750 Series Water Purification system

750 / RO-751 / UP-752



Inspection Certificate

- Item : Water Purification System
- Model :
- Serial No. :
- Date :
- Origin :

We hereby certify that above goods has been inspected before shipment and found in good order.

Authorized Signature

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General Description

1. New Power System

The Power System is the unique water purification system combining 2 systems-New RO System & New UP System. It can produce simultaneously from the city/ground water.

Feed water : City Water / Ground Water
 ※ Ground Water : Refer to page 32, 33, 35

2) Built-in filters

- RO System 1 10 "Prefilter
 - 2 14"A/C filter
 - ③ RO Pack
- UP System ① Power UP Pack
 - 2 0.2 µm Capsule filter
- 3) STD Accessories : Manual, Power Cord

4) Optional Accessories

- ① 254/185 UV Lamp
- 2 MW 5000 UF filter
- ③ PVDF 1/4 Dispensing Gun
- ④ Pretreatment System
- ⑤ 20 L/ 40 L Water Tank

5) Product Quality

- (1) RO Product : 5 \sim 30 μs /cm
- 2 UP Product : 18.3 \sim 10.0 Mp \cdot cm

6) Applications

- ① General laboratory tests
- 2 Preparations of stock solution
- ③ Washing & rinsing for glasswares
- ④ Analytical Instruments
- ⑤ Preparations of stock solution
- 6 Microorganism analysis
- ⑦ Cell Culture
- ⑧ DNA/RNA Tests

2. Features

- Certified CE, ISO 9001
- Obtained GD, QD Mark
- (Good Design, Qualified Design)Products produced to European standard
- Long life easy to use 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

3. Applications

Туре	A	В	С	D
Type I grade water	•	•	•	٠
Analytical Instruments	•	•	•	•
AAS, ICP/MS, IC	•	٠		•
HPLC, GC, TOC		٠		•
Organic analysis		•		•
Cell & tissue culture			•	•
In vitro fertilization			•	•
Electrophoresis			•	•
R Nase, D Nase & DNA free				•
Molecular Biology				۲

*

	750-1	750)-2	750-3		
Product flow rate (RO.UP)	Max. 18L/Hr	Max. 28L/Hr		Max. 38 L/Hr		
Water quality display		Feed water : 0 to 9	999 µs /cm (Optional)			
		 Pure water : 0.0 to 	o 250.0 μs/cm			
		Ultra pure : 0.0 to	o 18.3 MΩ • cm			
Controller		Microprocess one to	uch technology			
Display	16 ×2 characters backlight LCD digital display					
Туре	A	В	С	D		
Feature						
$-$ 0.2 μ m Final filter	STD	STD	STD	STD		
- 254/185 UV lamp		STD		STD		
- MW 5000 UF filter			STD	STD		
– PVDF ≟Dispensing gun						
ncluded Filters &	Prefilter	Super A/C filter • R0	Deck • Pov	ver UP Pack,		
Accessories	Level sensor • Manual, • Hand Lever • Power cord					
Nater Quality						
 TOC (ppb) 	5 – 10	0 - 5	5 - 10	0 - 5		
– Endotoxin (Eu/ m2)	NA	NA	< 0.001	< 0.001		
– Bacteria (cfu/ m2)	<1	<1	<1	<1		
- Particles (>0.22 μm/ m2)	< 1	< 1	<1	<1		
Controller functions	1. Self test : self-test for diagnosing operating conditions. (Internal/External)					
	2. Auto cleaning functions ;					
	 When it turns on 	: 30 sec to 5 min (Auto e	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 & 2 nd exchange)					
	1 A/C filter ② 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 pressu	ure ②Tank full ③Sus	pension of tap water supp		
Optional accessories	PVDF <u>1</u> Dispensing gun Pretreatment system					
Dimensions (W \times D \times H)	400 ×567 ×500 mm					
Power	230 V, 50/60 Hz,60 W					

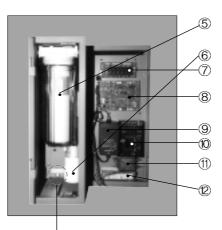
4. Specifications

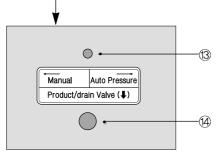
2 System Structure

1. Front Side



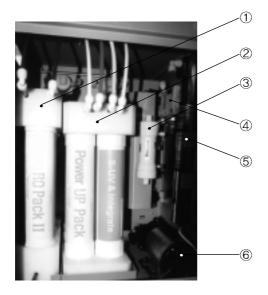
- ① Display Board
- 2 Pressure Gauge
- ③ RO Product Line (White Line)
- ④ UP Product Line (with 0.2µm Capsule filter)



