www.humancorp.co.kr

Water Purification System

human CORPORATION

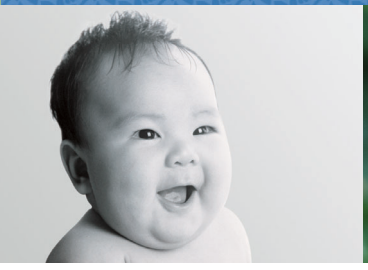
Human Corporation

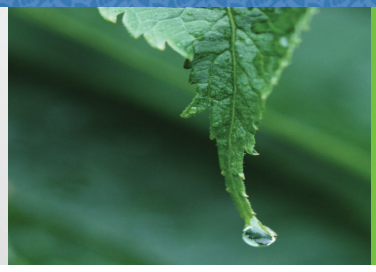
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Certified ISO 9001 G.D Excellent Product Q.D

Water Purification System

& UV/VIS Spectrophotometer







human CORPORATION

By the name of "Purity".... this is our corporate mission



INDEX

Water Purification System



Zeneer Series

- Zeneer RO System 4
- Zeneer UP System 6

P.NIX Series

- P.NIX Power System 8
- P.NIX RO System 10
- P.NIX UP System 12



The Standard of

HUMAN Corporation

is the World

Human Series

- New Human Power System 14
- New Human RO System 16
- New Human UP System 18



- Advanced technology
- Unparalleled Know-How
- Endless R&D Investment
- Differential Customer Service

Nex Series

-Nex Power System 20
-Nex RO System 22
-Nex UP System 24



Pretreatment System 26
Silent Pilot System 28
Pilot System 29

UV/VIS Spectrophotometer

-X-ma2000 30
-SP-2000UV 31
-UV 9100 32
-Quartz · Glass Cell 33



Zeneer Series

Zeneer RO System

Pure System

"The best of best" which comes into the world by the ceaseless enthusiasm to be a top of the world!

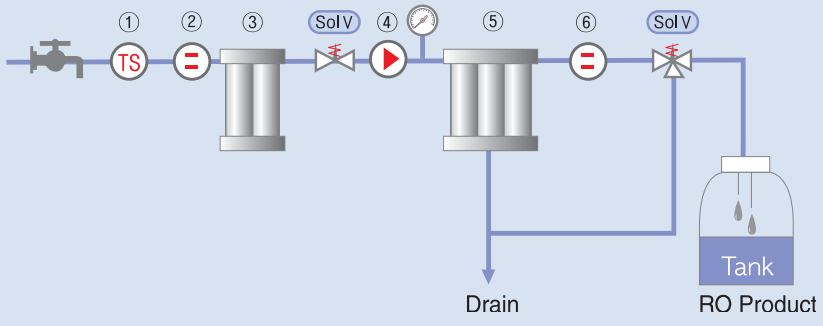
■ Human Corporation was founded in June of 1993 and formulated from a single concept that we are going to produce the most advanced and effective "Water Purification System" available. Since the beginning HUMAN has acquired many patents and awards for its unique treatment system, sophisticated design and technique for the highest efficiency. Thanks to the customer's satisfaction, we can grow steadily in terms of corporate image and worldwide global brand reputation. We promise to you that we will put into all our efforts until we become an ever-growing global leader for Water Purification System.







■ Flow Schematic



RO System ①Temp Sensor ②Feed Water Sensor ③Pre Pack ④Pump ⑤RO Pack ⑥Conductivity Sensor

Brand Concept "Zeneer" is a compound word of 'Zero' and 'Pioneer'.
'Zero' symbolizes perfectly no contaminent element in the Ultra Pure water from the Human Corp.'s UP system and 'Pioneer' does a Human Corp. as a leading manufacturer of Water Purification System.

Certified ISO 9001 G.D Excellent Product Q.D

Rejection Rate

- Monovalent ions : 95 ~ 99%
- Polyvalent ions : 98 ~ 99%
- Microorganism : 99%
- Particles : 99%
- Organics : 99%
- Pyrogen : 99%

Features

- Certified CE
- Certified ISO 9001 (No : K-920)
- Obtained GD, QD Mark (Good Design, Qualified Design)
- Awarded the Korean Excellent Products
- Built-in RS 232C Port
- Built-in volumetric dispensing function by timer
- Auto regular flushing to maintain the optimum water quality level
- Programming by 2 steps of water quality for the filter exchange

Specifications

	Zeneer RO 180	Zeneer RO 280	Zeneer RO 380
Product flow rate (RO)	Max. 15L/Hr	Max. 25L/Hr	Max. 35L/Hr
Water quality display	• Feed water : 10 to 1000 μS/cm • Temperature : 0 to 99.9℃ • RO product : 0.2 to 250.0 μS/cm		
Controller	Microprocess one touch technology		
Display	16 ×2 characters backlight LCD digital display		
Controller functions	1. Self test : Self-diagnosis for external & internal system operating conditions. 2. Auto cleaning : At the first switched-on, the system functions "auto-drain" to drain out all of the contaminated inside remaining waters. 3. Auto cleaning : ① Auto-drain time setting in proportion to inside contamination level ② Auto-cleaning when the system produces higher than setting value ③ Auto-cleaning for maintenance of optimum water purity even during switched-off ④ When the accumulated usage time is over ⑤ Manual cleaning function ⑥ Flushing time setting : 1 to 99 min. 4. Auto monitoring for RO value : After sensing RO value, auto-cleaning RO membrance 5. Volumetric dispensing : After setting of timer, the quantitative water production is available. 6. Filter exchange indicator : Programmable by 2 steps (Pre Pack, RO Pack) ① 1st alert message : Reminder for filter pack exchange ② 2nd alert message : Filter pack must be exchanged 7. Auto monitoring for feed water : When the purity and temperature of feed water are exceeding the setting value, the system will be stopped automatically. 8. Built-in RS 232C Port : Various applications, maintenance and print are available by interfacing with PC		
Safety functions	1. Low pressure of tap water : Auto/manual operating modes 2. Automatic pump stop functions : ① Low pressure ② Tank full ③ Suspension of tap water supply ④ Over conductivity & temp of feed water 3. Automatic adjustable function for products drain volume 4. Automatic system off : ① When the conductivity of feed water is getting worse ② When the temperature of feed water is increasing		
Standard accessories	• Pre Pack • RO Pack • Level sensor • Manual • Power cord		
Optional accessories	Pretreatment system, Software, Post treatment system (Ion Pack)		
Dimensions (W ×D ×H)	300 ×460 ×460mm		
Power	230V, 50/60 Hz 60W		
Ion Pack	2 Hole / 3 Hole Pack		

Zeneer Series

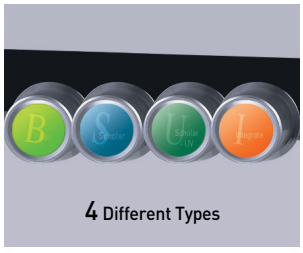
Zeneer UP 900



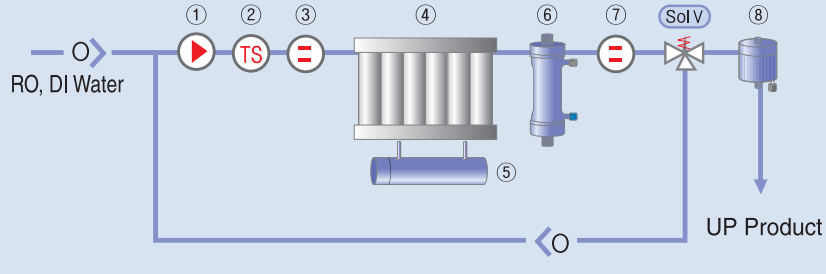
Ultra Pure Water

Perfect Ultra Pure Water System!!!
The very best functions showing the possibilities of the zero level of contaminent element.





