

# Viessmann acceptance report

Vitosoft 300 SID1, Software version 8.0.6.2



## System:

Aktuelle Anlage 01, Aktuelle Anlage 01,

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## 1 System description

**System number**

**Order number**

**System information**

**Planer**

Aktuelle Anlage 01

**Street**

**System location**

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**Postcode/town**

**Contact**

**Telephone no.**

**Fax**

**Email**

**Type of system**

System name

Device serial number

VT 200 (WO1C)

7501997201038105

**Anlagenausstattung**

Serial no./part no.

Type description

Comment

Aktuelle Anlage 01

7501997201038105

VT 200 (WO1C)

Vitocal xxx-G mit Vitotronic 200  
(Typ WO1C)

**Description**

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## 2 Controller parameters

### 2.1 VT 200 (WO1C)

#### 2.1.1 Overview

### 2.1.1.1 System

Outside temperature	:	-11.4 °C
Operating status system	:	Standard mode
* Heating season HC1	:	Yes
Operating mode buffer cylinder	:	Standby mode
Relay status M2 mixer CLOSED	:	Heating
Relay status control ext. heat source	:	OFF
Control ext. heat source	:	0 Hours
CENTRAL FAULT	:	OFF
(7777) LON objects field BUS subscriber number	:	1
Ext. hook-up 0..10 V	:	0 %
Date and time HPCU	:	11/25/2023 9:22:05 PM
System scheme	:	2: 1 HC + DHW
Drying buildings HC1	:	0
* Frost protection HC1	:	Yes
Frost protection HC2	:	No
Frost protection HC3	:	No

### 2.1.1.2 Heat pump

Secondary pump	:	ON
Relay status 3-way valve heating/DHW1	:	Heating
Compressor 1	:	17095.82 Hours
Compressor 1	:	28723
Elec. heating stage 1	:	OFF
Elec. heating stage 1	:	0.65 Hours
Elec. heating stage 2	:	OFF
Elec. heating stage 2	:	0.63 Hours
Flow temperature primary source	:	7.2 °C
Return temperature primary source	:	7 °C
Seasonal performance factor	:	1.7
Seasonal performance factor heating	:	1.7
Seasonal performance factor DHW	:	1.5
Compressor	:	OFF
Primary source 1 (fan or primary pump)	:	OFF

### 2.1.1.3 Heating circuit 1

Operating status	:	normal
Operating mode HC1	:	2 - heating/cooling/DHW
* (2000) HC1 standard room temperature	:	22 °C
* (2001) HC1 reduced room temperature	:	22 °C
(2022) Room temperature in party mode	:	20 °C
* (2007) HC1 slope heating curve	:	0.2
* (2006) HC1 level heating curve	:	-1 K
Heating circuit pump HC1	:	ON
Holiday program HC1	:	OFF
Flow temperature secondary 1	:	25 °C
Flow temp Set	:	30.8 °C
Heating circuit 1 cooling function available	:	No
Party mode HC1	:	OFF
Economy mode HC1	:	OFF

### 2.1.1.4 DHW

Operating mode DHW	:	Operating mode_reduced
* (6000) Select temperature	:	48 °C
DHW temperature top	:	47.5 °C
Cylinder primary pump	:	OFF
DHW circulation pump	:	OFF
Cylinder reheating	:	OFF
Cylinder reheating	:	0 Hours

### 2.1.2 Statistics

#### 2.1.2.1 Energy statement

Seasonal performance factor	:	1.7
Seasonal performance factor heating	:	1.7
Seasonal performance factor DHW	:	1.5
SPF cooling	:	0
SPF incl. PV	:	0
COP heating mode	:	3.4
COP DHW mode	:	0
Average primary input temperature	:	1 °C
Average primary output temperature	:	-3.1 °C
Average sec. flow temperature	:	34.2 °C
Average sec. temperature return1	:	25.9 °C
Average sec. temperature return2	:	0 °C
Max. sec. flow temperature heating	:	35.2 °C
Max. sec. flow temperature DHW	:	60.2 °C
Max. sec. return temperature heating return1	:	26.4 °C
Max. sec. return temperature DHW return1	:	55.2 °C
Max. sec. return temperature heating return2	:	-40 °C
Max. sec. return temperature DHW return2	:	0 °C
Heating energy heating compressor 1	:	259058 kWh
Energy compressor 1	:	43318 kWh
Electrical energy heating compressor 1	:	147231 kWh
Electrical energy DHW compressor 1	:	27670 kWh
Energy statement factor	:	1
Electrical energy PV	:	0 kWh
Heating energy heating compr. 1	:	259058 kW
Heating energy heating compr. 2	:	0 kW
Therm. energy cooling compr. 1	:	0 kW
Therm. energy cooling compr. 2	:	0 kW
Average evaporation temperature HP2	:	-6.1 °C
Average evaporation temperature HP2	:	-1.3 °C
Average condensation temperature HP1	:	13.3 °C
Average condensation temperature HP2	:	29.2 °C
Average temperature lift HP1	:	19.4 °C
Average temperature lift HP2	:	0 °C
Average evaporation pressure compressor 1	:	6.5 Bar (absolute)
Average evaporation pressure compressor 2	:	0 Bar (absolute)
Average condensation pressure compressor 1	:	12 Bar (absolute)
Average condensation pressure compressor 2	:	0 Bar (absolute)

### 2.1.2.2 Hours run, system

Heating circuit pump A1	:	51123.85 Hours
HEATING CIRCUIT PUMP M2	:	0 Hours
Heating circuit pump M3	:	0 Hours
Control ext. heat source	:	0 Hours
Cylinder primary pump	:	0 Hours
Active cooling	:	0 Hours
Natural cooling control	:	0 Hours
Swimming pool_valve	:	0 Hours
Cylinder reheating	:	0 Hours
DHW heating set value 2 (pasteurisation)	:	0 Hours
Buffer bridge	:	0 Hours

### 2.1.2.3 Hours run, HP

3-way valve heating/DHW1	:	2716.4 Hours
3-way valve heating/DHW2	:	0 Hours
Elec. heating stage 1	:	0.65 Hours
Elec. heating stage 2	:	0.63 Hours
EEV1 compressor	:	0 Hours
EEV2 compressor	:	0 Hours
Refrigerant circuit reversal	:	0 Hours
Primary source 1 (fan or primary pump)	:	18058.36 Hours
Primary source 2 (primary pump)	:	0 Hours
CENTRAL FAULT	:	0.12 Hours
Switching output 7-day timer DHWCP	:	0 Hours
Secondary pump 1	:	53137.68 Hours
Secondary pump 2	:	0 Hours

### 2.1.2.4 Switching cycles HP

Primary source 1 (fan or primary pump)	:	30673
Secondary pump 1	:	2529
Compressor 1	:	28723
EEV1 compressor	:	0
Relay 3-way valve heating/DHW1	:	6987
EEV1 heating/cooling	:	0
Primary source 2 (primary pump)	:	0
Secondary pump 2	:	0
EEV2 compressor	:	0
Relay 3-way valve heating/DHW2	:	0
EEV2 heating/cooling	:	0
Elec. heating stage 1	:	5
Elec. heating stage 2	:	3

### 2.1.2.5 Switching cycles system

Natural cooling control	:	0
Active cooling	:	0
Relay status control ext. heat source	:	0
Swimming pool valve	:	0
Cylinder primary pump	:	0
Cylinder reheating	:	0
DHW heating set value 2 (pasteurisation)	:	0
Solar circuit pump	:	0
Solar circuit pump Vitosolic	:	0
CENTRAL FAULT	:	3
Natural cooling via HC mixer CLOSED	:	0
Ext. heat source mixer OPEN	:	0
Mixer OPEN for relay test	:	0
Enable absorber pump	:	0
Compressor output	:	1
Output, refrigerant circuit reversal	:	2
Output, primary source	:	1
Output, secondary pump	:	1
Output, DHW pump	:	0
Speed, fan 1	:	0 r/min
Speed, fan 2	:	0 r/min
Output, primary source RC2	:	2
Output, secondary pump RC2	:	2
Output, DHW pump (refrigerant circuit 2)	:	2

### 2.1.3 Operation

#### 2.1.3.1 System

* (7902) Electric heating mode	:	No
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#### 2.1.3.2 Heating circuit HC1

Party mode HC1	:	OFF
Economy mode HC1	:	OFF
(2022) Room temperature in party mode	:	20 °C
* (2000) HC1 standard room temperature	:	22 °C
* (2001) HC1 reduced room temperature	:	22 °C
Operating mode HC1	:	2 - heating/cooling/DHW
* (2007) HC1 slope heating curve	:	0.2
* (2006) HC1 level heating curve	:	-1 K
Holidays start HC1	:	1/1/1970 12:00:00 AM
Holidays end HC1	:	1/1/1970 12:00:00 AM

### 2.1.3.3 Switching times HC1

Switching time:Switching times HC1

Day:Monday			
from	To		Value
00:00:00	04:00:00		Standard
04:00:00	08:30:00		Reduced
08:30:00	24:00:00		Standard
Day:Tuesday			
from	To		Value
00:00:00	04:00:00		Standard
04:00:00	08:30:00		Reduced
08:30:00	24:00:00		Standard
Day:Wednesday			
from	To		Value
00:00:00	04:00:00		Standard
04:00:00	08:30:00		Reduced
08:30:00	24:00:00		Standard
Day:Thursday			
from	To		Value
00:00:00	04:00:00		Standard
04:00:00	08:30:00		Reduced
08:30:00	24:00:00		Standard
Day:Friday			
from	To		Value
00:00:00	04:00:00		Standard
04:00:00	08:30:00		Reduced
08:30:00	24:00:00		Standard
Day:Saturday			
from	To		Value
00:00:00	04:00:00		Standard
04:00:00	08:30:00		Reduced
08:30:00	24:00:00		Standard
Day:Sunday			
from	To		Value
00:00:00	04:00:00		Standard
04:00:00	08:30:00		Reduced
08:30:00	24:00:00		Standard

### 2.1.3.4 DHW

* (6000) Select temperature	:	48 °C
1x DHW heating	:	0
* (6015) DHW with electric heating	:	Yes
* (6009) Start optimisation	:	No
* (600A) Stop optimisation	:	No
* (600C) Second set value	:	49 °C



### 2.1.3.5 DHW switching times

Switching time:DHW switching times

	Day:Monday		
from		To	Value
00:00:00		24:00:00	Level top
	Day:Tuesday		
from		To	Value
00:00:00		24:00:00	Level top
	Day:Wednesday		
from		To	Value
00:00:00		24:00:00	Level top
	Day:Thursday		
from		To	Value
00:00:00		24:00:00	Level top
	Day:Friday		
from		To	Value
00:00:00		24:00:00	Level top
	Day:Saturday		
from		To	Value
00:00:00		24:00:00	Level top
	Day:Sunday		
from		To	Value
00:00:00		24:00:00	Level top

### 2.1.3.6 DHWCP switching times

Switching time:DHWCP switching times

	Day:Monday		
from		To	Value
00:00:00		24:00:00	OFF
	Day:Tuesday		
from		To	Value
00:00:00		24:00:00	OFF
	Day:Wednesday		
from		To	Value
00:00:00		24:00:00	OFF
	Day:Thursday		
from		To	Value
00:00:00		24:00:00	OFF
	Day:Friday		
from		To	Value
00:00:00		24:00:00	OFF
	Day:Saturday		
from		To	Value
00:00:00		24:00:00	OFF
	Day:Sunday		
from		To	Value
00:00:00		24:00:00	OFF

### 2.1.3.7 Noise reduction activation times Re.

Switching time:Time program, noise reduction

	Day:Monday		
from		To	Value
00:00:00		24:00:00	Standby
	Day:Tuesday		
from		To	Value
00:00:00		24:00:00	Standby
	Day:Wednesday		
from		To	Value
00:00:00		24:00:00	Standby
	Day:Thursday		
from		To	Value
00:00:00		24:00:00	Standby
	Day:Friday		
from		To	Value
00:00:00		24:00:00	Standby
	Day:Saturday		
from		To	Value
00:00:00		24:00:00	Standby
	Day:Sunday		
from		To	Value
00:00:00		24:00:00	Standby

### 2.1.3.8 Switching times, electric heater

Switching time:Time program, el. heating

	Day:Monday		
from		To	Value
00:00:00		24:00:00	Stage 3
	Day:Tuesday		
from		To	Value
00:00:00		24:00:00	Stage 3
	Day:Wednesday		
from		To	Value
00:00:00		24:00:00	Stage 3
	Day:Thursday		
from		To	Value
00:00:00		24:00:00	Stage 3
	Day:Friday		
from		To	Value
00:00:00		24:00:00	Stage 3
	Day:Saturday		
from		To	Value
00:00:00		24:00:00	Stage 3
	Day:Sunday		
from		To	Value
00:00:00		24:00:00	Stage 3

### 2.1.3.9 Time

Date and time HPCU	:	11/25/2023 9:22:05 PM
Time summer month	:	3
Time summer day	:	7
Time summer week	:	5
Time winter month	:	10
Time winter day	:	7
Time winter week	:	5
Time time changeover	:	Yes

