initial boil - 680W
    Reheat - 100W
    Keep warm - 2W
● No plumbing required
● Instant hot water for vegetables, pasta, porridge, rice, hot water bottle, or just tea and coffee
● 3 dispensing methods. Manual, cup and auto.
● Stays warm at a choice of 5 temp. settings
● Efficient due to Thermal outer layer
● Less risk of spilling hot water, safer for anyone with less firm grip or reduced mobility
● LCD dispay shows current temperature
● Also perfect for home/office use

Thermo Pot 5 Litre
H x W x D :
40 x 23.3 x 30.2cm
095093

Thermo Pot 3.5 Litre
H x W x D :
34.1 x 23.3 x 30.2cm
095092

Pots, pans and cooking accessories

Grill pan
Complete with trivet and detachable handle.
31 x 18.8cm **094019B**

Cast aluminium griddle
Non stick interior and exterior, folding handle, deep ridged base. 20cm^2 5mm gauge.
Singly or 12 per outer
094050

Via Mondo Enamel grill pan
Complete with trivet and detachable handle.
● Ensure handle is firmly in place before lifting grill pan
● Handle can be used on the narrow or broad side for flexibility
● Suitable for use in a dishwasher

28 x 22 x 4cm	**094023**
Trivet to fit 28 x 22	**094023T**
35 x 22 x 4cm	**094024**
Trivet to fit 35 x 22	**094024T**

32cm roasting tin
Double non-stick coated 0.3 gauge steel. High corrosion resistant. Oven safe to 230 degrees. Dishwasher and freezer safe.
12 per outer
094049

Chef aid non stick grill pan
Foldable handle for excellent space saving and a double layered non-stick coating. It also includes pouring lip to remove any excess juices from the pan when cooking or cleaning
240 x 375 x 30mm
Singly or 12 per outer
094052

Stainless steel pan set
Good quality 3 piece set with one each 16, 18 and 20cm pans with lids in a full colour display box
093017

Milk pan & frying pan
Non stick aluminium 2mm gauge PTFE silver exterior. Singly or 12 per outer

Milk pan 14cm	**093032**
Frying pan 20cm	**093033**

Spatter screens
Diameter: 29cm
Non stick coated mesh

Singly or 12 per outer	**095009**

Mesh

Singly or 10 per outer	**095005**

Fozzils Fold Flat

WOW THINK FLAT - innovative, space saving products for the indoor and outdoor life. Simple, practical, and fun.

Twist-fold 3 Teir
Assembles and collapses with a gentle twist using our patent pending Twistfold™ system. Hidden magnets hold the plates / bowls securely when collapsed for space saving storage. Top rack dishwasher safe, BPA free.
Party bowl
275mm, 235mm, & 175mm ø bowls
Height 85mm closed, 375mm open.
081500
Party Plate
315mm, 260mm, & 210mm ø plates
Height 45mm closed, 300mm open.
081501

Snapfold dishrack
Collapsible dish rack assembles quickly and easily with a gentle push on each end. Compact design but easily handles most daily needs with slots for dishes, bowls, and utensils. With built-in drip tray that keeps counters dry. Folds flat for easy storage.
Assembled: LxWxH 34 x 30 x 21cm
Folded: LxWxH 42 x 29 x 4.5cm
095489

Snapfold colander
A new, fresh, and fun collapsible colander! Easy and quick to use - and super-flat for storage. From drawer to sink in seconds, the colander assembles and collapses with a gentle push or pull on each end.
Assembled: 230 x 240 x 135mm Folded: 295 x 330 x 35cm
Aquamarine / Grey   **095235A**
Mini colander - Assembled: 160 x 155 x 110mm Folded: 195 x 215 x 35mm
Lavender / Grey   **095235M**

Snapstakz bowl set
Durable and reusable, dishwasher safe. Unique, elegant design for home and outdoors. Large capacity (700 ml)
As bowl: 175 x 135mm ø, height 90mm
As plate: 255 x 230mm, height 25mm
Set 1 x Turquoise & 1 x Ivory   **081502**
Set 1 x Lavender & 1 x Ivory   **081503**

Microwave ware

WOW Polycarbonate is a superb material for microwave cookware. Tough, non stick, odour resistant and non staining. Completely transparent to cook faster and more evenly. Dishwasher safe.

Saucepan & lid
Capacity 0.6L.
Singly or 10 per outer
093039

Rice & veg steamer
The perfect design for cooking rice and steaming vegetables that retain flavour, vitamins and texture.
Singly or 6 per outer
093048

Egg poacher
The first microwave egg poacher designed to cook eggs in water to give traditional taste and texture.
Singly or 10 per outer
093045

Mini pots (2)
Each mini pot has side handles which stay cool in the microwave for easy handling. The lid is vented for safety and gives better results than simply resting a storage lid on top. Cook two foods at the same time using Minipots.
Singly or 12 per outer
093054

Multi-purpose tray
Designed to raise food so that it cooks more evenly and allows any fat or liquid to drain away. Has an extremely low thermal conductivity. It also stays much cooler than glass and ceramics.
Singly or 10 per outer
093050

Omelette pan
The hinged design makes folding omelettes easy.
Singly or 10 per outer
093043

Plate cover
Designed to keep your microwave oven clean when re-heating or cooking.
Singly or 10 per outer
093052

grove PRODUCTS

POP Kitchen Gadgets
Space saving collapsible silicon

Folding Colander
23cm Ø, 8.5 (4)cm depth
Singly or 6 per outer
Lime Green	**095236**
Blue	**095236B**
Grey	**095236G**

Folding Medium bowl
21cm Ø, 9.5 (4.5)cm depth
Singly or 6 per outer
Lime Green	**095237**
Blue	**095237B**
Grey	**095237G**

Folding Large bowl
37.5cm Ø, 14 (4)cm depth
Singly or 6 per outer
Lime Green	**095245L**
Blue	**095245B**
Grey	**095245G**

Folding 7L wash basin
43.5 x 27 x 14 (4)cm WxDxH
Singly or 6 per outer
Lime Green	**095241L**
Blue	**095241B**
Grey	**095241G**

Folding Dish drainer with tray
36.5 x 31 x 12.5 (6)cm WxDxH
Singly or 6 per outer
Lime Green	**095238L**
Blue	**095238B**
Grey	**095238G**

Non Slip Chopping Board
37 x 23cm WxD
Singly or 6 per outer
Lime Green	**095246L**
Blue	**095246B**

Folding 10L bucket
37cm Ø x height 25 (6) cm
Singly or 6 per outer
Lime Green	**095239L**
Blue	**095239B**
Grey	**095239G**

Folding basket
38 x 29 x 16 (5)cm WxDxH
Singly or 6 per outer
Lime Green	**095248L**
Blue	**095248B**
Grey	**095248G**

Pop cup
Folding silicone insulated cup
6 per outer
Assorted colours
095233

grove PRODUCTS

Drying racks and drainers

Mini dish drainer
Nylon coated wire measuring
30cm x 20cm
6 per outer
White   **095520A**
Chrome   **095510A**

Wire plate rack
Can be secured for safe transportation
of plates. Measures 27cm wide x 20cm
deep x 12cm high.
6 per outer
White   **095521A**
Chrome   **095511A**
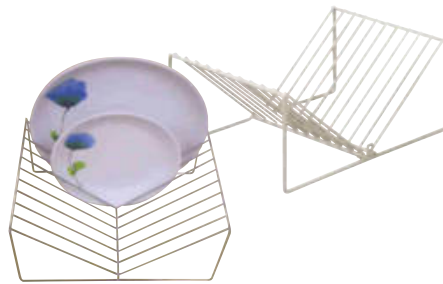
Wire mug holder
Can be secured for safe transportation
of mugs or cups. Measuring 9cm
square x 19cm high
6 per outer
White   **095527A**
Chrome   **095517A**

Colours Folding Plate Drainer
Disassembles to fold neatly into a retail box. Convenient as it does not take up
unneccessary shelf or cupboard space.
Singly or 12 per outer
Black   **095497B**
Red   **095497R**
Cream **095497C**

Folding plate rack
Open dimensions (LxWxH):
37x27x27cm Chrome **095512A**
6 per outer

Cup, plate, cutlery and bottle holders

Stepped cup and plate rack
535mm x 90mm.
Beige **095695** Ivory **095701**

Free standing cup and plate rack
525mm x 180mm x 90mm.
Beige **095682** Ivory **095684**

Cutlery trays
Three slot tray 370mm x 190mm x 50mm
Beige **095752** Ivory **095759**

Glass and bottle holders
Manufactured from coated sprung steel
Singly or 10 per outer
Three glass   **095850**
Six glass   **095858**
Single bottle   **095862**
Two bottle   **095872**
Three bottle   **095880**

Grove products

Cutlery

Cutlery set stripes
16 piece set. Singly or 12 per outer
081059

Cutlery set black
16 piece set. Premium quality.
Singly or 12 per outer
095147

Cutlery set in holder
16 piece set and holder. Hand polished stainless steel.
Singly or 12 per outer
Grey **095145**
Aqua **095146**

3 Piece Non stick Knife set
Assorted colours.
Singly or 6 per outer
With veg knife **095401**
With veg peeler **095402**

Linear cutlery packs
12 per outer
Fork (4) **095154**
Knife (4) **095153**
Spoon (4) **095155**
Teaspoon (6) **095152**

Casa cutlery tray
33 x 30cm
12 per outer
Silver **095760S**
Calico (cream) **095760C**
Duck egg (blue) **095760DE**
Chilli red **095760CR**
Ice white **095760IW**

Kitchen Utensils

Silicone spatula
12 per outer
Black **095212**
Purple **095213**

Silicone turner
12 per outer
Black **095214**
Purple **095215**

Silicone spoon
12 per outer
Purple **095219**

Silicone tongs
12 per outer
Black **095220**
Purple **095221**

Silicone spoon rest
Singly or 24 per outer
Black **095228**
Purple **095229**

Silicone trivet 17cm²
12 per outer
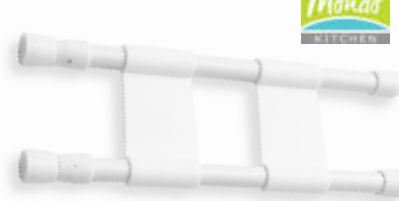Black **095230**
Purple **095231**

Rubber sink mats
Trim to size. White.
Singly or 6 per outer
26 x 31cm **095535**
32cm ø **095536**

Grove PRODUCTS

Kitchen Utensils

Via Mondo double refrigerator bar
Helps prevent movement of contents whilst travelling.
40.5cm closed. Extending to 71cm.
089065A

Via Mondo double cupboard bar
Useful addition to stop items falling if door opens in transit. 25.5cm closed. Extending to 43cm.
095689A

Tea towel holder
4 hole
12 per outer **095455**

Adjustable kitchen roll holder
Fits the majority of sizes available.
6 per outer **095461**

Kitchen towel holder
12 per outer **095460**

Chef aid food cover
095457

BBQ Tongs
Singly or 12 per outer **095350**

Kitchen tongs
12 per outer **095452**

Butterfly can opener
Singly or 12 per outer **095425**

Sidewinder can opener
18 per display **095421**

Cushion grip scissors
3 piece set
12 per outer **095424**

Rotary grater
12 per outer **095449**

Sink strainer
Stainless steel. 12 per outer
095454

Sink strainer
10 per outer
Chrome **051078C**
White **051078**

2 in 1 salt 'n' pepper mill
Twist one way for salt the other for pepper.
12 per outer
White   **095428**
Black   **095429**

2 in 1 oil 'n' vinegar spray
Twist one way to spray oil the other to spray vinegar.
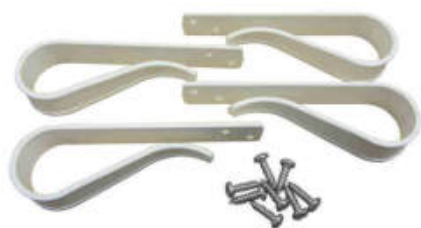12 per outer
White   **095426W**
Black   **095426B**

Corkscrew
Chrome plated
Singly or 12 per outer
095396

Grove
PRODUCTS

Kitchen Utensils

W4 Curtain/tablecloth clip
4 per pack.
Singly or 10 per outer
095632

Tablecloth clip (4)
Singly or 12 per outer
095640

Fiamma omni stop
Ideal to keep plates and items in place as you travel. Securing bar made from anodized aluminium
095697

Gas lighters and ignitors

For full details and specifications of lighters and ignitors please see page 135

Turboflame Pheonix PHB
● Size: 7.2 x 3.5 cm
070508B

Turboflame Ranger T2R
● Size: 7.4 x 3.3 cm
070508C

Turboflame V-Flame VFR2
● Size: 7.6 x 3.8 cm
070508D

Refill for gas lighters 250ml
12 per outer
070480

Piezo lighter
24 per display
070486

Scripto Aim 'n' Flame flex
Disposable lighter.
Singly or 16 per outer
070471

Scripto Dual Flame
Disposable lighter.
Singly or 16 per outer
070473

Scripto Ez-Squeeze
Refillable lighter.
Singly or 16 per outer
070475

Scripto Folding Utility
Refillable lighter.
Singly or 16 per outer
070474

Gas safety lighter
Long reach flame lighter
12 per outer
070498

Grove PRODUCTS

Waste Bins

Garbina waste unit
Easily fixed to any vertical surface with bags held in place by a rubber strap **095920**
Spare bags (25) **095935**

Ekologika bin
Packs away for covenience and can be set to two heights. 4 per outer
095923

Via Mondo caravan cupboard door bin
Complete with bracket to suspend from door
095941

Fiamma Pack waste
Folding dustbin with 2 hooks that can be dismantled includes 2 fix organizers to hang
106404

Bag bin
Wall fixing unit from which you suspend carrier bags. 12 per outer
095995

Cupboard door bin
Complete with bracket to suspend from door
4 per outer **095939**

8L Casa swing bin
10 per outer

Silver	**095986S**
Calico (cream)	**095986C**
Duck egg (blue)	**095986DE**
Chilli red	**095986CR**
Ice white	**095986IW**

Grove PRODUCTS

Flextrash

An eco-friendly bin system. Made out of recycled PET bottles! Plastic filaments from the bottles are converted into threads which are then used to manufacture 100% recycled Flextrash.

Step ONE - PICK A BIN

Flextrash is a soft shell bin that comes in various sizes.

3 litre small for your bathroom, the 5 litre medium for your car or motorhome or the 9 litre large for your caravan or motorhome!

Flextrash 3 Litre
095951A

Flextrash 5 Litre
095951

Flextrash 9 Litre
095950

Flextrash trash bags 3L
10 bags per pack
095957A

Flextrash trash bags 5L
10 bags per pack
095957

Flextrash trash bags 9L
20 bags per pack
095956

Step TWO - CHOoSE A SMART CLIP

Patented smart clips let you take Flextrash anywhere you want. Seat clips in your car, the vacuclip for any smooth surface or the campstick on site. The possibilities are endless!

Flextrash wallclip
095952

Flextrash table clip
095953

Flextrash vacu clip
095955

Flextrash seat clip
095960

Flextrash dash clip
095961

Counter top display
Speak to your sales contact for details
095958

Floor display
Speak to your sales contact for details
095959

Flextrash camp stick
095954

Grove PRODUCTS

Storage

FLEXI STORE -Durable and hardwearing plastic, perfect for all sorts of jobs around the house, caravan, motorhome and garden. Easy to lift with two integrated handles and will easily stack together for compact storage.

8L Flexi tub round
6 per outer
Calico (cream)   **095998C**
Graphite (grey)   **095998G**

25L Flexi tub round
6 per outer
Calico (cream)   **0959981C**
Graphite (grey)   **0959981G**

40L Flexi tub round
6 per outer
Calico (cream)   **0959982C**
Graphite (grey)   **0959982G**

24.5L Flexi bag
6 per outer
Coral   **095885CO**
Duck egg   **095885DE**

40L Flexi bag
6 per outer
Coral   **095886CO**
Duck egg   **095886DE**

Folding storage box
32 litre capacity. Measures 475 x 345 x 240mm (43mm when closed). Assorted colours.
Singly or 10 per outer
095892

W4 elasticated storage pocket
Can be attached to the inside of cupboard doors. Ideal to store magazines, maps, toiletries etc.
Dimensions 30cm x 17cm
095882

W4 hold steady
Plastic frame with elasticated cord dividers enables safe storage of many shapes and sizes of items. Can be used horizontally or vertically.
Dimensions 30cm x 20cm
095883

Grove PRODUCTS

Bowls & buckets

28cm Casa round bowl
12 per outer

Silver	**095537S**
Calico (cream)	**095537C**
Duck egg (blue)	**095537DE**
Chilli red	**095537CR**
Ice white	**095537IW**

32cm Casa square bowl
12 per outer

Silver	**095538S**
Calico (cream)	**095538C**
Duck egg (blue)	**095538DE**
Chilli red	**095538CR**
Ice white	**095538IW**

5L Casa bucket
12 per outer

Silver	**095997S**
Calico (cream)	**095997C**
Duck egg (blue)	**095997DE**
Chilli red	**095997CR**
Ice white	**095997IW**

Trolleys

HTD Folding trolley truck 80kg
- Maximum load: 80kg
- Unfolded: (HxWxD) 100 x 38 x 42cm
- Folded: (HxWxD) 68 x 38 x 5cm
- Weight: 3kg

2 per outer
050273

HTD Folding trolley truck 50kg
- Maximum load: 50kg
- Unfolded: (HxWxD) 98.5 x 34 x 47cm
- Folded: (HxWxD) 68 x 38 x 5cm
- Weight: 2.5kg

2 per outer
050272

Folding boot cart
- Folds flat when not in use
- Lightweight, durable, rustproof with smooth rolling rubber wheels
- Extendable aluminium handle
- Dimensions: 380 x 330 x 360mm
- Capacity 25Kg

6 per outer
095888

Grove PRODUCTS

Via mondo clothes dryers

3 Arm folding rotary airer
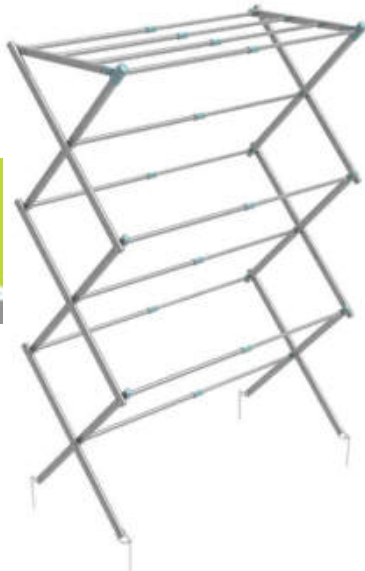12.5m of drying space
- Aluminium frame - Lightweight and strong
- Locking frame - locks in to place giving a secure open and closed position
- Supplied with ground pegs
- Oversized carry bag to make packing away easier
Dimensions: H145cm x L120cm x W120cm
Dimensions closed: 82cm x 27cm x 27cm
Weight: 1.82kg
Max load: 12.5kg
095478A

4 Arm deluxe folding rotary airer
20m of drying space
- Aluminium frame - Lightweight and strong with 4 legs for added stability
- Locking frame - locks in to place giving a secure open and closed position
- Supplied with ground pegs
- Oversized carry bag to make packing away easier
Dimensions: H152cm x L170cm x W170cm
Dimensions closed: 11 x 11 x 149cm
Weight: 1.95kg
Max load: 20kg
095478B

3 Tier expanding steel airer
4 to 7.5m of drying space
- Almost double width when expanded
- Durable powder coated steel frame
- Supplied with ground pegs
Dimensions: H104.5 x L37 x W75cm
Dimensions closed: 42.5 x 51 x 9cm
Weight: 2.4kg
Max load: 7.5kg
095479A

Freestanding multi airer
15m of drying space
- Flat mesh area for delicate items
- Small and compact when folded
- Durable powder coated steel frame
- Four legs for added support and stability
- Supplied with ground pegs and carry bag
Dimensions: H90.8 x L132 x W132cm
Dimensions closed: 11 x 11 x 92cm
Weight: 3.2kg
Max load: 15kg
095478E

grove PRODUCTS

Laundry and ironing

Via Mondo
HOUSEWARES

Window drying rack
Dimensions: H176cm x L60cm x W31cm
Singly or 40 per outer
095476A

Drying rack
Hooks over the edge of the caravan window providing 6 metres of drying space. Folds flat when not in use. Manufactured from medium gauge steel wire, nylon coated 4.5mm thick.
Folded dimensions (WxD): 58 x 48cm
Available singly or 10 per outer **095477**

Compact Airer
Hooks over the edge of a door or the caravan window. Folds flat when not in use.
Singly or 6 per outer **095476**

Travel steam iron
The fold down handle means you can take this travel steam iron anywhere. 230V. 750W.
Singly or 6 per outer
095097

Winged Airer
Portable airer. Folds flat when not in use, with enough space to dry a full load of washing.
6 per outer **095475**

Fiamma Easy Dry
Additional drying rack suitable for use on the folding rail of the Fiamma Carry-Bikes and other brands with a tube diameter of 35mm. You can also travel with the Easy Dry in situ. Complete with plasticized ropes and adjustable handles. Manufactured from anodized aluminium. Weight 1.2kg
095480
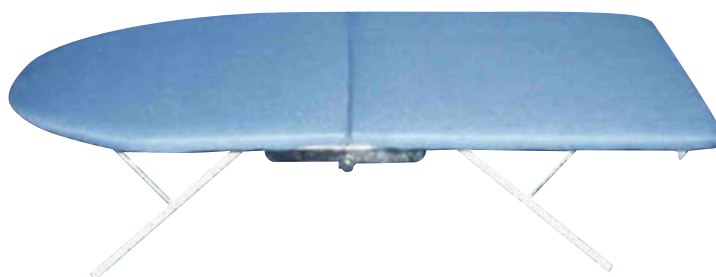
Folding ironing board
Folding legs, quality fabric cover, pressed wood top, chrome-wire iron rest. Folds in half for compact storage in re-usable storage bag. Surface area 81 x 30cm
095095

home
Jumbo Pegs 32pk

Jumbo clothes pegs
32 per pack Assorted colours.
24 per outer
095487

Grove
PRODUCTS

M

Moisture absorbers

Slimline moisture trap
Allows significantly more Air Flow than other traps in which the crystals sit very low and restricts air exposure
- Ideal for kitchens, caravans, boats and more
- For closed rooms measuring up to 40 m^3
- Excess moisture can cause mildew, wet rot, musty odours and other problems
- Works immediately
- No electricity or batteries required
- Easy fill top lid
- No spill sides
- Refill indicator

110170 12 per outer

Moisture crystal refill
500g   **110172**   12 per outer
2 x 500g   **110176**   8 per outer
5 x 500g   **110178**   4 per outer

Gel safe moisture trap
Helps prevent damp, mould, mildew, bacteria and musty odours, improving overall air quality and comfort. The gel residue cannot be spilled.
- Absorbs 400ml moisture and turns it to gel
- Effective for 6-8 weeks
- Protects against damp
- Improves air quality
- Quick and easy to use
- Non spill and non leak

110185 16 per outer

Mini moisture trap
- Last 6-8 weeks

110180 12 per outer

WOW GEL-SAFE traps and refills turn moisture into a gel, stored in a paper bag. Makes disposal safe and easy.