Flow Schematic



UP System

①Pump ②Temp Sensor ③Feed Water Sensor ④UP Pack ⑤254/185 UV Lamp ⑥MW5000 UF Filter
⑦Resistivity Sensor ⑧0.2㎛ Final Filter

Certified ISO 9001 G.D Excellent Product Q.D

Applications

Type	Scholar	Scholar-UV	Bio	Integrate
Type Ⅰ grade water	●	●	●	●
Analytical Instruments	●	●	●	●
AAS, ICP/MS , IC	●	●		●
HPLC, GC, TOC		●		
Organic analysis		●		●
Cell & tissue culture			●	●
In vitro fertilization			●	●
Electrophoresis			●	●
R Nase, D Nase & DNA free				●
Molecular Biology				●

Applicable Model
- Zeneer UP
- P.NIX Power, UP
- New Human Power, UP
- Nex Power, UP

Specifications

	Zeneer UP 900			
Water quality display	• Feed water : 0 to 100 ㎲/㎝ • Temperature : 0 to 99.9℃ • UP product : Up to 18.3 MΩ-㎝			
Controller	Microprocess one touch technology			
Display	16×2 characters backlight LCD digital display			
Type	**Scholar**	**Scholar-UV**	**Bio**	**Integrate**
Feature				
– 0.2 ㎛ Final filter	STD	STD	STD	STD
– 254/185 UV lamp		STD		STD
– MW 5000 UF filter			STD	STD
– PVDF ½ Dispensing gun				
Included Filters & Accessories	• UP Pack • Manual • Power Cord			
Water Quality				
– Product flow rate(L/min)	1.2	1.2	1.0	1.0
– TOC (ppb)	5 – 10	0 – 5	5 – 10	0 – 5
– Endotoxin (Eu/㎖)	NA	NA	< 0.001	< 0.001
– Bacteria (cfu/㎖)	< 1	< 1	< 1	< 1
– Particles (>0.22㎛/㎖)	< 1	< 1	< 1	< 1
Controller functions	1. Self test : Self-test for external & internal system operating conditions. 2. Auto recirculation functions : ① Regular recycling every setting time ② Automatic recycling when the product resistivity is less than setting value ③ "Standby" display : Auto recycling lower than setting value ④ Manual recycling function 3. Volumetric Dispensing : After setting a timer, the quantitative water production is available. 4. Auto sensor Calibration : Automatic compensating function to maintain the sensor accuracy. 5. Filter exchange indicator : Programmable by 2 steps ① 1st alert message : Reminder for filter pack exchange ② 2nd alert message : The filter pack must be exchanged 6. UV lamp exchange indicator : At the accurate time for UV lamp exchange, the exchangemessage will be displayed. 7. Auto monitoring for feed water quality : When the purity and temperature of feed water are exceeding the setting value, the system will be stopped automatically. 8. Built-in RS 232C Port : Various application, maintenance and print are available by interfacing with PC			
Safety functions	Automatic system stop 1. Feed water quality monitoring : Check for the purity of feed water 2. Feed water temp monitoring 3. UV lamp monitoring			
UP water analyzing data	Fe <0.005, Cu <0.005, Al <0.005, Ni <0.005, Zn <0.02, Cr <0.005, Na <0.01, K <0.02 / Cl^- <0.01, NO_2^- <0.02, NO_3^- <0.02, SO_4^{-2} <0.01 (ppb)			
Optional accessories	Software			
Dimensions (W×D×H)	300×460×460mm			
Power	230V, 50/60 ㎐, 60W			

Human Corporation

P

NIX Series

P.NIX Power

RO & UP System

We are purifying the waters of the world.
Now, Human is becoming a global standard !

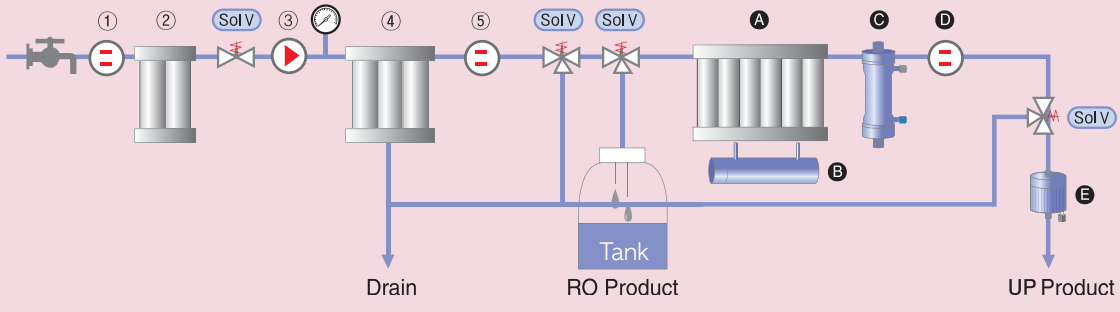
Application : Refer to "P.NIX UP 900" (page. 13)







Flow Schematic



RO System	① Feed water sensor ② Pre Pack ③ Pump ④ RO Pack ⑤ Conductivity sensor
UP System	Ⓐ UP Pack Ⓑ 254/185 UV Lamp Ⓒ MW5000 UF Filter Ⓓ Resistivity sensor Ⓔ 0.2 ㎛ Final filter

Brand Concept "P.NIX" is an abbreviation for "Phoenix" and this is to symbolize Human's strong pride to develop.

Certified ISO 9001 G.D Excellent Product Q.D

Features

- Certified CE
- Certified ISO 9001 (NO : K-920)
- Obtained GD, QD Mark (Good Design, Qualified Design)
- Awarded the Korean Excellent Products
- Built-in RS 232C Port
- Built-in volumetric dispensing function by timer
- Auto calibration for water sensors
- Auto regular recycling to maintain the optimum water quality level

Specifications

	P.NIX Power® Ⅰ	P.NIX Power® Ⅱ	P.NIX Power® Ⅲ
Product flow rate (RO.UP)	Max. 15L/Hr	Max. 25L/Hr	Max. 35L/Hr
Water quality display	• Feed water : 0 to 999 μs/cm • Pure water (RO) : 0.2 to 250.0 μs/cm • Ultra pure (UP) : Up to 18.3 MΩ-cm		
Controller	Microprocess one touch technology PLCC		
Display	16 ×2 characters backlight LCD digital display		

Type	*Scholar*	*Scholar-UV*	*Bio*	*Integrate*
Feature				
– 0.2 μm Final filter	STD	STD	STD	STD
– 254/185 UV lamp		STD		STD
– MW 5000 UF filter			STD	STD
– PVDF Dispensing gun				
Included Filters & Accessories	• P.NIX Pre Pack • P.NIX RO Pack • P.NIX UP Pack • Level sensor • Manual • Hand lever • Power cord.			
Water Quality				
– TOC (ppb)	5 – 10	0 – 5	5 – 10	0 – 5
– Endotoxin (Eu/mℓ)	NA	NA	< 0.001	< 0.001
– Bacteria (cfu/mℓ)	< 1	< 1	< 1	< 1
– Particles (>0.22 μm/mℓ)	< 1	< 1	< 1	< 1

Controller functions

1. Self test : Self-diagnosis for external internal system & operating conditions.
2. Auto cleaning : At first switched-on, the system functions "auto-drain" to drain out all of the contaminated inside remaining waters.
3. Auto cleaning :
   1) Automatically the cleaning time will be set in proportion to inside contamination level.
   2) Auto-cleaning when the system produces higher than setting value.
   3) Auto-cleaning for maintenance of optimum water purity when stand-by.
   4) Flushing time setting : 1 to 99 min.
   5) Period cycle : 1 to 99 hrs.
4. Auto monitoring function for UP value : To maintain continuous stable UP value.
5. Volumetric dispensing : After setting timer, the quantitative water production is available
6. Auto-sensor calibration : Automatic compensating function to maintain the sensor accuracy.
7. Filter exchange indicator
   ① P.NIX Pre Pack ② P.NIX RO Pack ③ P.NIX UP Pack
8. Programmable by 2 steps
   1) 1st alert message : Reminder for filter pack exchange.
   2) 2nd alert message : Filter pack must be exchanged.
9. Built-in RS 232C Port :
   Various applications, maintenance and print are available by interfacing with PC.

Safety functions

1. Low pressure of tap water : Auto/manual operating modes.
2. Automatic pump stop functions :
   ① Low pressure ② Tank full ③ Suspension of tap water supply
3. Automatic adjustable function for products & drain volume.

Optional accessories	• PVDF $\frac{1}{4}$ dispensing gun • Pretreatment System • Software
Dimensions (W ×D ×H)	400 ×567 ×500 mm
Power	230V, 50/60 Hz, 60W

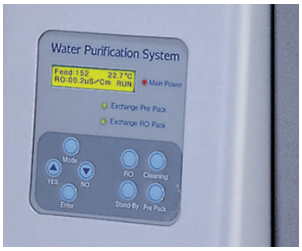
P

NIX Series

P.NIX RO

Pure Water

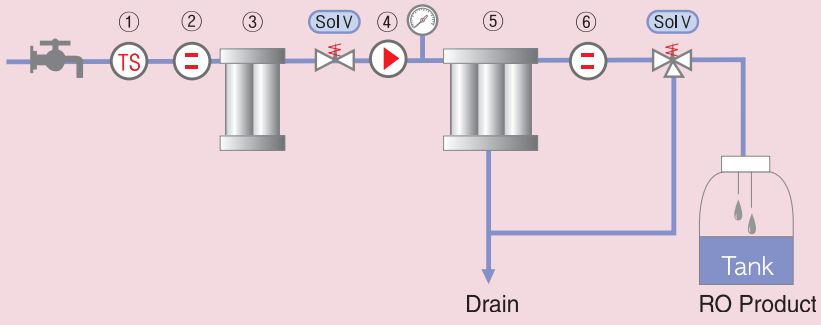
Human creates world class of water quality and value as your successful strategic business partner.