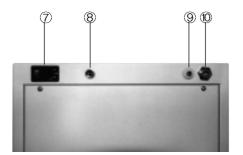


- 5 10" Prefilter
- 6 14 '' A /C filter
- ⑦ Slave Board I
- \circledast Slave Board ${\mathbb I}$
- 9 Pump Adapter
- 1 Power Supply
- 1 Noise Filter
- 12 UV Lamp Adapter (Power, UP)
- ⁽³⁾ Auto Pressure S/W
 - Auto : Only works when the tap water pressure is above than 1kg/cm².
 - Manual : Works with regardless of the tap water pressure.
- 1 Product / Drain valve

2. Back Side



- ① RO Pack
- 2 Power UP Pack
- ③ MW 5000 UF filter
- ④ Pressure S/W
- ⑤ 254/185 UV Lamp
- ⑥ Pump



- ⑦ Power S/W (230∨±10%, 50/60 Hz, 6 W)
- ⑧ Level Sensor
- (9) Drain Line (ϕ 6) (Blue Line)
- 0 Input Line (\varPhi 10) (Blue Line)

3. Dispensing Gun Connection





PVDF $\frac{1}{4}$ Dispensing Gun



Dispensing Gun + 0.2 μm Final filter

3 Installation Conditions

1. Environmental Conditions

- 1) Indoor installation
- 2) Altitude should be up to 2000 m
- **3)** Ambient temperature : 5°C \sim 40°C

(If the temperature is lower the 5°C, the system can be frozen up)

- 4) Maximum relative humidity : 80%
- **5)** Power : 230 $\pm 10\%$ V, 50/60 Hz ± 1 HZ, 60 V
- 6) Pollution degree 2
- 7) Installation Categories I

CAUTION!! - Refer to accompanying documents

CAUTION!! - ELECTRIC SHOCK

"To avoid electrical shock, do not open the cover. Refer servicing to qualified personnel only."

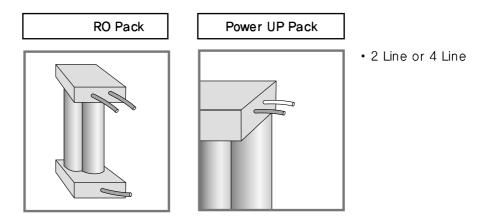
- 8) The instrument should be placed on steady workbench that is free from a strong vibration source.
- **9)** The location room should be free from a strong electro magnetic interference source or harmful or corrosive gases.

4 Installation Method

1. Filter & Pack Check

- 1) Check 10" Prefilter
- 2) Check 14" A/C filter
- 3) Connect 0.2 µm Capsule filter into UP Product hole.
- 4) RO Pack / Power UP Pack : Open the cover at backside and

connect RO Pack & UP Pack.



2. Back Side * Refer to Page 8

- **1)** The Connect tap water into blue Φ 10 hose (Input Line)
- 2) (a) Connect blue $\Phi 6$ hose at sink table (Drain Line)
- 3) (a) Connect level sensor into the water * Refer to Page 31
- **4)** ⑦ Connect power cable (230∨ ±10%, 50/60Hz, 60W)

3. Front Side * Refer to Page 7

- 1) (3) After connect the white Φ 6 hose, connect it into water tank.
- 2) ④ Connect 0.2 µm Capsule filter into hole.

5 Operating Method

- 1) Remove the lock function at front door. (Fastened bolt located at the bottom)
- 2) Open the tap water
- 3) Main S/W-ON
- 4) Press RO button
- 5) Check the flow rate of Drain & Product line
- 6) Press UP button

Remarks

- 1. If the tap water pressure is lower than 1kg/cm², Pressure Low will be Display. *** Refer to Page 7**Convert the Auto Pressure S/W to Manual
- 2. When the system works, the Pressure Gauge should be around $4\sim5$ kg/cm².

Model	Flo	ow rate		
Woder	Product	Drain		
750-1	3	7		
750-2	4	6		
750-3	4	6		

- Attaching the 'Pre-treatment System' is strongly recommended for Power & RO systems.
 - City water : PT-1, PT-2, PT-3 Available.
 - Ground water : WS10, WS10-1, WS10-2, WS20 Available.