Gel safe refill
Extremely easy to replace
110187 12 per outer

Dry-Bag
An effective and economical product that is both simple and safe to use, eliminating condensation and damp problems. Protects interior fittings, fabrics, clothes, leather, electrical equipment from corrosion, rot, mould, mildew and odours. The Dry-Bag is manufactured using a cloth bag with lanyard and vertical window for hanging and monitoring, the colour will change from light brown to dark brown as it absorbs moisture. Each 1Kg bag can dehumidify an area of approximately 6-10 m^3
- Re-usable, simply dry out contents as per instructions
- Can be stored for up to 2 years
- 100% environmentally friendly
- Absorbs up to 75% of its dry weight
- Will not drip even when saturated

Dry-Bag 1 x 1000g   **110100** 15 per outer

WOW Reuseable!
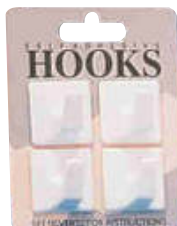
Hooks

Small oval hooks
3 per pack
10 per outer
099011

Large oval hooks
2 per pack
10 per outer
099015

Small square hooks
4 per pack
10 per outer
099019

Large square hooks
2 per pack
10 per outer
099023

Wash Brushes

HTD Telescopic flow-through brushes

Lightweight 22/25 mm diameter aluminium poles with various extensions. With easy-grip handle, super soft bristles, brass/steel connections for extra strength and on/off switch.

HTD Standard Head
- Extends from 116.5 - 200cms
- 25cms Brush head
- 1 Angle head
12 per outer
097080

HTD Dual Angle Head
- Extends from 116.5 - 200cms
- 25cms Brush head
- 2 Angle head
12 per outer
097081

HTD Heavy Duty 5 angle Head
- Extends from 116.5 - 200cms
- 30cms Brush head
- 5 Angle head
12 per outer
097082

HTD Extra Long Dual Angle Head
- Extends from 134 - 304cms
- 25cms Brush head
- 2 Angle head
12 per outer
097083

Display stand
097088

HTD flow through hand brush
- 53cm handle
10 per outer
097047B

Vacuum cleaning

Upright and hand held Vacuum cleaner 2 in 1
600 Watt
- Compact and Lightweight
- Upright & bagless design
- Quick release dust tank
- Includes crevice & brush nozzles.
- Cyclonic HEPA filtration
- 5m extra long cord
Available singly or 6 per outer
096099

Grove products

Fenwick's products

WOW Manufactured and designed in the UK.

FENWICK'S

Caravan cleaner
Cleans up to 40 caravans. It will safely remove black streaks, algae, moss, fungus, road and traffic film. Safe to use on acrylic windows, aluminium, rubber, decals, mastics, sealants etc.
1 litre   **098056** 10 per outer
25 litre   **098061**

Motorhome cleaner
Improved formula for use on motor homes. Contains corrosion inhibitors to protect steelwork. Power washers are often used so cleaning activity has been increased
1 litre   **098057** 10 per outer

Bobby dazzler
A unique finishing product for caravans, motor homes, cars, vans and lorries. Provides a protective coating and enhances shine. Simply applied in the rinse water it protects against road traffic film, salt spray, acid rain, rust and air borne pollutants and it contains an algae and mould inhibitor to slow their return.
1 litre   **098058** 10 per outer

Black streak remover
A 10 to 1 solution of caravan cleaner in a handy trigger spray for removing black streaks between washes.
1 litre   **098055** 10 per outer

Overwintering
Superb product to make spring cleaning easy. Simply coat the caravan or motor home with a dilution of over wintering to protect the surface from tree sap, bird droppings and general grime which accumulates over the winter months. Simply rinse with Fenwicks caravan or motorhome cleaner in the spring. Supplied in 1 litre bottles – enough to cover the average caravan twice
1 litre   **098054** 10 per outer

Waste pipe & tank cleaner
Cleans shower and sink drains, toilet cassettes, and eliminates unpleasant odours. Dilute to a 10:1 solution to clean hard surfaces. Fully biodegradeable and food safe, kills e-coli, salmonella and other germs. Also removes nicotine, egg, limescale, formaldehyde, and other hard to remove stains
1 litre   **097063** 15 per outer

Grove PRODUCTS

Fenwick's products

WOW Manufactured and designed in the UK.

Awning & Gazebo reproofer
Restores waterproofing qualities to synthetic materials and canvas. Protects against stains from dirt, grease, oil, food spills, and drinks. Deep penetrating, water based, non flammable formula. *Can be applied in damp conditions.* 1L covers up to 30m^2. Far safer than solvent based products.
1 litre **108405** 10 per outer

Awning & gazebo cleaner
Quickly and effectively cleans awnings, tents and gazebos. Removes black streaks, green algae and general grime. Spray on, wash off formula.
1 litre **108401** 10 per outer

Fenwick's Protective Coating
Fenwicks have perfected the art of paint sealing. They claim to have developed the best DIY paint sealant there is. Very simple and easy to apply and it lasts a long time.
Fenwicks Protective Coating forms a permanent non-stick flexible barrier to the environment, sealing the surface, making it microscopically smooth and giving a great finish. It may be applied to paint, GRP, aluminium, fibreglass, acrylic windows, glass and plastics in one easy application.
● Reduced cleaning times
● Increased cleaning intervals
● Superior surface protection
● Compatible with Fenwick's Caravan Cleaner and Bobby Dazzler
● Simple and very effective!
Kit contains: Fenwicks Protective Coating 1 litre, foam applicator pad, microfibre polishing cloth.
Protective Coating Kit   **098058S**
1 litre spray refill   **098058SR**

Fenwicks top & tail
A unique toilet fluid designed for use in both top and bottom tanks which makes it simpler to use and more economical. Save space by carrying only one bottle.
2.5 litre   **060266**   8 per outer

Windowize
An effective product to remove scratches from acrylic and plastic windows. When applied by hand it will remove scuff marks caused by trees as well as light scratches caused by dirt and grit.
100ml   **098052** 10 per outer

Fenwicks towball cleaner
For dry degreasing of all metal parts
● Improves damping performance
● Reduces stabiliser pad squeal
● Fast, effective, deep cleaning action
200ml   **007064**
10 per outer

1drywash waterless products

Starter kit
Kit contains: 1 x 500ml 1drywash with trigger and 2 x microfirbre cloths.
Singly or 10 per outer
098075

Caravan & Motorhome kit
Kit contains: 1 x 500ml 1drywash with trigger and 2 x microfirbre cloths.
Singly or 10 per outer
098074A

Replacement trigger
098085

1 litre refill kit
Kit contains: 2 x 500ml 1drywash with trigger
Singly or 10 per outer
098077

Mudbuster products

Mudbuster Caravan & Motorhome Cleaner
Exterior & interior cleaner, with 3 in 1 action for an unbeatable shine, every time! Wash & wax with black streak remover built in. Available in 3 sizes for a more comprehensive range
1 litre   **098020** 12 per outer
5 litre   **098022** 4 per outer
20 litre   **098023** 4 per outer

Mudbuster Glass & Acrylic Cleaner
A product that will leave all glass and mirrors clean and streak free. This glass and acrylic window cleaner is so easy to use, simply spray on and wipe off for a supreme shine.
1 litre   **098026** 12 per outer
5 litre   **098028** 4 per outer

Mudbuster Liquid Wax
A superior shine in two easy steps.
Simply spray on and hose off.
1 litre   **098024** 12 per outer

De-Solv-It products

Sticky stuff remover
The modern answer for removing paint, oil, grease, adhesive, tar, sticker residue etc.
250ml   **098095** 6 per outer

Window & glass cleaner
Quick effective cleaner for general grime on windows, perspex and plastic.
Non smearing spray
500ml   **098106** 8 per outer

Textured Multi-Task Wipes
● Dual sided tough action textured wipes for cleaning up wet paint, grease, adhesive, oil and more!
● For use on tools, hands and most surfaces.
● Dermatologically tested
● Anti-bacterial tested to BS:EN 1276: 1997 standards
80 wipes per pack **098105**
6 packs per outer

Grove PRODUCTS

Armor All caravan wipes

Caravan One-Step Spot Wipes
- One step cleaning inside and out!
- Removes black streaks, algae, insects and stubborn stains
- Suitable for many surfaces - bodywork, plastic and vinyl

24 wipes per pack **098033**
6 packs per outer

Caravan Rubber Seal Silicone Wipes
- One step cleaning and protection
- Lubricates seals and makes windows easier to open
- Excellent winterising coat to prevent sticking and cracking

24 wipes per pack **098034**
6 packs per outer

Caravan Window Cleaning Wipes
- One step cleaning inside and out!
- Streak free, non-scratch formula
- Suitable for acrylic, plastic and glass windows

24 wipes per pack **098035**
6 packs per outer

Caravan Canvas & Tent Spot Cleaning Wipes
- One step cleaning!
- Removes black streaks, algae, insects, bird lime and stubborn stains
- Suitable for synthetic, canvas and cotton materials

24 wipes per pack **098036**
6 packs per outer

Kilrock cleaning products

Slam Plughole Unblocker Bathroom
Specially formulated for bathroom blockages
- Blasts through hair, grease and soap scum
- Quickly clears bathroom plugholes and pipes
- Stops slow draining water

To prevent the build-up of blockages, give your plughole a SLAM every 2 weeks.
110190B   12 per outer

Slam Plughole Unblocker Kitchen
Specially formulated for kitchen blockages
- Dissolves fat, grease & food
- Quickly clears kitchen plugholes & pipes
- Stops slow draining water
- Stops smelly sinks & kills germs

To prevent the build-up of blockages, give your plughole a SLAM every 2 weeks.
110190K   12 per outer

Descalene Descaler (5)
Multi purpose descaler - effective limescale remover
12 per outer **110189**

Other cleaning products

Silky cream
A cleaner for all painted and synthetic surfaces. Non abrasive. 480ml
098063 12 per outer

Melamine soak
Convenient melamine cleaner supplied in a tub of 20 tablets.
12 per outer **081409**

40 Shot Dish & treat
Low foaming washing up liquid that also acts as a tank cleaner. Just wash the dishes and let the washing up liquid clean and protect your pipes and tank.
10 per outer **095575**

Cleaning equipment

5L Casa bucket
12 per outer
Silver	**095997S**
Calico (cream)	**095997C**
Duck egg (blue)	**095997DE**
Chilli red	**095997CR**
Ice white	**095997IW**

Velcro® brand

Dispensers
20mm x 10 meters
Stick 'N' Stick Ecru   **099412**
Stick 'N' Stick White   **099413**

Heavy duty tape
Extra Strong. Weather resistant adhesive. For Indoor and outdoor use. 50mm x 10 meters **099415**

Coins
Self adhesive discs with many uses.
16 per pack
099423 12 per outer

Heavy duty strips
Extra Strong. Weather resistant adhesive. For Indoor and outdoor use.
50mm x 100mm
099420 12 per outer

Velcro® self-grip ties
Perfect for organising bulky heavyweight cables. 30mm x 5 meters
099427 6 per outer

Rigid hang tabs
Repairs euro hook slots when damaged. 500 tabs per roll (53 x 42)
099081

WOW
New reduced price

Super jumbo car sponge
Available singly or
6 per outer **097005**

Rolson 4 piece cloth set
4 microfibre cloths.
12 per outer **097025**

Microfibre cloths
● Made from microfibre
● Cleans without chemicals
● Lint and streak free results
● Machine washable
● Environmentally friendly
● Magnetic to dust
12 per pack
20 per outer **097046**

W4 handies
One size disposable latex gloves, powdered for easy fitting. 6 pairs per pack
10 per outer **098150**

Non slip matting

Camco non slip matting
Suitable for many applications. Supplied in 12" wide rolls. Available singly or 10 per outer
12' beige	**096015**
12' burgundy	**096017**

Rolson non slip matting
Black heavy duty
Supplied in rolls.
125 x 45cm wide **096020**   30 per outer
150 x 30cm wide **096019A** 10 per outer

grove PRODUCTS

Nicoman Spaghetti mats

Nicoman are the only manufacturer in the UK producing PVC vinyl loop (spaghetti) floor mats to protect and enhance your leisure vehicle and to stand up to the toughest demands at home. The distinctive spaghetti mats are perfect for indoors and outdoors. They keep your vehicle or home clean and hygienic for weeks, due to the innovative design 'collecting' dust and debris preventing it being walked inside.

● Durable yet soft vinyl loops
● Traps mud, dirt, debris and moisture
● Can be cleaned by a hose or power washer

Welcome Spaghetti mat
10 per outer
44 x 75cm **096074**

Home Sweet Home Spaghetti mat
10 per outer
44 x 75cm **096073**

Union Jack Spaghetti mat
10 per outer
40 x 60cm **096069**
44 x 75cm **096069A**

Scottish Spaghetti mat
10 per outer
40 x 60cm **096069C**

Welsh Spaghetti mat
10 per outer
40 x 60cm **096069D**

Brown/beige Spaghetti mat
10 per outer
40 x 60cm **096071BB**
45 x 75cm **096070BB**
60 x 90cm **096072BB**

Charcoal Spaghetti mat
10 per outer
40 x 60cm **096070CH**
45 x 75cm **096071CH**
60 x 90cm **096072CH**

Black Spaghetti mat
10 per outer
40 x 60cm **096070BL**
45 x 75cm **096071BL**

Pink Spaghetti mat
10 per outer
45 x 75cm **096070P**

Grey Spaghetti mat
10 per outer
40 x 60cm **096070GR**

Z

Grove PRODUCTS

Mats and runners

W4 mini mat extra
Ridged door mat with non-slip backing. 49 x 33cm
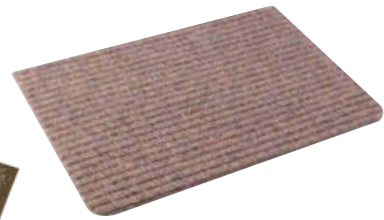**096044** 10 per outer

Miracle Barrier Mat
- Machine washable at 30°c
- 100% soft polypropylene pile with vinyl backing.
- Supplied flat with header card and hanger
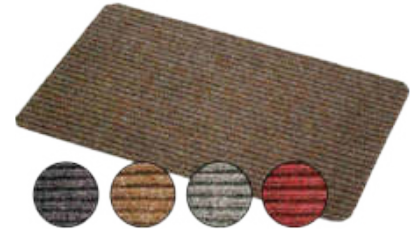- Six assorted colours.
40 x 60cm
16 per outer **096026**

Ideal barrier mat
- Hardwearing polypropylene pile.
- Machine washable at 30°C
- Vinyl backing
40cm x 60cm, assorted colours
16 per outer **096025**

Delta Mat
- Hardwearing polypropylene pile with gel backing
- Five assorted colours
40 x 60cm
25 per outer **096066**

Madras Runner
- Machine washable at 30°C
- Polypropylene loop pile with latex backing
- Six assorted colours
57 x 180cm
12 per outer **096068**

Madras Mat
- Machine washable at 30°C
- Polypropylene loop pile with latex backing
- Six assorted colours
40 x 70cm
24 per outer **096067**

Protective matting

Stick'n' Guard
Self adhesive protective carpet film – ideal for use in high traffic areas where carpets need temporarily protecting.
60cm width.
10m retail   6 rolls per outer   **120125**
100m workshop   **120126**

Carpet protector
Suitable for use on carpets, supplied in carry home polybag. 68cm width.
Available singly or 17 per outer
1.5m retail   Singly or 17 per outer   **120121**
30m roll   **120124**

Grove
PRODUCTS

MPK Rooflights

Multi-directional rooflight with opaque, flexible double skinned dome and frame available in two colours, beige or white. Telescopic arms allow the rooflight to be opened to any side. The dome skins have spacers between to guarantee free airflow that cannot be reduced by snow weight. Comes complete with removable flynet, and the 420 version comes with flynet and integrated roller blind. Sizes are based on the aperture cut out size.

Opaque rooflight with beige interior
280 x 280 with flynet	**102002**
360 x 320 with flynet	**102008**
400 x 400 with flynet	**102013**
400 x 400 with flynet and blind	**102016**

Replacement domes with beige handles
280 x 280	**102005**
360 x 320	**102010**
400 x 400	**102012**

Opaque rooflight with white interior
280 x 280 with flynet	**101972**
360 x 320 with flynet	**101978**
400 x 400 with flynet	**101983**
400 x 400 with flynet and blind	**101986**

Replacement domes with white handles
280 x 280	**101975**
360 x 320	**101980**
400 x 400	**101982**

Replacement flynets

280x280 beige **102019**	290x290 beige **102020**	360x320 beige **102021**	400x400 beige **102023**	For MPK 420
280x280 white **101989**	290x290 white **101990**	360x320 white **101991**	400x400 white **101993**	400x400 beige **102026**
				400x400 white **102024**

Replacement roller blind
Beige **102017**

MPK rooflight catches
Catch to lock rooflight in open or closed position 420/430.
4 per pack (2 black and 2 grey)
102018

VisionVent M Pro
Stylish and, simultaneously, highly developed tinted dome rooflight. The aerodynamic conception for an improved flow during driving. The advantages are lower driving noise and reduced air movement, despite permanent ventilation. Easy to operate, the VisionVent M pro rooflight ensures driving enjoyment and the greatest possible level of comfort. A new ventilation principle was developed which ensures improved condensation protection. The interior frame with a pleated blind and flynet, provides reliable protection against sunlight and insects, whilst still achieving 150cm^2 ventilation when closed.
Possible installation on 24-56mm roof thicknesses.
- Aperture: 400 x 400mm
- Dome: 560 x 560mm
- Height: 96mm
- Inner frame: 565 x 530 x 35mm

For Caravans free airflow: 150cm^2 **102028**

VisionStar M pro
VisionStar M pro tinted dome rooflights are available with or without permanent ventilation. The double-walled frame improves insulation. Low profile, smoked, double glazed dome (80mm height above roof) which helps to keep driving noise to a minimum and protects against UV light. The dome opening angle of up to 70° has a very easy single handed operation.
The interior frame with a pleated blind and flynet, provides reliable protection against sunlight and insects, whilst still achieving 120cm^2 ventilation when closed (permanent vent model only).
Possible installation on 25-60mm roof thicknesses.
- Aperture: 400 x 400mm
- Dome: 490 x 470mm.
- Height: 80mm
- Inner frame: 565 x 530 x 35mm

Permanently vented
For Caravans free airflow: 120cm^2	Boxed	**102015**
	Bulk	**102015B**

Non vented
For Motorhomes free airflow: 0cm^2	Boxed	**102014**
	Bulk	**102014B**

Heki rooflights

DOMETIC

All heki rooflights come complete with inner frame. With weather proof ASA frames and PMMA glazing, they are designed to provide excellent protection from the elements. Permanently vented versions are for caravans and those without permanent ventilation are for motorhomes.

Fitting kit required for Micro Heki

Replacement dome for Mini Heki style NON VENTED **102109**

Replacement dome for Mini Heki S **102108**

Micro Heki

Aperture	280 x 280mm
Exterior required	430 x 390mm
Glazing	Double
Opening	Lever
Positions	2
Max angle	50°
Weight	1.7kg

Permanantley vented
For caravans with free airflow:
Pleated flynet only **102073**
Pleated flynet & blind **102073A**
Non vented
For motorhomes no free airflow:
Pleated flynet only **102072**
Pleated flynet & blind **102072A**
Fitting kit
Adaptor frame **102071**

Mini Heki style

With pleated flynet & blind
Aperture	400 x 400mm
Exterior required	550 x 510mm
Glazing	Double
Opening	Lever
Positions	3
Max angle	50°
Weight	3.3kg

Permanantley vented
For caravans with free airflow:
25-41mm roofs **102080**
43-59mm roofs **102081**
Non vented
For motorhomes no free airflow:
25-41mm roofs **102077**
43-59mm roofs **102078**

Mini Heki S

With pleated flynet & blind
Aperture	400 x 400mm
Exterior required	500 x 500mm
Glazing	Single
Opening	Handles
Positions	5
Max angle	N/A (80mm open)
Weight	2.9kg

Permanantley vented
For caravans with free airflow:
23-41mm roofs **102074**
43-59mm roofs **102075**

Replacement dome for Midi Heki **102107**

Replacement dome for Heki 2 **102105**

Replacement dome for Heki 3/4 **102106**

Midi Heki

With pleated flynet & blind
Aperture	700 x 500mm
Exterior required	880x 650mm
Glazing	Double
Opening	Lever
Positions	3
Max angle	45°
Weight	8kg

Permanently vented
For caravans with free airflow:
White **102084**
Grey **102084A**
Non vented
For motorhomes no free airflow:
White **102085**
Grey **102085A**

Heki 2

With roller flynet & blind
Aperture	960 x 655mm
Exterior required	1080 x 790mm
Glazing	Double
Opening	Lever
Positions	3
Max angle	55°
Weight	11kg

Permanently vented
With free airflow:
No 12v lights **102092**

Heki 2 De Luxe

As above with duette (honeycomb) blind and interior lights
Permanently vented
With free airflow
4 x 12V 5W LED lights **102093**

Heki 3 plus

With pleated flynet & duette (honeycomb) blind
Aperture	960 x 655mm
Exterior required	1080 x 790mm
Glazing	Double
Opening	Crank
Positions	Variable
Max angle	70°
Weight	15kg

Permanently vented
With free airflow:
No 12v lights **102096**

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grove PRODUCTS

Fiamma Rooflights

Vent 28 F
With aluminium Flynet. Handle wheel opening. Aerodynamic shape.
For 28-60mm roof thickness.
80cm^2 permanent air flow.

Aperture	280 x 280mm
Exterior required	320 x 340mm
Crystal	**101097A**
White	**101097B**

Kit Turbo-Vent 28 F
Converts any Vent 28F into a 12v ventilator/aspirator.
Leaves 50cm^2 permanent air flow.
Fan: 12v, 25w, 1.9A max, 180mm ø, 9m^3 / minute max air flow
101099A

Vent F Pro
With Flynet and pleated blind. Handle wheel opening. Aerodynamic shape. Double opening arms for reliable, balanced opening and closing. For 28-55mm roof thickness.
100cm^2 permanent air flow.

Aperture	400 x 400mm
Exterior required	566 x 531mm
Crystal	**101100**

Fiamma rollo kit 40 x 40
Suitable for fiamma 400 x 400 rooflights, to add a roller blind.
102029

Vent
With Flynet. Handle wheel opening. Aerodynamic shape. For 30-50mm roof thickness.
80cm^2 permanent air flow.