■ Flow Schematic



RO System ①Temp Sensor ②Feed Water Sensor ③Pre Pack ④Pump ⑤RO Pack ⑥Conductivity Sensor

Rejection Rate

- Monovalent ions : 95 ~ 99%
- Polyvalent ions : 98 ~ 99%
- Microorganism : 99%
- Particles : 99%
- Organics : 99%
- Pyrogen : 99%

Features

- Certified CE
- Certified ISO 9001 (No : K-920)
- Obtained GD, QD Mark (Good Design, Qualified Design)
- Awarded the Korean Excellent Products
- Built-in RS 232C Port
- Built-in volumetric dispensing function by timer
- Auto regular flushing to maintain the optimum water quality level
- Programming by 2 steps of water quality for the filter exchange

Specifications

	P.NIX RO 180	P.NIX RO 280	P.NIX RO 380
Product flow rate (RO)	Max. 15L/Hr	Max. 25L/Hr	Max. 35L/Hr
Water quality display	• Feed water : 10 to 1000 μS/cm • Temperature : 0 to 99.9℃ • RO product : 0.2 to 250.0 μS/cm		
Controller	Microprocess one touch technology		
Display	16 ×2 characters backlight LCD digital display		
Controller functions	1. Self test : Self-diagnosis for external & internal system operating conditions. 2. Auto cleaning : At the first switched-on, the system functions "auto-drain" to drain out all of the contaminated inside remaining waters. 3. Auto cleaning : ① Auto-drain time setting in proportion to inside contamination level ② Auto-cleaning when the system produces higher than setting value ③ Auto-cleaning for maintenance of optimum water purity even during switched-off ④ When the accumulated usage time is over ⑤ Manual cleaning function ⑥ Flushing time setting : 1 to 99 min. 4. Auto monitoring for RO value : After sensing RO value, auto-cleaning RO membrance 5. Volumetric dispensing : After setting of timer, the quantitative water production is available. 6. Filter exchange indicator : Programmable by 2 steps (P.NIX Pre Pack, P.NIX RO Pack) ① 1st alert message : Reminder for filter pack exchange ② 2nd alert message : Filter pack must be exchanged 7. Auto monitoring for feed water : When the purity and temperature of feed water are exceeding the setting value, the system will be stopped automatically. 8. Built-in RS 232C Port : Various applications, maintenance and print are available by interfacing with PC		
Safety functions	1. Low pressure of tap water : Auto/manual operating modes 2. Automatic pump stop functions : ① Low pressure ② Tank full ③ Suspension of tap water supply ④ Over conductivity & temp of feed water 3. Automatic adjustable function for products drain volume 4. Automatic system off : ① When the conductivity of feed water is getting worse ② When the temperature of feed water is increasing		
Standard accessories	• P.NIX Pre Pack • P.NIX RO Pack • Level sensor • Manual • Power cord		
Optional accessories	Pretreatment system, Software, Post treatment system (Ion Pack)		
Dimensions (W ×D ×H)	295 ×500 ×465 mm		
Power	230V, 50/60 Hz 60W		
Ion Pack	2 Hole / 3 Hole Pack		

P

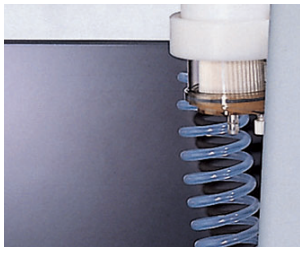
NIX Series

P.NIX UP 900

Ultra Pure Water

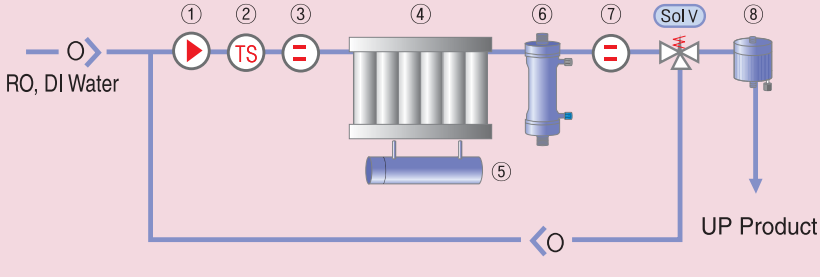
Human upgrades the volumetric quantitative production and adjustment sensor functions to make it perfect.







■ Flow Schematic



UP System	①Pump ②Temp Sensor ③Feed Water Sensor ④UP Pack ⑤254/185 UV Lamp ⑥MW5000 UF Filter ⑦Resistivity Sensor ⑧0.2㎛ Final Filter

Features

Certified ISO 9001 G.D Excellent Product Q.D

- Certified CE
- Certified ISO 9001 (No : K-920)
- Obtained GD, QD Mark (Good Design, Qualified Design)
- Awarded the Korean Excellent Products
- Awarded "Top 100 excellent patented products"
- Built-in RS 232C Port
- Built-in volumetric dispensing function by timer
- Automatic regular recirculation to maintain the optimum water quality level
- Programming by 2 steps for the filter & UV lamp exchanges to maintain water quality

Applications

Type	*Scholar*	*Scholar-UV*	*Bio*	*Integrate*
Type Ⅰ grade water	●	●	●	●
Analytical Instruments	●	●	●	●
AAS, ICP/MS, IC	●	●		●
HPLC, GC, TOC		●		
Organic analysis		●		●
Cell & tissue culture			●	●
In vitro fertilization			●	●
Electrophoresis			●	●
R Nase, D Nase & DNA free				●
Molecular Biology				●

Applicable Model
- Zeneer UP
- P.NIX Power, UP
- New Human Power, UP
- Nex Power, UP

Specifications

	P.NIX UP 900			
Water quality display	• Feed water : 0 to 100 μS/cm • Temperature : 0 to 99.9℃ • UP product : Up to 18.3 MΩ-cm			
Controller	Microprocess one touch technology			
Display	16×2 characters backlight LCD digital display			
Type	***Scholar***	***Scholar-UV***	***Bio***	***Integrate***
Feature				
– 0.2 μm Final filter	STD	STD	STD	STD
– 254/185 UV lamp		STD		STD
– MW 5000 UF filter			STD	STD
– Dispenser	STD	STD	STD	STD
– PVDF ½ Dispensing gun				
Included Filters & Accessories	• P.NIX UP Pack • Manual • Power Cord			
Water Quality				
– Product flow rate (L/min)	1.2	1.2	1.0	1.0
– TOC (ppb)	5 – 10	0 – 5	5 – 10	0 – 5
– Endotoxin (Eu/mℓ)	NA	NA	< 0.001	< 0.001
– Bacteria (cfu/mℓ)	< 1	< 1	< 1	< 1
– Particles (>0.22μm/mℓ)	< 1	< 1	< 1	< 1

Controller functions

1. Self test : Self-test for external & internal system operating conditions.
2. Auto recirculation functions : ① Regular recycling every setting time
   ② Automatic recycling when the product resistivity is less than setting value
   ③ "Standby" display : Auto recycling lower than setting value
   ④ Manual recycling function
3. Volumetric Dispensing : After setting a timer, the quantitative water production is available.
4. Auto sensor Calibration : Automatic compensating function to maintain the sensor accuracy.
5. Filter exchange indicator (Programmable by 2 steps)
   ① 1st alert message : Reminder for filter pack exchange
   ② 2nd alert message : The filter pack must be exchanged
6. UV lamp exchange indicator :
   At the accurate time for UV lamp exchange, the exchangemessage will be displayed.
7. Auto monitoring for feed water quality : When the purity and temperature of feed water are exceeding the setting value, the system will be stopped automatically.
8. Built-in RS 232C Port : Various application, maintenance and print are available by interfacing with PC

Safety functions

Automatic system stop ;
1. Feed water quality monitoring : Check for the purity of feed water
2. Feed water temp monitoring 3. UV lamp monitoring

UP water analyzing data

Fe	Cu	Al	Ni	Zn	Cr	Na	K	Cl^-	NO_2^-	NO_3^-	SO_4^{-2}	(ppb)
<0.005	<0.005	<0.005	<0.005	<0.02	<0.005	<0.01	<0.02	<0.01	<0.02	<0.02	<0.01	

Optional accessories	Software
Dimensions (W×D×H)	295×500×465mm
Power	230V, 50/60 Hz, 60W

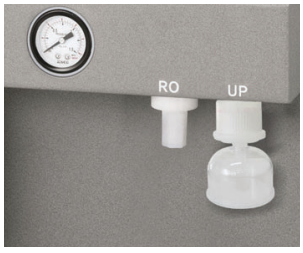
Human Series

New Human Power

RO & UP System

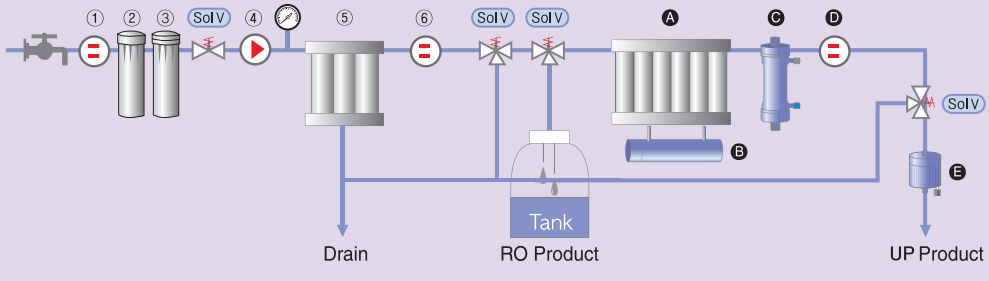
Human is the global Standard in water system.