* Please Refer to Page 34, 35

6 Display Board

New Water P	urification System
	Main Power Exchange RO Pack Exchange UP Pack
Node VES Enter NO	RO A/C UP S/B

- Main Power
- Exchange RO Pack : Blinking at the time of RO Pack exchange.
- Exchange UP Pack : Blinking at the time of UP Pack exchange.

Mode
mouo

① Mode function

② Initial / Ready display mode : Press for 3 seconds.



RO product & stop function



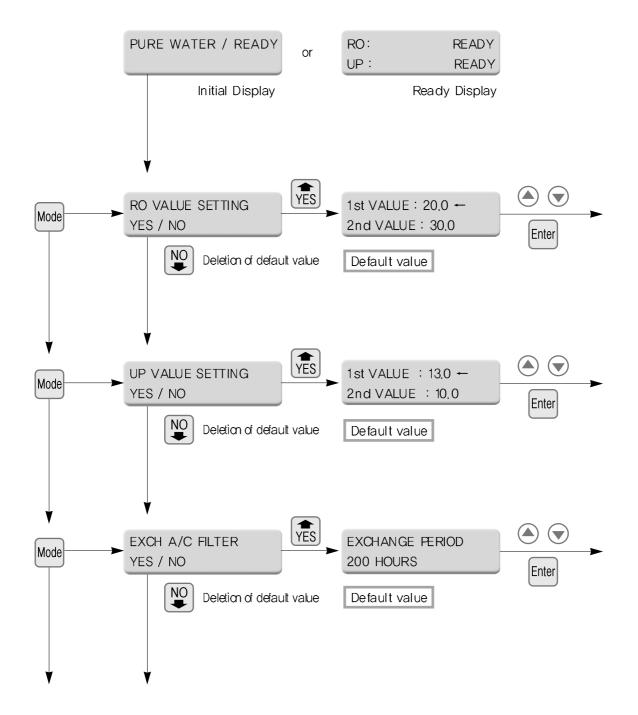
After exchange A/C filter, press for 3 seconds. – Accumulated time for A/C filter shall be down to 0.

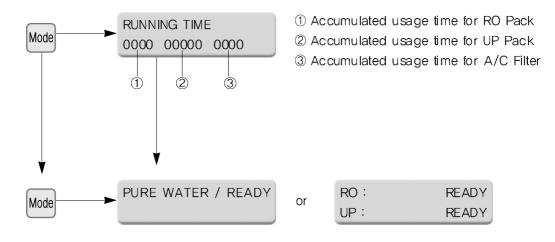


UP product & stop function

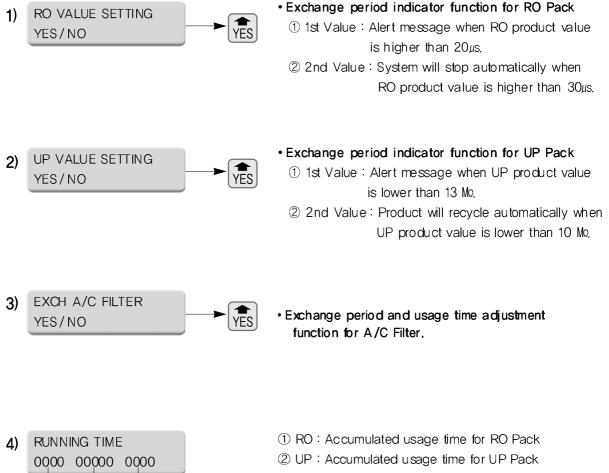


Auto-cleaning function when the purity of UP water is getting worse. (standby)





* Once the default value changes, the system is operated based upon changed default value. Therefore, the default value change is not recommendable.