Aperture	400 x 400mm
Exterior required	455 x 455mm
Crystal	**102030C**
White	**102030W**

Turbo-Vent
Manually operated opening with permanent air flow ventilation and a big fan with a 12V DC variable speed motor with 10 blades.
Fan: 12v, 36w, 0.3-3A, 300mm ø, 35m^3 / minute max air flow. Includes in/out, on/off switch and "Polar Control" thermostat.
80cm^2 permanent air flow.

Aperture	400 x 400mm
Exterior required	455 x 455mm
Crystal	**101091**
White	**101092**

Turbo-Vent Premium
Just like the Turbo-Vent but where all functions can be set in motion by a simple finger-touch.
Fan: 12v, 36w, 0.3-3A, 300mm ø, 35m^3 / minute max air flow.
80cm^2 permanent air flow.

Aperture	400 x 400mm
Exterior required	455 x 455mm
Crystal	**101093B**
White	**101093A**

Vent 50
Manually operated opening on all 4 sides with practical handles and with permanent ventilation. Comes with blackout roller blind and fly screen.

Aperture	500 x 500mm
Exterior required	570 x 570mm
Crystal	**101104**
White	**101102**

Fiamma turbo kit
Converts any rooflight (36cm to 48cm) into a 12v ventilator/aspirator.
Fan: 12v, 4w, 0.2-0.33A, 240mm ø, 7.2m^3 / minute max air flow
1 cable for lighter type socket and 1 cable for vehicles electric circuit.
Can also work on 8 x D batteries not supplied.
101095

Fiamma thermo vent 40
Suitable for any 400 x 400 rooflight. Keeps vehicle cooler in summer and warmer in winter.
102032

Fiamma Universal spoiler
Dimensions 110 x 20 x 12cm
102039
Fiamma Spoiler 40
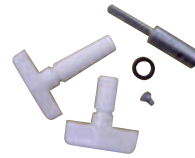49cm width to fit 400x400 rooflights
102039A

Other rooflights and accessories

Elixir rooflight
Single glazed unit with one way wind
up mechanism. Metal surround. To fit
aperture size: 360mm x 360mm
White **102033**
Spare dome only
White **102037**

Mushroom vent
White dimensions: 110mm Ø,
Height 50mm, Fits roof depth
22-54mm
103204

Dometic GY20 vent
A passive ventilator with easy push/
pull closing action. Creates permanent
ventilation to cut down condensation
and musty smells
103202

MPK vent 5038
117mm diameter (overall)
109mm (vent)
103200

Rooflight domes
Manufactured from vacuum formed
acrylic. The domes are not pre-drilled
14.5" x 14.5"   **102055**
18" x 18"   **102065**

Hit and miss vent
White 9.5" x 3.5"   **103101**
Brown 9.5" x 3.5"   **103112**

**Hit and miss vent and
flyscreen**
White 9.5" x 3.5"   **103123**
White 9.5" x 6.5"   **103134**

**Exterior louvre vent and
flyscreen**
White 9.5" x 3.5"   **103083**
White 9.5" x 6.5"   **103092**

Exterior louvre vent
White 9.5" x 6.5"   **103029**

**Fiamma
handle
extension**
102034

**Universal
extension
kit**
To suit all Fiamma
roof lights
102036

**Brevette
stays**
2 per pack
102162

**Roof cowl
Truma AK3**
801020

Heki 2 handle compensator
102091
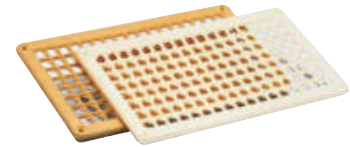
Grille vent
White 6.75" x 3.5" **103145**
Beige 6.75" x 3.5" **103156**

Interior louvre vent
White 6.75" x 3.5" **103038**
Brown 6.75" x 3.5" **103047**

Exterior louvre vent
White 9.5" x 3.5"   **103011**
Brown 9.5" x 3.5"   **103020**

3" hexagonal vent -pair
White **103167**   Brown **103178**
10 packs per outer

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Grove
PRODUCTS

Kronings NORDIC air-conditioners

Very Powerful - Extremely quiet

 Kronings NORDIC air-conditioning systems.
- **A2000** air-conditioner
- **K2400** air-conditioner with heat pump
- **K3400** air-conditioner with heat pump

WOW Great quality at affordable prices!

These powerful models are low weight, with very efficient, and very silent compressors compared to other products on the market. They are developed to cope with the very warm summer temperatures in Australia, and the very cold winters in the Nordic countries.
The compressor is specially made to be able to heat to your temperature setting with an outside temperature of -4°C, and an outside humidity of 40%, which is almost 10°C lower than other similar systems. They are designed to allow refilling of the cooling liquid. With other products on the market this can be difficult and costly, so Kronings air-conditioners have a longer life span compared to others on the market.

Specifications and key features

The reverse cycle heat pump roof top air-conditioner is a lightweight rooftop style unit.
A reverse cycle air-conditioner has unmatched efficiency and provides one of the most economical forms of heating. The K2400 & K3400 units provide both heating and cooling as well as filtered and dehumidified air.
Its lightweight design makes it suitable for a range of applications that the bigger units are unable to achieve.

The unit has many innovative features:
- **Compact Dimensions** makes it very versatile - internal dimensions 40cm x 40cm - the same as standard rooflights
- **Up to 70% more heat** than element type units by using a refrigerative heat pump
- **Ultra low profile** ensures less drag when towing and greater clearance under your carport or garage
- **Automatic de-ice setting** for low ambient heating operation.
- **Infra-red remote control**

A2000 / K2400   **K3400**

Model	A2000 COOLING ONLY	K2400 COOLING & HEATING	K3400 COOLING & HEATING
Power Supply	220-240V / 50Hz	220-240V / 50Hz	220-240V / 50Hz
Nominal Cooling	2.0kW	2.4kW	3.0kW
Nominal Heating	-	2.4kW	3.4kW
Unit Weight	30kg	31kg	48kg
Rooftop opening	400 x 400mm	400 x 400mm	400 x 400mm
Rooftop unit dimensions	1002 x 567 x 223mm	1002 x 567 x 223mm	1122 x 850 x 223mm
Interior unit dimensions	557 x 536 x 38mm	557 x 536 x 38mm	575 x 515 x 49mm
Power consumption (cool)	750W	920W	1410W
Power consumption (heat)	-	850W	1190W
Current consumption (cool)	3.3Amps	4.0Amps	6.1Amps
Current consumption (heat)	-	3.7Amps	5.2Amps
Part Number	**102171**	**102172**	**102173**

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Roof top air conditioning units

1. On/off
2. Mode
3. Fan speed
4. temperature selection
5. Clock
6. Sleep
7. Interior lighting
8. Timer
9. Resend
11. Reset

WOW Aventa Compact - Powerful cooling.
Why pay for heating twice.
Save weight, money and power!

Aventa Compact
Aventa compact is designed to fit on the roof of any vehicle. In its performance class, it is also the lightest and quietest roof-mounted air conditioning system on the market. Of course, the cooling power is excellent.
Grey   **102163B**
Cream   **102163A**

Aventa Compact Plus
With the same advantages as Aventa compact, Truma Aventa compact plus has even more cooling power. The vehicle reaches your desired temperature even faster.
Grey   **102163CG**
Cream   **102163C**

Aventa Comfort
Powerful cooling, efficient heating. The Aventa comfort can do more than just powerful cooling. During spring and autumn, you can also use the roof-mounted air conditioning system with integrated heat pump as a heater. And it's extremely energy efficient.
Grey   **102166B**
Cream   **102166A**

Model	AVENTA COMPACT COOLING	AVENTA COMPACT PLUS COOLING	AVENTA COMFORT COOLING & HEATING
Power Supply	230V	230V	230V
Nominal Cooling	1.7kW	2.2kW	2.4kW
Nominal Heating	-	-	1.7kW
Unit Weight	27.5kg	29.5kg	33kg
Rooftop opening	400 x 400mm	400 x 400mm	400 x 400mm
Rooftop unit dimensions	785 x 560 x 265mm	785 x 560 x 265mm	1008 x 660 x 248mm
Interior unit dimensions	556 x 496 x 46mm	556 x 496 x 46mm	670 x 523 x 46mm
Power consumption (cool)	645W	990W	965W
Power consumption (heat)	-	-	850W
Current consumption (cool)	2.8Amps	4.3Amps	4.2Amps
Current consumption (heat)	-	-	3.7Amps
Part Number Grey	**102163B**	**102163CG**	**102166B**
Part Number Cream	**102163A**	**102163C**	**102166A**

Optional sealing frame
For installing a Truma Aventa roof-mounted air conditioner. Ensures better sealing of existing holes from the removed rooflight and also assists roof stabilisation.
Reliably seals an area of 460 x 460 mm.
102169

WOW Easy retrofit through 400 x 400 rooflight, especially with the optional sealing frame **102169**

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Roof top air conditioning units

Freshjet
1700 **102183**
2200 **102185**

FreshLight 2200
102195

Remote control. The digital display shows the selected settings, such as temperature, blower speed, battery status, timer etc.

WOW FreshLight - The world's first roof air conditioner with integrated roof window with active ventilation system and single-pleated blackout blind

WOW Both the Freshjet and Freshlight have integrated LED lighting built into the inner frame.

Model	FRESHJET 1700 COOLING & HEATING	FRESHJET 2200 COOLING & HEATING	FRESHLIGHT 2200 COOLING & HEATING
Power Supply	220-240V / 50Hz	220-240V / 50Hz	220-240V / 50Hz
Nominal Cooling	1.7kW	2.2kW	2.2kW
Nominal Heating	0.8kW	1.2kW	2.7kW
Unit Weight	29kg	32kg	42kg
Rooftop opening	400 x 400mm	400 x 400mm	400 x 700mm
Rooftop unit dimensions	787 x 562 x 225mm	787 x 562 x 225mm	1105 x 758 x 210mm
Interior unit dimensions	555 x 470 x 45mm	555 x 470 x 45mm	880 x 550 x 53mm
Power consumption (cool)	620W	950W	950W
Power consumption (heat)	800W	1200W	1200W
Current consumption (cool)	2.7Amps	4.1Amps	4.1Amps
Current consumption (heat)	3.5Amps	5.2Amps	5.2Amps
Part Number	102183	102185	102195

Under bench air conditioning units

Truma Saphir Compact
Storage box system for smaller vehicles. Lightweight, low power consumption: The Saphir compact is ideal for small and medium-sized vehicles up to 5.5 metres long. The storage box system not only cools the air, but cleans and dehumidifies it at the same time.
102169C

Truma Saphir Comfort RC
Cooling and heating with one device Saphir comfort RC is designed to cool vehicles between 5.5 and up to around 6.5 metres long (more than 1 unit can be used). The device can also be used as a heater with heat pump – thanks to the reversible cooling circulation system. With a heat output of 1700 W, the system generates pleasant warmth, especially during spring and autumn.
102169D

Dometic FreshWell 3000
Conveniently housed in the under-bench storage area in motorhomes or caravans, this provides an efficient space-saving air conditioning solution for vehicles up to 8 m in length.
102197A

Model	TRUMA SAPHIR COMPACT COOLING	TRUMA SAPHIR COMFORT COOLING & HEATING	DOMETIC FRESHWELL 3000 COOLING & HEATING
Power Supply	230V	230V	230V
Nominal Cooling	1.8kW	2.4kW	2.7kW
Nominal Heating	-	1.7kW	3kW
Unit Weight	20kg	29.5kg	21kg
Unit dimensions	560 x 400 x 290mm	628 x 400 x 290mm	628 x 400 x 286mm
Power consumption (cool)	645W	965W	965W
Power consumption (heat)	-	850W	850W
Current consumption (cool)	2.8Amps	4.2Amps	4.3Amps
Current consumption (heat)	-	3.7Amps	4.8Amps
Part Number	**102169C**	**102169D**	**102197A**

Air distribution for under bench air conditioning

FreshWell 10m Ducting
Flexible hose for A/C systems, ø 60mm x 10m
102197B

FreshWell circular outlet
Circular air outlet grill kit for A/C systems ø 60mm
102197C

FreshWell Elbow
Underbench 90° elbow for ø 60mm FreshWell ducting
102197D

Consumables

THE WORK SHOP

WOW For workshop consumables please order in units of 1 to receive quantity in brackets.

Brake cleaner
500ml aerosols (6) **SAS2**
1 litre (12) **SAS81**

Zinc spray
500ml aerosols (6)
SAS24

Clear fine oil
500ml aerosols (6)
SAS56

Silicone spray
500ml aerosols (6)
SAS8

White grease PTFE
500ml aerosol (6)
SAS7

Copper grease
500ml aerosols (6)
SAS17

Clear grease
500ml aerosols (6)
SAS18

Silicone grease
500ml aerosols (6)
SAS19

Multi purpose EP grease
400g cartridges (12) **VC181**
5Kg tub **VC182**

Easy flow HD cartridge gun
Heavy duty for cartridges up to 400ml. Welded steel, epoxy-coated frame with zinc coated corrosion resistant sliding components.
TL885

Rolson caulking gun
Steel skeleton frame, handle with plunger and release lever. Suitable for most 310-380ml cartridges.
55 x 150 x 390mm.
Available singly or 12 per outer
107087

Grease gun metal
Metal bodied with extension pipe and 4 jaw coupler. $\frac{1}{8}$" bsp 2.0cc/stroke. Withstands pressure to 10,000psi. Takes 400g cartridges
TL922

Sprayers

Chemical sprayer
Not suitable for solvents including brake cleaner. 600ml **CAN8**

Pressol chemical sprayer
Heavy duty polyethylene. 750ml capacity. Fully adjustable nozzle. Suitable for use with cleaning fluids, lubricants and penetrating agents **CAN3A**

Solvent sprayer
Polyamid pump with viton seals. Polyethylene, 1 litre container. Can be used with brake cleaner **CAN12**

Grove products

Sealants & adhesives

WOW Approved by a host of leisure vehicle manufacturers

Dekaseal 8936

A permanently slightly sticky, non-hardening, sealant. Surplus amounts can be easily dabbed away, saving time and avoiding the risk of damaging side panels. Common uses are for sealing of windows, rooflights and overlaps and joints in vehicle construction. Excellent UV-resistance and ageing properties without any pre-treatment. Use Dekaseal for sealing any fixture that may have to be removed in the future for repair or replacement such as windows, access doors, rooflights and panel overlaps. 310ml cartridge

Black **107025**
Light Grey **107027**
Available singly or 12 per outer

Dekasyl MS2

A multi-purpose adhesive / sealant. Based on MS polymer, it's ideal for fitting equipment such as solar panels, satellite systems, etc to vehicle roofs. It has very high U.V. stability and excellent performance with no need for a primer before application. Use Dekasyl for fitting equipment such as solar panels, satellite domes and TV aerials to vehicle roofs. Extremely high bond strength and elasticity. 290ml cartridge

Black **107020**
Grey **107021**
White **107022**
Available singly or 12 per outer

Dekasyl MS5

With the same finished properties as MS2 with a shorter curing process for use where a high grab strength is required.

Black **107024**
White **107023**
Available singly or 12 per outer

Dekaphon 9735

An under body and wheel arch protection coating. It does not spray mist when applied, very good resistance to water and abrasion. Can be used on plywood, wood and metal. Use Dekaphon for enhancement and protection. Seals under-carriages and wheel arches, protecting against water ingress. Dekaphon 9750 can also be used as a primer for wood. 500ml aerosol Black **107038**
Available singly or 12 per outer

Dekapur 2K-90

Flexible polyurethane plastic repair adhesive. Can be used on ABS, PMMA, wood, metals, PVC, Polyester and painted metal. Very fast cure, 5 minutes! Easy and cost effective repair. Use Dekapur for bonding sandwich panels and plastic repairs.
50ml Black **107042**
Available singly or 24 per outer

Sealant strips

W4 sealing strip

Formulated for the sealing and re-bedding of caravan and trailer tent fittings. Suitable for use on aluminium mouldings, overlap joints, awning rails, exterior lights, window surrounds, grab handles and most external trims.

2.5mm x 5m
Retail packs

19mm Grey	**107089**
19mm White	**107092**
32mm Grey	**107090**
32mm White	**107093**
45mm White	**107094**

2.5mm x 5m
Workshop packs

19mm White	**107119**
32mm White	**107120**
45mm White	**107121**

grove PRODUCTS

Sealants & adhesives

Sikaflex 512 caravan
Multi purpose non-sag elastic one-part sealant. Resistant to UV radiation, ageing and weathering. Bonds well to many substrates. 310ml cartridge
White **107082**
12 per outer

Sikaflex 221
Fast setting one part polysulphide adhesive and sealant. Hardens to a flexible rubber-like consistency.
310ml cartridge
White   **107080**
Black   **107081**
12 per outer

MK40
Polyurethane sealant and adhesive in one.
310ml cartridge
White **107079**
12 per outer

IDL mastic sealant
Non-drying bedding sealant. 380ml cartridge
Cream **107077** White **107078**
15 per outer

Hodgsons seamseal CV sealant
Non-drying bedding sealant. 380ml cartridge
White   **107015**
Available singly or 24 per outer

Hodgsons silfix
Silicone sealant with many uses in and around the leisure vehicle e.g. sealing around toilets, shower trays etc.
310ml cartridge
White **107066** Clear **107067**
Available singly or 25 per outer

Adhesives and glues

Evo-stik impact
Instant contact adhesive. Multi purpose 30g **107145**
6 per outer

Araldite rapid adhesive
2x15ml tubes (2)
VC393

Araldite rapid adhesive
24ml syringe
VC394

SAS activator
Accelerates bonding of super glues. For use on PVCU, metal, glass and plastic.
200ml **SAS325**

Super glue
20g bottle
SAS4950

Bostik super glue
Original strong bond 3g
107150
12 per outer

SAS rapid epoxy
Repair compound for fast bonding of metals, glass, most plastics and other materials 24ml **SAS450**

Specialist Adhesives

Captain Tolley's
Formerly Creeping Crack Cure. Multi-purpose liquid sealant that finds and fixes leaks and seals hairline cracks. Compatible with all caravan building materials. Does not dissolve polystyrene
60ml **107290** 12 per outer

Geocel clear marine sealant
Permanently flexible and waterproof clear silicone rubber sealant. 78g tube
107005
6 per outer

AL-KO red sealant
Used for marking the nut position **107008**

Delamination kit
Floor fix 1.5Kg 2 part low odour epoxy adhesive is supplied with a 2.6ltr bucket for mixing, a pack of 20 (approx.) bungs and a syringe for application
107010

Tapes and packaging

Clear stretchfilm pallet wrap
Clear 400mm x 300 metres **203034**

Black stretchfilm pallet wrap
Black 400mm x 300 metres **203035**

Airsafe bubble wrap
1.5 metres x 100 metres
203036
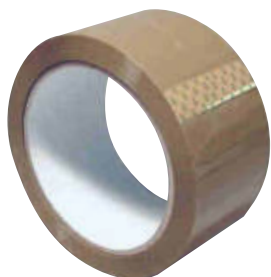
Carton sealing tape
50mm x 66 metres
6 per outer
203031

Fragile sealing tape
50mm x 66 metres
6 per outer
203030

Sealing tape gun
Tape dispenser
203033

Duct tape
Multi-purpose heavy duty tape for indoor or outdoor use.
10 metres silver.
24 per outer
107316

Gaffa tape
Multi-purpose heavy duty tape for indoor or outdoor use. Silver
Available singly or 24 per outer
50 metres **107315**

Double sided adhesive foam tape
Green backing. General purpose tape. Suitable for interioir and exterior use.
25mm x 10 metres **VC404**

Double sided tape
Non-foam type.
12mm x 50 metres **VC406**
25mm x 50 metres **VC408**

PTFE tape (10)
12mm x 12 metres
GLU5

Grove PRODUCTS

Workshop cleaning

Optimum ProWipers
ResourceRag Textured
A viable alternative to white wiping rags, the ResourceRag is clean, fresh and made to a monster size giving the user a 'real handful' for any wiping application. ResourceRag is chemical free and strong wet or dry. One case of ResourceRag is equivalent in wiping area to 3 x 10kg sacks of rags.
100 rags (460 x 380mm) per box
098212

Perform Tufwipe smooth
White 1 ply, 400 sheets per roll
21cm x 40cm sheets
1 pack = 2 rolls
098210

Toilet Rolls
White 2 ply luxury quilted.
1 pack = 40 Rolls
098220

Hand gel red beaded
5 litres
VC505

Centre-feed blue wipes
Blue 2 ply, 19cm x 150m
1 pack = 6 rolls
098204

Blue paper wipes
Blue 2 ply, 26cm x 400m
1 pack = 2 rolls
098208

Clips and ties

Hellermann cable ties
Black 100 per pack T30R
150mm x 3.5mm **ECT35**
100mm x 2.5mm **ECT81**

Cable clips
Self adhesive 50 per pack
8mm   **EAC2**
14mm **EAC3**

P clips
4.8mm	100 per pack	**EAC405**
6.0mm	100 per pack	**EAC406**
9.0mm	100 per pack	**EAC409**
12.0mm	100 per pack	**EAC412**
19.1mm	50 per pack	**EAC419**

Eurolok cable ties
Silver-grey 100 per pack
295 x 4.8mm **ECTG53**
370 x 4.8mm **ECTG57**

Cable tie base
Self adhesive with 2 screw holes.
50 per pack
4.8mm **EAC4**

'O'-clips
Double ear 25 per pack
11–13mm   **OC3**
13–15mm   **OC4**
15–18mm   **OC5**

Grove PRODUCTS

Assortment boxes

'O' rings metric
404 pieces
AB100

'O' rings metric
325 pieces
AB81

Heat shrink tubing
50mm lengths 172 pieces
AB103

Heat shrink tubing
200mm lengths 30 per pack
AP33

Repair washers
240 pieces
AB22
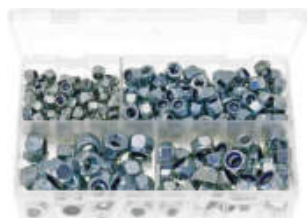
Nylon lock nuts metric
300 pieces
AB15

Split pins
1000 pieces
AB32

Grommet assortment
Black PVC. 140 pieces.
Includes: 30 x 6.4mm, 8.0mm
& 9.5mm, 20 x 11.0mm &
12.5mm, 4 x 15.9mm and 3 x
22.2mm & 25.4mm.
6 per outer **105564**

Screws, rivets etc.