## 2.1.4 Commissioning

### 2.1.4.1 System def.

(7000) System scheme	:	2: 1 HC DHW
* (7003) Hysteresis heating limit	:	7 K
(7004) Hysteresis cooling limit	:	4 K
(7008) Swimming pool	:	No
(700A) Cascade	:	0: None
* (700B) Output lag heat pump	:	10
(7010) Ext. connection extension found	:	No
* (7011) Operating mode changeover to HC	:	0: DHW
(7012) Operating mode changeover effect	:	Standard
(7013) Operating mode changeover duration	:	8
(7014) External demand mixer OPEN	:	4: M2 control mode M3 control mode demand effect
(7015) External blocking mixer CLOSED	:	4: M2 control mode M3 control mode blocking effect
(7017) Vitocom 100	:	No
(701A) External blocking effect HCP1	:	Control mode
(701A) External blocking effect HCP2	:	Control mode
(701A) External blocking effect HCP3	:	Control mode
(701A) External blocking effect sec. pump	:	Control mode
(701A) External blocking effect CPP	:	Control mode
(701B) System flow sensor	:	No
(7030) Primary source is ice store	:	No
* (7031) Start hysteresis, solar air absorber	:	2 K
* (7035) Minimum idle time, summer mode	:	60
(7036) Last calendar week, summer mode	:	35
(7029) Number of lag heat pumps	:	0

### 2.1.4.2 Compressor 1

(5000) Compressor stage enabled	:	Yes
* (5010) Defrost stop temperature	:	15 °C
* (5012) Enable compressor stage for hydraulic circuit	:	15
* (5030) Output compressor	:	10

### 2.1.4.3 DHW

* (6000) Select temperature	:	48 °C
(6005) Minimum temperature DHW cylinder	:	10 °C
(6006) Maximum temperature DHW cylinder	:	60 °C
* (6007) DHW hysteresis	:	6 K
(6008) Hysteresis DHW emergency	:	10 K
* (6009) Start optimisation	:	No
* (600A) Stop optimisation	:	No
* (600C) Second set value	:	49 °C
(600E) Temperature sensor 2	:	No
(6014) Elec. heater DHW cylinder	:	No
* (6015) DHW with electric heating	:	Yes
* (6016) Combi cylinder (HC block DHW)	:	0: HC still enabled during DHW mode
(6017) No. of attempts DHW	:	1
(601F) Enable cylinder primary pump	:	No
(6020) PWM control cylinder primary pump	:	0: None

#### 2.1.4.4 Electric heater

(7900) Installed	:	Yes
* (7902) Electric heating mode	:	No
* (7907) Max. stage electric	:	3: Instantaneous water heaters 1 and 2
(790A) Elec. heating stage power-OFF	:	0: No stages are enabled
(790B) Bivalence temperature instantaneous water heater	:	50 °C

#### 2.1.4.5 Hydraulics

(7300) Heat pump for drying buildings	:	No
(7303) Screed program	:	0: None
(730C) Flow set temperature ext. demand	:	50 °C
* (730D) Enable 3-way diverter valve heating/DHW	:	Yes
* (7340) PWM control actuator secondary source	:	2: Fixed value
(73C0) Secondary pump type	:	0: None

#### 2.1.4.6 Heating circuit HC1

* (2000) HC1 standard room temperature	:	22 °C
* (2001) HC1 reduced room temperature	:	22 °C
(2003) HC1 remote control	:	No
* (2006) HC1 level heating curve	:	-1 K
* (2007) HC1 slope heating curve	:	0.2
(200A) HC1 slope room hook-up	:	1
* (200B) HC1 room temperature hook-up	:	0: Without
(200E) HC1 max. flow temperature heating circuit	:	40 °C
(2022) Room temperature in party mode	:	20 °C

#### 2.1.4.7 Ventilation

(7D00) Enable Vitovent	:	OFF
(7D01) Enable preheater bank, electric	:	OFF
(7D02) Enable reheater bank, hydraulic	:	OFF
(7D05) Enable humidity sensor	:	OFF
(7D06) Enable CO2 sensor	:	OFF
(7D08) Extract air temperature with standard ventilation	:	20 °C
(7D0A) Flow rate, basic ventilation	:	120
(7D0B) Flow rate, reduced ventilation	:	170
(7D0C) Flow rate, nominal ventilation	:	215
(7D1A) Fan interval time if extract air temp too low	:	15 Minutes
(7D1B) Duration maximum ventilation	:	120 Minutes
(7D21) Suppression, heat demand	:	7
(7D11) Fan lead time for el. heating coil	:	60 Seconds
(7D12) Fan run-on time for el. heating coil	:	60 Seconds

#### 2.1.4.8 Photovoltaics

(7E00) Enable optimisation, own consumption	:	No
(7E02) External current proportion	:	10 %
(7E10) Enable optimisation, pasteurisation	:	OFF
(7E11) Enable optimisation, DHW	:	OFF
(7E12) Enable optimisation, buffer cylinder	:	OFF
(7E13) Enable optimisation, heating	:	OFF
(7E14) Enable optimisation, swimming pool	:	OFF
(7E15) Enable optimisation, cooling	:	OFF
(7E16) Enable optimisation, coolant cylinder	:	OFF
(7E17) Enable weather data	:	OFF
(7E21) DHW temperature, set differential PV	:	0 K
(7E22) Heating water buffer cylinder, set differential PV	:	0 K
(7E23) Heating, set differential PV	:	0 K
(7E24) Swimming pool, set differential PV	:	0 K
(7E25) Cooling, set differential PV	:	0 K
(7E26) Coolant buffer cylinder, set differential PV	:	0 K

#### 2.1.4.9 Primary source

(7400) Operating mode, primary source	:	0: None
(7401) Primary source drive control	:	0: Fixed speed

#### 2.1.4.10 LON communication

(7707) Heat pump number in cascade	:	1
(7710) LON objects comm. module_LON_found	:	No
(7777) LON objects field BUS subscriber number	:	1
(7779) LON objects fault manager	:	No
(7798) LON objects system number	:	1
(779C) LON objects field BUS receive heartbeat	:	20 Minutes
(77FC) Source, outside temperature	:	0: Local
(77FE) Source, time	:	0: Local
(77FF) LON objects field BUS time distribution	:	0: Local
(77FD) Distribution outside temperature	:	0: Local

#### 2.1.5 Code 2

### 2.1.5.1 System def.

(7000) System scheme	:	2: 1 HC DHW
(7002) Average time outside temperature	:	180 Minutes
* (7003) Hysteresis heating limit	:	7 K
(7004) Hysteresis cooling limit	:	4 K
(7005) Temp limit red. operating mode	:	-40 °C
(7006) Frost protection temperature	:	1 °C
* (7007) Primary pump natural cooling	:	Yes
(7008) Swimming pool	:	No
(700A) Cascade	:	0: None
* (700B) Output lag heat pump	:	10
(7010) Ext. connection extension found	:	No
* Ext. heat pump runtime compensation	:	No
* (7011) Operating mode changeover to HC	:	0: DHW
(7012) Operating mode changeover effect	:	Standard
(7013) Operating mode changeover duration	:	8
(7014) External demand mixer OPEN	:	4: M2 control mode M3 control mode demand effect
(7015) External blocking mixer CLOSED	:	4: M2 control mode M3 control mode blocking effect
(7017) Vitocom 100	:	No
(7018) Value range 0-10V	:	1000
(7019) Priority ext. demand	:	LOW PRIORITY
(701A) External blocking effect HCP1	:	Control mode
(701A) External blocking effect HCP2	:	Control mode
(701A) External blocking effect HCP3	:	Control mode
(701A) External blocking effect sec. pump	:	Control mode
(701A) External blocking effect CPP	:	Control mode
(701B) System flow sensor	:	No
* (701C) Operation after error	:	Standard mode
(701D) Main mode manual	:	2
* (7020) Time factor message statistics	:	30
(7021) Threshold 1 message statistics	:	0
(7022) Threshold 2 message statistics	:	1
(7023) Threshold 3 message statistics	:	20
(7024) Threshold 4 message statistics	:	20
(7025) Threshold 5 message statistics	:	20
(7026) Start strategy DHW circuit	:	0: Starting according to output specification
* (7027) Start strategy heating	:	3: Starting according to return or flow integral and set cylinder integral
* (7028) Start strategy cooling	:	1: Starting according to return or flow integral
(7029) Number of lag heat pumps	:	0
(7030) Primary source is ice store	:	No
* (7031) Start hysteresis, solar air absorber	:	2 K
* (7032) Temperature zone absorber as alternative source	:	2 K
(7033) Minimum temperature absorber as alternative source	:	-50 °C
* (7034) Average ground temperature for summer mode	:	4 °C
* (7035) Minimum idle time, summer mode	:	60
(7036) Last calendar week, summer mode	:	35
(7037) Absorber pump fault	:	0
(7038) Dual mode sensor shunting	:	0

### 2.1.5.2 Compressor 1

(5000) Compressor stage enabled	:	Yes
* (5001) Max flow temperature heat pump	:	61 °C
(5002) Min return temperature heat pump	:	5 °C
(5003) Second minimum return temperature	:	40 °C
* (5004) Hysteresis temp primary ON	:	2 K
(5005) Heat pump runtime	:	120 Seconds
(5006) Dead time heat pump	:	600 Seconds
(5008) Start delay	:	120 Seconds
* (500A) Optimum runtime heat pump	:	10 Minutes
(500B) Cod1 defrost time heat pump	:	1800 Seconds
(500C) Max. pause defrost start	:	0 Seconds
(500D) Block defrost heat pump	:	90 Minutes
(500E) Temperature differential evaporator heat pump	:	3 K
(500F) Defrost start temperature	:	0 °C
* (5010) Defrost stop temperature	:	15 °C
(5011) Temperature differential calculation	:	0
* (5012) Enable compressor stage for hydraulic circuit	:	15
(5013) Average idle time for silent defrosting	:	30 Minutes
(5014) Max. defrost outside temp.	:	40 °C
* (5015) Max. temperature primary ON heat pump	:	20 °C
* (5016) Min. temperature primary ON heat pump	:	-8 °C
* (502C) Outside temperature limit during defrost	:	-2.5 °C
(502D) Time until air inlet temperature limit valid	:	300 Seconds
* (5030) Output compressor	:	10
(5033) Defrost heating time	:	180 Seconds
* (5043) Primary source output (in W)	:	75
(504F) Max. compressor runtime in frost range	:	24 Hours

### 2.1.5.3 Compressor 1 EEV

* (5080) Max. temperature differential evaporator and condenser.	:	62 K
(5081) Min. temperature differential evaporator and condenser.	:	-50 K
(5082) Fan stage delay	:	30 Seconds
(5083) Fan runtime at defrost end	:	120 Seconds
(5084) Defrost integral min. RT 1	:	1 K
(5085) Defrost integral min. RT 2	:	4 K
* (5086) Minimum intake pressure	:	1.5 Bar
(5087) Minimum evaporation temperature	:	0 K
(5088) Evaporation temperature limit	:	50 °C
(5089) Condensation temperature limit	:	65 °C
(508A) Condensation temperature limit 2	:	0 °C
(508B) Minimum compressor output	:	10 %
(508C) Maximum compressor output	:	100 %
* (5090) Set superheating value	:	3 K
(5091) PWM cycle time	:	20 Seconds
* (5092) MOP limit 2	:	6.6 Bar
(5093) Opening position	:	30 %
(5094) Start opening duration	:	5 Seconds
(5095) Hot gas temperature limit	:	130 °C
* (5097) MOP limit	:	12.5 Bar
* (5098) High pressure limit	:	41 Bar
* (5099) Low pressure limit	:	3 Bar
(50EB) Correction factor energy statement	:	100
(5211) High pressure dead zone	:	5 Bar
(5212) Superheating temperature limit	:	20 °C
* (5214) Low pressure hysteresis	:	1.5 Bar
* (5215) Low pressure delay	:	10 Seconds
(5221) Set hot gas temperature	:	68 °C
(5222) Compressor differential dead zone	:	8 K
(5223) Set EVI superheating temperature	:	6 °C
(5280) Defrost enable through EEV controller	:	OFF
(5281) Compressor speed in changeover valve mode	:	30 rps
(5282) Compressor speed in defrost mode	:	90 rps
(5283) Compressor acceleration	:	20
(5284) Changeover valve defrost start delay	:	20 Seconds
(5285) Maximum defrost time	:	20 Minutes
(5286) Compressor application range delay	:	180 Seconds
(5287) Reversing valve defrost end delay	:	60 Seconds
(5288) Set position EEV	:	480
(528F) Speed reduction	:	20
(5290) Prop. superheating controller	:	80
(5291) LOP limit	:	2
(5292) LOP integral	:	150
(5293) LowSH minimum superheating	:	30
(5295) Superheating controller delay	:	10
(5296) MOP integral value	:	200
(5298) Superheating controller run-on time	:	250 Seconds
(5299) Delay compressor limits	:	60 Seconds
(529E) Low pressure delay	:	30 Seconds