③ A/C filter : Accumulated usage time for A/C filter

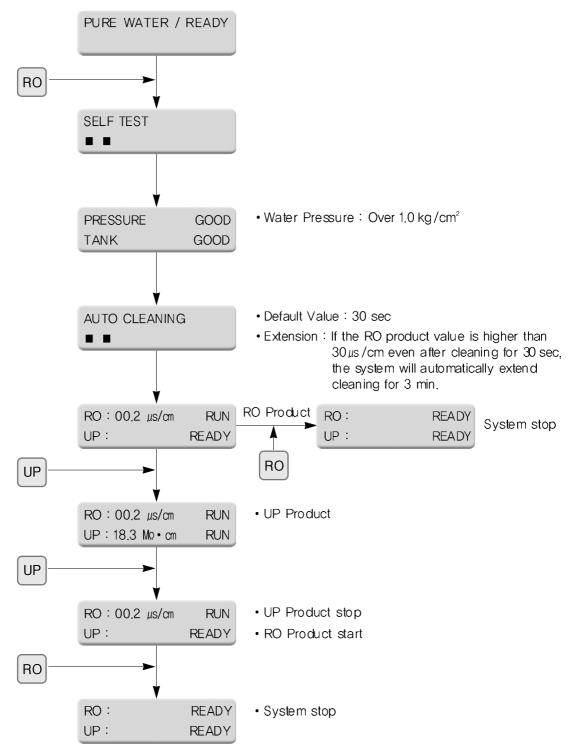
1

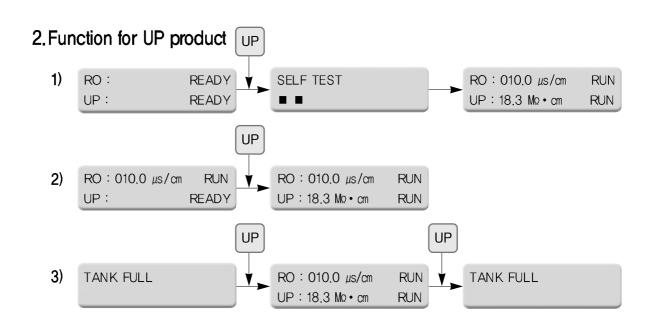
(2)

3

9 Operating

1. Power S/W ON





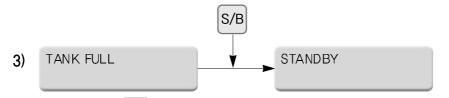
3. Function for UP Water quality control



Auto-cleaning and water quality control for inside all the Filter Pack at Power System

2) STANDBY

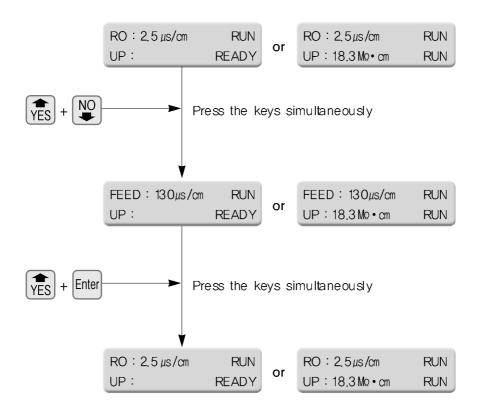
At Standby mode, auto-cleaning and water purity value maintenance are available when UP water value is getting worse.



Pleas press S/B button, in order to keep the UP water purity value inside of the system when the system condition is Tank full.

10 Feed Water Check Method (Optional)

- Available to check feed water quality when 'Feed water sensor' is built-in.
- 1) Available only in running



11 Filter Exchange Method & Prevention from Freezing

1) Filter Exchange Method

- ① Stop the system
- 2 Close the tap water
- ③ UP Press → working for around 20 seconds → |RO| Press (Stop the system)
- ④ Exchange the filter when there is no water pressure inside it

2) Prevention from freezing

- * This instrument can be frozen up when it is left at below 0°C for a long time. Make sure there is no water left.
- ① Stop the system
- 2 Close the tap water
- ③ Convert Auto Pressure S/W to manual mode
- ④ UP Press → Working for around 60 seconds → stop the system
- ⑤ Open the 10" Housing, drain all waters out and reassemble it.

12 Filter Exchange

1. Prefilter

- Exchange : When it becomes brown color.
- Exchange period : Approx. 20~40 days
- Refer to the sticker (Exchange indicator) on 10" Housing.