Self tapping screws
Counter sunk . Pozi- Zinc
200 per pack
No.6 $5/8$" 16mm	**HTC6/5**
No.6 ¾" 19mm	**HTC6/6**
No.6 1" 25mm	**HTC6/8**
No.6 1½" 38mm	**HTC6/12**
No.8 $5/8$" 16mm	**HTC8/5**
No.8 ¾" 19mm	**HTC8/6**
No.8 1" 25mm	**HTC8/8**
No.8 1½" 38mm	**HTC8/12**

Pan head screws
Pozi - stainless steel
200 per pack
No.6 x ½" 13mm	**HTA6/4**
No.6 x ¾" 19mm	**HTA6/6**
No.6 x 1" 25mm	**HTA6/8**
No.8 x ½" 13mm	**HTA8/4**
No.8 x ¾" 19mm	**HTA8/6**
No.8 x 1" 25mm	**HTA8/8**

Repair washers
Zinc. M6 x 19mm.
Inside ø ¼" x outside ø ¾"
200 per pack
HRW14

Steel rivets
Standard flange 100 per pack
4.8 x 12mm   **PRS4**
4.8 x 16.5mm **PRS5**
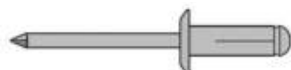
Peel back rivets
100 per pack
4.8 x 12mm   **PR47**
4.8 x 19mm   **PR48**

Split pins
500 per pack $3/32$" x 1½"   **HSP4**
250 per pack $5/32$" x $1 5/8$"   **HSP12**

W4 fixings range

'Pack-it' stand complete with 10 of 24 items Part no. **103470**
All supplied 10 packs per outer

W4 Counter sunk screws
Counter sunk - Pozi
Stainless steel
5 per pack 10 packs per outer
No.4	½"	13 x 2.9mm	**103432**
No.6	½"	13 x 3.5mm	**103433**
No.6	¾"	19 x 3.5mm	**103434**
No.6	1"	25 x 3.5mm	**103436**
No.8	¾"	19 x 4.2mm	**103435**
No.8	1"	25 x 4.2mm	**103437**
No.10	¾"	19 x 4.8mm	**103444**
No.10	1"	25 x 4.8mm	**103438**

W4 Pan head screws
Pan head - Pozi
Stainless steel
5 per pack 10 packs per outer
No.4	½"	13 x 2.9mm	**103418**
No.6	½"	13 x 3.5mm	**103419**
No.6	¾"	19 x 3.5mm	**103420**
No.6	1"	25 x 3.5mm	**103422**
No.8	½"	13 x 4.2mm	**103439**
No.8	¾"	19 x 4.2mm	**103421**
No.8	1"	25 x 4.2mm	**103423**
No.10	¾"	19 x 4.8mm	**103441**
No.10	1"	25 x 4.8mm	**103424**

Screw Covers (5)
Plastic. To fit screw size
6 to 8, 4.2mm, Beige
103447

Cavity fixer rubber (2)
Standard **103429**
Long   **103431**

Polytop Pins (10)
25mm   **103428**

Cavity fixer metal (2)
103430

Grove PRODUCTS

Bulbs

Side & tail bulb
BA15s single contact
10 per pack
Carlex bulbs
5w **EB207**
10w **EB245**
Ring bulbs
10w **ER245**
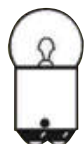
Side & tail bulb
BA15d double contact
10 per pack
Carlex bulbs
10w **EB209**

Capless bulb
W2 x 4.6D
10 per pack
Carlex bulbs
1.2w **EB286**

Stop/flasher bulb
BA15s single contact
10 per pack
Carlex bulbs
21w **EB382**

Stop/tail & daylight running bulb
BAY15d double contact
10 per pack
Ring bulbs
21/5w **ER380**

Cable connectors

Yellow fits 4 to 6mm^2 ø cable - **Blue** fits 1.5 to 2mm^2 ø cable - **Red** fits 0.5 to 1.5mm^2 ø cable

Push-on female
100 per pack
Blue 6.3mm **ET7**
Yellow 9.5mm **ET12**

Insulated female
100 per pack
Red 6.3mm **ET9**
Blue 6.3mm **ET10**

Push-on male
100 per pack
Red 6.3mm **ET36**
Blue 6.3mm **ET37**

Heat shrink butt connectors
Adhesive lined
25 per pack
Blue 5mm **ET92**

Bullets
100 per pack
Blue 5mm **ET16**

Receptacle socket
100 per pack
Blue 5mm **ET19**

Butt connector
100 per pack
Red 3.3mm **ET33**
Blue 4.0mm **ET34**
Yellow 5.5mm **ET35**

Ring terminals
100 per pack
Blue 6.4mm **ET26**
Yellow 8.4mm **ET30**
Yellow 10.5mm **ET32**

Terminal blocks
12 way 10 per pack
15amp **ETB15**
30amp **ETB30**

Copper tube terminals
10 per pack
35mm x 8mm **ET73**
35mm x 10mm **ET74**

PVC insulation tape (10)
Electrical insulation tape. Black. Flame retardent to BS 3924 1980 Category 2.
19mm x 20 metres
EPT1

Relays
Electrically operated switch that can be used to isolate the auxilliary battery from the vehicle battery.

12v 20/30A
Normally open contact
ERL7

12v 40A
Normally open contact
ERL11

Fuses

Standard blade fuses
50 per pack
3amp **EFX3**
5amp **EFX5**
7.5amp **EFX7.5**
10amp **EFX10**
15amp **EFX15**
20amp **EFX20**
25amp **EFX25**

grove PRODUCTS

Tools
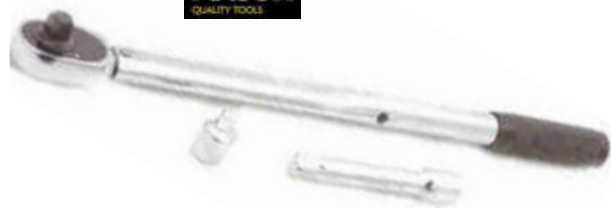
Torque wrench ½" drive
- Heat treated steel ratchet head.
- Fully hardened and tempered.
- Chrome plated for corrosion resistance.
- Micrometer type torque range adjustment with flip reverse ratchet mechanism.
- Range 27-200 Nm, 20-150ft.1b. Length 465mm
Available singly or 10 per outer **105535**

Mini trifold tool kit (26 pieces)
Contents: 10 x 25mm bit assortment, magnetic tip screwdriver bit handle, mini long nose pliers, mini side cutting pliers, tweezers, 4 x ¼" Dr sockets, 75mm extension bar, 6 x precision screwdrivers, and hard case. Available singly or 40 per outer **105573**

Jobber twist drill bits
HSS "sprint" DIN 338

10 per pack	
1mm	**DRM1**
1.5mm	**DRM1.5**
3mm	**DRM3**
5mm	**DRM5**

Emery roll
Blue twill. 50mm width 80 grit.
50 metre roll
WER30

Tape measure with rubber cover
Automatic blade lock, push button retrieval, and belt clip.
12 per outer
5m x 19mm   **105539**
7.5m x 25mm   **105540**

Stubby screwdriver set (38 pieces)
Consists of stubby ratchet screwdriver. Sizes include Star T10, T15, T20, T25, T27, T30, T40. Square 1, 2, 3. PZ0, PZ1, PZ2 x 2pcs, PZ3. PH0, PH2 x 2pcs, PH3 Hex H2, 3, 4, 5, 6, 1/8", 5/32", 3/16", 7/32", 1/4" Slot 3, 4, 5, 6, 7mm.
6 per display outer
105516

Screwdriver set (4 pieces)
Manufactured from carbon steel, with plastic handles. 1 x 75mm slot 5, 1 x 38mm slot 6, 1 x 75mm crosspoint PH1, and 1 x 38mm crosspoint PH2.
20 per display outer
105510

Cushion handle screwdriver set (2 pieces)
Consists of: 1 x 100mm crosspoint PH2 and 1 x 100mm slotted 6. Manufactured with Chrome Vanadium shaft and soft cusion grip.
10 per display outer
105517

8" combination plier
Drop forged. Fully polished heads. Double dipped cushion handles. Length 200mm.
10 per display outer
105527

Side cutting pliers
Drop forged. Fully polished heads. Double dipped cushion handles. Length: 180mm.
20 per outer
105531

7" eyelet plier set
Designed to punch and secure eyelets into many materials including sheeting, tarpaulins, and cloth. Complete with 100pc x 7mm eyelets. Length 190mm.
10 per display outer
105502

Tools

Trimming knife
Metal bodied, heavy duty with snap-off 18mm blade **TL675**

Trimming knife blades only
Snap-off 18mm for TL675. 10 blades per pack, 10 packs per outer **TL666**

Blade dispenser
With 100 heavy duty blades **TL658**

Safety utility knife
Spring activated blade that automatically returns to case after use. 12 per outer **105545**

10" adjustable wrench
Drop forged. Heat treated steel. Fully polished jaw faces. Rubber dipped comfort grip handle.
6 per display outer
105533

Hex key set (10 pieces)
Chemically blackened.
Sizes 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8, and 10.0mm.
Available singly or 10 per outer
105550

Push Locks

Push lock
With one side opening. Cupboard catch opens from outside only
White   **103500**
Brown   **103502**
Matt Nickel **103504**

Mini push lock
With one side opening. Cupboard catch opens from outside only
White   **103522**
Brown   **103524**
Matt Nickel **103526**

Push lock double
With dual side opening. Toilet door catch opens from both sides
White   **103512**
Brown   **103514**

Button and rose
Button 23mmØ x H 19mm
Rose 38mmØ x H 7.5mm
Chrome   **103528**
Brown   **103530**
Brass   **103532**
Matt Nickel   **103534**

Mini button and rose
Button 16mmØ x H 16mm
Rose 24.5mmØ x H 7mm
Matt Nickel   **103536**
Brown   **103538**

Grove products

Catches, hinges and fasteners

WOW All packaged with Grove logo
10 packs per outer

Nylon door retainer
104002

Viva door retainer
104004

Plastic door retainer
104011

Stable door catch
Beige   **104015**

Turn button, spacer & striker
Beige   **104030**
Ivory   **104033**

Plastic turnbuckle
104037

Metal turnbuckle
104048

Stable door bolt
104176

Roller catch
Brown   **104106**
White   **104107**

Double roller catch (2)
104108

Sliding door gliders
5 per pack **104835T**

External catch
Available singly **104790**

Metal cupboard hinge
104200

Metal overhead stay
Offset for overlapping doors
104202

Cupboard stay
150mm   **104301**
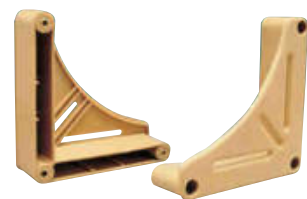
Table storage bracket (2)
104187

Flush hinge (2)
Bronze 2" (50mm)
104220

Plastic flap hinge (2)
104209

Cranked flush hinge (2)
50mm   **104222**

Kitchen flap support bracket   **104323**

Grove PRODUCTS

Door retainers

FIAMMA

Door holder Grey
104014

Lever release
Black **104797**
Grey   **104796**
White **104795**

(W4)

Quick release barrel
Black **104798**
Grey **104798G**

Hinged veneta door retainer
104803H

W4 Catches and water fittings

All supplied 10 packs per outer unless otherwise stated

(W4)

Nylon door retainer
104801

Plastic door retainer
104802

Veneta door retainer
104803

Viva door retainer
104848

Extended Viva door retainer
104847

Magnetic catch
104823

Magnetic catch heavy duty
104824

Double roller catch (2)
Brown
104817

Rocker catch
White
104818

Panco catch
White
104819

Roller catch
Brown
104821

Mini latch
104822

Plastic turnbuckle
104810

Metal turnbuckle
104811

Glider for sliding door
Brown
104835

Plastic hinge (2)
Brown 1¾" (45mm)
104825

Flush hinge (2)
2" Bronze 50mm
104826
1½" Brass 38mm
104844

Cranked hinge (2)
2" Bronze 50mm
104827

Push-in vent (2)
Beige **104815**

Hexagonal vent (2)
Beige **104816**

grove PRODUCTS

247

W4 Catches and water fittings

All supplied 10 packs per outer unless otherwise stated

Snap retainer lock
Beige **104001**
Light grey **104001LB**

Cupboard door catch
104302

Push button mini catch
104112

Lever operated mini catch
104109

Mini catch Strike Plate
11mm **104110**
15mm **104111**

Cupboard door stops (12)
104871

Suction cup and hook (2)
2 per pack **104859**

Sink Waste plugs (2)
1 ½" **051076**
Universal self seating **051077**

Waste strainer
Chromed **051078C**
White **051078**

Target leveller
Adhesive **007297**

Sink top retainer
104812

Universal tap connector
104845

Pipe clip (5)
¼" (6mm) **104828**
⅝" (16mm) **104829**
¾" (19mm) **104830**
1" (25mm) **104831**
1¼" (31mm) **104809**

Hose clip (2)
000(8-16mm) **104832**
00 (12-22mm) **104833**
0X (16-27mm) **104834**
1X (25-45mm) **104836**

Elbow connector
½" (12mm) **104805**

Hose reducer
⅜" x ½" (10 x 12mm)
104837

Y connector
½" (12mm) **104839**
¾" (19mm) **104842**
28.5mm **051139** *

Hose connector
½" (12mm) **104838**
¾" (19mm) **104841**

T connector
½" (12mm) **104840**
¾" (19mm) **104843**

Combination padlock
104813

Air bed plugs
109480

Hose sealing sleeve
23.5mm **104806**
28.5mm **104807**

Turnbuckle set
104870

Turnbuckle spacer
104869

Grove PRODUCTS

W4 Catches and water fittings

All supplied 10 packs per outer unless otherwise stated

Double roller catch
Metal **104857**

Pegaline catch
104856

Barrel hinge (2)
104867

Table support catch
104855

Lock cover (2)
104854

Flush hinge
Brass 2" (50mm)
104862

Cranked flush hinge (2)
Brass 2" (50mm)
104863

Flush hinge with finials (2)
Brass 2" (50mm)
104864

Flush hinge with finials (2)
Bronze 2" (50mm)
104865

Nylon hinge (2)
2" (50mm)
104868

Cupboard stay
150mm **104846**

Metal cupboard stay
140mm **104853**

Locker stay (1)
130mm **104861**

Wardrobe rail support end (2)
⅝" (16mm)
104850

Brass bolt
2" (50mm)
104872

Brass necked bolt
2" (50mm)
104873

Awning rail

Aluminium awning rail
4mm opening. 9mm internal diameter, 12mm external.
10 lengths per outer
1.55 metre lengths   **105099A**
2.12 metre lengths   **105099**
2.7 metre lengths   **105099B**

Plastic awning rail
Pre-drilled 2.5 metre lengths
10 lengths per outer
105088

Fiamma rail
1 piece 3 metre length
108313E

Grove PRODUCTS

Blind and rooflight spares

REMIS

Remis insert type 2
105212

Remis end cap
Left   105202
Right 105204

Remis end cap covers
105206

Remis clip grey
Closing clip for Remismart
105200

Remis repair kit
105214

Remis mechanism (2)
105208

Remis spring mechanism
105216

Remis mechanism end supports
105218

Window blind spares

SEITZ

Seitz end cap covers
105231

Rail end
Left   105248
Right   105250

End piece
105240

Retaining hook
105252

Long blind lock
105232

Blind lock
105254

Blind slider & catch
105363

Spring 285mm
105242

Long handle
105226

Clip beige
105244

Mechanism (end)
105236

Retaining knob
105224

Grove PRODUCTS

Window fittings and accessories

How to measure
Stay lengths are found by measuring between points A and B as shown here.

A

B

Tube Stays

Auto Stays

POLYPLASTIC
ACRYLIC SOLUTIONS
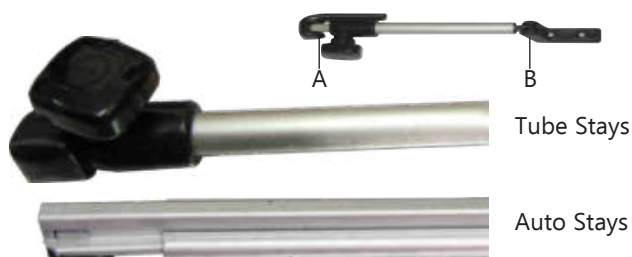
Blister packed
All Polyplastic window stays are sold blister packed in pairs unless otherwise stated.

Fittings for screw on

Screw on lever lock end detail

Polyfix lever lock end detail

Screw on perma fix end detail

polyfix perma fix end detail

Screw on fittings
Supplied in pairs and with fittings where indicated

Tube stays with lever lock & fittings

Size	Grove no.
200mm	105300
300mm	105303

Auto stays with lever lock & fittings

Size	Grove no.
230mm	105305
280mm	105308

Auto stays with perma-fix end

Size	Grove no.
210mm	105312
300mm	105315

Lever lock catch screw on
105322

Polyfix fittings
Supplied in pairs unless otherwise stated

Tube stays with lever lock

Size	Grove no.
200mm	105350
300mm	105353

Tube stays with perma-fix end
Right hand stay only

Size	Grove no.
140mm	105360

Auto stays with lever lock

Size	Grove no.
230mm	105355
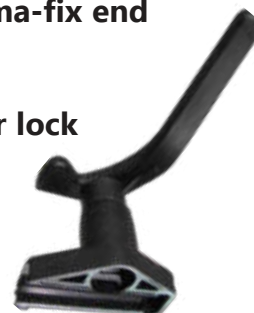
Lever lock catch Polyfix
105372

Othe Window Accessories

Pop-out window stay
105318
Supplied as packed singles with all fittings

Lock plate (2)
Large **105326**
Small **105324**

End caps Polyplastic (2)
Loose, black
105398

Grove
PRODUCTS

Curtain track and fittings
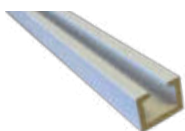
Sprint
Track (3m)
5 lengths per outer
105011A

Sprint
Gliders (20)
10 packs per outer
105033

Sprint
End stops (2)
10 packs per outer
105044

Sprint
Curtain hooks (25)
20 packs per outer
105055

Nylonglyde
Track (3m)
5 lengths per outer
105067

Nylonglyde
Brackets (5)
10 packs per outer
105069

Nylonglyde
Gliders (10)
20 packs per outer
105068

Nylonglyde
End stops (2)
10 packs per outer
105080

Nylonglyde
Curtain hooks (25)
20 packs per outer
105055

Silent gliss
Track Top fix (2m)
5 lengths per outer
105071

Silent gliss
Track Face fix (2m)
5 lengths per outer
105070

Silent gliss
Gliders (25)
10 packs per outer
105072

Silent gliss
End stops (2)
10 packs per outer
105074

Silent gliss
Curtain hooks (25)
10 packs per outer
105073

Visa
Top track (2m)
5 lengths per outer
105005

Visa
Bottom track (2m)
5 lengths per outer
105006

Visa
Pop-it tape
25m roll   **105009**
200m roll   **105010**

Visa
End stops (2)
20 packs per outer
105007

Panel Trims

Panel trim 15mm
With single lip. Supplied in 10m lengths
Brown **105184**
Grey   **105186**

Sealing panel trim 15mm
With sealing rubber. Supplied in 10m lengths
Brown **105188**
Grey   **105190**

Door sealing panel trim 15mm
With sealing bubble for doors. Supplied in 10m lengths
Brown **105192**
Grey   **105194**

Corner trim 16mm
2.2m lengths
Brown **105196**
Grey   **105198**

Table strip

Two part table strip length 600mm
105167

Window trim

White plastic supplied in 10m rolls. Please note that the trim is measured by the size of the wood that the trim fits over and not the size of the trim.
30mm - 1⅕"   **105130**
35mm - 1²⁄₅"   **105135**
39mm - 1½"   **105139**
45mm - 1¾"   **105145**

Battery box seal

Supplied in 2m lengths. Complete with mastic.
105170

Steps

Single step
Rigid metal based step, light in weight but sturdy construction.
H260mm x W395mm x Overall depth 415mm.
Capacity 150kg maximum total load.
Available singly or 10 per outer **106198**

Double step
Rigid metal based step, light in weight but sturdy construction.
H350mm x W440mm x Overall depth 760mm.
Capacity 150kg maximum total load.
Available singly or 5 per outer **106211**

Step accessories

Via Mondo step feet (4)
Helps to spread the weight of caravan steps or furniture to protect the groundsheet and prevent sinking into soft ground. Pegging holes also prevents the step from moving.
30mm x 80mm Ø
106221
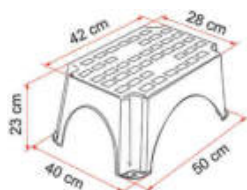
Fiamma step grey
The classic step for caravans and motor homes, made of UV-resistant HD Polythylene for more stability and strength. Non skid surafce.
Approved to hold 150kg.
106201G

Fiamma LED step light 12v
Low consumption lighting system for the entrance of the motor home, to increase safety of the steps and step wells. Made from anodized aluminium, it can be shortened from 50 to 23 cm
106204
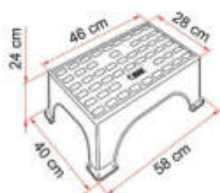
Fiamma magnum step
Oversized and reinforced step. HxWxD 24 x 58 x 40cm. Top surface - 46x28cm. Approved to hold 200kg. Colour platinum.
Available singly or 10 per outer
106201P

AVAILABLE TO ORDER

Fiamma step mat magnum
Made from soft and flexible anti-skid UV resistant rubber.
Dimensions 45 x 27cm
106205

Fiamma clean step
Can be adapted to step sizes: Min 38x40cm to Max 45x40cm.
Green **106213**
Black **106214**

253

R

Table leg systems

FIAMMA

106001

106036

106039

106002

106024   106038

Fiamma table leg system

The 70cm table leg is made from sturdy anodised aluminium – the leg can be cut to reduce height. It is supplied with two plastic caps. The above floor and recessed bases are also aluminium and supplied with self-threading fixing screws. There is also a reinforced and more stable tripod base for outside use.