#### 2.1.5.4 DHW

* (6000) Select temperature	:	48 °C
(6005) Minimum temperature DHW cylinder	:	10 °C
(6006) Maximum temperature DHW cylinder	:	60 °C
* (6007) DHW hysteresis	:	6 K
(6008) Hysteresis DHW emergency	:	10 K
* (6009) Start optimisation	:	No
* (600A) Stop optimisation	:	No
* (600C) Second set value	:	49 °C
(600E) Temperature sensor 2	:	No
(600D) Temperature rise (in K/h)	:	30
(600F) Cylinder reaction force	:	AT ANY TIME
(6010) DHW priority	:	Yes
(6011) Max. runtime	:	240 Minutes
(6012) Max. interruption	:	90 Minutes
(6014) Elec. heater DHW cylinder	:	No
* (6015) DHW with electric heating	:	Yes
* (6016) Combi cylinder (HC block DHW)	:	0: HC still enabled during DHW mode
(6017) No. of attempts DHW	:	1
(6018) Dual mode temperature DHW	:	60 °C
(6019) Hysteresis DHW 1	:	8 °C
(601A) Hysteresis DHW 2	:	3 °C
(601B) Hysteresis DHW 3	:	2 °C
(601C) Optimum output DHW	:	100
(601D) Optimum DHW output	:	100
* (601E) Shutdown hysteresis electric heater	:	1 K
(601F) Enable cylinder primary pump	:	No
(6020) PWM control cylinder primary pump	:	0: None
(6021) Minimum output cylinder primary pump	:	25 %
(6022) Maximum output cylinder primary pump	:	100 %
(6023) Rated output cylinder primary pump	:	50 %
(6024) Proportional component output controller cylinder primary pump	:	0 %
(6025) Lead time output controller cylinder primary pump	:	0 Seconds
(6026) Run-on time output controller cylinder primary pump	:	160 Seconds
(6027) Temperature differential output controller cylinder primary pump	:	5 K
(6028) Set temperature value output controller cylinder primary pump	:	40 °C
* (6029) Shutdown differential, heating mode	:	2 K
(6030) Curve cylinder primary pump minimum	:	0 %
(6031) Curve cylinder primary pump maximum	:	100 %
(6032) Cylinder primary pump non-standard profiles	:	0
(6040) Electric heating or ext. HS only for reheating	:	No

### 2.1.5.5 Electric heater

(7900) Installed	:	Yes
* (7902) Electric heating mode	:	No
(7904) Max. flow temperature electric	:	65 °C
(7905) Dead time start electric	:	30
* (7907) Max. stage electric	:	3: Instantaneous water heaters 1 and 2
(7908) Blocking time elec. heating	:	0
(7909) Elec. heating stage block power failure	:	0: 3 kW
(790A) Elec. heating stage power-OFF	:	0: No stages are enabled
(790B) Bivalence temperature instantaneous water heater	:	50 °C
(790C) Output el. heating stage 1	:	3 kW
(790D) Output el. heating stage 2	:	6 kW

### 2.1.5.6 Hydraulics

(7300) Heat pump for drying buildings	:	No
(7303) Screed program	:	0: None
* (7304) Flow hysteresis	:	0.5 K
(7309) Run-on compressor	:	120 Seconds
(730B) Run-on hydraulics circuit	:	120 Seconds
(730C) Flow set temperature ext. demand	:	50 °C
* (730D) Enable 3-way diverter valve heating/DHW	:	Yes
* (730E) Threshold el. heating	:	100
(730F) Optimum output at min. outside temperature	:	50 %
(7310) Optimum output at max. outside temperature	:	20 %
* (7313) Hysteresis flow OFF	:	0.5 °C
(7314) Optimum output time	:	120 Seconds
(7315) Heating output controller proportional component	:	50 %
(7316) Heating controller run-on time	:	120 Minutes
(7317) Heating controller lead time	:	0 Minutes
(7318) Control strategy heating mode	:	0: Regulate to return with return integral
(7319) Cycle rate, heating circuit pumps	:	0
(731C) Outside temperature limit, constant operation, heating circuit pumps	:	-10 °C
(731D) Outside temperature limit, cycling, heating circuit pumps	:	10 °C
* (7340) PWM control actuator secondary source	:	2: Fixed value
* (7341) Minimum output secondary pump	:	60 %
(7342) Maximum output secondary pump	:	90 %
* (7343) Rated output secondary pump	:	90 %
(7344) Proportional component output controller secondary pump	:	0 %
(7345) Lead time output controller secondary pump	:	0 Seconds
(7346) Run-on time output controller secondary pump	:	120 Seconds
* (7347) Temperature differential output controller secondary pump	:	5 K
(7348) Set temperature value output controller secondary pump	:	30 °C
(7350) Curve secondary pump (min)	:	0 %
(7351) Curve secondary pump (max)	:	100 %
(7352) Secondary pump non-standard profiles	:	0
(7363) Minimum flow rate, secondary circuit	:	0 cbm/h
(7364) Delay time, flow limiter	:	30 Seconds
(7365) Delay time, pumps	:	5 Seconds
(7370) Block, pump kick	:	0
(7378) Screed program start day	:	1 Days
(7379) Screed program end day	:	31 Days
(73C0) Secondary pump type	:	0: None

### 2.1.5.7 Heating circuit HC1

* (2000) HC1 standard room temperature	:	22 °C
* (2001) HC1 reduced room temperature	:	22 °C
(2003) HC1 remote control	:	No
(2005) HC1 room control	:	No
* (2006) HC1 level heating curve	:	-1 K
* (2007) HC1 slope heating curve	:	0.2
* (2009) HC1 integral component room controller	:	100
(200A) HC1 slope room hook-up	:	1
* (200B) HC1 room temperature hook-up	:	0: Without
(200D) HC1 max. flow corrections	:	10 K
(200E) HC1 max. flow temperature heating circuit	:	40 °C
* (200F) HC1 min. flow temperature heating circuit	:	15 °C
(2010) HC1 DHW with party function	:	Yes
(2011) HC1 heating circuit reaction force	:	2: At any time
(2012) HC1 max. excess Troom	:	5 °C
* (2014) HC1 level HC mixer	:	0 K
(2015) HC1 runtime HC mixer	:	125 Seconds
(2018) HC1 active zone heating circuit mixer	:	4 K
(2019) HC1 dead zone heating circuit mixer	:	1 K
(2022) Room temperature in party mode	:	20 °C

### 2.1.5.8 Ventilation

(7D00) Enable Vitovent	:	OFF
(7D01) Enable preheater bank, electric	:	OFF
(7D02) Enable reheater bank, hydraulic	:	OFF
(7D03) Enable ventilation	:	No
* (7D04) Target temperature control	:	No
(7D05) Enable humidity sensor	:	OFF
(7D06) Enable CO2 sensor	:	OFF
(7D07) Differential pressure switch can respond	:	OFF
(7D08) Extract air temperature with standard ventilation	:	20 °C
(7D09) Min. flow rate, supply air fan	:	85
(7D0A) Flow rate, basic ventilation	:	120
(7D0B) Flow rate, reduced ventilation	:	170
(7D0C) Flow rate, nominal ventilation	:	215
(7D0E) Max. flow rate fan	:	280
(7D0F) Min. supply air temperature	:	16 °C
(7D10) Hysteresis shutdown el. heating coil	:	12 K
(7D11) Fan lead time for el. heating coil	:	60 Seconds
(7D12) Fan run-on time for el. heating coil	:	60 Seconds
(7D13) Min. temp. air intake HE	:	2 °C
* (7D14) Min. temp. exhaust air	:	3.5 °C
(7D15) Hysteresis, outdoor air temp for bypass	:	4 K
(7D16) Fan readjustment if deviation from 2set	:	1 K
(7D17) Exhaust air temp. limit	:	2 °C
(7D18) CO2 limit (ppm)	:	800 ppm
(7D19) Humidity limit (%)	:	65 %
(7D1A) Fan interval time if extract air temp too low	:	15 Minutes
(7D1B) Duration maximum ventilation	:	120 Minutes
(7D1C) Selection of fan curve	:	0
* (7D1D) Ranking room sensor	:	1
(7D1E) P component, room controller	:	100
(7D1F) Run-on time, room controller	:	120
(7D20) Excess supply air temperature	:	5 K
(7D21) Suppression, heat demand	:	7
(7D23) Min. measuring range CO2 sensor	:	0 ppm
(7D24) Max. measuring range CO2 sensor	:	2000 ppm
(7D25) Min. measuring range humidity sensor	:	30 %
(7D26) Max. measuring range humidity sensor	:	80 %
(7D27) Offset fan control voltage	:	0 V
(7D28) Offset control voltage affects	:	0
(7D29) Limit for increasing OV after frost protection	:	85 %
(7D2A) Time to OV adjustment at PHR=100 and frost	:	600 Seconds
(7D2E) Heat exchanger type	:	0: Model 0
(7D3A) Function external input	:	0: No function

### 2.1.5.9 Photovoltaics

(7E00) Enable optimisation, own consumption	:	No
(7E02) External current proportion	:	10 %
(7E03) DHW heat-up statistics as condition for PV charging	:	OFF
(7E04) Electrical output threshold	:	0 kW
(7E05) Preview time set heating buffer	:	300 Minutes
(7E10) Enable optimisation, pasteurisation	:	OFF
(7E11) Enable optimisation, DHW	:	OFF
(7E12) Enable optimisation, buffer cylinder	:	OFF
(7E13) Enable optimisation, heating	:	OFF
(7E14) Enable optimisation, swimming pool	:	OFF
(7E15) Enable optimisation, cooling	:	OFF
(7E16) Enable optimisation, coolant cylinder	:	OFF
(7E17) Enable weather data	:	OFF
(7E21) DHW temperature, set differential PV	:	0 K
(7E22) Heating water buffer cylinder, set differential PV	:	0 K
(7E23) Heating, set differential PV	:	0 K
(7E24) Swimming pool, set differential PV	:	0 K
(7E25) Cooling, set differential PV	:	0 K
(7E26) Coolant buffer cylinder, set differential PV	:	0 K

### 2.1.5.10 Primary source

(7400) Operating mode, primary source	:	0: None
(7401) Primary source drive control	:	0: Fixed speed
(7402) PS output at min. compressor output	:	10 %
(7403) PS output at 1/3 above min. compressor output	:	40 %
(7404) PS output at 2/3 above min. compressor output	:	70 %
(7405) PS output at max. compressor output	:	100 %
(7406) Minimum output, primary source	:	10 %
(7407) Maximum output, primary source	:	100 %
(7408) PS output at min. outside temp	:	10 %
(7409) PS output at 1/3 above min. outside temp	:	40 %
(740A) PS output at 2/3 above min. outside temp	:	70 %
(740B) PS output at max. outside temp	:	100 %
(7410) Temperature differential, primary circuit	:	4 K
(7411) Prop. output controller PS	:	40 %
(7412) Run-on time, output controller PS	:	30
(7413) Lead time, output controller PS	:	0
(7414) Start output, primary source	:	50 %
(7415) Maintaining temperature t0	:	0 °C
(7416) Shutdown temperature t0	:	-4 °C
* (7417) Proportional component t0 control	:	0 %
* (7418) Run-on time t0 control	:	0 Seconds
(7420) Curve, primary source min.	:	0 %
(7421) Curve, primary source max.	:	100 %
(7422) Primary source, non-standard profiles	:	0
(7423) Max. night fan speed slightly reduced	:	79 %
(7424) Max. night fan speed significantly reduced	:	49 %
(7425) Max. fan speed in MOP mode	:	79 %

### 2.1.5.11 Communication

(7707) Heat pump number in cascade	:	1
(7710) LON objects comm. module_LON_found	:	No
(7777) LON objects field BUS subscriber number	:	1
(7779) LON objects fault manager	:	No
(7798) LON objects system number	:	1
(779C) LON objects field BUS receive heartbeat	:	20 Minutes
(77FC) Source, outside temperature	:	0: Local
(77FE) Source, time	:	0: Local
(77FF) LON objects field BUS time distribution	:	0: Local
(77FD) Distribution outside temperature	:	0: Local
(7800) Modbus enabled	:	5
(7807) Modbus 2 (slave) port parameter	:	5
(7808) Modbus 2 (slave) address	:	1
(7814) Modbus parameter EEV 1	:	5
(7815) Modbus parameter EEV 2	:	5
(7819) Modbus parameter energy meter	:	5
(781A) Modbus parameter Vitovent	:	5
(781B) Modbus parameter cascade	:	5
(7824) Modbus address EEV 1	:	30
(7825) Modbus address EEV 2	:	31
* (7829) Modbus address energy meter	:	60
* (782A) Modbus address Vitovent	:	70
* (782B) Modbus address cascade (lag HP)	:	90