2. A/C Filter

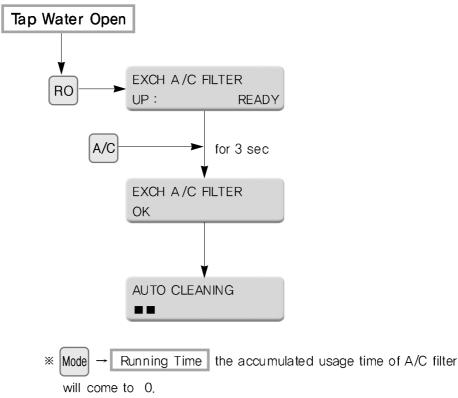
Default Value: 200 hours



1) Display



- 2) Exchange Method : After stop the system, refer to 11 1 * Page 20
- 3) After Exchange Filters



3. RO Pack

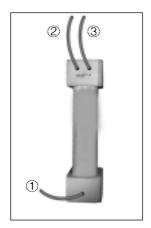
Default Value : ① 1st Value $-20 \,\mu\text{s/cm}$ ② 2nd Value $-30 \,\mu\text{s/cm}$ Mode \rightarrow RO Value Setting the setting value is changeable.

1) Display



2) Exchange Method : After stop the system, refer to 11 - 1) * Page 20

3) RO Pack Structure



Inlet Line : Blue Line
 Product Line : Blue Line
 Drain Line : Blue Line

4. Power UP Pack and Filter

Default Value : ① 1st Value - 13.0MΩ • cm ② 2nd Value - 10.0 MΩ • cm

Mode \rightarrow UP Value Setting the setting value is changeable.

1) Filter types in ultra pure part

- ① Power UP Pack
- 2 0.2µm Capsule filter
- ③ MW 5000 UF filter

2) Display

RO : 000.5 μ s /cm READY EXCHANGE UP PACK

• LED Lamp light on

3) Filter Exchange

- ① Exchange Power UP Pack + 0.2µm Capsule filter
- ② MW 5000 UF filter : At the same time when Power UP Pack is exchanged

4) Filter Type



Inlet Line : White Line
 Product Line : White Line



- ① Inlet Line: White Line
- ② Inlet Line for UV Lamp: White Line
- ③ Outlet Line for UV Lamp : Yellow Line
- ④ Product Line: White Line

5. MW 5000 UF Filter



① Inlet Line: White Line with Red Mark ② Outlet Line: White Line

READY

READY

6. UV Lamp Exchange Method

Default Value : 2000 hrs 1) How to check the exchange period PURE WATER / READY RO : or UP: Mode ×4 ① Accumulated usage time of RO Pack RUNNING TIME 2 Accumulated usage time of UP Pack 00000 02000 0000

(Accumulated usage time of UV Lamp) (İ) Ż 2) Only when | UP | key is pressed, the UV Lamp is turned on, so when the accumulated usage time of UP Pack is reached at 2000 hrs, exchange