Flow Schematic





RO System	①Feed water sensor ②Prefilter ③A/C Filter ④Pump ⑤RO Pack ⑥Conductivity sensor
UP System	Ⓐ UP Pack Ⓑ 254/185 UV Lamp Ⓒ MW5000 UF Filter Ⓓ Resistivity sensor Ⓔ 0.2 ㎛ Final filter

Selectable colors

Advantages for Power System

New Human Power

- With combined in one system of RO (Reverse Osmosis) and UP (Ultra Pure), it can be produced the pure water and ultra pure water simultaneously at one compact system.
- Simply exchangeable the filter pack.
- Available to produce the world class of analytical grade water, such as ASTM type Ⅰ, type Ⅱ, type Ⅲ from the tap water.

Features

- Certified CE, ISO 9001
- Obtained GD, QD Mark (Good Design, Qualified Design)
- Awarded the Korean Excellent Products
- Awarded "Top 100 Excellent Patented Products"
- Auto calibration for water sensors
- Auto regular recycling every hour
- Standby function : Auto recycling lower than setting value.
- Programmable by 2 steps for the filter exchanges to maintain water quality.

Applications

Refer to page . 19

Specifications

	New **Human Power ® Ⅰ**	*New* **Human Power ® Ⅱ**	*New* **Human Power ® Ⅲ**
Product flow rate (RO.UP)	Max. 15L / Hr	Max. 25L / Hr	Max. 35L / Hr
Water quality display	• Feed water : 0 to 999 ㎲/㎝ (Optional) • Pure water : 0.0 to 250.0 ㎲/㎝ • Ultra pure : 0.0 to 18.3 ㏁-㎝		
Controller	Microprocess one touch technology		
Display	16×2 characters backlight LCD digital display		

Type	*Scholar*	*Scholar-UV*	*Bio*	*Integrate*
Feature				
– 0.2 ㎛ Final filter	STD	STD	STD	STD
– 254/185 UV lamp		STD		STD
– MW 5000 UF filter			STD	STD
– PVDF ¼ Dispensing gun				
Included Filters & Accessories	• Prefilter • Super A/C filter • Human RO Pack • Power UP Pack, • Level sensor • Manual, • Hand Lever • Power cord			
Water Quality				
– TOC (ppb)	5 – 10	0 – 5	5 – 10	0 – 5
– Endotoxin (Eu/㎖)	NA	NA	< 0.001	< 0.001
– Bacteria (cfu/㎖)	< 1	< 1	< 1	< 1
– Particles (>0.22 ㎛/㎖)	< 1	< 1	< 1	< 1

Controller functions	1. Self test : self-test for diagnosing operating conditions. (Internal/External) 2. Auto cleaning functions ; ① When it turns on : Auto extension cleaning ② "Ready" display : Auto regular cleaning ③ "Standby" display : Auto cleaning lower than setting value 3. Built-in auto sensor calibration 4. Built-in auto reset function 5. Filter exchange indicator (Programmable by 2 steps : 1st reminder & 2nd exchange) ① A/C filter ② Human RO Pack ③ Power UP Pack ④ 254/185 UV Lamp
Safety functions	1. Low pressure of tap water : Auto/manual operating modes 2. Automatic motor stop functions : ①Low pressure ②Tank full ③Suspension of tap water supply
Optional accessories	• PVDF ¼ Dispensing gun • Pretreatment system
Dimensions (W×D×H)	400×567×500mm
Power	230V, 50/60㎐, 60W

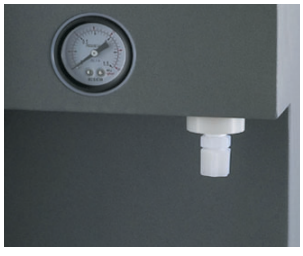
Human Series

New Human RO

Pure Water

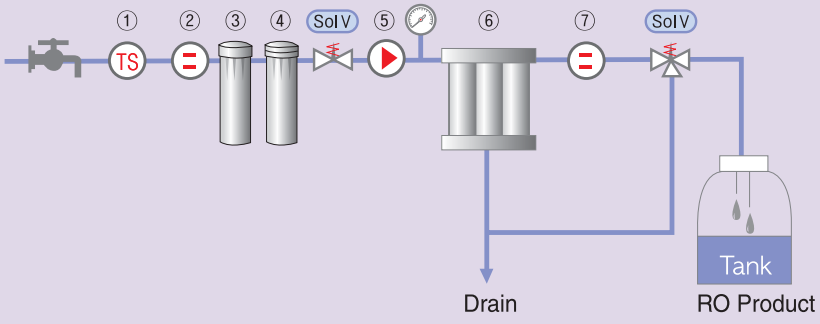
The endless investment on R&D and unparalleled accumulated know-how.
Yes, that's Human!







Flow Schematic





RO System ①Temp Sensor ②Feed Water Sensor ③Prefilter ④A/C Filter ⑤Pump ⑥RO Pack ⑦Conductivity Sensor

Selectable colors

Rejection Rate

- Monovalent ions : 95 ~ 99%
- Polyvalent ions : 98 ~ 99%
- Microorganism : 99%
- Particles : 99%
- Organics : 99%
- Pyrogen : 99%

Applications

- General laboratory tests
- Preparation of stock solution
- Washing & rinsing of glassware
- Feed water for ultra pure system

Features

- Certified CE, ISO 9001
- Obtained GD, QD Mark (Good Design, Qualified Design)
- Awarded the Korean Excellent Products
- Awarded "Top 100 Excellent Patented Products"

Specifications

	New Human RO®180	*New* Human RO® 280	*New* Human RO® 380
Product flow rate	Max. 15L/Hr	Max. 25L/Hr	Max. 35L/Hr
Water quality display	• Feed water : 0 to 999 ㎲/㎝ (Optional) • Temperature : 0 to 99.9℃ (Optional) • RO product : 0.0 to 250.0 ㎲/㎝		
Controller	Microprocess one touch technology		
Display	16×2 characters backlight LCD digital display		
Controller functions	1. Self test : Self-test for diagnosing operating conditions. (Internal/External) 2. Auto cleaning: ① When it turns on : Auto extension cleaning ② "Ready" display : Auto regular cleaning ③ "Standby" display : Auto cleaning lower than setting value ④ Built-in manual cleaning function ⑤ When the accumulated usage time is over 3. Built-in auto reset function. 4. Filter exchange indicator (Programmable by 2 steps : 1st reminder & 2nd exchange) ① A/C filter ② Human RO Pack		
Safety functions	1. Low pressure of tap water : Auto/manual operating modes 2. Automatic pump stop functions : ① Low pressure ② Tank full ③ Suspension of tap water supply ④ Over conductivity & temp of feed water (optional)		
Standard accessories	• Prefilter • A/C filter • Human RO Pack • Level sensor • Manual • Hand lever • Power cord.		
Optional accessories	Pretreatment System		
Dimensions (W×D×H)	345×567×490 mm		
Power	230V, 50/60 ㎐, 60W		

Human Series

New Human UP

Ultra Pure

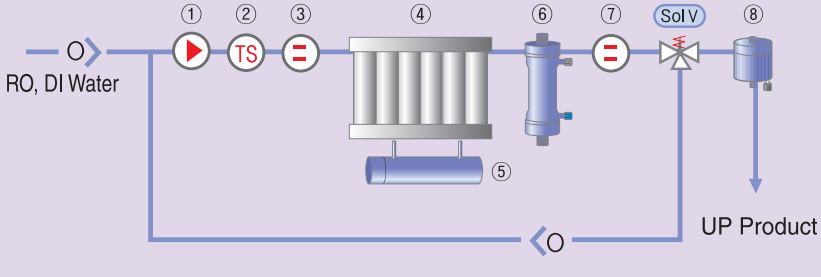
Human makes it real perfectly for 18.3MΩ-cm!