### 2.1.6 Parameter comparison

Parameter	Delivered condition	Current value
(7011) Operating mode changeover to HC	11: No changeover	0: DHW
(7003) Hysteresis heating limit	: 4 K	7 K
(700B) Output lag heat pump	: 1	10
(7007) Primary pump natural cooling	: No	Yes
(7902) Electric heating mode	: Yes	No
(7907) Max. stage electric	: 2: Instantaneous water heaters 1 and 2	3: Instantaneous water heaters 1 and 2
Elec. heating stage	:	0
(7B07) Ext. HS runtime	: 120	10
(7B06) Ext. HS min. runtime	: 120	20
(7B05) Ext. HS temperature mixer	: 20 °C	0 °C
(2009) HC1 integral component room controller	: 10	100
(200F) HC1 min. flow temperature heating circuit	: 10 °C	15 °C
(2007) HC1 slope heating curve	: 0,6	0.2
(2006) HC1 level heating curve	: 0 K	-1 K
(2014) HC1 level HC mixer	: 2 K	0 K
(2000) HC1 standard room temperature	: 20 °C	22 °C
(200B) HC1 room temperature hook-up	: 3: Standard & reduced mode	0: Without
(2001) HC1 reduced room temperature	: 14 °C	22 °C
(300D) HC2 max. flow corrections	: 100 K	10 K
(3007) HC2 slope heating curve	: 0,6	0.6
(3014) HC2 level HC mixer	: 2 K	0 K
(300B) HC2 room temperature hook-up	: 3: Standard & reduced mode	0: Without
(3001) HC2 reduced room temperature	: 14 °C	16 °C

Parameter	Delivered condition	Current value
(4009) HC3 integral component room controller	: 10	100
(400D) HC3 max. flow corrections	: 100 K	10 K
(4007) HC3 slope heating curve	: 0,6	0.6
(4014) HC3 level HC mixer	: 2 K	0 K
(400B) HC3 room temperature hook-up	: 3: Standard & reduced mode	0: Without
(4001) HC3 reduced room temperature	: 14 °C	16 °C
(7304) Flow hysteresis	: 2 K	0.5 K
(7103) Natural cooling min flow temperature	: 10 °C	20 °C
(7109) Natural cooling with mixer	: No	Yes
(5004) Hysteresis temp primary ON	: 5 K	2 K
(5030) Output compressor	: 6	10
(5015) Max. temperature primary ON heat pump	: 35 °C	20 °C
(5016) Min. temperature primary ON heat pump	: -15 °C	-8 °C
(500A) Optimum runtime heat pump	: 120 Minutes	10 Minutes
(5001) Max flow temperature heat pump	: 60 °C	61 °C
(5010) Defrost stop temperature	: 10 °C	15 °C
(5000) Compressor stage enabled	:	Yes
Compressor2 temperature differential evaporator heat pump	: 3 K	30 K
Compressor2 hysteresis temp primary ON	: 5 K	50 K
Compressor2 runtime heat pump	: 120 Seconds	180 Seconds
Compressor2 output compressor	: 6	0
Compressor2 max. temperature primary ON heat pump	: 350 °C	20 °C
Compressor2 max temp rise heat pump	: 80 °C	384 °C
Compressor2 min. temperature primary ON heat pump	: -150 °C	-3 °C
Compressor2 min return temperature heat pump	: 5 °C	12 °C
Compressor2 temperature defrost end	: 100 °C	15 °C
Compressor2 compressor stage enabled	:	No
(600A) Stop optimisation	: Yes	No
(6009) Start optimisation	: Yes	No
(6007) DHW hysteresis	: 7 K	6 K
(600C) Second set value	: 60 °C	49 °C
(6000) Select temperature	: 50 °C	48 °C
(7100) Cooling	:	Cooling on HC1
(7B0E) Ext. HS dual mode operation	: No	Yes
(502C) Outside temperature limit during defrost	: -2,5 °C	-2.5 °C
Outside temperature limit during defrost	: -2,5 °C	-2.5 °C
Ext. heat pump runtime compensation	: Yes	No
(7313) Hysteresis flow OFF	: 0 °C	0.5 °C
(7317) Heating controller lead time	:	0 Minutes
(7340) PWM control actuator secondary source	: 0: None	2: Fixed value
(7341) Minimum output secondary pump	: 0 %	60 %
(7343) Rated output secondary pump	: 100 %	90 %
(7347) Temperature differential output controller secondary pump	: 50 K	5 K
(6016) Combi cylinder (HC block DHW)	: 1: HC blocked during DHW mode	0: HC still enabled during DHW mode
(6015) DHW with electric heating	: No	Yes

Parameter	Delivered condition	Current value
(730D) Enable 3-way diverter valve heating/DHW	: No	Yes
Holidays start HC1	: 01.01.1970	1/1/1970 12:00:00 AM
Holidays end HC1	: 01.01.1970	1/1/1970 12:00:00 AM
Holidays start HC2	: 01.01.1970	1/1/1970 12:00:00 AM
Holidays end HC2	: 01.01.1970	1/1/1970 12:00:00 AM
Holidays start HC3	: 01.01.1970	1/1/1970 12:00:00 AM
Holidays end HC3	: 01.01.1970	1/1/1970 12:00:00 AM
(5012) Enable compressor stage for hydraulic circuit	: 3	15
(5112) Enable compressor stage for hydraulic circuit	: 3	14
(7D04) Target temperature control	: Yes	No
(7D1D) Ranking room sensor	: 0	1
(7417) Proportional component t0 control	: 40 %	0 %
(7418) Run-on time t0 control	: 30 Seconds	0 Seconds
(7829) Modbus address energy meter	: 69	60
(782A) Modbus address Vitovent	: 79	70
(782B) Modbus address cascade (lag HP)	: 99	90
(730E) Threshold el. heating	: 300	100
(7032) Temperature zone absorber as alternative source	: 20 K	2 K
(7027) Start strategy heating	: 2: Starting according to set cylinder integral	3: Starting according to return or flow integral and set cylinder integral
(7028) Start strategy cooling	: 2: Starting according to set cylinder integral	1: Starting according to return or flow integral
(7020) Time factor message statistics	: 20	30
(5043) Primary source output (in W)	: 0	75
(5080) Max. temperature differential evaporator and condenser.	: 60 K	62 K
(5086) Minimum intake pressure	: 2,2 Bar	1.5 Bar
(5090) Set superheating value	: 6 K	3 K
(5092) MOP limit 2	: 6,6 Bar	6.6 Bar
(5097) MOP limit	: 50 Bar	12.5 Bar
(5098) High pressure limit	: 27,7 Bar	41 Bar
(5099) Low pressure limit	: 4 Bar	3 Bar
(5214) Low pressure hysteresis	: 1,5 Bar	1.5 Bar
(5215) Low pressure delay	: 30 Seconds	10 Seconds
(601E) Shutdown hysteresis electric heater	: 0 K	1 K
(7D14) Min. temp. exhaust air	: 2 °C	3.5 °C

## 2.1.7 Plant diagnosis



### 2.1.7.1 System

Outside temperature	:	-11.4 °C
Average outside temperature	:	-11.9 °C
System flow set temperature	:	30.8 °C
* Operating status	:	Control mode
* Heating season HC1	:	Yes
Operating mode buffer cylinder	:	Standby mode
Relay status M2 mixer CLOSED	:	Heating
Mixer ext. heat source status	:	NOT AVAILABLE
Mixer ext. HS	:	Control mode
Control ext. heat source	:	0 Hours
CENTRAL FAULT	:	OFF
Coding card	:	38
(7777) LON objects field BUS subscriber number	:	1
Ext. hook-up 0..10 V	:	0 %
Date and time HPCU	:	11/25/2023 9:22:05 PM
System scheme	:	2: 1 HC + DHW
Drying buildings HC1	:	0
Demand swimming pool	:	No demand
* Frost protection HC1	:	Yes
Frost protection HC2	:	No
Frost protection HC3	:	No
	:	65
	:	02

### 2.1.7.2 Heat pump

Secondary pump	:	ON
Relay status 3-way valve heating/DHW1	:	Heating
Compressor 1	:	17095.82 Hours
Compressor 1	:	28723
Elec. heating stage 1	:	OFF
Elec. heating stage 1	:	0.65 Hours
Elec. heating stage 2	:	OFF
Elec. heating stage 2	:	0.63 Hours
Flow temperature primary source	:	7.2 °C
Return temperature primary source	:	7 °C
Flow temperature secondary 1	:	25 °C
Return temperature secondary 1	:	25.3 °C
Access authorization time program reduced noise mode	:	0: Customer
Compressor	:	OFF
Primary source 1 (fan or primary pump)	:	OFF

### 2.1.7.3 Heating circuit 1

Operating mode HC1	:	2 - heating/cooling/DHW
Operating mode heating circuit 1	:	Auto
Set room temperature heating circuit 1	:	22 °C
Demand HC1	:	Average demand
* (2000) HC1 standard room temperature	:	22 °C
* (2001) HC1 reduced room temperature	:	22 °C
(2022) Room temperature in party mode	:	20 °C
* (2007) HC1 slope heating curve	:	0.2
* (2006) HC1 level heating curve	:	-1 K
Heating circuit pump HC1	:	ON
Flow temperature secondary 1	:	25 °C
Flow temp Set	:	30.8 °C
Heating circuit 1 cooling function available	:	No
Holiday program HC1	:	OFF
Party mode HC1	:	OFF
Economy mode HC1	:	OFF
Heating circuit name	:	□□□□□□□□□□□□□□□□□□□□□□□□
Valid operating mode, HC2	:	OFF
Valid operating mode, HC3	:	OFF
Valid cooling circuit operating mode	:	OFF
Valid operating mode, buffer cylinder	:	OFF
Valid operating mode, DHW	:	OFF
Valid operating mode, swimming pool	:	OFF
Valid operating mode, HCFDM	:	OFF
Valid operating mode, CFDM	:	OFF
Valid operating mode, coolant buffer	:	OFF
Curr. operating mode, HC2	:	OFF
Curr. operating mode, HC3	:	OFF
Curr. cooling circuit operating mode	:	OFF
Curr. operating mode, DHW	:	OFF
Curr. operating mode, ventilation	:	OFF
Curr. operating mode, buffer cylinder	:	OFF
Curr. operating mode, coolant buffer	:	OFF
Curr. operating mode, swimming pool	:	OFF
Curr. operating mode, system	:	OFF

### 2.1.7.4 DHW

Operating mode DHW	:	Operating mode_reduced
* (6000) Select temperature	:	48 °C
DHW temperature top	:	47.5 °C
Cylinder primary pump	:	OFF
DHW circulation pump	:	OFF
Cylinder reheating	:	OFF
Cylinder reheating	:	0 Hours
Demand DHW	:	No demand
Set output DHW	:	0 %

### 2.1.7.5 Heat pump EEV1

EEV1 MOP set pressure 1	:	125
Set value overheating temperature	:	3 °C
Suction gas temperature EEV1	:	15.4 °C
LPG temperature EEV1	:	22.5 °C
EEV condenser pressure 1	:	3.4 Bar
EEV suction pressure 1	:	7.9 Bar
Set output compressor 1	:	100 %
Valve position	:	0 %
Status sensor valve position	:	Sensor OK

### 2.1.7.6 Runtime, compressor

Load class 1 compressor 1	:	2157 Hours
Load class 2 compressor 1	:	295 Hours
Load class 3 compressor 1	:	12612 Hours
Load class 4 compressor 1	:	776 Hours
Load class 5 compressor 1	:	1135 Hours
Load class 1 compressor 2	:	0 Hours
Load class 2 compressor 2	:	0 Hours
Load class 3 compressor 2	:	0 Hours
Load class 4 compressor 2	:	0 Hours
Load class 5 compressor 2	:	0 Hours

### 2.1.7.7 Energy statement

Seasonal performance factor heating	:	1.7
Seasonal performance factor DHW	:	1.5
Seasonal performance factor	:	1.7
SPF cooling	:	0

### 2.1.7.8 Temperature sensors

Outside temperature	:	-11.4 °C
Flow temperature primary source	:	7.2 °C
Return temperature primary source	:	7 °C
Flow temperature secondary 1	:	25 °C
Return temperature secondary 1	:	25.3 °C
Hot gas temperature 1	:	24.6 °C
DHW temperature top	:	47.5 °C
Flow temperature cooling circuit	:	0 °C
Room temperature cooling circuit	:	0 °C
Status, sensor, overheating temperature	:	Sensor OK
Sensor status, flow temperature primary source	:	Sensor OK
Sensor status, return temperature primary source	:	Sensor OK
Sensor status, secondary flow temperature	:	Sensor OK
Sensor status, secondary return temperature	:	Sensor OK
Sensor status, liquid gas temperature	:	Sensor OK
Sensor status, liquid gas temperature rev.	:	Sensor not available
Sensor status, evaporation temperature target	:	Sensor OK
Sensor status, evaporation temperature actual	:	Sensor OK
Sensor status, condensation temperature	:	Sensor OK
Sensor status, suction gas temperature	:	Sensor OK
Sensor status, hot gas temperature	:	Sensor OK
Sensor status, overheating target	:	Sensor OK
Sensor status, overcooling actual	:	Sensor OK
Sensor status, suction gas pressure	:	Sensor OK
Sensor status, hot gas pressure	:	Sensor OK
Sensor status, speed primary source	:	Sensor not available
Sensor status, speed secondary pump	:	Sensor OK
Sensor status, speed HW pump	:	Sensor OK
Sensor status, compressor output	:	Sensor not available
Sensor status, position ECV	:	Sensor OK
Sensor status, position AHX	:	Sensor not available
Sensor status, position PHX	:	Sensor not available
Sensor status, header fill level	:	Sensor not available
Sensor status, SPL pump speed	:	Sensor not available
Sensor status, overcooling target	:	Sensor not available
Sensor status, header temperature	:	Sensor not available
Sensor status, overheating target	:	Sensor not available
Sensor status, overheating actual	:	Sensor not available