UV Lamp

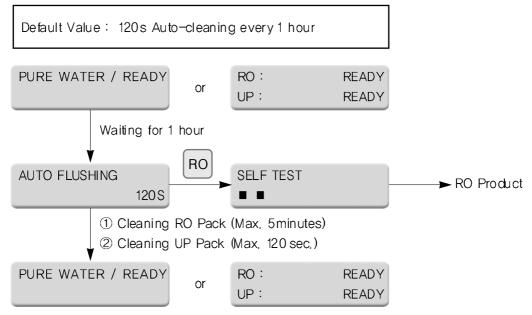
3) UV Lamp structure



① Outlet Line: Yellow Line 2 Inlet Line : White Line

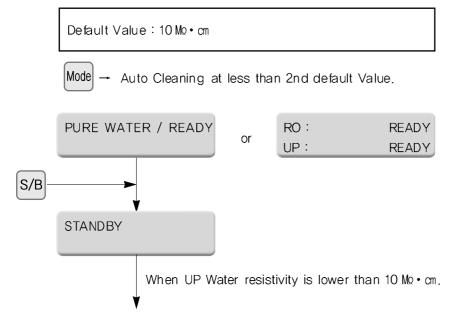
13 Auto Cleaning Function

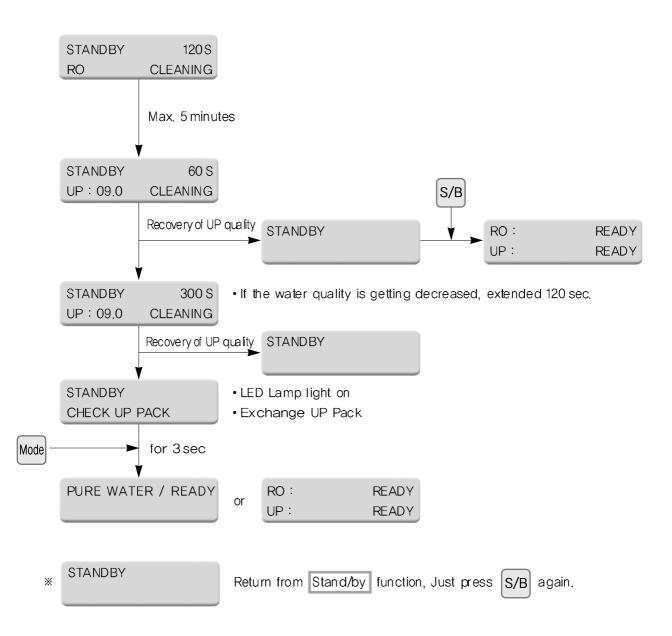
1. Initial / Ready Display



2. Standby Display

- Auto cleaning when up water resistivity is getting worse.



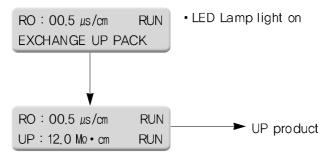


3. Less than Default Value of UP Water

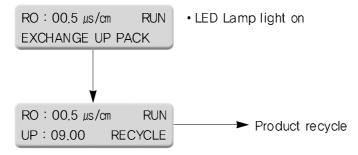
Default Value : ① 1st Value - 13MQ • cm ② 2nd Value - 10MQ • cm

Mode → UP Value Setting setting type (1st Value, 2nd Value)

1) Less than 1st Value



2) Less than 2nd Value



% If you want to procuce UP water which is lower than 2nd value, you can adjust the value by pressing Mode → UP Value Setting

14 Error Message

1. When the inlet water pressure is low Default Value : 1.0 kg/cm² (15 psi)

PRESSURE LOW

Solutions

- (1) Adjust the inlet water pressure to above than $1.0 \, \text{kg/cm}^2$ (15 psi)
- ② Auto Pressure S/W should be converted to Manual
 - * Refer to system structure Page 7

2. When the water tank is full

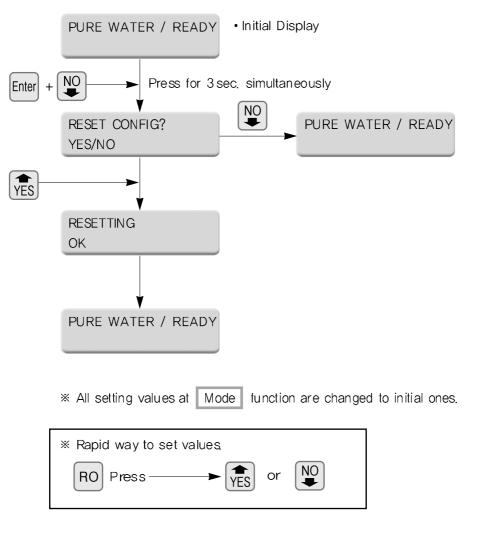
PRESSURE	GOOD
TANK	FULL

Solutions

① Use the product water in water tank, and when the water level is getting low, restart the production.