Flow Schematic





UP System	①Pump ②Temp Sensor ③Feed Water Sensor ④UP Pack ⑤254/185 UV Lamp ⑥MW5000 UF Filter ⑦Resistivity Sensor ⑧0.2㎛ Final Filter

Selectable colors

Certified ISO 9001 G.D Excellent Product Q.D

Applications

Type	*Scholar*	*Scholar-UV*	*Bio*	*Integrate*
Type Ⅰ grade water	●	●	●	●
Analytical Instruments	●	●	●	●
AAS, ICP/MS, IC	●	●		●
HPLC, GC, TOC		●		
Organic analysis		●		●
Cell & tissue culture			●	●
In vitro fertilization			●	●
Electrophoresis			●	●
R Nase, D Nase & DNA free				●
Molecular Biology				●

Applicable Model
- Zeneer UP
- P.NIX Power, UP
- New Human Power, UP
- Nex Power, UP

Features

- Certified CE, ISO 9001
- Obtained GD, QD Mark (Good Design, Qualified Design)
- Awarded the Korean Excellent Products
- Awarded "Top 100 Excellent Patented Products"
- Auto calibration for water sensors
- Auto regular recycling every hour
- Standby function : Auto recycling lower than setting value.
- Programmable by 2 steps for the filter exchanges to maintain water quality

Specifications

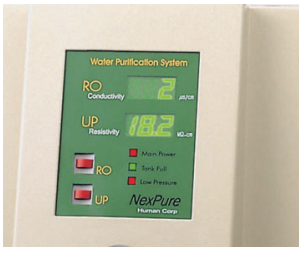
	New **Human UP® 900**			
Water quality display	• Feed water : 0 to 250 ㎲/㎝ (Optional) • Temperature : 0 to 99.9℃ (Optional) • UP products : up to 18.3 ㏁-㎝			
Controller	Microprocess one touch technology			
Display	16×2 characters backlight LCD digital display			
Type	***Scholar***	***Scholar-UV***	***Bio***	***Integrate***
Feature				
– 0.2 ㎛ Final filter	STD	STD	STD	STD
– 254/185 UV lamp		STD		STD
– MW 5000 UF filter			STD	STD
– PVDF ¼ Dispensing gun				
Included Filters & Accessories	• Post A/C filter • Human UP Pack • Manual • Power cord.			
Water Quality				
– Procuct flow rate (L/min)	1.2	1.2	1.0	1.0
– TOC (ppb)	5 – 10	0 – 5	5 – 10	0 – 5
– Endotoxin (Eu/㎖)	NA	NA	< 0.001	< 0.001
– Bacteria (cfu/㎖)	< 1	< 1	< 1	< 1
– Particles (>0.22 ㎛/㎖)	< 1	< 1	< 1	< 1
Controller functions	1. Self test : self-test for diagnosing operating conditions. (Internal/External) 2. Auto recycling functions ① Regular recycling every setting time ② Automatic recycling when the product resistivity is lower than setting value ③ "Standby" display : Auto recycling lower than setting value ④ Manual recycling function 3. Built-in auto sensor calibration 4. Built-in auto reset function 5. Filter exchange indicator (Programmable by 2 steps : 1st reminder & 2nd exchange) ① Human UP Pack ② 254/185 UV Lamp			
Safety functions	Automatic system stop ; 1. Feed water quality monitoring : Check for the purity of feed water (optional) 2. Feed water temp monitoring (optional) 3. UV lamp monitoring			
UP water analyzing data	1> metal impurity (unit : ppb)		2> anion/cation (unit : ppb)	
	Fe <0.005 / Cu <0.005 / Al <0.005 / Ni <0.005 / Zn <0.02 / Cr <0.005 / Na <0.01 / K <0.02		Cl^- <0.01 / NO_2^- <0.02 / NO_3^- <0.02 / SO_4^{-2} <0.01	
Dimensions (W×D×H)	345×567×490 mm			
Power	230V, 50/60㎐, 60W			

Nex Series

Nex Power

RO & UP System

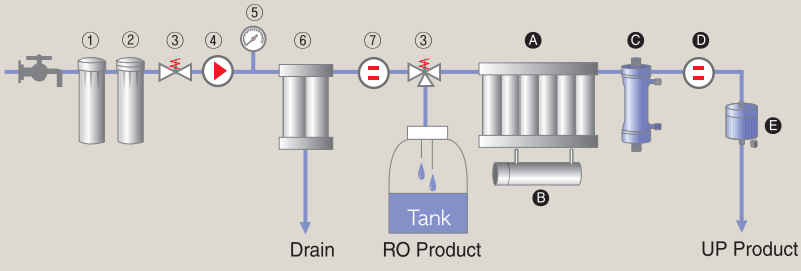
Human thinks about next generation, Nex Power!







■ Flow Schematic



RO System	①Prefilter ②A/C filter ③Solenoid valve ④Pump ⑤Pressure gauge ⑥Human RO Pack ⑦Conductivity meter
UP System	Ⓐ Power UP Pack Ⓑ 254/185 UV Lamp ⓒMW5000 UF filter Ⓓ Resistivity meter Ⓔ 0.2㎛Final filter

Applications

Type	*Scholar*	*Scholar-UV*	*Bio*	*Integrate*
Type Ⅰ grade water	●	●	●	●
Analytical Instruments	●	●	●	●
AAS, ICP/MS , IC	●	●		●
HPLC, GC, TOC		●		
Organic analysis		●		●
Cell & tissue culture			●	●
In vitro fertilization			●	●
Electrophoresis			●	●
R Nase, D Nase & DNA free				●
Molecular Biology				●

Applicable Model
- Zeneer UP
- P.NIX Power, UP
- New Human Power, UP
- Nex Power, UP

Features

- Certified ISO 9001 (NO : K-920)
- Produce Pure water & Ultra Pure water, simultaneously
- Very simple to exchange the Filter-Pack

Specifications

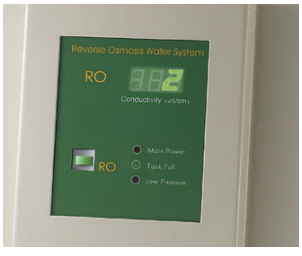
	Nex Power 1000	Nex Power 2000	Nex Power 3000	Nex Power 4000
Certified mark	Certified ISO 9001 (NO : K-920)			
Product flow rate (RO.UP)	Max. 15L/Hr	Max. 25L/Hr	Max. 35L/Hr	Max. 45L/Hr
Product water quality	• RO Product : 0 to 30 ㎲/㎝ • UP Product : Up to 18.3 ㏁-㎝			
Water quality display	Digital Display 【 **RO Value** : 0 to 200 ㎲/㎝, **UP Value** : 1 to 18.3 ㏁-㎝ 】			
Pump running pressure	0 to 10 ㎏/㎠			
Feed water temp	2 to 35 ℃			
Max fouling index (SDI)	< 5			
Type	***Scholar***	***Scholar-UV***	***Bio***	***Integrate***
Feature				
– 0.2 ㎛ Final filter	STD	STD	STD	STD
– 254/185 UV lamp		STD		STD
– MW 5000 UF filter			STD	STD
– PVDF ¼ Dispensing gun				
Included Filters & Accessories	• Prefilter • Super A/C filter • Human RO Pack • Power UP Pack • Level sensor • Manual • Hand Lever • Power cord			
Water Quality				
– TOC (ppb)	5 – 10	0 – 5	5 – 10	0 – 5
– Endotoxin (Eu/㎖)	NA	NA	< 0.001	< 0.001
– Bacteria (cfu/㎖)	< 1	< 1	< 1	< 1
– Particles (>0.22 ㎛ /㎖)	< 1	< 1	< 1	< 1
Safety functions	1. Low Pressure of Tap Water : Auto/Manual operating modes 2. Automatic pump stop functions : ①Low pressure ②Tank full ③Suspension of tap water supply			
Optional accessories	Pretreatment system			
Dimensions (W ×D ×H)	400 ×570 ×500 mm			
Power	230V, 50/60 ㎐, 60 W			

Nex Series

Nex RO

Pure Water

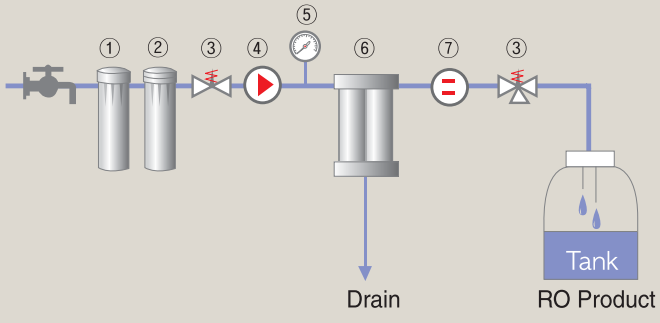
More effectively and more newly, Nex RO System!