### 2.1.7.9 Signal inputs

External demand	:	OFF
External blocking	:	OFF
Reheating suppression	:	OFF
Fault, lag heat pump	:	OFF
Power-OFF	:	OFF
Three-phase monitor	:	OFF
Primary pump/fan 1	:	OFF
Primary pump/fan 2	:	OFF
Safety HP compressor 1	:	OFF
Safety HP compressor 2	:	OFF
Low pressure compressor 1	:	OFF
Low pressure compressor 2	:	OFF
Control high pressure compressor 1	:	OFF
Control high pressure compressor 2	:	OFF
Comp 1 motor protection	:	OFF
Comp 2 motor protection	:	OFF
Flow limiter	:	OFF
Demand swimming pool	:	OFF

### 2.1.8 System diagnosis

#### 2.1.8.1 Device data

Date and time HPCU	:	11/25/2023 9:22:05 PM
System scheme	:	2: 1 HC + DHW
Device version (CU-ID)	:	4B
Device class	:	0
Hardware index of the device	:	4
Software index of control unit	:	18
Protocol version LDAP	:	0
Protocol version RDAP	:	0
Software version byte 1	:	4
Software version byte 2	:	70
Serial number control unit	:	????????????????
Serial number boiler	:	7501997201038105
Coding card	:	38
	:	VC 333-G
	:	WPR_3470
	:	1467374400
	:	65
	:	02

#### 2.1.8.2 System equipment

HC1 available	:	Yes
HC2 available	:	No
HC3 available	:	No
Electric heater available	:	Yes
HP stage 2 available	:	No
External heat source available	:	No
Buffer cylinder available	:	No
DHW cylinder available	:	Yes
DHW circulation pump available	:	Yes
Internal solar circuit available	:	No
Vitosolic 100 available	:	No
Vitosolic 200 available	:	No
Ext. extension H1 available	:	No

Heating circuit with cooling function available	:	No
Separate cooling circuit available	:	No
Active cooling available	:	No
LON module available	:	No
Swimming pool available	:	No
EEV1 available	:	Yes
EEV2 available	:	No
Remote control HC1 available	:	No
Remote control HC2 available	:	No
Remote control HC3 available	:	No
Heating circuit 1 cooling function available	:	No
Heating circuit 2 cooling function available	:	No
Heating circuit 3 cooling function available	:	No
Solar module SM1 available	:	No
Coolant buffer available	:	No
Ice store available	:	No
Ventilation available	:	No
Extension AM1 available	:	No
Extension EA1 available	:	No
PV available	:	No
Cylinder primary pump available	:	No
Humidity sensor available	:	Yes
Preheater bank available	:	No
Mixer cooling buffer	:	NOT AVAILABLE
Mixer cooling	:	NOT AVAILABLE
Mixer HC2	:	NOT AVAILABLE
Mixer HC3	:	NOT AVAILABLE
Energy statement compressor 1	:	Yes
Energy statement compressor 2	:	No
Relay compressor 2	:	NOT AVAILABLE
Relay primary source 2	:	NOT AVAILABLE
Relay secondary pump 2	:	NOT AVAILABLE
Relay valve heating/DHW 2	:	NOT AVAILABLE
Equipment feature, hybrid	:	No
Advanced function of external heat source	:	No
Cascade active	:	No
Reheater coil installed	:	No
Equipment feature hybrid oil	:	No
Equipment feature SGReady	:	No
Equipment feature, split based on Gree	:	No
Extended cooling schemas equipment feature	:	No
Joint heating cooling buffer equipment feature	:	No
Ventilation equipment feature Vitovent 300F	:	No
Ventilation equipment feature Vitovent 200C	:	No
Equipment feature EEV1 Gree	:	No
Equipment feature, split based on Airwell	:	No
PM cooling schemas extended	:	No
Equipment feature, split based on Emerson	:	No

### 2.1.8.3 System overview

Outside temperature	:	-11.4 °C
Relay status 3-way valve heating/DHW1	:	Heating
Elec. heating stage 1	:	OFF
Elec. heating stage 2	:	OFF
Secondary pump	:	ON
Hot gas temperature 1	:	24.6 °C
Relay status control ext. heat source	:	OFF
Mixer ext. heat source status	:	NOT AVAILABLE
Cylinder reheating	:	OFF
DHW temperature top	:	47.5 °C
* (6000) Select temperature	:	48 °C
Cylinder primary pump	:	OFF
DHW circulation pump	:	OFF
Set temp buffer cylinder	:	0 °C
Set room temperature heating circuit 1	:	22 °C
Heating circuit pump HC1	:	ON
Flow temp Set	:	30.8 °C
Set room temperature heating circuit 2	:	0 °C
Heating circuit pump HC2	:	OFF
Flow temp Set	:	0 °C
Set room temperature heating circuit 3	:	0 °C
Heating circuit pump HC3	:	OFF
Flow temp Set	:	0 °C
Room temperature cooling circuit	:	0 °C
Set temp cooling circuit	:	0 °C
Flow temperature cooling circuit	:	0 °C
Relay status natural cooling control	:	OFF
Active cooling	:	OFF
Relay status refrigerant circuit reversal	:	OFF
Secondary pump	:	100 %
Secondary pump 2	:	0 %
Set temp DHW	:	48 °C
(701B) System flow sensor	:	No
Mixer ext. heat source set temperature	:	10 °C
Mixer cooling circuit natural cooling set temperature	:	100 °C
Mixer separate natural cooling circuit set temperature	:	10 °C
CENTRAL FAULT	:	OFF
Relay status lag heat pump 1 cascade	:	OFF
Relay status lag heat pump 2 cascade	:	OFF
Relay status lag heat pump 3 cascade	:	OFF
Relay status lag heat pump 4 cascade	:	OK
Primary pump	:	ON
Primary pump switched output	:	50 %
Secondary pump	:	ON
Secondary pump switched output	:	100 %
Primary pump 2	:	OFF
Primary pump 2 switched output	:	0 %
Secondary pump 2	:	OFF
Secondary pump 2 switched output	:	0 %
Inverter temperature	:	0 °C
Enable absorber pump	:	OFF
Relay status mixer OPEN for relay test	:	OFF
Output 22 available	:	No
Compressor	:	OFF
Primary source 1 (fan or primary pump)	:	OFF

#### 2.1.8.4 LON objects

External set flow temperature HC1	:	20 °C
Effective set room temperature HC1	:	22 °C
Current operating mode HC1	:	HVAC_AUTO
External set flow temperature HC2	:	20 °C
Effective set room temperature HC2	:	0 °C
Current operating mode HC2	:	HVAC_AUTO
External set flow temperature HC3	:	20 °C
Current operating mode HC3	:	HVAC_AUTO
Effective set room temperature HC3	:	0 °C
DHWC: Effective set DHW temperature	:	48 °C
Set system/boiler output - value	:	0 %
Set flow temperature systems/boilers	:	327.67 °C
Set flow temperature of heating circuit controllers	:	0 °C
Actual system output - value	:	0 %
Actual system flow/boiler water temperature	:	35 °C
Active set system/boiler temperature	:	30.8 °C
Output reduction required by consumers	:	0 %
* Operating mode - boiler	:	HVAC_NUL
Set boiler water temperature	:	327.67 °C
Boiler water temperature	:	34.9 °C
Effective set boiler water temperature	:	30.8 °C
* Operating mode system/boiler	:	HVAC_NUL
* Operating mode - with external default HC1	:	HVAC_NUL
* Operating mode - with external default HC2	:	HVAC_NUL
* Operating mode - with external default HC3	:	HVAC_NUL

#### 2.1.8.5 Integral

Integral electric heating SC1 (DHW)	:	0
Integral ext. HS SC1 (DHW)	:	0
Integral HPx SC1 (DHW)	:	0
Integral electric heating SC2 (HC)	:	0 °C
Integral ext. HS SC2 (HC)	:	0
Integral HPx SC2 (HC)	:	95
Integral electric heating SC3 (cool)	:	0
Integral ext. HS SC3 (cool)	:	0
Integral HPx SC3 (cool)	:	0
Integral HPx SC4 (pool)	:	0
Integral HPx buffer	:	0
Integral defrost	:	0



### 2.1.8.6 Timer

PUMP FLOW HP1	:	0 Seconds
Timer MIN RUNTIME HP1	:	0 Seconds
Timer OPT RUNTIME HP1	:	0 Seconds
Timer PUMP RUN-ON TIME HP1	:	0 Seconds
Timer BLOCKING TIME HP1	:	0 Seconds
Timer DEFROST HP1	:	0 Seconds
Timer DELAY NEW OM HP1	:	0 Seconds
Timer PUMP FLOW HP2	:	0 Seconds
Timer MIN RUNTIME HP2	:	0 Seconds
Timer OPT RUNTIME HP2	:	0 Seconds
Timer PUMP RUN-ON TIME HP2	:	0 Seconds
Timer BLOCKING TIME HP2	:	0 Seconds
Timer DEFROST HP2	:	0 Seconds
Timer DELAY NEW OM HP2	:	0 Seconds
Timer RUNTIME	:	0 Seconds
Timer BLOCKING TIME IVG HP	:	0 Seconds
Timer BLOCKING TIME IVG ELECTRIC	:	0 Seconds
Timer BLOCKING TIME IVG EXTHS	:	0 Seconds

### 2.1.8.7 Average pressures

Average condensation pressure compressor 1	:	12 Bar (absolute)
Average evaporation pressure compressor 1	:	6.5 Bar (absolute)
Average condensation pressure compressor 2	:	0 Bar (absolute)
Average evaporation pressure compressor 2	:	0 Bar (absolute)

### 2.1.8.8 State machine

Automatic status system ext. heat source	:	0
Automatic status system heating/cooling mode ext. heat pump 1	:	0
Automatic status system heating/cooling mode ext. heat pump 2	:	0
Automatic status system heating/cooling mode ext. heat pump 3	:	0
Automatic status system internal status DHW cylinder	:	0
Automatic status system LFD SC1	:	0
Automatic status system LFD SC2	:	1
Automatic status system LFD SC3	:	0
Automatic status system LFD SC4	:	1
Automatic status system PM SC1	:	0
Automatic status system PM SC2	:	1
Automatic status system PM SC3	:	0
Automatic status system PM SC4	:	0
Automatic status system HP1	:	0

### 2.1.9 Message history

Fault code	Message	Zeitpunkt
FF	Control unit restart	11/24/2023 6:06:00 PM
FF	Control unit restart	11/24/2023 5:03:00 PM
FF	Control unit restart	7/10/2023 7:09:00 AM
FF	Control unit restart	6/25/2023 8:43:00 AM

### 2.1.10 Extended diagnosis

### 2.1.10.1 KNX

LPG temperature	:	22.5 °C
Set evaporation temperature	:	14.8 °C
Actual evaporation temperature	:	-0.2 °C
Condensation temperature	:	-20.1 °C
Suction gas temperature	:	15.3 °C
Hot gas temperature	:	24.6 °C
Superheating set value	:	3 °C
Supercooling set value or calculated supercooling delta	:	-42.6 °C
Flow temperature primary source	:	7.1 °C
Return temperature primary source	:	6.8 °C
Secondary flow temperature	:	25 °C
Secondary return temperature	:	25.3 °C
LPG temperature	:	0 °C
LPG temperature rev. (refrigerant circuit 2)	:	0 °C
ECV position	:	29 %
Suction gas pressure	:	7.9 Bar
Hot gas pressure	:	4 Bar
Speed, secondary pump	:	100 %
Speed, DHW pump	:	0 %
Average primary input temperature	:	1 °C
Average sec. temperature return1	:	25.9 °C
Average sec. temperature return2	:	0 °C
Average sec. flow temperature	:	34.2 °C
Evaporation temp. Set value, refrigerant circuit 2	:	0 °C
Temp collector 2 (RC2)	:	0 °C
Superheating set value (for cooling or defrosting, RC2)	:	0 °C
Superheating actual value RC2	:	0 °C
Compressor output RC2	:	0 %
ECV position RC2	:	0 %
AHX valve position RC2	:	0 %
PHX valve position RC2	:	0 %
Collector fill level RC2	:	0 %
Compressor output RC2	:	2
Output, primary source	:	1
Output, secondary pump	:	1
Output, DHW pump	:	0
Compressor output	:	1
Output, refrigerant circuit reversal	:	2
Output, refrigerant circuit reversal RC2	:	2
Output, defrosting enabled RC2	:	2
Evaporation temp. Actual value RC2	:	-1.3 °C
Condensation temp. RC2	:	29.2 °C
Suction gas temperature RC2	:	0 °C
Hot gas temperature RC2	:	0 °C
Superheating set value RC2	:	0 °C
Superheating actual value RC2	:	0 °C
Supercooling actual value RC2	:	0 °C
Supercooling set value RC2	:	0 °C
Suction gas pressure RC2	:	0 Bar
Hot gas pressure RC2	:	0 Bar
Flow temperature, primary source RC2	:	0.5 °C
Primary source return temperature (RC2)	:	-4.1 °C
Secondary flow temperature (RC2)	:	0 °C
Secondary return temperature (refrigerant circuit 2)	:	0 °C
Speed, primary source (refrigerant circuit 2)	:	0 %
Speed, secondary pump RC2	:	0 %
Speed, DHW pump RC2	:	0 %
Speed, cylinder primary pump (refrigerant circuit 2)	:	0 %