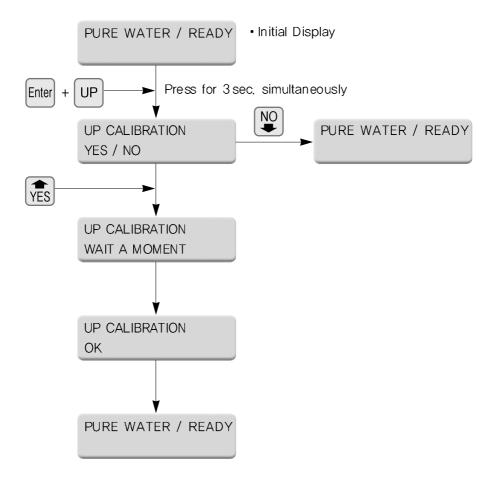
15 Reset Function

• To reset (initialize) the Default Value

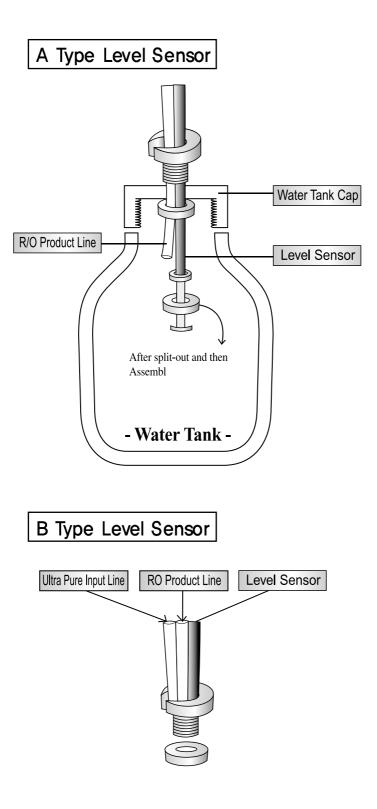


16 UP Sensor Calibration Function

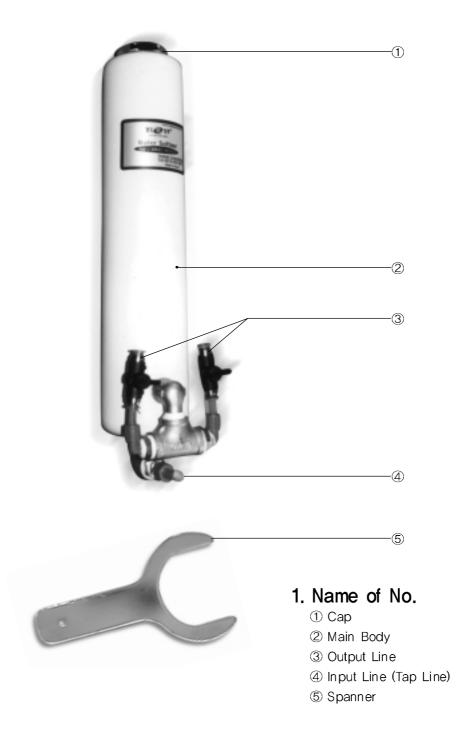
• Not recommended except very particular error.

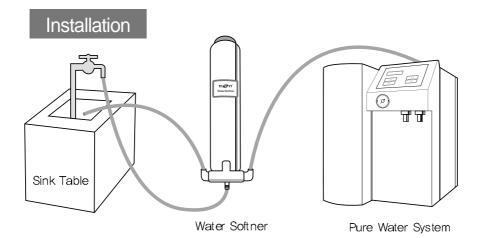


17 Using Method of Level Sensor



18 Water Softner for Pure Water System





2. Installation

- ① Connect ④ Line to Tap water. (Ø10 mm Blue Line)
- 2 Connect one of 3 Lines to Pure Water System and the other one to Sink table (Drain).
 - Example
 - ⊢ A The line connected to Pure Water System.
 - B The line connected to Sink table.
- 3 Open the Tap water.
- \ast When using the softner, Open the value of B and Close the value of B

3. Method of Regeneration

- ① Close the Tap water.
- 2 Close the value of A
- ③ Open the ① Cap with ⑤
- ④ Insert 600 cc of NaCl and close the ① Cap.
- ⑤ Open the valve of ⑧
- ⑥ Open the tap water & Regenerate it for 30 min with the flow rate of 1 L/min.
 (Drain approx. 30 L to sink table)
- O After the regeneration, close the value of B and open A
- ⑧ It is ready to use.

4. Regeneration & Exchange Period

- ① Available volume of Water: Approx. 2000 L (In case of the Hardness of tap water is 1000 ppm)
- \bigcirc Regeneration Period : 20 ~ 30 days.



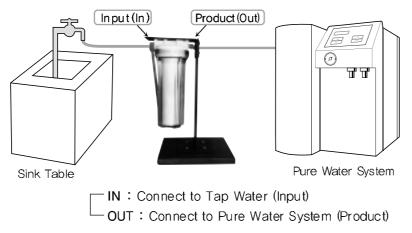
19 Water Pretreatment System for RO & Power Series



Specifications

Picture No.	Constitution	Part No.	Remark
1	1) 10″ Prefilter : 1ea 2) 10″ Housing : 1ea 3) Stand	PGI - PT - 1	In case of plenty of particles and rust in the feed water
2	1) 10″ Prefilter : 2 ea 2) 10″ Housing : 2 ea 3) Stand	PGI - 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	PGI - 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 μ s/cm.