Table leg 70cm aluminium	**106001**
Above floor base aluminium	**106024**
Recessed base aluminium	**106036**
Cap for recessed base	**106038**
Tripod base brown	**106039**
Table leg adaptor tube pro	**106002**

Island table leg system
26" stainless steel	**106004**
28" stainless steel	**106005**

Island leg clip
106093

Recessed base
106035

Above floor base
106034

Free standing table legs
Folding table leg, powder coated steel 660mm high. Square section.
Singly or 5 per outer
Silver sand	**106091**
Brown	**106092**

Folding table leg
Tubular steel leg 26".
Singly or 5 per outer
106099

Single table leg
27" but can be cut to size required.
Singly or 5 per outer
106115

Folding step stool
Stool is designed to fold flat for easy carrying and storage, with a capacity up to 200lbs, also very sturdy and robust.
Singly or 12 per outer
106220

Grove PRODUCTS

Exterior ladders

FIAMMA

Sturdy and lightweight high quality exterior ladders.
- 30mm diameter, 2mm thick tubes in anodized aluminium
- Inside width: 28cm
- Total step width: 35cm

Ladders Deluxe 8 and 5D can be folded up while travelling.
Ladder DJ is supplied with fixing bars for easy and quick installation on the rear door. It can be combined with Carry-Bike DJ.
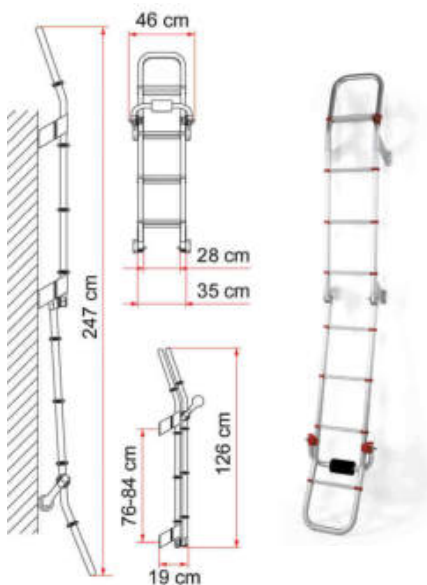
Deluxe 8 ladder
Anodized aluminium ladder with 8 steps.
It can be folded up while travelling.
Weight 5.5kg.
106227
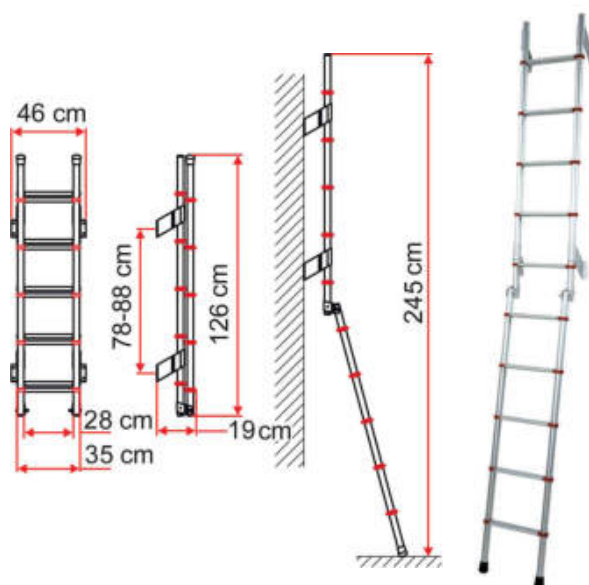
Deluxe 5D ladder
Anodized aluminium ladder with 10 steps.
It can be folded up while travelling.
Weight 4.9kg.
106225
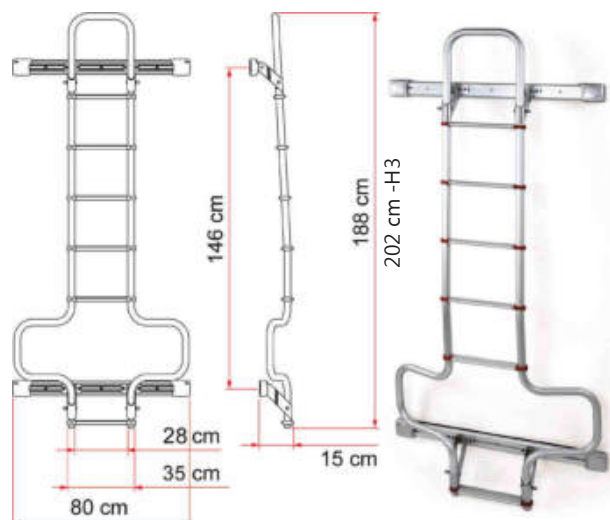
Deluxe DJ ladder
Anodized aluminium ladder with 6 steps.
Weight 6.5kg.
Deluxe DJ   **106228**
Deluxe DJ H3   **106228A**
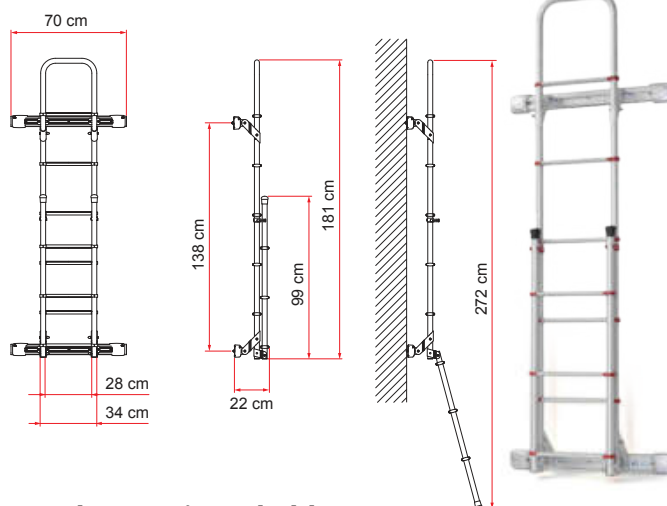
Deluxe sprinter ladder
Anodized aluminium ladder with 8 steps.
It can be folded up while travelling. Weight 7kg.
106336M

Grove PRODUCTS

Interior ladders
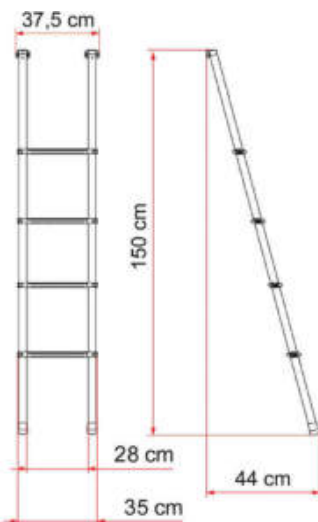
Deluxe 4B ladder
High quality aluminium ladder with 4 steps for mansard roofs and sleeping berths.
Weight 2.4kg.
106223
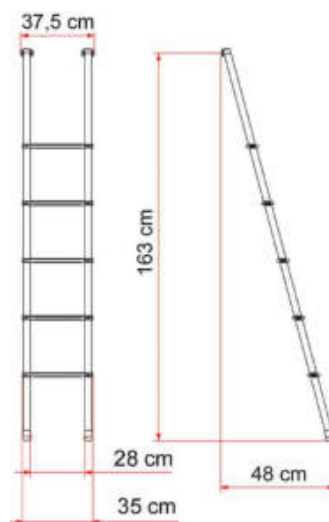
Deluxe 5B ladder
High quality aluminium ladder with 5 steps for mansard roofs and sleeping berths.
Weight 2.6kg.
106224

Safe ladder

FIAMMA
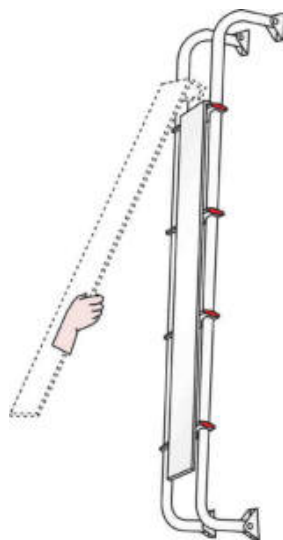
Double Step

Single Step

Sturdy anti-theft safety plate for your motorcarvan ladder. Suitable for single and double steps. Delivered as standard with locks and key. Dimensions 23 x 78cm. Weight 1.3kg
106229

Note: Ladder not included

Grove PRODUCTS

Thermoval screen protectors

All-season thermal windscreen covers
- Made with PVC film bonded to a thin foam
- Opening panels to allow in the light (Luxe models)
- Won't wrinkle or tear
- Easy to roll up and store
- Easy to fit and remove
- Ultra-quick wipe clean and dry
- Reduces condensation
- 2 year Guarantee

Grove No.	Model	To Fit
106900	Standard	Peugeot / Fiat / Citreon June 1993 onwards
106901	Standard	Peugeot / Fiat / Citreon June 2006 onwards
106902	Standard	Ford Transit June 2006 onwards
106903	Standard	Ford Transit June 2014 onwards
106904	Standard	Mercedes June 2006 onwards
106905	Standard	Renault Master June 2010 onwards
106906	Standard	VW T5 June 2002 onwards
106907	Luxe	Peugeot / Fiat / Citreon June 1993 onwards
106908	Luxe	Peugeot / Fiat / Citreon June 2006 onwards
106909	Luxe	VW T5 June 2002 onwards

Thermoval screens are fixed using sucker pads with tongue for easy removal. The suckers can be screwed on to leave the sucker permanently in place. They fix around wing mirrors using buckles. The range will fit a wide variety of makes and models.

HTD Caravan Covers

Full caravan covers
Superior heavy duty breathable 4 ply material allows condensation to evaporate
   Outer layer - durable non-woven to give UV and water resistance, but with breathability
   2nd layer - Treated non-woven to give UV protection and strength
   3rd layer - PE film, enables the cover to breathe but helps with water resistance
   Inner layer - Extra soft non-woven material to protect the vehicle's paintwork
- Easy to fit (fitting instructions included)
- Ideal for winter storage
- UV stable
- Nylon straps for a secure fit
- Elasticated hem for a tailored fit
- Storage bag included
- 2 YKK zips either side for easy access
- 12 months warranty

233cm wide

Standard		
Part No.	Length	Imperial Size
106754	Up to 450cm	Up to 14'9"
106755	450 to 500cm	14'9" to 16'4"
106756	500 to 550cm	16'4" to 18'0"
106757	550 to 600cm	18'0" to 19'8"
106758	600 to 650cm	19'8" to 21'3"
106759	650 to 700cm	21'3" to 22'11"
106760	700 to 750cm	22'11" to 24'7"

253cm wide

Extra wide		
Part No.	Length	Imperial Size
106761	Up to 650cm	19'8" to 21'3"
106762	650 to 700cm	21'3" to 22'11"
106763	700 to 750cm	22'11" to 24'7"
106764	750 to 800cm	24'7" to 26'2"

213cm wide

Extra narrow		
Part No.	Length	Imperial Size
106750	Up to 450cm	Up to 14'9"
106751	450 to 500cm	14'9" to 16'4"
106752	500 to 550cm	16'4" to 18'0"
106753	550 to 600cm	18'0" to 19'8"

Storage bag included

YKK zips on all openings

Buckled straps for a secure fit

Grove PRODUCTS

HTD Motorhome Covers

Motorhome covers

Superior heavy duty breathable 4 ply material allows condensation to evaporate
  Outer layer - durable non-woven to give UV and water resistance, but with breathability
  2nd layer - Treated non-woven to give UV protection and strength
  3rd layer - PE film, enables the cover to breathe but helps with water resistance
  Inner layer - Extra soft non-woven material to protect the vehicle's paintwork
- Easy to fit (fitting instructions included)
- Ideal for winter storage
- UV stable
- Nylon straps for a secure fit
- Elasticated hem for a tailored fit
- Storage bag included
- 2 YKK zips either side for easy access
- 12 months warranty

Motor home covers		
Part No.	**Length**	**Imperial Size**
106765	Up to 550cm	Up to 18'0"
106766	550 to 600cm	18'0" to 19'8"
106767	600 to 650cm	19'8" to 21'3"
106768	650 to 700cm	21'3" to 22'11"
106769	700 to 750cm	22'11" to 24'7"
106770	750 to 800cm	24'7" to 26'2"

240cm wide

Motorhome Cover
NL: Camperhoes   DE: Schutzhülle für Reisemobile

Storage bag included

YKK zips on all openings

Buckled straps for a secure fit

grove PRODUCTS

HTD Mirror Protectors

Protect-it

Protect your wing mirrors as well as your wallet. Protect, upgrade, customize!

- Helps to prevent damage to wing mirrors. Improves the appearance of the vehicle, covers existing damage with a professional gloss lacquer finish.
- Easy to fit, simply stick on to the mirror housing without the need for any additional tools. Extra strong double-sided permanent adhesive tape for protection against theft
- Impact resistant up to 90kmph against stationary and moving objects
- Set of 2

For Fiat Ducato, Peugeot Boxer and Citroen Relay (Jumper) models manufactured after 2006

Coachbuilt (motorhome) version for long arm mirrors
White **120171W**
Black **120171B**
Chrome **120171C**

Utility (campervan) version for short arm mirrors
White **120170W**
Black **120170B**
Chrome **120170C**

Accessories

Motorhome dirt skirt

Keeps the rear of the motor home including windows and cycles clean, protecting against dirt, splashes and slush. Kit contains 2 lengths of dirt skirt 122cm wide x 57cm deep
106400

W4 Hi-vis cargo straps

A pair of highly visible, quick to use velcro straps. Simply thread the strap through the nylon buckle, adjust to size and fasten it back on itself. Length 400mm
109514

W4 Cargo straps

A pair of retaining straps (3m approx) with durable nylon grip-lock buckles - won't mark or scratch
109513

grove PRODUCTS

Fiamma covers

Cover Premium M
For motor homes up to 7.1m long
Dimensions 7.16 x 2.59 x 2.74m
Weight 10kg
106870A

Cover Premium L
For motor homes up to 8m long
Dimensions: 8.08 x 2.59 x 2.74m
Weight 11kg
106872A

Fiamma Thermoglas XXL Ducato
For Fiat Ducato after 06/2006
Weight 11kg
106466

Fiamma Wall Cabin
For fiat Ducato after 06/2006
Dimensions: 182 x 150cm
Weight 1.8kg
106470

Rear Door Cover
Fiat Ducato 106893
(Citroën Jumper, Peugeot Boxer and Mercedes Sprinter high roof after 06/06) Comes with: Double rail, awning with sides and front panel, rafter for increased stability and an elastic tension kit
VW T5 106895
Comes with: Set of floor poles, complete enclosure, set of pegs and an elastic tension kit.
Canopy poles 106897
Set of aluminium poles to extend the door

Fiamma Cover Top
Sturdy and hard wearing cover made with UV resistant and heavy duty vinyl to protect the motor home from dirt and sun. Easy to tighten using ropes or elastic cords (not included). Reinforced corners and tie down grommets.
Dimensions: 8.5 x 5.2m.
Weight 6kg
106875

Fiamma Coverglas XL Ducato
For Fiat Ducato after 06/2006
Weight 3.5kg
106465

Fiamma Draught skirt
1 Motorhome: L 550cm H 60cm		**109505**
2 Caravan: L 450cm H 60cm		**109504**
3 VW T5/T6: L 250cm H 42cm		**109506**
4 Fiat Ducato: L 397cm H 55cm		**109507**
5 VW T5/T6 Rear		**109506A**
6 Fiat Ducato Rear		**109507A**

Grove PRODUCTS

Fiamma spare parts

Carry-Bike			
106379 **98656-290** Hand wheel	**106376** **98656-582** Bike block reduction	**106378** **98656-246** Anti scratch	**106385** **98656-071** Tap washer red
106391 **98656-671** Nut cover M6	**106391A** **98656-562** Nut & knob kit M5	**106365K** **98656-765** Red knob M6	**106382** **98656-378** Rack holder grey
106386B **98656-328** Rail quick blue 128cm	**106377** **98656-079** Rail end cap red	**106387F** **98656-489** Rail quick C red cap	**106387E** **98656-271** Rail premium cap
106388A **98656-419** Original securing strap	**106388** **98656-320** Strip kit red	**106389** **98656-318** Strip kit black	**106390** **98656-386** Quick safe
106394F **98656-220** Lower fix kit M6 x 65mm	**106381** **98656-665** Lower bracket cover (2)	**106380** **98656-276** Internal bracket cover (2)	**106393** **98656-682** Support bar kit (2)
106394 **98656-588** Top fix kit M6 x 50mm	**106394C** **98656-409** Top fix kit M6 x 55mm	**106381A** **98656-664** Upper bracket cover (2)	**106392** **98656-275** Aluminium brackets (2)
106394A **98656-474** Fixing bar	**106360** **07752-01** Dust guard for fixing bar	**106394AB** **98656-487** Left end cover - fixing bar	**106394AA** **98656-488** Right end cover - fixing bar
106394AC **98656-486** Fix bracket for bar DJ	**106394E** **98656-558** Fix support garage 2 brackets & bar	**106348A** **98656-640** Fixing kit Dethleffs < 2010	**106348B** **98656-725** Fixing kit Dethleffs < 2010
106381B **98656-076** Lower bracket VWT4	**106383** **98656-292** Adjustable foot VWT4	**106384** **98656-580** Articulated foot VWT5/D	**106397** **98656-338** Cable lock 2.5m & 2 keys
106353A **98656-263** Folding upper tube	**106394D** **98656-268** Pro upper kit	**102372** **98656-485** Square plate kit (4)	**106394H** **98656-760** Lift 77 crank handle

Grove
PRODUCTS

Fiamma spare parts

Wall mounted awnings			
108231B **04380-01** End cover LH F45iL/F1L white	**108231H** **04381-01A** End cover RH F45iL/F1L white	**108231C** **98655-014** End cover LH F45i white	**108231G** **04274-01C** End cover RH F45i white
108231D **98655-147** End cover LH F45Ti/ZIP white	**108231ED** **98655-145** End cover RH F45Ti/ZIP white	**108232HE** **98655-211** End cover LH F45Ti/ZIP titanium	**98655-209** End cover RH F45Ti/ZIP titanium
108231E **98655-539** End cover LH F45s before 2019 white	**98655-540** End cover RH F45s before 2019 white	**108231EA** **98655-588** End cover LH F45s titanium	**108231EC** **98655-589** End cover RH F45s titanium
98673-080 End cover LH F45s from 2019 white	**108231EB** **98673-401** End cover RH F45s from 2019 white	**108279F** **98655-586** End cover LH F45L / ZIP White	**108296A** **98655-587** End cover RH F45L / ZIP White
108231A **02740-01-** End cover LH F45+ white	**108231F** **02741-01-** End cover RH F45+ white	**108231AB** **98655-178** End cover cap LH F45+L white **108231AC** **98655-956** End cover LH F45+L white	**108231FA** **02520-01-** End cover RH F45+L white
98655-234 Inner end cap LH F45TiL/ZIP	**108232FA** **98655-235** Inner end cap RH F45TiL/ZIP	**108232GB** **98655-958** Inner end cap LH F45+ **108232GC** **98655-965** Inner end cap LH F45i	**108232GA** **98655-959** Inner end cap RH F45+ / F45Ti / F45i

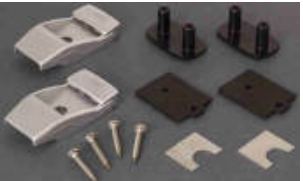|				
108231IA **98655-153** Winch & slot F45i/F45Ti/F45s/ ZIP white	**108231J** **98655-134** Winch slot F45i/F45Ti/F45s/ ZIP/F65s white	**106316AF** **98655-137** Winch slot F45i/F45Ti/F45s/ ZIP/F65s black	**108231I** **98655-106** Winch & slot F45iL/F45TiL/F45L	**108232HD** **98673-036** Lead bar 4m F45s white

Fiamma spare parts

Wall mounted awnings			
108232H **98655-556** Lead bar end cap LH F45s white	**108232HA** **98655-557** Lead bar end cap RH F45s white	**98655-581** Lead bar end cap LH F45L white	**108279I** **98655-582** Lead bar end cap RH F45L white
108231BB **05139-01-** Lead bar end cap LH F45i white	**108232G** **05139A01-** Lead bar end cap RH F45i white	**108231BA** **04384-01A** Lead bar end cap LH F45iL grey	**04384A01A** Lead bar end cap RH F45iL grey
108232HB **98655-157** Lead bar end cap LH F45i white	**98655-159** Lead bar end cap RH F45i white	**108232FD** **98655-257** Lead bar end cap LH F45Ti / ZIP white	**108232FB** **98655-259** Lead bar end cap RH F45Ti / ZIP white
108269 **98655-054** Knuckle complete LH F45i / F45Ti / ZIP	**108268** **98655-056** Knuckle complete RH F45i / F45Ti / ZIP	**108232A** **98655-549** Knuckle fixing kit LH F45s / F70 / ZIP	**108232B** **98655-550** Knuckle fixing kit RH F45s / F70 / ZIP
108270B **98655-052** Knuckle complete LH F45iL / F65	**108270A** **98655-053** Knuckle complete RH F45iL / F65	**98655-551** Knuckle LH F45s / F70 / ZIP	**108232P** **98655-552** Knuckle RH F45s / F70 / ZIP
108174 **98655-452** Screw leg clamp	**108178** **98655-171** Lower leg clamp kit F45s / Caravanstore	**108232E** **98655-261** Knuckle fixing kit LH F45Ti / F45L / ZIP	**108232F** **98655-263** Knuckle fixing kit RH F45Ti / F45L / ZIP
108265B **98655-094** Wall brackets for telescopic handle (2)	**108232HC** **98655-036** Leg stop plate lead bar F45i/Ti/iL/ZIP	**98655-265** Knuckle LH F45Ti / F45L / ZIP	**98655-267** Knuckle RH F45Ti / F45L / ZIP

Fiamma spare parts

Wall mounted awnings			
108232J 98655-050 Plastic legs pins (2)	108265A 98655-176 Wall bracket kit plastic (2)	108265 98655-728 Wall bracket kit alu (2)	108279G 98655-583 Roller tube support
108231O 98655-757 Leg top (LH or RH) F45i / F45Ti / F65 / ZIP	108232N 98655-763 Leg top kit (LH & RH) F45L / F45TiL / ZIP 108178A 98655-217 Leg top (LH or RH) F45s 1.5-2.3m	108232L 98655-575 Leg top LH F45s / F70 / F65s / F65L / ZIP	108232K 98655-576 Leg top RH F45s / F70 / F65s / F65L / ZIP
108231N 05577A01 Arm LH F45i 3-4m / F45Ti 3-4.5m / ZIP 3-3.5m	108231NA 05577A01A Arm RH F45i 3-4m / F45Ti 3-4.5m / ZIP 3-3.5m	108232O 06271A01 Arm LH F45s 3-4.5m / F70 4-4.5m / ZIP 3-3.5m	108232OA 06271A01A Arm RH F45s 3-4.5m / F70 4-4.5m / ZIP 3-3.5m
108232M 05106-03- Leg LH F45i 3.5-4m / F45Ti 3.5-4.5m / ZIP 3.5m	108232MA 05106-03A Leg RH F45i 3.5-4m / F45Ti 3.5-4.5m / ZIP 3.5m	108232I 06270-08 Leg LH F45s 3.5-4.5m / F70 / ZIP 3.5m	108232MA 06270-08A Leg RH F45s 3.5-4.5m / F70 / ZIP 3.5m
108232PA 05106-02 Leg LH F45i 3m / F45Ti 3m / ZIP 3m	05106-02A Leg RH F45i 3m / F45Ti 3m / ZIP 3m	06270-07 Leg LH F45s 3m / ZIP 3m	108232MB 06270-07A Leg RH F45s 3m / ZIP 3m
108232FC 05695-03 Leg LH F45TiL / F45L /ZIP	05695-03A Leg RH F45TiL / F45L /ZIP	108231Q 98655-123 Case bracket insert LH F45i / F45Ti / F45iL / ZIP	08231QA 98655-124 Case bracket insert RH F45i / F45Ti / F45iL / ZIP