Output, primary source RC2	:	2
Output, secondary pump RC2	:	2
Output, DHW pump (refrigerant circuit 2)	:	2
Evaporator temperature 2	:	0 °C
Outside temperature	:	-11.4 °C
Average outside temperature	:	-11.9 °C
DHW temperature top	:	47.5 °C
Room temperature cooling circuit	:	0 °C
Buffer outlet (regulated cascade)	:	0 °C
Elec. heating stage 1	:	OFF
Elec. heating stage 2	:	OFF
Elec. heating stage	:	0
Cylinder reheating	:	OFF
Relay status control ext. heat source	:	OFF
Active cooling	:	OFF
Heating circuit pump HC1	:	ON
Heating circuit pump HC2	:	OFF
Heating circuit pump HC3	:	OFF
DHW circulation pump	:	OFF
CENTRAL FAULT	:	OFF
Relay status natural cooling control	:	OFF
Relay status 3-way valve heating/DHW1	:	Heating
Cylinder primary pump	:	OFF
Fan stage 2	:	OFF
Relay status M2 mixer CLOSED	:	Heating
SM1: Collector circuit pump	:	OFF
Ext. heat source mixer OPEN	:	OFF
Relay status mixer OPEN for relay test	:	OFF
Alt. operation, ext. HS	:	OFF
Enable absorber pump	:	OFF
Solar circuit pump	:	OFF
Ext. hook-up 0..10 V	:	0 %
Set output compressor 1	:	100 %
Set output compressor 2	:	0 %
Compressor 1	:	17095.82 Hours
Primary source 1 (fan or primary pump)	:	18058.36 Hours
Primary source 2 (primary pump)	:	0 Hours
Secondary pump 1	:	53137.68 Hours
Secondary pump 2	:	0 Hours
Elec. heating stage 1	:	0.65 Hours
Elec. heating stage 2	:	0.63 Hours
Cylinder reheating	:	0 Hours
Control ext. heat source	:	0 Hours
Active cooling	:	0 Hours
Heating circuit pump A1	:	51123.85 Hours
HEATING CIRCUIT PUMP M2	:	0 Hours
Heating circuit pump M3	:	0 Hours
Switching output 7-day timer DHWCP	:	0 Hours
3-way valve heating/DHW1	:	2716.4 Hours
3-way valve heating/DHW2	:	0 Hours
Cylinder primary pump	:	0 Hours
Swimming pool_valve	:	0 Hours
Refrigerant circuit reversal	:	0 Hours
Natural cooling via HC mixer CLOSED	:	0 Hours
Ext. heat source mixer OPEN	:	0 Hours
Coolant buffer pump	:	0 Hours
Mixer OPEN for relay test	:	0 Hours
Mixer CLOSED for relay test	:	0 Hours
Enable absorber pump	:	0 Hours

Hybrid: Diverter valve, condensing module	:	0 Hours
Hybrid: Diverter valve, dual mode operation	:	0 Hours
Outdoor air temperature	:	0 °C
Supply air temperature	:	0 °C
Extract air temperature	:	0 °C
Exhaust air temperature	:	0 °C
Flow rate, supply air	:	0 m³/h
Flow rate, exhaust air	:	0 m³/h
CO2	:	0 %
Differential pressure, outdoor air filter P1	:	0
Differential pressure, extract air filter P3	:	0
Room differential pressure sensor	:	0
Electric preheater bank	:	0 %
Bypass	:	OFF
Filter service life, days	:	0 Days
Remaining time to restart after emergency shutdown	:	0 Seconds
Remaining time of restart after emergency shutdown	:	0 Seconds
Supply air fan voltage in 1/100 V	:	0 V
Exhaust air fan voltage in 1/100 V	:	0 V
Preheater output, switched	:	0
Currently valid operating stage	:	0
Set room temperature T-ETA-SET	:	0 °C
Flow rate control to	:	0
"Flag ""Restart""	:	0
Time to BS adjustment	:	0
Bypass status	:	0
PHR shut down by HLSC	:	0
Target temp control T3/bypass T3 set value	:	0
Heating program	:	Ventilation program
Effective active power, phase 1	:	0
Effective active power, phase 2	:	0
Effective active power, phase 3	:	0
Register error	:	0
Energy meter total, tariff 1 (High)	:	0 kWh
Energy meter total, tariff 1 (Low)	:	0 kWh
Energy meter total, tariff 2 (High)	:	0 kWh
Energy meter total, tariff 2 (Low)	:	0 kWh
Date and time HPCU	:	11/25/2023 9:22:05 PM
Operating mode heating circuit 1	:	Auto
Operating status	:	normal
Operating status	:	Standby
Operating mode heating circuit 2	:	OFF
Operating status	:	Standby
Operating mode heating circuit 3	:	OFF
Operating mode cooling circuit	:	OFF
Operating mode buffer cylinder	:	Standby mode
Operating mode DHW	:	Operating mode_reduced
Resulting heating circuit demand	:	Standby
Central demand	:	normal
Operating mode, coolant buffer	:	Standby
Valid ventilation, OM	:	0
Automatic status system HP1	:	OFF
Automatic status system HP2	:	OFF
State machine ext. HS	:	OFF
Holiday program HC1	:	OFF
Holiday program HC2	:	OFF
Holiday program HC3	:	OFF
* Heating season HC1	:	Yes
Message pending	:	0

Party mode HC1	:	OFF
Party mode HC2	:	OFF
Party mode HC3	:	OFF
Economy mode HC1	:	OFF
Economy mode HC2	:	OFF
Economy mode HC3	:	OFF
PUMP FLOW HP1	:	0 Seconds
Timer MIN RUNTIME HP1	:	0 Seconds
Timer OPT RUNTIME HP1	:	0 Seconds
Timer PUMP RUN-ON TIME HP1	:	0 Seconds
Timer BLOCKING TIME HP1	:	0 Seconds
Timer DEFROST HP1	:	0 Seconds
Timer DELAY NEW OM HP1	:	0 Seconds
Timer PUMP FLOW HP2	:	0 Seconds
Timer MIN RUNTIME HP2	:	0 Seconds
Timer OPT RUNTIME HP2	:	0 Seconds
Timer PUMP RUN-ON TIME HP2	:	0 Seconds
Timer BLOCKING TIME HP2	:	0 Seconds
Timer DELAY NEW OM HP2	:	0 Seconds
Timer RUNTIME	:	0 Seconds
Timer BLOCKING TIME IVG HP	:	0 Seconds
Timer DEFROST HP2	:	0 Seconds
Timer BLOCKING TIME IVG ELECTRIC	:	0 Seconds
Timer BLOCKING TIME IVG EXTHS	:	0 Seconds
Flow temp Set	:	30.8 °C
Flow temp Set	:	0 °C
Flow temp Set	:	0 °C
System flow set temperature	:	30.8 °C
Set flow temperature, cooling	:	0 °C
Automatic status system internal status HC1	:	1
Automatic status system internal status HC2	:	0
Automatic status system internal status HC3	:	0
Automatic status system internal status cooling circuit	:	0
Automatic status system internal status HW buffer cylinder	:	0
Automatic status system internal status DHW cylinder	:	0
Status CFDM SC1 (DHW)	:	0
Status CFDM SC2 (HC)	:	1
Status CFDM SC3 (COOL)	:	0
Status CFDM SC4 (POOL)	:	0
Valid coolant buffer demand	:	0
Energy statement factor	:	1
Heating energy heating compressor 1	:	259058 kWh
Therm. energy cooling compr. 1	:	0 kW
Therm. energy cooling compr. 2	:	0 kW
Energy compressor 1	:	43318 kWh
Electrical energy heating compressor 1	:	147231 kWh
Electrical energy, cooling, compressor 1	:	0 kWh
Electrical energy, cooling, compressor 2	:	0 kWh
Electrical energy DHW compressor 1	:	27670 kWh
Electrical energy PV	:	0 kWh
Seasonal performance factor	:	1.7
Seasonal performance factor heating	:	1.7
Seasonal performance factor DHW	:	1.5
SPF cooling	:	0
Solar yield controller methods	:	0 kWh
Solar yield histogram (last 7 days)	:	0 kWh
* (2000) HC1 standard room temperature	:	22 °C
* (2001) HC1 reduced room temperature	:	22 °C
* (2006) HC1 level heating curve	:	-1 K

* (2007) HC1 slope heating curve	:	0.2
(2022) Room temperature in party mode	:	20 °C
(3000) HC2 standard room temperature	:	20 °C
* (3001) HC2 reduced room temperature	:	16 °C
(3006) HC2 level heating curve	:	0 K
* (3007) HC2 slope heating curve	:	0.6
(3022) Room temperature in party mode	:	20 °C
(4000) HC3 standard room temperature	:	20 °C
* (4001) HC3 reduced room temperature	:	16 °C
(4006) HC3 level heating curve	:	0 K
* (4007) HC3 slope heating curve	:	0.6
(4022) Room temperature in party mode	:	20 °C
(5000) Compressor stage enabled	:	Yes
Compressor2 compressor stage enabled	:	No
* (6000) Select temperature	:	48 °C
* (600C) Second set value	:	49 °C
* (6015) DHW with electric heating	:	Yes
(7102) Natural cooling room temperature	:	20 °C
(7110) Natural cooling level cooling curve	:	0
(7111) Natural cooling slope cooling curve	:	1.2
(71FE) Hydraulics active cooling mode	:	No
(7202) Set temperature buffer cylinder	:	50 °C
* (7902) Electric heating mode	:	No
Effect of OM changeover on ventilation	:	Ventilation stage 3 (standard operation)
(7D08) Extract air temperature with standard ventilation	:	20 °C
(7D0F) Min. supply air temperature	:	16 °C
(7E10) Enable optimisation, pasteurisation	:	OFF
(7E11) Enable optimisation, DHW	:	OFF
(7E12) Enable optimisation, buffer cylinder	:	OFF
(7E13) Enable optimisation, heating	:	OFF
Operating mode HC1	:	2 - heating/cooling/DHW
Operating mode HC2	:	2 - heating/cooling/DHW
Operating mode HC3	:	2 - heating/cooling/DHW
Operating mode, refrigerant circuit	:	2: Cooling / DHW
* Heating program	:	2: Ventilation program
FeatureBits, operating mode defaulted by external device	:	14455
1x DHW heating	:	0
Holidays start HC1	:	1/1/1970 12:00:00 AM
Holidays end HC1	:	1/1/1970 12:00:00 AM
Valid operating mode HC1	:	Reduced
Valid DHW operating mode	:	Standby
Valid operating mode, CFDM	:	Standby
Valid operating mode, HC2	:	OFF
Valid operating mode, HC3	:	OFF
Valid cooling circuit operating mode	:	OFF
Valid operating mode, buffer cylinder	:	OFF
Valid operating mode, DHW	:	OFF
Valid operating mode, swimming pool	:	OFF
Valid operating mode, HCFDM	:	OFF
Valid operating mode, CFDM	:	OFF
Valid operating mode, coolant buffer	:	OFF
Valid demand, HC1	:	No demand
Valid demand, HC2	:	No demand
Valid demand, HC3	:	No demand
Valid demand, cooling circuit	:	No demand
Valid demand, buffer cylinder	:	No demand
Valid demand, DHW	:	No demand
Valid demand, swimming pool	:	No demand
Valid demand, HCFDM	:	No demand

Valid demand, CFDM	:	No demand
Valid demand, coolant buffer	:	No demand
External default operating mode HC1	:	Standby
External default operating mode HC2	:	Standby
External default operating mode HC3	:	Standby
External default operating mode, cooling circuit	:	Standby
External default operating mode, DHW	:	Standby
External default operating mode, ventilation	:	Standby
External default operating mode, buffer cylinder	:	Standby
External default operating mode, coolant buffer	:	Standby
External default operating mode, swimming pool	:	Standby
External default operating mode, system	:	Standby
External operating mode HC1	:	Standby
External operating mode HC2	:	Standby
External operating mode HC3	:	Standby
External operating mode, cooling circuit	:	Standby
External operating mode, DHW	:	Standby
External operating mode, ventilation	:	Standby
External operating mode, buffer cylinder	:	Standby
External operating mode, coolant buffer	:	Standby
External operating mode, swimming pool	:	Standby
External operating mode, system	:	Standby
External default demand HC1	:	Standby
External default demand HC2	:	Standby
External default demand HC3	:	Standby
External default, cooling circuit demand	:	Standby
External default, DHW demand	:	Standby
External default, ventilation demand	:	Standby
External default, buffer cylinder demand	:	Standby
External default, coolant buffer demand	:	Standby
External default, swimming pool demand	:	Standby
External default, system demand	:	Standby
External default, set temp HC1	:	0 °C
External default, set temp HC2	:	0 °C
External default, set temp HC3	:	0 °C
External default, set temp Cool circ	:	0 °C
External default, set temp, DHW	:	0 °C
External default, set temp, ventilation	:	0 °C
External default, set buffer cylinder temp	:	0 °C
External default, set temp, coolant buffer	:	0 °C
External default, set temp Swimming pool	:	0 °C
External default, set temp System	:	0 °C
Valid set room temp., HC1	:	22 °C
Valid set room temp., HC2	:	0 °C
Valid set room temp., HC3	:	0 °C
Valid set room temp., cooling circuit	:	0 °C
Valid set flow temp., HC1	:	30.8 °C
Valid set flow temp., HC2	:	0 °C
Valid set flow temp., HC3	:	0 °C
Valid set flow temp., cooling circuit	:	0 °C
Valid set flow temp., buffer cylinder	:	30.8 °C
Valid set flow temp., DHW	:	0 °C
Valid set flow temp., swimming pool	:	0 °C
Valid set flow temp., HCFDM	:	0 °C
Valid set flow temp., CFDM	:	0 °C
Valid set flow temp., coolant buffer	:	0 °C
Curr. OM, HC1	:	Reduced
Curr. OM, DHW	:	Standby
Curr. OM, ventilation	:	Standby