■ Flow Schematic



R.O System	①Prefilter ②A/C filter ③Solenold valve ④Pump ⑤Pressure gauge ⑥Human RO Pack ⑦Conductivity meter

Applications

- General laboratory tests.
- Preparation of stock solution.
- Feed water for UP system.

Rejection Rate

- Monovalent ions : 95 ~ 99%
- Polyvalent ions : 98 ~ 99%
- Microorganism : 99%
- Particles : 99%
- Organics : 99%
- Pyrogen : 99%

Features

- Certified ISO 9001
- ASTM Type Ⅱ grade water
- Very simple to exchange the filter-pack

Specifications

	Nex RO 1000	Nex RO 2000	Nex RO 3000	Nex RO 4000
Certified mark	Certified ISO 9001 (NO : K-920)			
Product flow rate (RO)	Max. 15L/Hr	Max. 25L/Hr	Max. 35L/Hr	Max. 45L/Hr
Product water quality	0 to 30 ㎲/㎝			
Water quality display	Digital display [RO value : 0 to 200 ㎲/㎝]			
Pump running pressure	0 to 10 ㎏/㎠			
Feed water temp	2 to 35℃			
Max fouling index (SDI)	< 5			
Salt rejection rate	99%			
Safety functions	1. Low pressure of tap water : auto/manual operating modes 2. Automatic, motor stop functions : ①Low pressure ②Tank full ③Suspension of tap water supply			
STD accessories	1. Prefilter, A/C filter, Human RO pack 2. Level sensor, manual, Hand lever			
Optional accessories	Pretreatment System			
Dimensions (W×D×H)	340×570×480mm			
Power	230V, 50/60㎐ 60W			

Nex Series

Nex UP

Ultra Pure

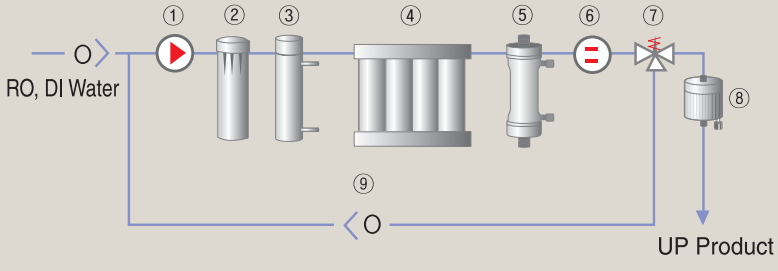
More upgraded and more purely, Nex UP System!







■ Flow Schematic



UP System	①Pump ②Post A/C filter ③254/185 UV lamp ④Human UP Pack ⑤MW 5000UF filter ⑥Resistivity Meter ⑦Solenoid valve ⑧0.2㎛ Find filter ⑨Check valve

Applications

Type	Scholar	Scholar-UV	Bio	Integrate
Type Ⅰ grade water	●	●	●	●
Analytical Instruments	●	●	●	●
AAS, ICP/MS , IC	●	●		●
HPLC, GC, TOC		●		
Organic analysis		●		●
Cell & tissue culture			●	●
In vitro fertilization			●	●
Electrophoresis			●	●
R Nase, D Nase & DNA free				●
Molecular Biology				●

Applicable Model
- Zeneer UP
- P.NIX Power, UP
- New Human Power, UP
- Nex Power, UP

Features

- Certified ISO 9001
- ASTM type Ⅰ grade water
- Ultra pure water quality : <18.3㏁-㎝
- Very simple to exchange the filter-pack

Specifications

	Nex UP 1000			
Certified mark	Certified ISO 9001 (NO : K-920)			
Water quality display	Up to 18.3 ㏁-㎝			
Display	LED digtal display			
Type	**Scholar**	**Scholar-UV**	**Bio**	**Integrate**
Feature				
– 0.2㎛ Final filter	STD	STD	STD	STD
– 254/185 UV lamp		STD		STD
– MW 5000 UF filter			STD	STD
– PVDF ¼ Dispensing gun				
Included Filters & Accessories	• Post A/C filter • Human UP Pack • Manual • Power cord			
Water Quality				
– Procuct flow rate (L/min)	1.2	1.2	1.0	1.0
– TOC (ppb)	5 – 10	0 – 5	5 – 10	0 – 5
– Endotoxin (Eu/㎖)	NA	NA	< 0.001	< 0.001
– Bacteria (cfu/㎖)	< 1	< 1	< 1	< 1
– Particles (>0.22 ㎛/㎖)	< 1	< 1	< 1	< 1
Safety functions	Recirculation function - To maintain optimum quality and inhibit microbial growth			
UP water analyzing data	1. Metal impurity (unit : ppb)		2. Anion/cation (unit : ppb)	

Fe	Cu	Al	Ni	Zn	Cr	Na	K
<0.005	<0.005	<0.005	<0.005	<0.02	<0.005	<0.01	<0.02

Cl^-	NO_2^-	NO_3^-	SO_4^{-2}
<0.01	<0.02	<0.02	<0.01

Filter pack (one touch molding pack)	Very simple to exchange the one-touch molding filter-pack
STD accessories	1. A/C filter, Human UP Pack 2. Manual, Power cord
Optional accessories	PVDF 1/4 dispensing gun
Dimensions (W×D×H)	340×570×480mm
Power	230V, 50/60㎐, 60W

Water Pretreatment Series

for RO & Power System

1 HMC-PT-1



2 HMC-PT-2



3 HMC-PT-3



Specifications

Picture No.	Constitution	Part No.	Remark
1	1) 10″ Prefilter : 1ea 2) 10″ Housing : 1ea 3) Stand	HMC - PT - 1	In case of plenty of particles and rust in the feed water.
2	1) 10″ Prefilter : 2ea 2) 10″ Housing : 2ea 3) Stand	HMC - PT - 2	In case of plenty of particles and rust in the feed water.
3	1) 10″ Prefilter : 1ea 2) 10″ A/C filter : 1ea 3) 10″ Housing : 2ea 4) Stand	HMC - PT - 3	① When the feed water is the Ground water. ② In case of plenty of particles, rust and organics in the feed water. ③ When the conductivity of feed water is more than 300 ~ 400 ㎲/㎝.

Automatic Regeneration Softner

Model	Volume	In/Outlet	Flow Rate	Tank (cm)	
				Resin	Salt
HMC-AR6	6 L	20 mm	1000L/Hr	15 ×45	24 ×42 ×72
HMC-AR20	10 L	20 mm	1500L/Hr	20 ×45	24 ×42 ×72



4 HMC-WS10



5 HMC-WS10-1



6 HMC-WS10-2



Specifications

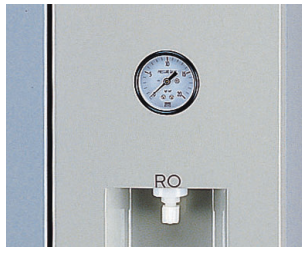
Picture No.	Constitution	Part No.	Remark
4	1) Water Softner 2) Stand	HMC - WS10	①When the feed water is the Ground water. ②In case of plenty of particles, organics and rust in the feed water. ③In case of plenty of Hardness (Ca^{++}, Mg^{++})in the feed water. ④When the conductivity of feed water is more than 300 ~ 400 μs/㎝.
5	1) Water Softner : 1ea 2) 10″ Prefilter : 1ea 3) Stand	HMC - WS10 - 1	①When the feed water is the Ground water. ②In case of plenty of particles, organics and rust in the feed water. ③In case of plenty of Hardness (Ca^{++}, Mg^{++})in the feed water. ④When the conductivity of Feed water is more than 300 ~ 400 μs/㎝.
6	1) Water Softner : 1ea 2) 10″ Prefilter : 1ea 3) 10″ A/C filter : 1ea 4) Stand	HMC - WS10 - 2	①When the feed water is the Ground water. ②In case of plenty of particles, organics and rust in the feed water. ③In case of plenty of Hardness (Ca^{++}, Mg^{++})in the feed water. ④When the conductivity of feed water is more than 300 ~ 400 μs/㎝.
Filters	10″ Prefilter	HMC - 10PF	
	10″ A/C filter	HMC - 10AC	

Pilot Series

Silent Pilot System

Human developed incredibly *silent noiseless Pilot System!*







RO Membrane

This water purifying method is to extract pure water (RO) by applying the pressure into the RO membrane which contains 0.0001 ~ 0.001 micro meter pore size and this is highly effective in removing several impurities around up to 95 ~ 99% from feed water : Metal ions, Organics, Particles, Micro organism.