Fiamma spare parts

Roof mounted awnings			
108316AE 98655-307 End cover LH F65s white	106316AE 98655-309 End cover RH F65s white	106316AK 98655-425 End cover LH F65 / F65L white	106316AJ 98655-426 End cover RH F65 / F65L white
98655-319 Lead bar end cap LH F65s white	108316A 98655-321 Lead bar end cap RH F65s white	108316AH 98655-337 Lead bar end cap LH F65s titanium	108316AF 98655-339 Lead bar end cap RH F65s titanium
108316AB 98655-408 Lead bar end cap LH F65s black	108316AC 98655-409 Lead bar end cap RH F65s black	98655-486 Knuckle LH F65s / F65L	108270C 98655-487 Knuckle RH F65s / F65L
108270B 98655-052 Knuckle complete LH F45iL / F65	108270A 98655-053 Knuckle complete RH F45iL / F65	108316AG 98655-478 Knuckle fixing kit LH F65s / F65L	108316AD 98655-479 Knuckle fixing kit RH F65s / F65L
106316AI 98655-333 Winch & slot F65 / F65L white	108231J 98655-134 Winch slot F45i/F45Ti/F45s/ZIP/F65s white	106316AF 98655-137 Winch slot F45i/F45Ti/F45s/ZIP/F65s black	108231O 98655-757 Leg top (LH or RH) F45i / F45Ti / F65 / ZIP

Privacy room			
108232C 98655-897 Fast clip fix kit F45s / F45Ti	108232CA 98655-900 Fast clip fix kit F45i /F45Ti 250-300	108232D 98655-898 Fast clip fix kit F45L / F45TiL	108263GA 98655-899 Fast clip fik kit F65 / F65s
108225 98655-349 Privacy peg kit (10)	108225A 98655-901 Privacy fast clip fix kit	108225B 98655-334 Side/sunview c-clips (10)	108262A 98655-031 ZIP side rafter 2m extension
			108262B 05161-05- ZIP side rafter 2.5m extension

Grove PRODUCTS

Fiamma spare parts

Roll out awnings			
108144 **05263-01** **Caravanstore** **knuckle LH 05**	**108146** **05263-01A** **Caravanstore** **knuckle RH 05**	**108219A** **05535-01** **Caravanstore / F35** **knuckle LH 07**	**108219B** **05535-01A** **Caravanstore / F35** **knuckle RH 07**
108219D **98671-01** **Caravanstore / XL** **knuckle LH 13**	**98671A01** **Caravanstore / XL** **knuckle RH 13**	**108172** **05220D01** **Caravanstore leg assembly** **LH 05**	**108168** **05220D01A** **Caravanstore leg assembly** **RH 05**
108179 **03567C05** **Caravanstore side rafter** **2.8m 07 / 13**	**108218A** **04151C05** **Caravanstore side rafter** **end piece only 2.8-4.4m** **07 / 13**	**108147** **03569A05** **Caravanstore / ZIP** **support leg LH 07 / 13**	**108148** **03569A05A** **Caravanstore / ZIP** **support leg LH 07 / 13**
108181 **03567D05** **Caravanstore / ZIP** **side rafter 3.1-4.4m** **07 / 13 < SN 9601000**	**108181A** **03567D06** **Caravanstore / ZIP** **side rafter 3.1-4.4m** **13 > SN 9601000**	**108178A** **98655-217** **Leg top (LH or RH)** **Caravanstore / ZIP / F35**	**108219C** **98655-690** **Caravanstore F35** **rafter middle spring button**
108184 **97733-035** **Caravanstore rafter** **rubber end cap** **16mm**	**108227** **03458-01** **Caravanstore** **rubber foot**	**108176** **98655-171** **Caravanstore leg** **clamp 05 /07 / 13 /** **F45s 1.8-2.3m** **108221C** **98655-097** **Rafter wall** **installation kit**	**108178B** **98655-952** **Caravanstore / F35** **Tie down cable terminal (2)**
108221A **98655-707** **Rafter wall support** **kit**	**108221B** **98655-027** **Wall protection pads** **(10)**	**108313Q** **98655-492** **F35 rafter fix kit** **case bracket** **108313X** **98655Z006** **F35 safety strip**	**108222** **98655-186** **Caravanstore end stops (2)**

S

Grove PRODUCTS

Fiamma spare parts

Security

001205C
98656-689
Safe door lock cover

001215
98656-701
Lower cover security

001216
98656-700
Upper cover security

001218
98656-433
Safety lock kit security

001219
98656-345
Spare barrel & keys
security

001220
98656-457
Spare barrel & keys
safe door

102260
98654-037
Spare barrel & keys
ultra-box

Water

053025A
98657-015
Aqua 8 upgrade kit

053028
01203B02
Pressure switch kit

053030A
98657-008
Pump membrane

050057
98669-018
Discharge cap

056955A
05313-01
Small cap & seal
Bi-pot 30

056957
98659-010
Cap & seal Bi-pot upper tank

056958
98659-016
Cap & seal Bi-pot lower tank

050056
98659-021
Roll tank cap

056955
98659-013
Seal roll tank/Bi-pot cap

Rooflights

102031C
98683-101
Spare dome crystal
Vent

102031W
98683-100
Spare dome white
Vent

102033C
98683-108
Spare dome crystal
Vent 28

102033W
98683-106
Spare dome white
Vent 28

102038
98683-121
Spare dome white
Vent / Turbo vent pro

101095B
98683-020
Motor kit

101095C
98683-129
Vent opening mechanism

101095D
98683-026
Transparent fan

101095A
98683-116
Ivory knobs & extension kit

102036
98683-112
White knobs & extension kit

102034
98683-066
Handle extension 70mm

101096A
98683-046
Vent opening handle wheel

Grove PRODUCTS

Trigano Awnings

Montreux

All season awning. Roof lining as standard.
- Roof material — Double sided PVC coating, 480 g/m^2
- Wall material — Double sided heavy duty PVC coating, 450 g/m^2 and 335 g/m^2
- Frame — Steel frame with welded and strengthened corners 25mm ø

250cm Depth

Size E (805-840cm)	**SM993217**
Size F (840-875cm)	**SM993218**
Size G (875-910cm)	**SM993219**
Size H (910-945cm)	**SM993220**
Size I (945-980cm)	**SM993822**
Size J (980-1015cm)	**SM993823**
Size K (1015-1050cm)	**SM993824**
Size L (1050-1090cm)	**SM993825**
Size M (1090-1130cm)	**SM993826**

300cm Depth

Size E (805-840cm)	**SM993221**
Size F (840-875cm)	**SM993222**
Size G (875-910cm)	**SM993223**
Size H (910-945cm)	**SM993224**
Size I (945-980cm)	**SM993827**
Size J (980-1015cm)	**SM993828**
Size K (1015-1050cm)	**SM993829**
Size L (1050-1090cm)	**SM993830**
Size M (1090-1130cm)	**SM993831**

Touquet

Full PVC awning.
- Roof material — PVC coated, 420 g/m^2
- Wall material — PVC coated 335 g/m^2
- Frame — Steel frame 25mm ø, fibreglass optional

250cm Depth

Size B (700-735cm)	**SM9811182**
Size C (735-770cm)	**SM9811183**
Size D (770-805cm)	**SM9812161**
Size E (805-840cm)	**SM9812162**
Size F (840-875cm)	**SM9812163**
Size G (875-910cm)	**SM9813200**
Size H (910-945cm)	**SM9813201**
Size I (945-980cm)	**SM9816284**
Size J (980-1015cm)	**SM9816285**
Size K (1015-1050cm)	**SM9816286**
Size L (1050-1090cm)	**SM9816287**
Size M (1090-1130cm)	**SM9816288**

Sicile

Half PVC and half polyester
- Roof material — Single sided coated woven polyester , 240 g/m^2
- Wall material — Woven polyester 180 g/m^2, with PVC coating 335 g/m^2
- Frame — Steel frame 25mm ø, fibreglass optional

270cm Depth

Size B (700-735cm)	**SM9811184**
Size C (735-770cm)	**SM9811185**
Size D (770-805cm)	**SM9812164**
Size E (805-840cm)	**SM9812165**
Size F (840-875cm)	**SM9812166**
Size G (875-910cm)	**SM9813202**
Size H (910-945cm)	**SM9813203**
Size I (945-980cm)	**SM9818141**
Size J (980-1015cm)	**SM9818142**
Size K (1015-1050cm)	**SM9818143**
Size L (1050-1090cm)	**SM9818144**
Size M (1090-1130cm)	**SM9818145**

Etretat

Half PVC and half polyester
- Roof material — Single sided coated woven polyester, 240 g/m^2
- Wall material — Woven polyester 180 g/m^2, and 335 g/m^2 coated polyester
- Frame — Steel frame 25mm ø, fibreglass optional

240cm Depth

Size A (665-700cm)	**SM9811178**
Size B (700-735cm)	**SM9811179**
Size C (735-770cm)	**SM9811180**
Size D (770-805cm)	**SM9812158**
Size E (805-840cm)	**SM9812159**
Size F (840-875cm)	**SM9812160**
Size G (875-910cm)	**SM9813198**
Size H (910-945cm)	**SM9813199**
Size I (945-980cm)	**SM9816279**
Size J (980-1015cm)	**SM9816280**
Size K (1015-1050cm)	**SM9816281**
Size L (1050-1090cm)	**SM9816282**
Size M (1090-1130cm)	**SM9816283**

Grove PRODUCTS

Trigano Awnings

Adriatic
Woven polyester with coated patterned roof
- Roof material   Single sided coated woven polyester, 180 g/m^2
- Wall material   Woven polyester 180 g/m^2
- Frame   Steel frame 25mm ø, fibreglass optional

250cm Depth

Size H (910-945cm)	**SM9813197**
Size I (945-980cm)	**SM9816274**
Size J (980-1015cm)	**SM9816275**
Size K (1015-1050cm)	**SM9816276**
Size L (1050-1090cm)	**SM9816277**
Size M (1090-1130cm)	**SM9816278**

Miami
Woven polyester roof and PVC walls
- Roof material   Single sided coated woven polyester , 240 g/m^2
- Wall material   PVC coated 335 g/m^2
- Frame   Steel frame 22mm ø

240cm Depth

Size A (665-700cm)	**SM983139**
Size B (700-735cm)	**SM983140**
Size C (735-770cm)	**SM983141**
Size D (770-805cm)	**SM983731**
Size E (805-840cm)	**SM983732**
Size F (840-875cm)	**SM983733**
Size G (875-910cm)	**SM983658**
Size H (910-945cm)	**SM983659**
Size I (945-980cm)	**SM983660**
Size J (980-1015cm)	**SM983661**

Solette VIP
Ten Cate® polyester, 240 g/m^2, with leather reinforcement 450 g/m^2. 350cm Depth. Size is the length of the roof. Optional side and front panels available.

Size	**Nacre White** White	**VIP** Light grey	**Premium** Dark grey
490cm	**M/7615/100**	7615/90	7615/95
540cm	**M/7615/101**	7615/62	7615/54
585cm	**M/7615/102**	7615/63	7615/55
630cm	**M/7615/103**	7615/64	7615/56
660cm	**M/7615/104**	7615/65	7615/57
680cm	**M/7615/105**	7615/66	7615/58
725cm	**M/7615/106**	7615/67	7615/59
765cm	**M/7615/107**	7615/68	7615/60

Light	**Side**	**Door**	**Window**
490cm	**7615/69**	7615/91	7615/92
540cm	**7615/69**	7615/7	7615/18
585cm	**7615/69**	7615/8	7615/19
630cm	**7615/69**	7615/22	7615/23
660cm	**7615/69**	7615/9	7615/20
680cm	**7615/69**	7615/9	7615/20
725cm	**7615/69**	7615/82	7615/84
765cm	**7615/69**	7615/83	7615/85

Dark	**Side**	**Door**	**Window**
490cm	**7615/61**	7615/97	7615/96
540cm	**7615/61**	7615/39	7615/33
585cm	**7615/61**	7615/40	7615/34
630cm	**7615/61**	7615/41	7615/35
660cm	**7615/61**	7615/42	7615/36
680cm	**7615/61**	7615/42	7615/36
725cm	**7615/61**	7615/80	7615/74
765cm	**7615/61**	7615/81	7615/75

Solette
Woven polyester, 240 g/m^2. 240cm Depth

300/380	**SMA6800101**
380/450	**SMA6800102**
450/540	**SMA6800103**
540/610	**SMA6800104**

Solette Luxe
Woven polyester, 240 g/m^2. 240cm Depth. 1 side panel included with window, 1 additional is optional.

Size A (665-700cm)	**SMA686371**
Size B (700-735cm)	**SMA686372**
Size C (735-770cm)	**SMA686373**
Size D (770-805cm)	**SMA686374**
Size E (805-840cm)	**SMA686375**
Size F (840-875cm)	**SMA686376**
Size G (875-910cm)	**SMA686377**
Size H (910-945cm)	**SMA686378**
Size I (945-980cm)	**SMA686379**
Size J (980-1015cm)	**SMA686380**
Optional side window	**SM686381**

Trigano Awnings

Ocean
100% polyester
- Roof material   Coated polyester, 280 g/m²
- Wall material   Polyester 220 g/m²
- Frame   Steel frame 25mm ø

250cm Depth

Size B (700-735cm)	**SMA60312**
Size C (735-770cm)	**SMA60321**
Size D (770-805cm)	**SMA60322**
Size E (805-840cm)	**SMA60331**
Size F (840-875cm)	**SMA60332**
Size G (875-910cm)	**SMA60333**
Size H (910-945cm)	**SMA60334**
Size I (945-980cm)	**SMA60341**
Size J (980-1015cm)	**SMA60342**
Size K (1015-1050cm)	**SMA60343**
Size L (1050-1090cm)	**SMA60344**
Size M (1090-1130cm)	**SMA60345**

Austral
Breathable polyacyrlic walls and coated polyester roof
- Roof material   Coated polyester, 280 g/m²
- Wall material   Polyacrylic 280 g/m²
- Frame   Steel frame 25mm ø

300cm Depth

Size C (735-770cm)	**SMA60421**
Size D (770-805cm)	**SMA60422**
Size E (805-840cm)	**SMA60431**
Size F (840-875cm)	**SMA60432**
Size G (875-910cm)	**SMA60433**
Size H (910-945cm)	**SMA60434**
Size I (945-980cm)	**SMA60441**
Size J (980-1015cm)	**SMA60442**
Size K (1015-1050cm)	**SMA60443**
Size L (1050-1090cm)	**SMA60444**
Size M (1090-1130cm)	**SMA60445**

Awning extension
Woven polyester, 220 g/m². 160cm Depth

Size E-F (805-875cm)	**SA680086**
Size G-H (875-910cm)	**SA680087**
Size I-J-K (910-1050cm)	**SA680088**
Size L-M (1050-1130cm)	**SA680089**

grove PRODUCTS

Atlantique
100% polyester
- Roof material   Coated polyester, 280 g/m²
- Wall material   Polyester 220 g/m²
- Frame   Steel frame 25mm ø

270cm Depth

Size C (735-770cm)	**SMA60143**
Size D (770-805cm)	**SMA60144**
Size E (805-840cm)	**SMA60125**
Size F (840-875cm)	**SMA60126**
Size G (875-910cm)	**SMA60127**
Size H (910-945cm)	**SMA60128**
Size I (945-980cm)	**SMA60136**
Size J (980-1015cm)	**SMA60137**
Size K (1015-1050cm)	**SMA60138**
Size L (1050-1090cm)	**SMA60139**
Size M (1090-1130cm)	**SMA601310**

Goa
100% polyester with double mud wall
- Roof material   Coated polyester, 280 g/m²
- Wall material   Polyester 220 g/m²
- Frame   Steel frame 25mm ø

270cm Depth

Size C (735-770cm)	**SMA60145**
Size D (770-805cm)	**SMA60146**
Size E (805-840cm)	**SMA60129**
Size F (840-875cm)	**SMA601210**
Size G (875-910cm)	**SMA601211**
Size H (910-945cm)	**SMA601212**
Size I (945-980cm)	**SMA601311**
Size J (980-1015cm)	**SMA601312**
Size K (1015-1050cm)	**SMA601313**
Size L (1050-1090cm)	**SMA601314**
Size M (1090-1130cm)	**SMA601315**

Partiel
Full PVC porch awning.
- Roof material   PVC coated 420 g/m²
- Wall material   PVC coated 450 g/m²
- Frame   Steel frame 25mm ø

240cm Depth

350cm	**SM75079**
475cm	**SM750710**
600cm	**SM75085**

Trigano Awnings

Samoa 280

Samoa 350

Samoa 390

Samoa 420

Samoa
Inflatable porch awning, available in 4 sizes
● Fabric   Polyester Ripstop 300D   PU 5000mm
● Frame   Air tubes 10cm ø Thermo-polyurethane
                 2 rear telescopic steel poles
                 4 steel canopy poles

240cm Depth 235-250cm Height

280cm Width	3 main beams, 2 cross beams	Samoa 280	**SM76221**
350cm Width	4 main beams, 3 cross beams	Samoa 350	**SM76225**
390cm Width	4 main beams, 3 cross beams	Samoa 390	**SM76222**
420cm Width	4 main beams, 3 cross beams	Samoa 420	**SM76227**

Lima 410

Lima 300

Inflatable porch awning, available in 2 sizes
● Fabric   Polycotton Ripstop 300D   PU 10000mm
● Frame   Air tubes 10cm ø Thermo-polyurethane
                 2 rear telescopic steel poles

240/290cm Depth 235-250cm Height

300cm Width	3 main beams, 4 cross beams	Lima 300	**SM76245**
410cm Width	4 main beams, 6 cross beams	Lima 410	**SM76246**
Annex 225 x 180cm	**SM76247**	Annex inner	**SM76244**

Lagoon
Inflatable single arch porch awning.
● Fabric   Polyester Ripstop 210D   PU 5000mm
● Frame   1 air tube 10cm ø Thermo-polyurethane
                 2 rear telescopic steel poles

250cm Depth 325cm width
235-250cm Height   **SM76231**

Indiana
Inflatable porch awning for pop up caravans.
● Fabric   Polyester Ripstop 300D   PU 5000mm
● Frame   2 air tubes 12cm ø Thermo-polyurethane
                 5 air tubes 10cm ø Thermo-polyurethane

250cm Depth 390 Width
180-220cm Height   **SM76212**

Grove PRODUCTS

Trigano Awnings

Bali M & XL
Inflatable drive away awning.
- Fabric   Polyester Ripstop 300D   PU 5000mm
- Frame   2 air tubes 15cm ø Thermo-polyurethane
                        3 air tubes 15cm ø Thermo-polyurethane
                        2 central support poles

230cm + 80cm Depth 300cm width
220-250cm Height   **SM76206**
250-280cm Height   **SM76207**

Hawaii S & XL
Inflatable drive away awning.
- Fabric   Polyester Ripstop 300D   PU 5000mm
- Frame   2 air tubes 10cm ø Thermo-polyurethane
                        3 air tubes 10cm ø Thermo-polyurethane
                        2 central support poles

230cm + 80cm Depth 300cm width
180-220cm Height   **SM76204**
250-280cm Height   **SM76205**

Santa Cruz
Inflatable drive away awning.
- Fabric   Polyester 190T 68D   PU 3000mm
- Frame   2 connected air tubes 15cm ø
                        Thermo-polyurethane

230cm + 80cm Depth 300cm width
180-240cm Height   **SM76261**

Sapporo
Pop-up freestanding tail-gate awning
- Fabric   Polyester 190T 75D   PU 2000mm
- Frame   Automatic umbrella frame for ultra fast
                        pitching and packing up

250cm + 150cm Depth 250cm width
180-240cm Height   **SMA74111**

Bivouac car
Fibreglass frame drive away awning.
- Fabric   Ultralight polyester
- Frame   11mm ø fibreglass

330cm Depth 300cm width
200cm Height   **SMA74101**

Awning Mini Silver
For model 270.
- Roof material   Coated woven
                     Polyester 240 g/m^2
- Wall material   Polyester 240 g/m^2
- Frame   Steel frame 25mm ø
SM71971

Solette Mini Silver
For models 270 and 290.
- Material   Polyester 180 g/m^2
- Frame   Steel frame 19mm ø
SMA680098

Trigano Awnings

Storage annex
200 x 150cm
Dual slope PVC coated roof. Inner tent optional. Frame 19mm ø
Annex   **SA76121**
Inner tent   **S73982**

Kitchen annex
190 x 110cm
Dual slope PVC coated roof. Inner tent optional. Frame 19mm ø
SA72474

Bedroom annex with inner tent
190 x 130cm
Woven coated polyester roof. Cotton inner tent included with sewn in groudsheet. Frame 19mm ø
SA76111

Inflatable Annex outer for Lima
225 x 180cm
Poly Oxford 300D. TPU 10mm ø tube
SM76247

Annex inner for Lima
210 x 160cm
Polyester 68D. With sewn in groundsheet.
SM76244

Bedroom pack with inner tent
190 x 140cm
Woven coated polyester roof. Cotton inner tent with sewn in groundsheet included. Frame 19mm ø
SA75274

Trigano windbreak standard
Shelters you from the wind and provides privacy.
Fabric: polyester 190T PU 1000 mm.
Length: 3 x 145cm
Height: 130 cm
Weight: 2.6kg
Open dimensions: 435 x 130 cm
Frame: ø 16 mm steel
SMA925G01

Trigano windbreak XL
Shelters you from the wind and provides privacy.
Fabric: polyester 190T PU 1000 mm.
Length: 4 x 145cm
Height: 130 cm
Weight: 4kg
Open dimensions: 580 x 130 cm
Frame: ø 16 mm steel
SMA925L03

Grove PRODUCTS

Groundsheets

Breathable Awning Carpet

Allows grass to breathe but keeps out bugs and dirt. Washable and rot-proof. Fully eyeletted and hemmed. Comes with a re-useable zipped bag. 2.5m Width. Available singly or in various outers

250cm	**107874G**
260cm	**107875G**
280cm	**107876G**
300cm	**107876GA**
350cm	**107877G**
390cm	**107878G**
400cm	**107878GA**
450cm	**107879G**
500cm	**107880G**
550cm	**107881G**
600cm	**107882G**
650cm	**107883G**
700cm	**107884G**
750cm	**107885G**

Deluxe Awning Carpet Grey

Heavy duty. Allows grass to breathe but keeps out bugs and dirt. Washable and rot-proof. Fully eyeletted and hemmed. Comes with a re-useable zipped bag. 2.5m Width. Available singly or in various outers

260cm	**107906G**
280cm	**107907G**
350cm	**107908G**
390cm	**107909G**
450cm	**107910G**
500cm	**107911G**
550cm	**107912G**
600cm	**107913G**
650cm	**107914G**
700cm	**107915G**
750cm	**107916G**

Deluxe Awning Carpet Striped

Heavy duty. Allows grass to breathe but keeps out bugs and dirt. Washable and rot-proof. Fully eyeletted and hemmed. Comes with a re-useable zipped bag. 2.5m Width. Available singly or in various outers

260cm	**107906S**
280cm	**107907S**
350cm	**107908S**
390cm	**107909S**
450cm	**107910S**
500cm	**107911S**
550cm	**107912S**
600cm	**107913S**
650cm	**107914S**
700cm	**107915S**
750cm	**107916S**

Dark Grey Interlocking floor tiles

Interlocking floor tiles (60 X 60 X 1.2cm) with 2 edging strips for each tile. Allows grass to grow while giving a comfortable feel underfoot. Ideal for stoney or rocky ground.