## 2.1.10.2 DP gateway scenario all

Outside temperature	:	-11.4 °C
Outside temperature	:	Sensor OK
System flow	:	Sensor not available
Buffer cylinder temperature	:	Sensor not available
Medium temperature external HS	:	Sensor not available
DHW temperature top	:	47.5 °C
DHW temperature top	:	Sensor OK
DHW temperature bottom	:	Sensor not available
DHW temperature output	:	Sensor not available
Collector temperature solar	:	Sensor not available
Return temperature solar	:	Sensor not available
Cylinder temperature solar	:	Sensor not available
Relay compressor 2	:	NOT AVAILABLE
Relay primary source 2	:	NOT AVAILABLE
Elec. heating stage 1	:	OFF
Elec. heating stage 2	:	OFF
Secondary pump	:	ON
Cylinder reheating	:	OFF
Active cooling	:	OFF
Relay status control ext. heat source	:	OFF
Heating circuit pump HC1	:	ON
Heating circuit pump HC2	:	OFF
Heating circuit pump HC3	:	OFF
DHW circulation pump	:	OFF
CENTRAL FAULT	:	OFF
Relay status 3-way valve heating/DHW1	:	Heating
Relay status natural cooling control	:	OFF
Relay valve heating/DHW 2	:	NOT AVAILABLE
Cylinder primary pump	:	OFF
Fan stage 2	:	OFF
Relay status M2 mixer CLOSED	:	Heating
SM1: Collector circuit pump	:	OFF
Ext. heat source mixer OPEN	:	OFF
Relay status mixer OPEN for relay test	:	OFF
Alt. operation, ext. HS	:	OFF
Enable absorber pump	:	OFF
3-way valve heating/DHW1	:	2716.4 Hours
3-way valve heating/DHW2	:	0 Hours
Active cooling	:	0 Hours
Control ext. heat source	:	0 Hours
Elec. heating stage 1	:	0.65 Hours
Elec. heating stage 2	:	0.63 Hours
Heating circuit pump A1	:	51123.85 Hours
HEATING CIRCUIT PUMP M2	:	0 Hours
Heating circuit pump M3	:	0 Hours
Refrigerant circuit reversal	:	0 Hours
Primary source 1 (fan or primary pump)	:	18058.36 Hours
Primary source 2 (primary pump)	:	0 Hours
Switching output 7-day timer DHWCP	:	0 Hours
Swimming pool_valve	:	0 Hours
Secondary pump 1	:	53137.68 Hours
Secondary pump 2	:	0 Hours
Solar circuit pump Vitosolic	:	0 Hours
Cylinder primary pump	:	0 Hours
Cylinder reheating	:	0 Hours
Compressor 1	:	17095.82 Hours



Operating mode cooling circuit	:	OFF
Set temp cooling circuit	:	0 °C
Demand cooling circuit	:	No demand
Resulting heating circuit demand	:	Standby
Central demand	:	normal
Operating mode, coolant buffer	:	Standby
Valid ventilation, OM	:	0
Automatic status system HP1	:	OFF
Automatic status system HP2	:	OFF
State machine ext. HS	:	OFF
PUMP FLOW HP1	:	0 Seconds
Timer MIN RUNTIME HP1	:	0 Seconds
Timer PUMP RUN-ON TIME HP1	:	0 Seconds
Timer BLOCKING TIME HP1	:	0 Seconds
Timer PUMP FLOW HP2	:	0 Seconds
Timer MIN RUNTIME HP2	:	0 Seconds
Timer PUMP RUN-ON TIME HP2	:	0 Seconds
Timer BLOCKING TIME HP2	:	0 Seconds
Average outside temperature	:	-11.9 °C
Heating energy heating compr. 1	:	259058 kW
Heating energy heating compr. 2	:	0 kW
Therm. energy cooling compr. 1	:	0 kW
Therm. energy cooling compr. 2	:	0 kW
Energy compressor 1	:	43318 kWh
Electrical energy heating compressor 1	:	147231 kWh
Electrical energy, cooling, compressor 1	:	0 kWh
Electrical energy, cooling, compressor 2	:	0 kWh
Electrical energy DHW compressor 1	:	27670 kWh
Seasonal performance factor heating	:	1.7
Seasonal performance factor DHW	:	1.5
Seasonal performance factor	:	1.7
Electrical energy PV	:	0 kWh
SPF cooling	:	0
Elec. heating stage	:	0
Curr. OM, HC1	:	Reduced
Curr. demand, HC1	:	No demand
LPG temperature	:	22.5 °C
Flow temperature primary source	:	7.1 °C
Return temperature primary source	:	6.8 °C
Secondary flow temperature	:	25 °C
Secondary return temperature	:	25.3 °C
Set evaporation temperature	:	14.8 °C
Actual evaporation temperature	:	-0.2 °C
Condensation temperature	:	-20.1 °C
Suction gas temperature	:	15.3 °C
Hot gas temperature	:	24.6 °C
Superheating set value	:	3 °C
Supercooling set value or calculated supercooling delta	:	-42.6 °C
ECV position	:	29 %
Compressor output	:	1
Output, refrigerant circuit reversal	:	2
Suction gas pressure	:	7.9 Bar
Hot gas pressure	:	4 Bar
Speed, secondary pump	:	100 %
Speed, DHW pump	:	0 %
Output, primary source	:	1
Output, secondary pump	:	1
Output, DHW pump	:	0
Flow temperature, primary source RC2	:	0.5 °C

Primary source return temperature (RC2)	:	-4.1 °C
Secondary flow temperature (RC2)	:	0 °C
Secondary return temperature (refrigerant circuit 2)	:	0 °C
LPG temperature	:	0 °C
Evaporation temp. Set value, refrigerant circuit 2	:	0 °C
Temp collector 2 (RC2)	:	0 °C
Superheating set value (for cooling or defrosting, RC2)	:	0 °C
Compressor output RC2	:	0 %
ECV position RC2	:	0 %
AHX valve position RC2	:	0 %
PHX valve position RC2	:	0 %
Collector fill level RC2	:	0 %
Compressor output RC2	:	2
Output, refrigerant circuit reversal RC2	:	2
Output, defrosting enabled RC2	:	2
Evaporation temp. Actual value RC2	:	-1.3 °C
Condensation temp. RC2	:	29.2 °C
Suction gas temperature RC2	:	0 °C
Hot gas temperature RC2	:	0 °C
Superheating set value RC2	:	0 °C
Superheating actual value RC2	:	0 °C
Supercooling actual value RC2	:	0 °C
Supercooling set value RC2	:	0 °C
Suction gas pressure RC2	:	0 Bar
Hot gas pressure RC2	:	0 Bar
Speed, primary source (refrigerant circuit 2)	:	0 %
Speed, secondary pump RC2	:	0 %
Speed, DHW pump RC2	:	0 %
Speed, cylinder primary pump (refrigerant circuit 2)	:	0 %
Output, primary source RC2	:	2
Output, secondary pump RC2	:	2
Output, DHW pump (refrigerant circuit 2)	:	2
Operating status	:	Basic ventilation
	:	0 %
Compressor	:	OFF
Primary source 1 (fan or primary pump)	:	OFF
	:	0

### 2.1.10.3 DP gateway scenario IVES

\* Heating output, compressor 1 : 11138 W  
 \* Electric power consumption, compressor 1 : 3226 W  
 Compressor 1 : 17095.82 Hours  
 Heating energy heating compr. 1 : 259058 kW  
 Therm. energy cooling compr. 1 : 0 kW  
 Energy compressor 1 : 43318 kWh  
 Electrical energy heating compressor 1 : 147231 kWh  
 Electrical energy, cooling, compressor 1 : 0 kWh  
 Electrical energy DHW compressor 1 : 27670 kWh  
 COP heating mode : 3.4  
 \* Cooling capacity compressor 1 : 8137 W  
 Primary energy factor, gas : 0  
 Primary energy factor, electricity : 0  
 (6006) Maximum temperature DHW cylinder : 60 °C  
 \* (6007) DHW hysteresis : 6 K  
 (6018) Dual mode temperature DHW : 60 °C  
 \* (7304) Flow hysteresis : 0.5 K  
 \* (7313) Hysteresis flow OFF : 0.5 °C  
 (200E) HC1 max. flow temperature heating circuit : 40 °C  
 (300E) HC2 max. flow temperature heating circuit : 40 °C  
 (400E) HC3 max. flow temperature heating circuit : 40 °C  
 (7203) Hysteresis buffer cylinder : 5 K  
 (7204) Max. temperature buffer cylinder : 60 °C  
 (7200) Buffer cylinder : No  
 Electricity, standard tariff : 0 ct / kWh  
 Electricity, premium tariff : 0 ct / kWh  
 Electricity, low tariff : 0 ct / kWh  
 Gas, standard tariff : 0 ct / kWh  
 (6008) Hysteresis DHW emergency : 10 K  
 \* Minimum outlet temperature (hybrid) : 40 °C  
 (7B0F) Alternative temperature : -50 °C  
 (7B02) Ext. HS Tamb max : 10 °C  
 Heating energy heating compressor 1 : 259058 kWh

Switching time:Switching times HC1

Day:Monday		
from	To	Value
00:00:00	04:00:00	Standard
04:00:00	08:30:00	Reduced
08:30:00	24:00:00	Standard
Day:Tuesday		
from	To	Value
00:00:00	04:00:00	Standard
04:00:00	08:30:00	Reduced
08:30:00	24:00:00	Standard
Day:Wednesday		
from	To	Value
00:00:00	04:00:00	Standard
04:00:00	08:30:00	Reduced
08:30:00	24:00:00	Standard
Day:Thursday		
from	To	Value
00:00:00	04:00:00	Standard
04:00:00	08:30:00	Reduced
08:30:00	24:00:00	Standard
Day:Friday		
from	To	Value
00:00:00	04:00:00	Standard
04:00:00	08:30:00	Reduced
08:30:00	24:00:00	Standard

	Day:Saturday		
from		To	Value
00:00:00		04:00:00	Standard
04:00:00		08:30:00	Reduced
08:30:00		24:00:00	Standard
	Day:Sunday		
from		To	Value
00:00:00		04:00:00	Standard
04:00:00		08:30:00	Reduced
08:30:00		24:00:00	Standard
	Switching time:Switching times HC2		
	Day:Monday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Tuesday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Wednesday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Thursday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Friday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Saturday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Sunday		
from		To	Value
00:00:00		24:00:00	Standard
	Switching time:Switching times HC3		
	Day:Monday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Tuesday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Wednesday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Thursday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Friday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Saturday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Sunday		
from		To	Value
00:00:00		24:00:00	Standard
	Switching time:Buffer cylinder switching times		
	Day:Monday		
from		To	Value
00:00:00		24:00:00	Standard

	Day:Tuesday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Wednesday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Thursday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Friday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Saturday		
from		To	Value
00:00:00		24:00:00	Standard
	Day:Sunday		
from		To	Value
00:00:00		24:00:00	Standard
	Switching time:DHW switching times		
	Day:Monday		
from		To	Value
00:00:00		24:00:00	Level top
	Day:Tuesday		
from		To	Value
00:00:00		24:00:00	Level top
	Day:Wednesday		
from		To	Value
00:00:00		24:00:00	Level top
	Day:Thursday		
from		To	Value
00:00:00		24:00:00	Level top
	Day:Friday		
from		To	Value
00:00:00		24:00:00	Level top
	Day:Saturday		
from		To	Value
00:00:00		24:00:00	Level top
	Day:Sunday		
from		To	Value
00:00:00		24:00:00	Level top
	Switching time:DHWCP switching times		
	Day:Monday		
from		To	Value
00:00:00		24:00:00	OFF
	Day:Tuesday		
from		To	Value
00:00:00		24:00:00	OFF
	Day:Wednesday		
from		To	Value
00:00:00		24:00:00	OFF
	Day:Thursday		
from		To	Value
00:00:00		24:00:00	OFF
	Day:Friday		
from		To	Value
00:00:00		24:00:00	OFF
	Day:Saturday		
from		To	Value
00:00:00		24:00:00	OFF