Rejection Rate

- Monovalent ions : 95 ~ 99%
- Polyvalent ions : 98 ~ 99%
- Microorganism : 99%
- Particles : 99%
- Organics : 99%
- Pyrogen : 99%

Applications

- Monovalent ions : 95 ~ 99%
- Polyvalent ions : 98 ~ 99%
- Microorganism : 99%
- Particles : 99%
- Organics : 99%
- Pyrogen : 99%

Specifications

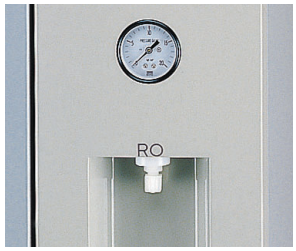
	Silent RO 200P	Silent RO 400P
Certified mark	Certified ISO 9001 (NO : K-920)	
Product flow rate	100 to 200 L/Hr	300 to 400 L/Hr
Product water quality	• RO : 0 to 50 μs/cm • UP : Up to 18.3 MΩ-cm (Option)	
Display	LED digital display 【 RO : 0 to 200 μs/cm UP : 1 to 18.3 MΩ-cm (Option) 】	
Pressure gauge	• Dia 65 mm • 0 to 20 kg/cm²	
Safety functions	1. Low pressure of tap Water : Auto/manual operating modes 2. Automatic motor stop functions ①Low pressure ②Tank full ③Suspension of tap water supply 3. Double safety function in case of water shortage ① 1st step : Pressure S/W ②2nd step : Motor & Pump	
STD accessories	• Prefilter • A/C filter • R/O membrane • Level sensor	
Dimensions (W ×D ×H)	500 ×450 ×1415 mm	
Power	220V, 50/60 Hz, 1 KW	
Optional accessories	• Pretreatment system • 254 UV lamp • Ion-ex Vessel • Water tank	
Noise	Less than 65 dB	

Certified ISO 9001 G.D Excellent Product Q.D

Pilot Series

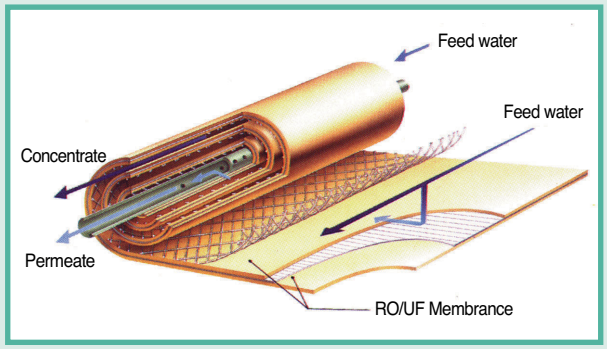
Pilot System



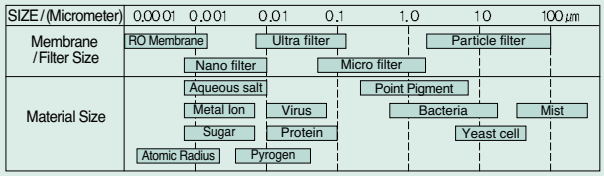




The structure of RO Membrane



■ Filtration Spectrum



Specifications

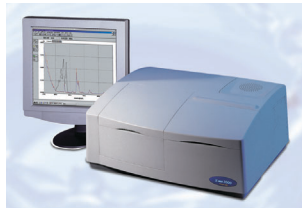
	Pure RO 100P	Pure RO 200P	Pure RO 400P	Pure RO 600P
Certified Mark	Certified ISO 9001 (NO : K-920)			
Product Flow Rate	80 to 120 L/Hr	150 to 250 L/Hr	350 to 450 L/Hr	550 to 650 L/Hr
Product Water Quality	• RO : 0 to 50 ㎲/㎝ • UP : Up to 18.3 MΩ-㎝ (Option)			
Display	LED digital display【RO : 0 to 200 ㎲/㎝ UP : 1 to 18.3 MΩ-㎝ (Option) 】			
Pressure Gauge	• Dia 65mm • 0 to 20 ㎏/㎠			
Safety Functions	1. Low Pressure of Tap Water : Auto/Manual Operating Modes 2. Automatic Motor Stop Functions : ①Low Pressure ②Tank full ③Suspension of tap water supply			
STD Accessories	• Prefilter • A/C filter • R/O Membrane • Level Sensor			
Dimensions (W×D×H)	500×450×1000mm	500×450×1415mm		500×600×1415mm
Power	220V, 50/60㎐, 1KW			
Optional Accessories	• Pretreatment system • 254 UV lamp • Ion-ex Vessel • Water Tank			

Human Corporation

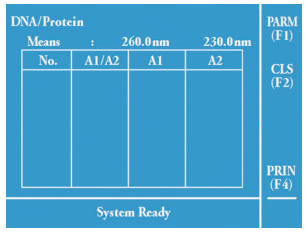
U

V/VIS Spectrophotometer

X-ma 2000



X-ma 2000PC



DNA/Protein Mode



UV & VIS Spectrophotometer

- Built-in 8 cell holder
- Built-in RS-232C port for interface with computers
- Single & double beam system for the best stability
- High resolution scanning
- Easy-to-use instrument

Specifications

Specifications		Program Functions (Software)	
Wavelength range Accuracy Reproducibility	200 to 1100 nm ±0.5 nm 0.2 nm	1) Photometry	①Multi-wavelength range : Up to 10 wavelength ②Repeating Detecting : 1 to 999 times ③Detecting Data Calculate ④Slit Value : 0.5, 1, 2, 5.0 nm ⑤Response time : 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1.0, 2.0 sec ⑥Abs value Readability : 0.001, 0.0001 Abs ⑦Wavelength Correction : 0.1, 0.2, 0.5, 1, 2, 5 nm
Monochrometer	Double-Beam CT &Single-Beam CT Holographic diffraction grating		
Photometric modes • Absorbance • Transmittance • Concentration • Refractance • Energy Gain • DNA/RNA	 - 0.4000 to 4.0000 0.00 to 200.00 %T ±9999 C 0.00 to 200.00 %R (with PC) 0 to 20 Built-in Program	2) Spectrum	①Survey Scanning - Measuring Mode : Abs. %T. Es. Er. R% - Repeat Cycle : 1 to 9 times - Scan Slit : Auto, 0.05, 0.1, 0.2, 0.5, 1.0, 2.0, 5.0 nm ②Data Handling - Zoom Spectrum - Zoom Window - Read Screen - Derivative Scans : Smooth, Ist, 2th, 3th, 4th Derivative, log 10, 1/Y, Abs → %T - Peak Picking - Radar - Read Spectrum
Photometric Accuracy	±0.0005 Abs		
Stability	±0.0005 Abs		
Spectral Bandwidth	< 2 nm		
Measuring modes	Abs. %T. Conc. Ems. Ess %R		
Auto wavelength Calibration	Auto calibration function at 486.0 & 656.0 nm		
Scan Speed Bandwidth	200 to 1100 nm/min 0.1 0.2 0.5 1.0 2.0 nm	3) Quantitative	①STD Calibration Curve : Linear, Quadratic, Cubic, Quartic. ②STD Calibration : 1 to 24 STD sol'n
Display	• Backlight Graphic LCD Display • Folder Type	4) Kinetic Function	①Multi-wavelength : 1 to 10 wavelength ②Time Setting - Auto - Reaction Time & Acquisition rate, setting - Number of reading value ③Repeat ④Measuring value : Abs, %T, Es, Er, R% ⑤Repeat cycle : 1 ~ 10 times.
Sample cell holder	Auto 8 Cell Holder		
Dimensions (W×D×H)	500×400×240 mm		
Optional Accessories	• Sipper System • Constant Thermo 5 Cell Holder • Operating software for P/C • Micro cell Holder		

Certified ISO 9001 G.D Excellent Product Q.D

V/VIS Spectrophotometer

SP-2000 Series







UV & VIS Spectrophotometer

- Built-in RS 232C Port
- Microprocessor controller
- Automatic changeable wavelength range
- High accuracy and quality

Specifications

Model	SP- 2000 UV	SP- 2100 VIS
Optical system	Littrow type, single beam, grating system 1200 line/mm	
Spectral slitwidth	2 nm	
Wavelength range	200 ~ 1000 nm	320 ~ 1000 nm
Wavelength accuracy	±1 nm	
Repeatability	0.5 nm	
Stray radiant energy	≤0.1%T@220 nm and 340 nm	≤0.1%T@340 nm
Photometric range	① %T : 0.00 to 125.0%T ② Abs : - 0.097 to 2.500 Abs ③ Conc : 0 to 9999C	
RS232C Port	Built-in	
Cell holder	4-Cell holder	
Kinetic function	Software (Optional)	
Wavelength lamp change	Automatic	
Light source	• Deuterium lamp • Tungsten halogen lamp	• Tungsten halogen lamp
Stability	±0.002 A/Hr	
Photometric accuracy	±0.008 A@0.5 A	±0.004 A@0.5 A
Power requirement	115/230V (±10%), 60/50 Hz adjustable	
Dimensions (W×D×H)	435×365×175mm	
Optional accessories	Software for P/C, Micro cell holder, etc	