4 Pack	**107937**
8 Pack *	**107937A**
6 Pack *	**107937B**

* Includes reuseable storage bag

Wood Effect Interlocking floor tiles

Interlocking floor tiles (60 X 60 X 1.2cm) with 2 edging strips for each tile. Allows grass to grow while giving a comfortable feel underfoot. Ideal for stoney or rocky ground.

4 Pack	**107938**

Grove PRODUCTS

Via Mondo Pegs packed

Titan Peg 20.3cm (20)
20 heavy duty rock pegs 6.5mm ø in a solid carry case. Steel peg with hi-viz top.
Available singly or 12 per outer
109306

Rock Peg 23cm (20)
20 heavy duty rock pegs 6mm ø in a solid carry case. Steel peg with cross-bar.
Available singly or 12 per outer
109305

Lunar Peg 20.3cm (20)
20 heavy duty rock pegs 6.5mm ø in a solid carry case. Steel peg with a glow-in-the-dark top.
Available singly or 12 per outer
109308

Comet Peg 18.3cm (20)
20 heavy duty screw pegs 7.3mm ø in a solid carry case. Steel peg with hi-viz fixed top and 13mm screw head
Available singly or 12 per outer
109312

Screw Peg Adapter
13mm socket to be used with Comet pegs (109312). Poly bagged and header carded.
20 per outer
109313

Meteor Peg 20.3cm (20)
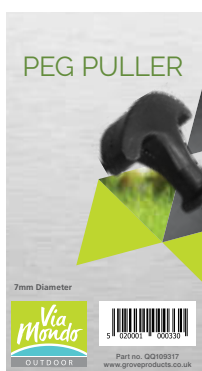20 heavy duty hard ground pegs 7.3mm ø in a solid carry case. Steel peg with hi-viz fixed top.
Available singly or 12 per outer
109310

Steel Round wire Peg 20cm (10)
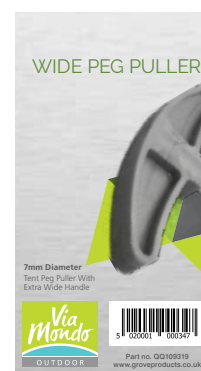10 pack of steel tent pegs 4mm ø. Poly bagged and header carded.
24 per outer
109314

Steel Peg Puller 9mm
Strong peg puller with ergonomic handle. Poly bagged and header carded.
20 per outer
109317

Wide Handle Peg Puller 7mm
Peg puller with extra wide handle. Poly bagged and header carded.
20 per outer
109319

grove PRODUCTS

Via Mondo Pegs bulk

Grey Groundsheet Peg 9cm (200)
109300

Red Plastic Peg 19cm (200)
109301

Titan Peg 20.3cm / 6.5mm (150)
109307

Steel Roundwire Peg 20cm / 4mm (200)
109315

Also available poly bagged in 10's
24 per outer **109314**

Meteor Peg 20.3cm / 7.3mm (150)
109311

Rock Peg 23cm / 6mm (200)
109316

Lunar Peg 20.3cm/6.5mm (150)
109309

Plastic Peg 22.5cm (200)
109302

Red Deluxe Plastic Peg 28cm (200)
109304

Yellow Spiral Peg 20cm (200)
109303

Heavy Duty Marquee Peg 35cm / 11.4mm (20)
Individually labelled
109318

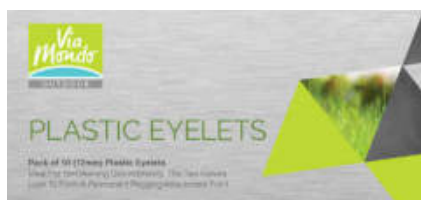**Dog Anchor 42cm / 8mm**
Individually labelled. 6 per outer
109320

Ladder Band 215mm x 26mm (50)
109325

Also available poly bagged in 10's
24 per outer **109324**

Grove PRODUCTS

Via Mondo Camping Accesssories

Plastic Eyelets 12mm (10)
Ideal for tent/awning carpets. The two halves lock to form a permanent pegging/attachment point. Poly bagged and header carded.
20 per outer
109323

Tarp Snaps (4)
Push together from either side of the material to form a strong pegging/attachment point on many types of material. Poly bagged and header carded.
10 per outer
109345

Extra Strong Tarp Snaps (4)
Locking peg forms a strong pegging/attachment point on many types of material. Poly bagged and header carded.
10 per outer
109346

Guyline White
4m / 4mm (4)
4 pack of 4m white guylines, 4mm thick, with tensioners. Poly bagged and header carded.
12 per outer
109329

Guyline Yellow
4m / 4mm (4)
4 pack of 4m yellow guylines, 4mm thick, with tensioners. Poly bagged and header carded.
12 per outer
109330

Guyline Yellow
50m / 3mm
50m roll of yellow guyline, 3mm thick, on a reel.
Available singly or 10 per outer
109328

Guyline White 20m / 4mm
20m of white guyline, 4mm thick, comes on a winder. Handle has built in slot for hanging.
Available singly or 20 per outer
109327

Guyline Green 20m / 4mm
20m of bright green guyline, 4mm thick, comes on a winder. Handle has built in slot for hanging.
Available singly or 20 per outer
109326

Grove PRODUCTS

Via Mondo Camping Accesssories

Tie Down Kit
Universal tie down kit to help prevent damage to awnings in windy conditions. 1 x 12m & 1.5m adjustable polypropylene straps, 2 x 38cm steel pegs and 1 x 15cm tension spring.
Available singly or 12 per outer
109343

Steel handle Mallet 29.5cm
16oz rubber head with steel handle. Supplied carded for easy hanging.
6 per outer
109322

Awning Canvas Bag
100 x 42cm. 600D heavy duty, blue.
109550A

Awning Pole Bag
110 x 23.5cm. 600D heavy duty, blue.
109553A

Awning Tent Peg Bag
32 x 14 x 12cm. 600D heavy duty, blue.
109561A

Awning Bag
85 x 43 x 43cm. 600D heavy duty, blue.
109550B

Awning curtains (8 curtains per pack)
Good quality 50% polyester, 50% cotton 118g/m^2. Each curtain measures 134 x 90cm approx. Fitted with clips and sewn in seam for curtain rods.
123455A

Grove PRODUCTS

Tent and awning poles

Steel verandah bars
Pole clamp on both ends.
25/22mm ø 170-260cm
Available singly or 10 per outer
109333

Aluminium verandah bar
Pole clamp on both ends.
25/22mm ø 170-250cm
Available singly or 10 per outer
109334

Rear pad poles
A set of two poles with foot on one side and flattened end on the other. Holds pads neatly to the wall. Suitable for light weight awnings.
Available singly or 10 per outer
109331

Steel roof beam
Pole clamp on one end with pole hook on the other.
22/19mm ø 170-260cm
Available singly or 10 per outer
109335

Steel roof beam
Pole clamp on one end with pole hook on the other.
25/22mm ø 170-250cm
Available singly or 10 per outer
109336

Aluminium roof beam
Pole clamp on one end with pole hook on the other.
25/22mm ø 170-260cm
Available singly or 10 per outer
109337

Steel pole spike with foot
Pole spike on one end with foot on the other.
22/19mm ø 140-200cm
Available singly or 10 per outer
109338

Steel pole spike with foot
Pole spike on one end with foot on the other.
22/19mm ø 170-260cm
Available singly or 10 per outer
109339

Alu pole spike with foot
Pole spike on one end with foot on the other.
Aluminium 25/22mm ø 170-260cm
Available singly or 10 per outer
109340

Steel storm pole with flanged foot
Pole clamp on one end with flanged foot on the other.
Steel 22/19mm ø 170-260cm
Available singly or 10 per outer
109341

Aluminium storm pole with flanged foot
Pole clamp on one end with flanged foot on the other.
Aluminium 25/22mm ø 170-260cm
Available singly or 10 per outer
109342

Canopy pole set
Complete with 2 x 180cm 19mm steel poles, 2 x guylines and 2 pegs. Suitable for any tent or awning with fitted eyelets.
Available singly or 10 per outer
109332

Grove PRODUCTS

Via Mondo / HTD Awning Accessories

Rail Protection Strip
Keeps awning rail clean and free of dirt. Available retail packed with 12m of strip in each pack, or by the roll. Can be easily cut with scissors to offer an exact size for your customer. Loose is priced by the meter but sold by the roll.

Yellow
Retail packed 12m   **105107A**
Loose (50m roll)   **105108**

White
Retail packed 12m   **105107B**

Suction cup fastener
Suction cup fastener with 2 hooks. Extra strong grip with simple lever action to release.
109494

Awning channeling
6mm 50m roll.
Priced by the meter sold by the roll
109571

Keder
6mm/4mm 50m roll.
Priced by the meter sold by the roll
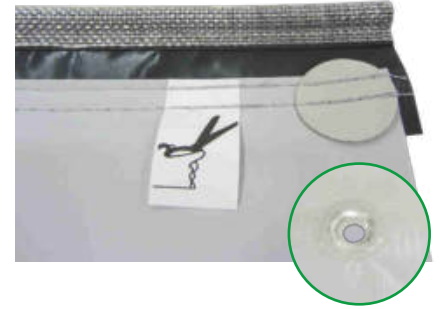**109572**

Keder
6mm/6mm 50m roll.
Priced by the meter sold by the roll
109573
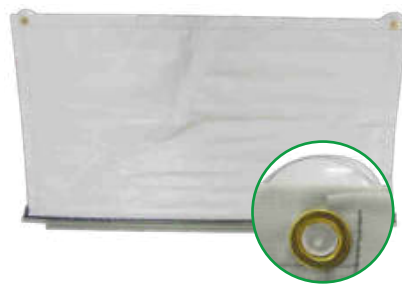
Wheel Arch Covers
Awning draught skirt with 6mm high quality beading and brass eyelets. Comes with figure of 8 to connect to the draught skirt and 2 suckers to hold it onto the vehicle.
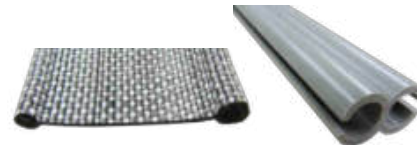Single   **109498A**
Double   **109497A**

Awning Driveaway Kit
3 x 80cm lengths Figure 8 and 240cm of 6/4mm back to back keder.
109508B

XL Awning Driveaway Kit
4 x 80cm lengths Figure 8 and 320cm of 6/4mm back to back keder.
109508A

Magnetic Connecting strips
3 x 80cm lengths Figure 8 and 240cm of 6mm keder with sleeves filled with magnetic strips. Comes with 4m of spare awning cord.
109508D

Awning Draught Skirt
Awning draught skirt with 6mm high quality beading and rubber eyelets. Handy cutting guide is stitched on every 50cm to keep measuring and off-cuts to a minimum. Priced by the meter but sold by the roll.
50cm depth (50m roll)   **109504A**
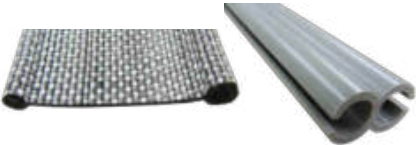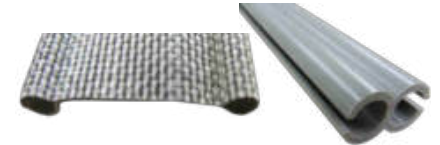75cm depth (50m roll)   **109504B**

Figure 8
3 lengths of 80cm per pack
109495A

Driveaway Kit
3 x 80cm lengths Figure 8 and 240cm of 6/6mm back to back keder.
109508C

Grove PRODUCTS

281

Fabric Maintenance

The whole Fenwick's range has been designed with the needs of the caravan, motor home and car owner in mind. Many products have been created from specific requests by satisfied customers.

Awning & Gazebo reproofer

Quickly restores waterproofing qualities to synthetic and canvas awnings, tents and gazebos. Protects against stains from dirt, grease, oil, food spills, and drinks. Deep penetrating, water based, non flammable formula. Can be applied in damp conditions. 1L covers up to 30m^2. Far safer than solvent based products, due to the biodegradeable and environmentally friendly properties.
1 litre   **108405** 10 per outer

Awning & gazebo cleaner

Quickly and effectively cleans awnings, tents and gazebos. Removes black streaks, green algae and general grime. Spray on, wash off formula.
1 litre   **108401** 10 per outer

Waterproofs and mould proofs weathered canvas of all weights: cotton, nylon, terylene fabrics and unpainted leather. It preserves them and keeps them cleaner. As no film is formed the breathing of canvas fabrics and leather is retained. The tinned Fabsil contains a UV protector.

1 litre Reproofer
With UV protector
10 per outer
108406

2.5 litre Reproofer
With UV protector
6 per outer
108407

5 litre Reproofer
With UV protector
3 per outer
108408

400ml Reproofer
12 per outer
108409

600ml Reproofer
12 per outer
108410

Beeswax proofer
Clothing reproofer 80g
24 per outer **108415**

Fabsil display stands
Single display stand
108379

Portable Stoves

CAMPINGAZ

Campingaz Camp Bistro
- Power: 2200 watt
- Size: 35cm x 28cm
- Automatic piezo ignition
- Cartridge safety locking system
- Enamelled pan support
- Aluminium burner
- Convenient plastic carry case
- Operates off CP250 cartridge
109941

Campingaz Chef
Double burner and grill. Toast rack and drip tray with handle.
- Power: 2 x 1500 watt
- Size (open/closed): 60x40x35 / 59.5x32.5x8.5cm
- Piezo ignition
- 327 g/h consumption
- Lid with latch and carry handle
109940

W4 Pegs (W4)

Goundsheet Peg (5)
3.5" with hole for peg extractor
10 per outer **108577**

Rippled Peg (5)
5.5" with hole for peg extractor
10 per outer **108594**

Red Plastic Peg (5)
8"
10 per outer **108570**

Steel Wire (5)
7"
10 per outer **108593**

Steel Wire (5)
9"
10 per outer **108571**

Steel Rippled Peg (3)
8"
10 per outer **108596**

Heavy Duty Peg
8"
10 per outer **108597**

Awning Peg (5)
8" plus layflat head, wiith hole for peg extractor.
8 per outer   **109482**
Bulk (50)   **109483**

W4 Peg extractor
For easier removal of tent pegs.
10 per outer **109425**

W4 Reflect-a-line
Reflective strips to fit on guy lines for safety at night.
10 per outer **109423**

Red Plastic Peg 12"
200 per outer **109413**

Grove PRODUCTS

Awning accessories

Via Mondo awning bracket pads (3)
Packet of three awning bracket pads designed to fit most makes of awnings. Simply attach to the inside beading, slide to the desired position and lock the clamp to prevent it from moving. The awning frame can then be hooked into the pad.
50 x 56mm
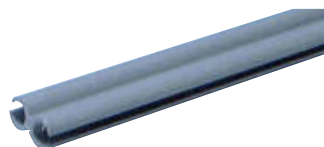Available singly or 10 per outer **109587**

Via Mondo 6mm awning rail end stops (2)
Packet of 2 awning rail stops. 30mm
Available singly or 10 per outer **109588**

Fiamma Caravanstore end stops (2)
Packet of 2 awning rail stops which prevent the awning from moving in transit
108222

W4 figure 8 channel
Plastic double channel strip to join the wheel cover to the awning skirt. Available singly or 10 per outer
Length 750mm **109495**
Length 1200mm **109496**

Awning pads (3)
Simply glue to inner roof beading to hold awning poles and remove the need to screw awning brackets to the caravan.
Available singly or 10 per outer
109040

W4 ease-it
A simple tool to make the erection of awnings easier. Attach the reinforced eyelet to your awning then pull through channel with the hooked pole.
Available singly or 10 per outer
109490

W4 awning pole suckers
Replacement rubber suckers.
For pole size ¾" (19mm)
2 per pack, 10 per outer **109489**
Bulk (20) **109488**

For pole sizes ⅞" (22mm) & 1" (25mm)
2 per pack 10 per outer **109487**
Bulk (20) **109487B**

W4 awning rail lubricant
Makes awnings much easier to thread. Clean the awning channel before application. Can also be applied to ease the fitting and removal of toilet seals.
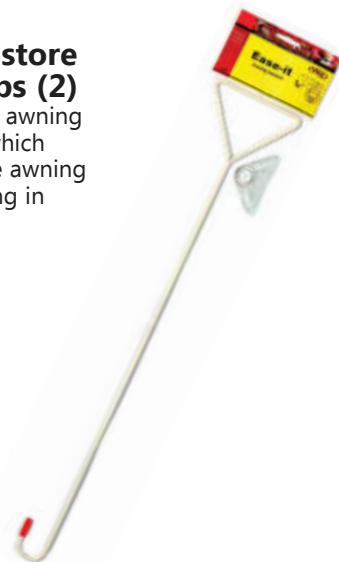10 per outer **105100**

W4 Awning rail brush
Useful brush for cleaning or lubricating awning rail.
Available singly or 5 per outer **105085**

W4 Awning rail spreader
Simply insert into the awning rail and tap through any troublesome areas. The compact head is especially effective on awkward corners.
10 per outer **105104**

Awning rail care kit
Contains one of each of the above supplied in a handy vinyl pouch
105105

W4 awning anti friction pads (2)
A pair of cushioned nylon pads that slide on to the strapping of most awning tie down kits to help prevent vibration and chafing. A simple answer to a constant problem
109511

W4 quick release awning tie down kit
Durable nylon buckle, easy to fit, quick to release. Dual tensioners with 2 heavy duty elasticated cord and snap hooks for easy adjustment. Supplied with two anchors & 10 metres of high tensile strapping
Available singly or 10 per outer
109510

284

grove PRODUCTS

Tent and awning spares - All packed 10 per outer

Brass eyelets
$\frac{3}{8}$" (9.5mm) (20)
108559
$\frac{1}{2}$" (13mm) (10)
108552

Eyelet closing tool
$\frac{3}{8}$" (9.5mm) (20)
108560
$\frac{1}{2}$" (13mm) (10)
108553

Awning skirt studs (5)
108561

Awning skirt studs, poppers (5)
108562

Awning popper closing tool
108578

Self adhesive awning stud (2)
Available singly or 5 per outer
109128

Guy line
6 metres
108569

Elasticated cord
5 metres
108590

Guy runners (5)
Plastic
108595

Guy runners (5)
Metal bent
108554

Guy runners (5)
Metal slotted
108555

Airbed plugs (3)
109480

Pole spike
$\frac{3}{4}$" (19mm)
108568

Pole ends (2)
$\frac{3}{4}$" (19mm) **108583**
$\frac{7}{8}$" (22mm) **108584**
1" (25mm) **108585**

Gutter clamp (2)
21-23mm **108645**
25-28mm **108646**

Pole C clips (2)
$\frac{3}{4}$" (19mm) **108566**
$\frac{7}{8}$" (22mm) **108567**

Pole clamps (2)
$\frac{3}{4}$" (19mm) **108556**
$\frac{7}{8}$" (22mm) **108557**
1" (25mm) **108586**
$1\frac{1}{4}$" (29mm) **108580**

Pole flanged foot
19mm **108588**
22mm **108647**
25mm **108648**

Inner tent clips (3)
$\frac{3}{4}$" (19mm) **108551**
1" (25mm) **108641**

Rain cowls (2)
108589

Pole ring with 2 pins (2)
108548

Pole spring joiners (3)
108558

Spring buttons (3)
108550

Pole marking kit
108576

Toggled tent band (5)
108579

Tent band large (3)
90mm **108574**

Tent band extra large (3)
150mm **108587**

Inner tent bands (5)
108575

Ladder bands (5)
210 x 25mm
108573

Ball loops 75mm (3)
108549

Bunk bracket with screws
$1\frac{1}{4}$" (32mm) **108591**
Bulk **108591B**

Canopy hooks (3)
108581

Rope hooks (3)
108582

Pole hanging hooks (3)
108565

Wall mounted 'Pack-it' stand
With optional feet for free standing conversion.
Tent & awning 48 hook range
108650
Includes 10 of each of the 48 best selling "pack-it" items.
Please speak to your sales contact for more details.