	Day:Sunday		
from		To	Value
00:00:00		24:00:00	OFF
	Switching time:Time program, ventilation		
	Day:Monday		
from		To	Value
00:00:00		24:00:00	Standard (stage 3)
	Day:Tuesday		
from		To	Value
00:00:00		24:00:00	Standard (stage 3)
	Day:Wednesday		
from		To	Value
00:00:00		24:00:00	Standard (stage 3)
	Day:Thursday		
from		To	Value
00:00:00		24:00:00	Standard (stage 3)
	Day:Friday		
from		To	Value
00:00:00		24:00:00	Standard (stage 3)
	Day:Saturday		
from		To	Value
00:00:00		24:00:00	Standard (stage 3)
	Day:Sunday		
from		To	Value
00:00:00		24:00:00	Standard (stage 3)
	Switching time:Time program, noise reduction		
	Day:Monday		
from		To	Value
00:00:00		24:00:00	Standby
	Day:Tuesday		
from		To	Value
00:00:00		24:00:00	Standby
	Day:Wednesday		
from		To	Value
00:00:00		24:00:00	Standby
	Day:Thursday		
from		To	Value
00:00:00		24:00:00	Standby
	Day:Friday		
from		To	Value
00:00:00		24:00:00	Standby
	Day:Saturday		
from		To	Value
00:00:00		24:00:00	Standby
	Day:Sunday		
from		To	Value
00:00:00		24:00:00	Standby
	Switching time:Time program, el. heating		
	Day:Monday		
from		To	Value
00:00:00		24:00:00	Stage 3
	Day:Tuesday		
from		To	Value
00:00:00		24:00:00	Stage 3
	Day:Wednesday		
from		To	Value
00:00:00		24:00:00	Stage 3
	Day:Thursday		
from		To	Value



00:00:00		24:00:00	Stage 3
from	Day:Friday	To	Value
00:00:00		24:00:00	Stage 3
from	Day:Saturday	To	Value
00:00:00		24:00:00	Stage 3
from	Day:Sunday	To	Value
00:00:00		24:00:00	Stage 3
	Switching time:Coolant buffer time program		
from	Day:Monday	To	Value
00:00:00		24:00:00	Standard
from	Day:Tuesday	To	Value
00:00:00		24:00:00	Standard
from	Day:Wednesday	To	Value
00:00:00		24:00:00	Standard
from	Day:Thursday	To	Value
00:00:00		24:00:00	Standard
from	Day:Friday	To	Value
00:00:00		24:00:00	Standard
from	Day:Saturday	To	Value
00:00:00		24:00:00	Standard
from	Day:Sunday	To	Value
00:00:00		24:00:00	Standard

#### 2.1.10.4 viessmann.eventtypegroup.name.CU401B\_G~Expertlayer~IVES\_DP

* (6007) DHW hysteresis	:	6 K
(6006) Maximum temperature DHW cylinder	:	60 °C
(6018) Dual mode temperature DHW	:	60 °C
* (7304) Flow hysteresis	:	0.5 K
* (7313) Hysteresis flow OFF	:	0.5 °C
(200E) HC1 max. flow temperature heating circuit	:	40 °C
(300E) HC2 max. flow temperature heating circuit	:	40 °C
(400E) HC3 max. flow temperature heating circuit	:	40 °C
(7203) Hysteresis buffer cylinder	:	5 K
(7204) Max. temperature buffer cylinder	:	60 °C
(7200) Buffer cylinder	:	No
Electricity, standard tariff	:	0 ct / kWh
Electricity, premium tariff	:	0 ct / kWh
Electricity, low tariff	:	0 ct / kWh
Gas, standard tariff	:	0 ct / kWh
Primary energy factor, electricity	:	0
Primary energy factor, gas	:	0
(6008) Hysteresis DHW emergency	:	10 K
* Minimum outlet temperature (hybrid)	:	40 °C
(7B02) Ext. HS Tamb max	:	10 °C
(7B0F) Alternative temperature	:	-50 °C
Effective active power, phase 1	:	0
Effective active power, phase 2	:	0
Effective active power, phase 3	:	0
* Heating output, compressor 1	:	11138 W
* Electric power consumption, compressor 1	:	3226 W
Heating energy heating compressor 1	:	259058 kWh
Therm. energy cooling compr. 1	:	0 kW
Energy compressor 1	:	43318 kWh
Electrical energy heating compressor 1	:	147231 kWh
Electrical energy, cooling, compressor 1	:	0 kWh
Electrical energy DHW compressor 1	:	27670 kWh
* Cooling capacity compressor 1	:	8137 W

### 2.1.10.5 DP gateway scenario 2

Party mode HC1	:	OFF
Party mode HC2	:	OFF
Party mode HC3	:	OFF
Economy mode HC1	:	OFF
Economy mode HC2	:	OFF
Economy mode HC3	:	OFF
Flow temperature HC2	:	Sensor not available
Flow temperature HC3	:	Sensor not available
Status sensor, room temperature HC1	:	Sensor not available
Flow temperature cooling circuit	:	0 °C
Status sensor, flow cooling	:	Sensor not available
Room temperature cooling circuit	:	0 °C
Sensor status, common flow	:	Sensor not available
Buffer outlet (regulated cascade)	:	0 °C
Sensor status, swimming pool flow	:	Sensor not available
* Heating season HC1	:	Yes
Holiday program HC1	:	OFF
Holiday program HC2	:	OFF
Holiday program HC3	:	OFF
Flow temp Set	:	30.8 °C
Flow temp Set	:	0 °C
Flow temp Set	:	0 °C
Set flow temperature, cooling	:	0 °C
System flow set temperature	:	30.8 °C
Solar yield controller methods	:	0 kWh
Solar yield histogram (last 7 days)	:	0 kWh
SG ready enable	:	0: disabled
Set value SG function DHW	:	0 K
Set value SG function buffer	:	0 K
Set value SG function heating	:	0 K
SG ready functions	:	viessmann.eventvaluetype.WPR3_SGReady_Funktionen~0
* (2000) HC1 standard room temperature	:	22 °C
* (2001) HC1 reduced room temperature	:	22 °C
Room temperature heating circuit 2	:	Sensor not available
Room temperature heating circuit 3	:	Sensor not available

### 2.1.10.6 DP gateway scenario 1

Curr. OM, system	:	Standby
Curr. demand, system	:	No demand
Curr. operating mode, system	:	OFF
Curr. set flow temp., system	:	0 °C
SG ready enable	:	0: disabled
Set value SG function DHW	:	0 K
Set value SG function buffer	:	0 K
Set value SG function heating	:	0 K
SG ready functions	:	viessmann.eventvaluetype.WPR3_SGReady_Funktionen~0
* Default, electr. power consumption, HP maximum	:	-1 W
* Default, electr. power consumption, HP minimum	:	-1 W
* Default, electr. power consumption, HP optimum	:	-1 W

### 2.1.10.7 Sensor statuses 1

System flow	:	Sensor not available
Outside temperature	:	Sensor OK

EEV condenser pressure 1	:	Sensor OK
EEV condenser pressure 2	:	Sensor not available
EEV suction pressure 1	:	Sensor OK
EEV suction pressure 2	:	Sensor not available
EEV1 LPG temperature	:	Sensor OK
EEV1 hot gas temperature	:	Sensor not available
EEV1 suction gas temperature	:	Sensor OK
EEV2 LPG temperature	:	Sensor not available
EEV2 hot gas temperature	:	Sensor not available
EEV2 suction gas temperature	:	Sensor not available
Medium temperature external HS	:	Sensor not available
Hot gas temperature 1	:	Sensor OK
Hot gas temperature 2	:	Sensor not available
Collector temperature solar	:	Sensor not available
Buffer cylinder temperature	:	Sensor not available
Set room temperature HC1	:	Sensor not available
Set room temperature HC2	:	Sensor not available
Set room temperature HC3	:	Sensor not available
Return temperature primary source	:	Sensor OK
Return temperature solar	:	Sensor not available
Return temperature secondary 1	:	Sensor OK
Return temperature secondary 2	:	Sensor not available
Sensor 7	:	Sensor not available
Sensor 10	:	Sensor not available
Flow temperature primary source	:	Sensor OK
Flow temperature secondary	:	Sensor OK
Evaporator temperature	:	Sensor not available
DHW temperature top	:	Sensor OK
DHW temperature bottom	:	Sensor not available
DHW temperature centre	:	Sensor not available
DHW temperature output	:	Sensor not available
Cylinder temperature solar	:	Sensor not available
Flow temperature HC2	:	Sensor not available
Flow temperature HC3	:	Sensor not available
Status sensor, room temperature HC1	:	Sensor not available
Status sensor, flow cooling	:	Sensor not available
Room temperature cooling circuit	:	Sensor OK
Status sensor, secondary flow 2	:	Sensor not available
Status sensor, coolant buffer temperature	:	Sensor not available
Status sensor, evaporator temperature 2	:	Sensor not available
Status sensor, coolant buffer flow	:	Sensor not available
Status sensor, LPG temperature 2 (compressor 1)	:	Sensor not available
Status sensor, LPG temperature 2 (compressor 2)	:	Sensor not available
Status sensor, flow temperature HC A1	:	Sensor OK
Room temperature heating circuit 1	:	Sensor not available
Room temperature heating circuit 2	:	Sensor not available
Room temperature heating circuit 3	:	Sensor not available
Status, humidity sensor	:	Sensor not available
Sensor status, swimming pool flow	:	Sensor not available
Sensor status, common flow	:	Sensor not available
Status, sensor, overheating temperature	:	Sensor OK
Sensor status, flow temperature primary source	:	Sensor OK
Sensor status, return temperature primary source	:	Sensor OK
Sensor status, secondary flow temperature	:	Sensor OK
Sensor status, secondary return temperature	:	Sensor OK
Sensor status, liquid gas temperature	:	Sensor OK
Sensor status, liquid gas temperature rev.	:	Sensor not available
Sensor status, evaporation temperature target	:	Sensor OK
Sensor status, evaporation temperature actual	:	Sensor OK

Sensor status, condensation temperature	:	Sensor OK
Sensor status, suction gas temperature	:	Sensor OK
Sensor status, hot gas temperature	:	Sensor OK
Sensor status, overheating target	:	Sensor OK
Sensor status, overcooling actual	:	Sensor OK
Sensor status, suction gas pressure	:	Sensor OK
Sensor status, hot gas pressure	:	Sensor OK
Sensor status, speed primary source	:	Sensor not available
Sensor status, speed secondary pump	:	Sensor OK
Sensor status, speed HW pump	:	Sensor OK
Sensor status, compressor output	:	Sensor not available
Sensor status, position ECV	:	Sensor OK
Sensor status, position AHX	:	Sensor not available
Sensor status, position PHX	:	Sensor not available
Sensor status, header fill level	:	Sensor not available
Sensor status, SPL pump speed	:	Sensor not available
Sensor status, overcooling target	:	Sensor not available
Sensor status, header temperature	:	Sensor not available
Sensor status, overheating target	:	Sensor not available
Sensor status, overheating actual	:	Sensor not available

### 2.1.10.8 Correction, HP

Correction value flow temperature prim	:	0 °C
Correction value flow temperature sec	:	0 °C
Correction value return temp prim	:	0 °C
Correction value return temperature sec1	:	0 °C
Correction value return temperature sec2	:	0 °C
Correction value hot gas temperature 1	:	0 °C
Correction value hot gas temperature 2	:	0 °C
Correction value EVI suction gas temperature EEV1	:	0 °C
Correction value EVI suction gas temperature EEV2	:	0 °C
Correction value hot gas temperature EEV1	:	0 °C
Correction value hot gas temperature EEV2	:	0 °C
Correction value suction gas temperature EEV1	:	0 °C
Correction value suction gas temperature EEV2	:	0 °C
Correction value LPG temperature EEV1	:	0 °C
Correction value LPG temperature EEV2	:	0 °C
Correction value evaporator temperature	:	0 °C

### 2.1.10.9 Correction, system

Correction value outside temperature	:	0 °C
Correction value medium temperature ext. heat source	:	0 °C
Correction value collector temperature solar	:	0 °C
Correction value cylinder temperature solar module	:	0 °C
Vitosolic		
Correction value DHW temperature bottom	:	0 °C
Correction value DHW temperature centre	:	0 °C
Correction value DHW temperature top	:	0 °C
Correction value DHW temperature output	:	0 °C
Correction value heating water buffer cylinder temperature	:	0 °C
Correction value system flow temperature	:	0 °C
Correction value room temperature heating circuit A1 (Vitolrol)	:	0 °C
Correction value room temperature heating circuit M2 (Vitolrol)	:	0 °C
Correction value flow temperature heating circuit M2	:	0 °C
Correction value room temperature heating circuit M3 (Vitolrol)	:	0 °C
Correction value flow temperature heating circuit M3	:	0 °C
Correction value room temperature natural cooling	:	0 °C
Correction value flow temperature natural cooling circuit	:	0 °C
Correction value flow temperature natural cooling heating circuit xx	:	0 °C

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