U

V/VIS Spectrophotometer

UV-9100 Series







UV / VIS Spectrophotometer

With cost effectiveness, Human guarantees the perfect accuracy

Specifications

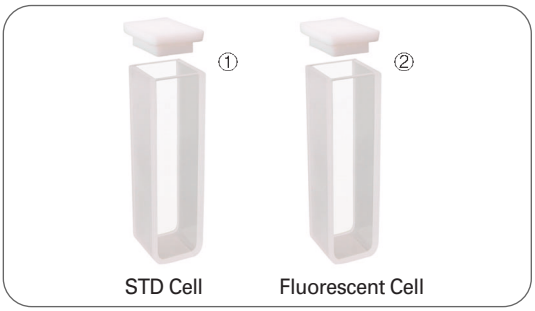
Model	UV - 9100	UV - 9200	VIS - 7220	VIS - 7220G
Wavelength Range	180 to 830nm	190 to 1000nm	350 to 830nm	320 to 1100nm
Accuracy	±1.0nm			
Reproducibility	±0.5nm			
Photometric Reproducibility	≤0.3%T			
Spectral Bandwidth	±2nm			
Operating Modes	①Absorbance : 0.00 to 2.000 ②Transmittance : 0.00 to 110%T ③Concentration : Direct reading 0 to 999			
Display Mode	LED Display with four digits			
Monochromater	Single beam Czerny - Turner type			
Grating	1200L/mm			
Light Source	• Tungsten Halogen Lamp • Deuterium Lamp		• Tungsten Halogen Lamp	
Standard Cell Holder	4 Cell Position			
Dimensions (W×D×H)	472×372×180mm		370×470×180mm	
Power	220/110V, 60Hz, 120W		220/110V, 60Hz, 80W	

Optional Accessories : 1. Quartz cell 2. Glass Cell 3. Printer

V/VIS Spectrophotometer

Quartz · Glass Cell

With top class quality but most effective price

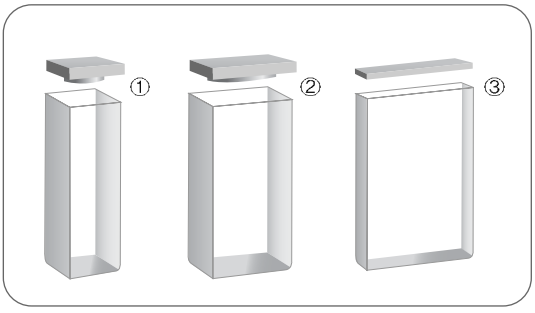


STD Cell Fluorescent Cell

A

with PTFE lid

No Dimensions (W×D×H)mm	Light path / inside W	Volume (ml)	UV grade (170mm ~)	Glass grade (320mm ~)
			Quartz	Glass
①12.5×12.5×45	10/10	3.5	1001 – 104	1003 – 104
②12.5×12.5×45	10/10	3.5	1001 – 204	1003 – 204

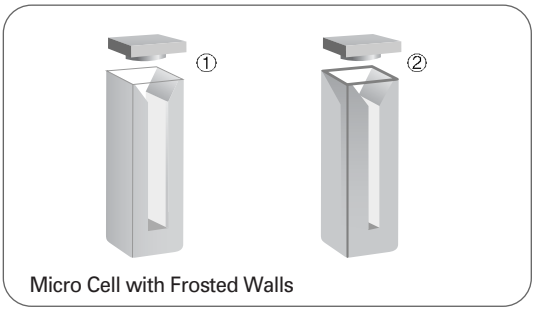


B

with PTFE lid

No Dimensions (W×D×H) mm	Light path /inside W	Volume (ml)	UV grade (170mm ~)	Glass grade (320mm ~)
			Quartz	Glass
①12.5×7.5×45	5/10	1.7	1001 – 3	1003 – 3
②12.5×22.5×45	20/10	7.0	1001 – 5	1003 – 5
③12.5×32.5×45	30/10	10.5	1001 – 6	1003 – 6

Micro Cell

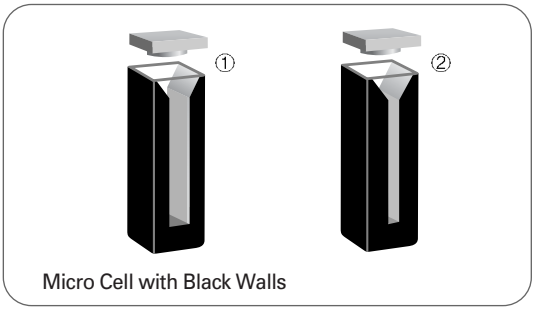


Micro Cell with Frosted Walls

C

with PTFE lid

No Dimensions (W×D×H) mm	Light path /inside W	Volume (ml)	UV grade (170mm ~)	Glass grade (320mm ~)
			Quartz	Glass
①12.5×12.5×45	10/1	0.25	1001 – 234	1003 – 234
②12.5×12.5×45	10/2	0.5	1001 – 244	1003 – 244
③12.5×12.5×45	10/3	0.75	1001 – 254	1003 – 254
④12.5×12.5×45	10/4	1.0	1001 – 264	1003 – 264
⑤12.5×12.5×45	10/5	1.25	1001 – 274	1003 – 274



Micro Cell with Black Walls

D

with PTFE lid

No Dimensions (W×D×H) mm	Light path /inside W	Volume (ml)	UV grade (170mm ~)	Glass grade (320mm ~)
			Quartz	Glass
①12.5×12.5×45	10/1	0.25	1001 – 124	1003 – 144
②12.5×12.5×45	10/2	0.5	1001 – 44	1003 – 44
③12.5×12.5×45	10/3	0.75	1001 – 134	1003 – 134
④12.5×12.5×45	10/4	1.0	1001 – 24	1003 – 24
⑤12.5×12.5×45	10/5	1.25	1001 – 144	1003 – 144

V/VIS Spectrophotometer

Quartz · Glass Cell

With top class quality but most effective price



STD Cell

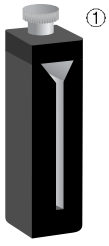


Micro Cell with Frosted Walls

E

with PTFE stopper

No Dimensions (W×D×H)mm	Light path /inside W	Volume (ml)	UV grade (170mm ~)	Glass grade (320 mm ~)
			Quartz	Glass
① 12.5×7.5×45	10/10	3.5	1001 – 14	1003 – 14
② 12.5×7.5×45	10/2	0.5	1001 – 284	1003 – 284
③ 12.5×7.5×45	10/4	1.0	1001 – 294	1003 – 294



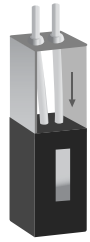


Micro Cell with Black Walls

F

with PTFE stopper

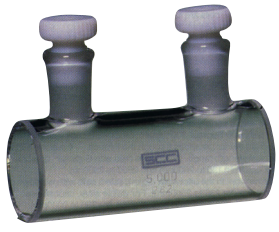
No Dimensions (W×D×H)mm	Light path /inside W	Volume (ml)	UV grade (170mm ~)	Glass grade (320mm ~)
			Quartz	Glass
① 12.5×7.5×45	10/2	0.5	1001 – 54	1003 – 54
② 12.5×7.5×45	10/4	1.0	1001 – 34	1003 – 34



Self marking continous flow through cell

G

No Dimensions (W×D×H)mm	Light path /inside W	Volume (ml)	UV grade (170 mm ~)	Glass grade (320 mm ~)
			Quartz	Glass
① 12.5×7.5×45	15/4×12	0.24	1001 – 73	1003 – 73
② 12.5×12.5×45	10/4×12	0.48	1001 – 74	1003 – 74
③ 12.5×22.5×45	20/4×12	1.0	1001 – 75	1003 – 75
④ 12.5×32.5×45	30/4×12	1.5	1001 – 76	1003 – 76



Cylindrical Cell

H

with PTFE stopper

No Dimensions (W×D×H)mm	Light path /inside W	Volume (ml)	UV grade (170mm ~)	Glass grade (320 mm ~)
			Quartz	Glass
① ϕ 22×12.5	ϕ19	2.8	1001 – 85	1003 – 85
② ϕ 22×22.5	ϕ19	5.7	1001 – 86	1003 – 86
③ ϕ 22×52.5	ϕ19	14.0	1001 – 87	1003 – 87
④ ϕ 22×102.5	ϕ19	28.0	1001 – 88	1003 – 88

Water Purification System

& UV/VIS Spectrophotometer