Awning rail screws (10)
108563

Awning brackets (2)
108572

Small padlock
108564

Awning Accessories

Inner tent tall annexe
Fits all tall annexes and includes a heavy duty reinforced base.
198x130x160cm **109980**

W4 mosquito netting
Pre-cut lengths of netting for use on windows or rooflights. Complete with fixing kit
1m square   **101070**
1m x 1.5m   **101080**
1m x 2m   **101075**
Mosquito fixing kit **101085**

Awning companion
New improved design. Tensions awning poles in seconds with one hand and without the hassle. You will wonder how you ever managed without it! Available singly or 6 per outer
109585

Hercules
Hook the Hercules to the pole at a distance of approximately 15cm from the screw. Let the steel loop rest on the nut. Now see how easy it is to tension your awning correctly
109580

W4 Dog Tie-out
10 per outer
3m   **109320A**
6m   **109320B**

Pole adjusting clamps (2)
10 packs per outer
23mm   **109102**

Inner tent clips (6)
For suspending inner tent in awning.
10 packs per outer   **109082**

Multi hook hanger
Useful five hook plastic hanger for tent or awning poles.
Available singly or 10 per outer
109010

Awning brackets (3)
Supplied with screws.
10 packs per outer
109038

Nylon 'C' clips (4)
10 packs per outer
19mm **109113**
23mm **109124**

Aluminium awning rail
10 lengths per outer
1.55m   **105099A**
2.12m   **105099**
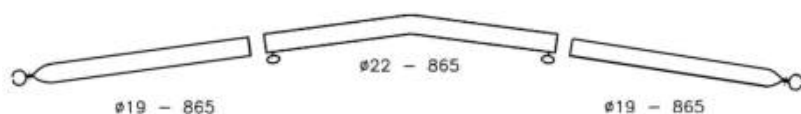2.7m   **105099B**

Plastic awning rail
Pre-drilled 2.5 metre lengths
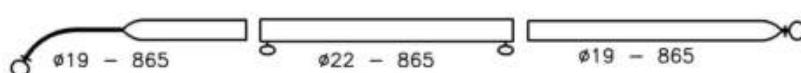10 lengths per outer
105088

Seal repair adhesive 28g
Suitable for most types of fabric. Gives an extremely durable mend. Dries to a flexible finish. Easy to apply.
12 per outer
109449

Bent crossbeam
22/19 mm 170-250cm
with 2 clamps
109218

Stretching pole
22/19 mm 166-255cm
with 2 clamps
109210

ø19 – 865   ø22 – 865   ø19 – 865

ø19 – 865   ø22 – 865   ø19 – 865

Luggage Elastic

W4 adjustable luggage elastic
Meets BS AU 258:1995.
1 metre length with 1 fixed and 1 self locking hook.
10 per outer **109519**

W4 Luggage elastic (2)
Meets BS AU 258:1995
10 per outer
46cm **109515**
60cm **109516**
76cm **109517**
91cm **109518**

Multipurpose rope 30m
Working load limit of 175lbs. Working load limit is a guideline for the maximum allowable weight capacity of a new rope.
6 packs per outer **109436**

Rolson 15ft ratchet tie down
1" strap . 136kg approx. tie down capacity. Trouble free, push button quick release mechanism.
4 per outer
109523

Camping accessories

Folding toaster
23cm diameter with four "sure grip" wire toast holders. Heavy steel plate. Folds flat.
109643

Salt/pepper shaker
Rugged all plastic construction with easy flip-up caps. The bottom is removable for easy filling.
109647

Stainless steel camping mirror
3¼"x4¼"
12 per outer
109762S

Camping mirror
Quality mirror in sturdy, colourful plastic frame. Unique metal hook on back enables mirror to stand, clamp on pole or hang. 5"x7"
12 per outer
109762

Egg holders
Protective plastic case for carrying eggs
2 eggs, 6 per outer
109650
6 eggs, singly or 12 per outer
109651
12 eggs, singly or 12 per outer
109652

rollabowl double
Non-slip feeding station helps protect against mess. A complete double food and water bowl with mat. 100% high Grade FDA approved silicone. BPA, Lead and phthalate free. Bacteria and mould resistant. Ideal to feed your pet at home or on the move!
Each bowl holds 1 large beaker of dry food or 1 pint (600ml) of water, or 2 pints if both bowls are used for water – plenty for even the thirstiest of large breed dogs.
The unique patented design ROLLS UP in seconds to the size of a newspaper! Simply clasps together to make a compact portable pet bowl and mat for wherever you want to go with your pet. Includes a handy water-resistant carry case.
Dishwasher safe.
Mat: 45 x 27, with 5cm bowl height
Rolled up: 27 x 5 x 5cm
Singly or 36 per outer
Turquoise   **124135**
Grey   **124136**

fold-a-bowl single
A unique fold-down design means this portable dog bowl can fit in the palm of your hand! Simply seals with a silicone band to make a compact portable pet bowl for wherever you want to go with your dog (or cat!). Can be used anywhere and even fits in trouser or coat pockets, or tied to a rucksack or belt, with handy Carabina clip!
100% high Grade FDA approved silicone. BPA, Lead and phthalate free. Bacteria and mould resistant. Ideal to feed your pet at home or on the move!
Capacity 300ml.
Dishwasher safe.
Singly or 36 per outer
Olive   **124133**
Grey   **124134**

Grove PRODUCTS

TRIGANO Spares

Corner plastic bracket
For fibre frame. Reversible
901175

Centre corner plastic bracket
For fibre frame
901178

Centre plastic corner
For steel frame
901066

Via Mondo awning bracket pads (3)
Available singly or 10 per outer
109587

Trifix fixing bracket
901064

Awning bracket
901039

Ball joint
6mm thread
901068

Pole clip
For fibre frame
25/28mm
901190

Plastic hooked clip
25mm
901092

Power grip
Reversible
For fibre frames
901185

Power grip
For metal frames
901067

Roof lining / inner tent clip
901121

Pole end
20-22mm
901075

Spiked foot
For fibre frame
20/22mm
901195

Grey feet
23-25mm
901084

Rubber rings
40 x 48 x 9mm
901131

Adjustable peg strap
901138

Spring button
22-25mm
901005

Metal clip
20-22mm
901012

Curtain hook - annexe
901115

Curtain hooks
901117

Curtain rod end
901119

Grove
PRODUCTS
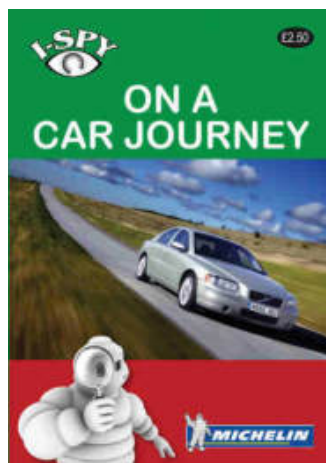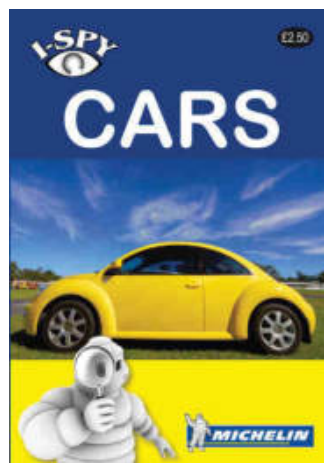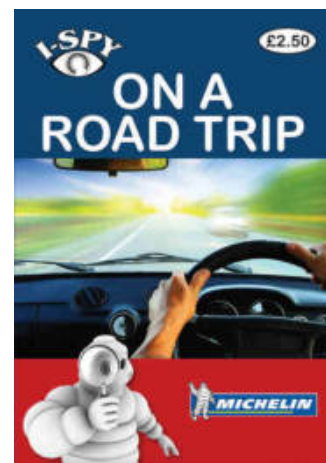
I-Spy books   All packed 6 per outer
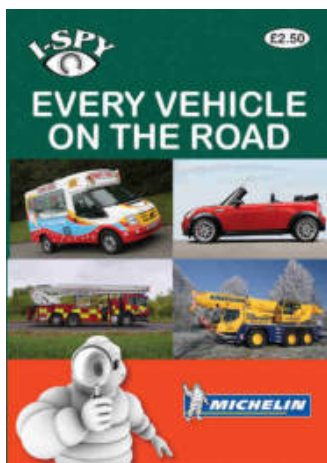
Every Vehicle on the Road
120254

On a Car Journey
120245

Cars
120242

On a Road Trip
120255
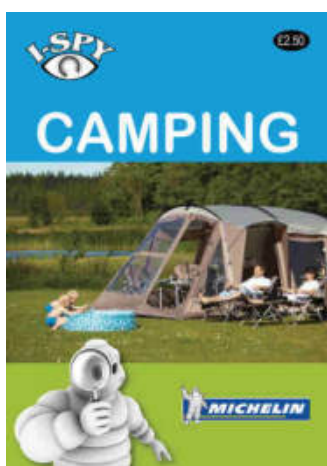
Camping
120247

Birds
120241
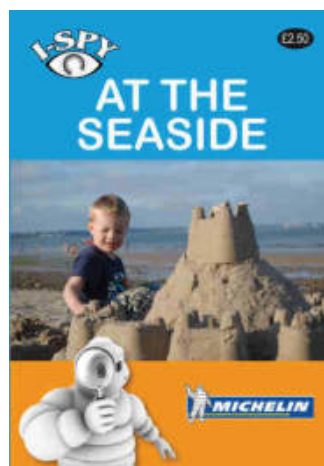
At the Seaside
120246

On a Ferry
120253

WOW The perfect travelling companion for children
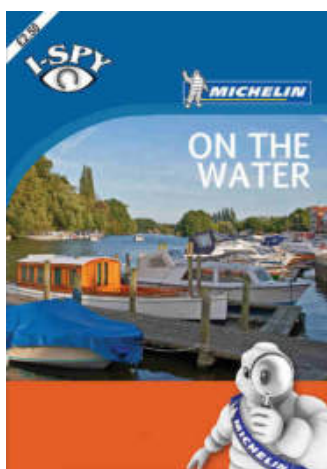
On the water
120239
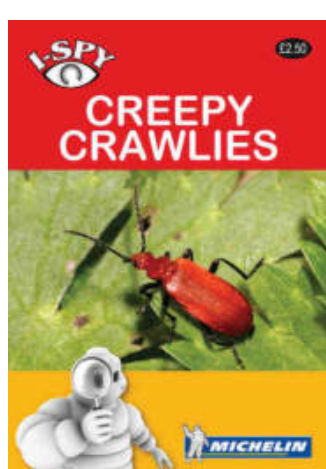
Creepy Crawlies
120243

Dogs
120237

I-spy merchandiser
120265 - free of charge

I-spy 24 pocket spinner
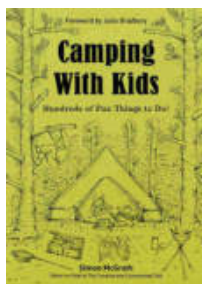120266 - free of charge

Grove PRODUCTS

Specialist books and DVDs

Caravan Manual
Content includes guidance on maintaining older caravans as well as detailed information on recent developments
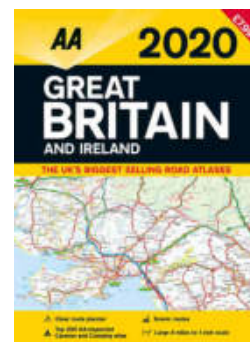**120175**

Camping with Kids
Learn to make a moth catcher, cook a world class bacon sarnie and whittle a tent peg. Light a fire from scratch, master a few card tricks and identify constellations.
With 400 cool campsite based ideas on getting back to nature, learn survival skills, weather watching, cooking, bush-craft and just having fun.
120300

AA Atlas Great Britain
A3. Clear 4 miles to 1 inch scale. Fully updated, route planner and 8,000 places to visit. New speed camera locations.
10 per outer
120200

Toys

Sea cruiser transporter
6 per display outer
124074

Motorhome & trailer
6 per display outer
124070

Holiday fun car & caravan
6 per display outer
124069

Bird boxes
Made from high quality waterproof poly-resin.
Approximately 20cm width, 13cm height and 10cm depth

1930's Vintage caravan
124080

1950's Vintage caravan
124082

Vintage campervan
124084

Flamingo Caravan
124085

Surfing Campervan
124086

Grove
PRODUCTS

Via Mondo Chairs

3D Padded mesh chairs
Charcoal mesh fabric with padded filler.

DIRECTORS CHAIR
Includes side table

Seat (W x D):	50 x 54 cm
Seat-height:	44 cm
Backrest:	43 cm
Table size:	54 x 25.5cm
Folded:	85 x 65 x 15 cm
Weight:	3.6 kg
Max capacity:	120 kg

6 per outer
107698

HIGH BACK STANDARD

Seat (W x D):	48 x 45 cm
Seat-height:	46 cm
Backrest:	80 cm
Positions:	7
Folded:	109 x 64 x 11.5 cm
Weight:	5.1 kg
Max capacity:	120 kg

4 per outer
107697A

HIGH BACK WITH ADJUSTABLE HEAD REST

Seat (W x D):	48 x 45 cm
Seat-height:	48 cm
Backrest:	69 cm
Positions:	7
Folded:	93 x 62.5 x 10.5 cm
Weight:	5.3 kg
Max capacity	120 kg

2 per outer
107697

FOOTREST FOR MESH HIGH BACK CHAIRS
6 per outer
Fits 107697 and 107697A **107697AB**

TEXTILENE HIGH BACK

Seat (W x D):	48 x 40 cm
Seat-height:	43 cm
Backrest:	80 cm
Positions:	6
Folded:	109 x 58 x 20 cm
Weight:	3.25 kg
Max capacity:	100 kg
Lime Green	2 per outer	**107699L**
Purple	2 per outer	**107699P**
Charcoal	2 per outer	**107699C**
Grey	4 per outer	**107699G**

Grey patterned version is 8 position

Contemporary designed high quality aluminium frame chairs with a Textilene fabric (PVC coated polyester fibres that are weather and UV resistant)

Via Mondo Tables

Folding camping table
With integrated carry handle.
- Weight: 3.45kg
- Weight limit: 30kg
80 x 60 x 69cms
Grey   **107709**
Charcoal   **107709C**

Coleman chairs

Standard Quad chair Khaki
Adjustable arm height for comfort. Includes 1 mesh cup holder in armrest. Patented hub on front cross braces provides an easy to open yet stable structure. Plastic feet prevent the chair from sinking in soft ground and there are holes to allow you to peg down the chair - ideal if you get up from the chair in windy conditions

Fabric:	Polyester for abrasion resistance
Frame:	Steel, provides a strong and stable structure
Size (WxDxH):	Open 74 x 90 x 50 cm Folded 22 x 94 x 16 cm
Weight:	3.3kg
Max capacity:	113 kg
Material:	600D Oxford polyester

Available singly or 6 per outer
107689

Aluminium slatted folding tables
Comes with carry bag
- Table top: Painted aluminium with new plastic chain system for connecting slats
- Frame: Aluminium 25 mm Ø

Small
- Weight: 3.63kg
- Weight limit: 30kg
80 x 61 x 70cms
107700

Medium
- Weight: 5.05kg
- Weight limit: 30kg
110 x 71 x 70cms
107701

Large
- Weight: 6.42kg
- Weight limit: 30kg
140 x 81 x 70cms
107702

Leisure table/stool
Handy aluminium stool that transforms into a side table with the addition of the included table top.
- Weight: 1.37kg
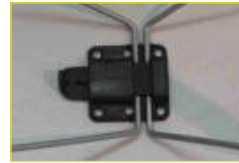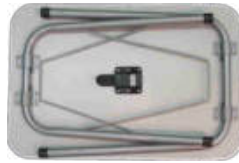- Weight limit table: 30kg
- Weight limit stool: 80kg
40 x 40 x 47cms
Grey   **107708**
Charcoal   **107708C**

Grove PRODUCTS

Via Mondo Tables

Folding tables
With solid wood table tops

Large folding table
Adjustable legs
● Weight: 7.5kg
● Weight limit: 30kg
120 x 60 x 50/69cms
Grey   **107707**
Charcoal   **107707C**

Medium folding table
Adjustable legs
● Weight: 6.9kg
● Weight limit: 30kg
80 x 60 x 50/69cms
Grey   **107706**
Charcoal   **107706C**

Small folding table
● Weight: 4.02kg
● Weight limit: 30kg
60 x 40 x 50cms
Grey   **107705**
Charcoal   **107705C**

Via Mondo Camping Cupboards

Via Mondo premium quality quick erect camping cupboards and wardrobe. Featuring a 16/19mm aluminium scissor frame which make them quick and easy to use as well as lightweight.

Made from high quality 600D polyester, the units include removable aluminium edged MDF shelves and top.

All models come with zipped front doors which can be tied back for easy access, storage pockets on the outside and a handy storage/carry bag

Medium storage cupboard
3 aluminium edged MDF shelves included for extra strength.
Weight: 5.3kg
HxWxD: 104 x 66 x 52cms
107727

Storage cupboard with wardrobe
5 aluminium edged MDF shelves included for extra strength with full length hanging area.
Weight: 8.5kg
HxWxD: 140 x 90 x 52cms
107729

Tall storage cupboard
4 aluminium edged MDF shelves included for extra strength.
Weight: 7.5kg
HxWxD: 140 x 66 x 52cms
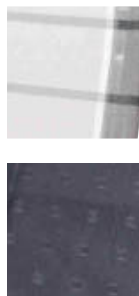**107728**

Storage cupboard
2 aluminium edged MDF shelves included for extra strength.
Weight 3.85kg
HxWxD: 64 x 60 x 45cms
107726

Grove
PRODUCTS

Dukdalf Chairs

The Dukdalf camping furniture range is produced in the Netherlands using Italian designed upholstery.

DYNAMIC

Seat: 47 x 44 cm.
Seat-height: 45 cm.
Backrest: 77 cm.
Positions: 10
Folded: 100 x 62 x 9 cm.
Weight: 4 kg.
Maximum capacity 140 kg.
Material: 70% PVC, 30% Polyester

A stable and compact chair with an ergonomically shaped back and seat. It can be folded to less than 9cm thickness thanks to it's special design. The frame of double reinforced anodised oval aluminium tube makes the chair not only very strong but also very light.
4 per outer

Blue (as illustrated)	107601
Grey	107602
Grey stripe	107603

ASPEN

Seat: 49 x 43 cm.
Seat-height: 44 cm.
Backrest: 78 cm.
Positions: 8
Folded: 108 x 62 x 10 cm.
Weight: 2.8kg.
Maximum capacity 100 kg.
Material: 70% PVC, 30% Polyester

Very light weight, the Aspen chair has a round aluminium tubular frame. It can be folded to 10cm thickness and reclines in 8 positions. It features a high back with built-in head rest.
2 per outer

Blue	107617
Grey	107618
Grey stripe (as illustrated)	107619

Legrest fusion

The ergonomic legrest fits all Dukdalf chairs and offers extra comfort. Simply lays across the sampler bar attached to each chair, turning a comfortable chair into a relaxer. **Oval legs**.
Dimensions folded: 86 x 49 x 8 cm - Maximum capacity: 25 kg.
Available singly or 4 per outer

|	
Blue	107613
Grey	107614

Legrest sampler

The ergonomic legrest fits all Dukdalf chairs and offers extra comfort. Simply lays across the sampler bar attached to each chair, turning a comfortable chair into a relaxer. **Tubular legs**.
Dimensions folded: 86 x 49 x 8 cm - Maximum capacity: 25 kg.
Available singly or 4 per outer

Blue	107621
Grey	107622
Grey stripe	107623

Leisure Vehicle Bedding
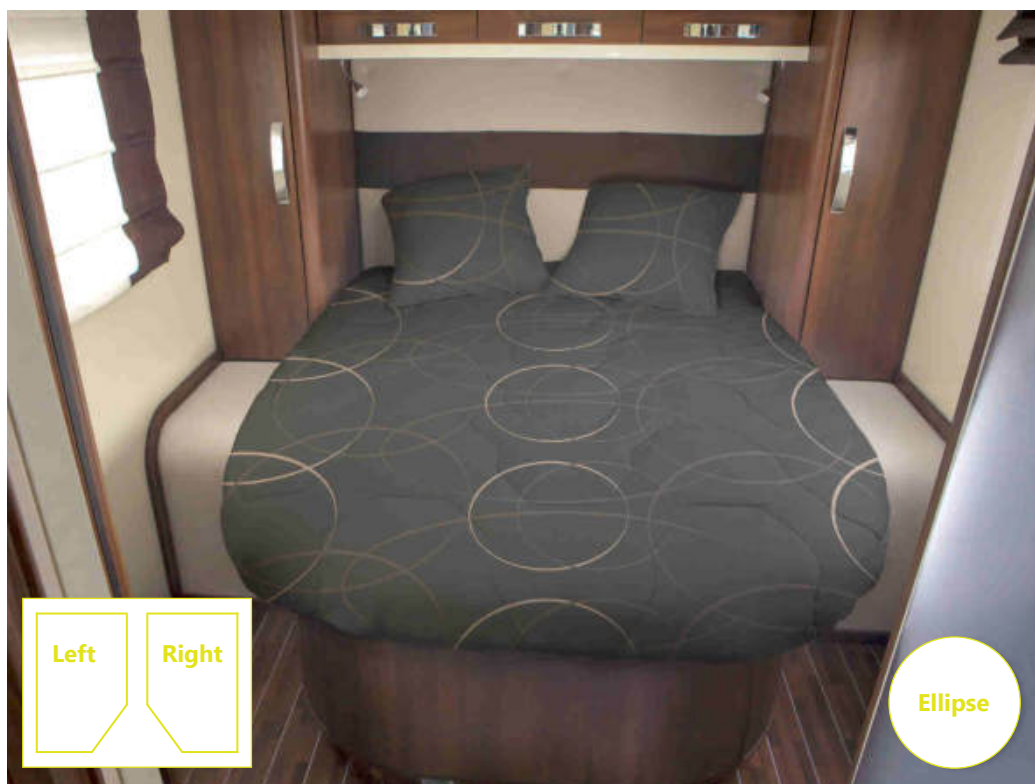
These ready made bedding systems are supplied in a sturdy reuseable plastic bag with carry handle and zip. The elasticated fitted sheet simply fits onto the fixed bed, zips onto the top sheet which then zips onto the fitted duvet, providing a neat and tidy bed during the day, and a comfortable home-like bedding system for sleeping in at night.

Includes: 1 x Elasticated and fitted 100% cotton sheet, 1 x 100% cotton top sheet and 1 x Fitted duvet with 100% cotton cover and 250g/m^2 100% fire retardent polyester filling, plus 2 square pillow cases.
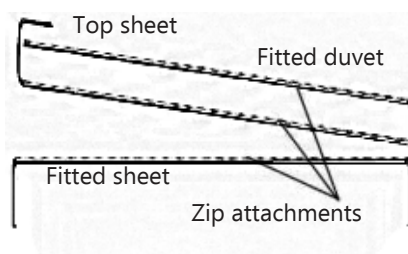
Part No.	Length (cm)	Width (cm)	Cut off corner*
123170	190	80	
123175	190	140	
123180	210	140	
123185	210	160	
123190	190	140	Right
123195	190	140	Left
Ellipse pattern available from stock			

Sleeping

BI-OME® mattress protectors

The human body releases each night about ½ a litre of liquid in the form of perspiration. This highlights the importance of using mattress and pillow protectors to improve the protection of your bedding and increase its lifespan.

Anti-mite, Anti-bacterial, Anti-mold - Hypoallergenic BI-OME® permanent, non-harmful odour control technology guarantees an optimal freshness and hygiene for all kinds of textiles.

How it works!

1. Micro-organisms are attracted by the fabric coating.
2. Once in contact with the coating, their cell membrane is punctured.
3. This deactivates the micro-organism, preventing growth and proliferation.

● Prevents odour formation
● Eliminates all types of micro-organisms (bacteria, algae, fungi)
● Permanent & high wash-durability: functionality remains for the product lifetime
● Tested to both EU and US safety standards

All models - height 30cm.

80/90cm x 190/200cm	**123161**
130/140cm x 190/200cm	**123162**
140cm x 210cm	**123163**
160cm x 210cm	**123164**
Left cut 140cm x 190cm	**123165**
Right cut 140cm x 190cm	**123166**
145cm x 195cm	**123167**
160cm x 200cm	**123168**

COOLPLUS® mattress toppers

Extend the life of your mattress by protecting it from the normal wear of time while improving comfort. It helps provide good ventilation of the mattress and is a barrier against all types of parasites (mites, bacteria, molds).
It can also be used as an extra mattress as a temporary solution.

● Removable and washable cover.
● Finished by all around zip.
● Material: Cover: Coolplus 100% polyester mesh
                    Foam: Micro perforated PU foam 32kg/m^3
● Micro-perforated - ultra breathable - high resilience
● Height 5 cm

80/90cm x 190/200cm	**123200**
130/140cm x 190/200cm	**123201**
140cm x 210cm	**123202**
160cm x 210cm	**123203**
Left cut 140cm x 190cm	**123204**
Right cut 140cm x 190cm	**123205**
145cm x 195cm	**123206**
160cm x 200cm	**123207**

Let's Camp childs sleeping bag and pillow

● 66 x 142cm (40x66cm pillow)
● Brushed polyester outer and lining
● 300g/m^2 polyester hollow fibre filling
● 2 bags zip together to make a double
● Double zip feature (can be opened from the top or bottom)

Available singly or 6 per outer

Let's camp   123024

Grove PRODUCTS