* Installation Method

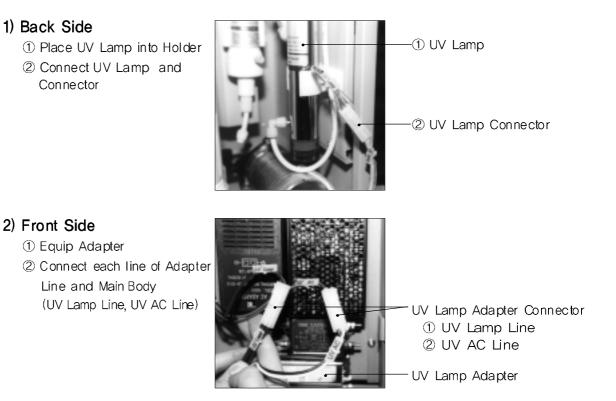




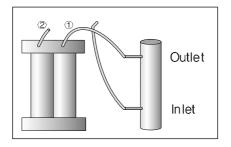
Specifications

Picture No.	Constitution	Part No.	Remark
	1) Water Softner	PGI - WS10 (Volume : 2 L)	 ①When the feed water is the Ground water. ②In case of plenty of particles and organics and rust in the feed water.
4	2) Stand	PGI - WS20 (Volume : 4 L)	(3) In case of plenty of Hardness (Ca ⁺⁺ , Mg ⁺⁺) in the feed water. (4) When the conductivity of feed water is more than 300 ~ 400μ s/cm.
5	1) Water Softner : 1ea 2) 10″ Prefilter : 1ea	PGI - WS10 - 1	 ①When the feed water is the Ground water. ② In case of plenty of particles and organics and rust in the feed water.
	3) Stand	PGI - WS20 - 1	(3) In case of plenty of Hardness (Ca $^{++}$, Mg $^{++}$) in the feed water. (4) When the conductivity of Feed water is more than 300 ~ 400 μ s/cm.
6	1) Water Softner : 1ea 2) 10" Prefilter : 1ea	PGI - WS10 - 2	①When the feed water is the Ground water. ②In case of plenty of particles and organics and rust in the feed water.
0	3) 10 " A/C filter : 1ea4) Stand	PGI - WS20 - 2	(3) In case of plenty of Hardness (Ca ⁺⁺ , Mg ⁺⁺) in the feed water. (a) When the conductivity of feed water is more than 300 ~ 400μ s/cm
Filters	10" Prefilter	PGI - 10PF	
1 11.015	10" A/C filter PGI - 1	PGI - 10AC	

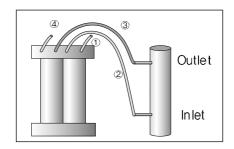
20 The Method to Equip the UV Lamp & Adapter



3) The Method to Connect UP Pack and UV Lamp

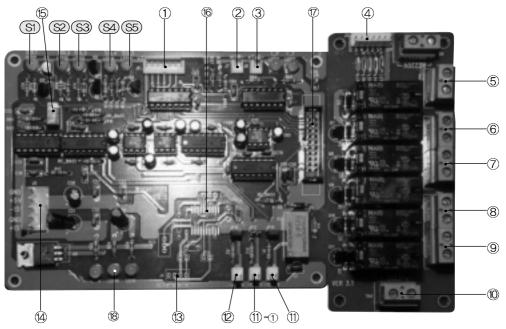


- ① After cutting UP Pack Inlet Line ①, connect it to UV Lamp Inlet Line
- ② Connect the UV Lamp Outlet Line to UP Pack Inlet Line



21 PCB Board

1. Slave Board

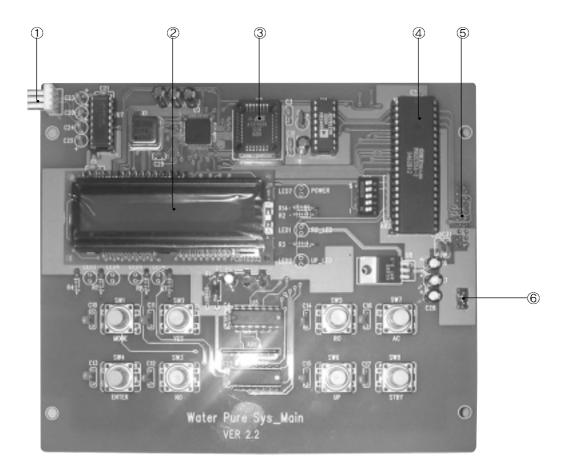


- (1) 6 pin Connecter (No. J 6) : Connect to (4) Connector (No. J 11)
- 2 pin Connecter (No. J 7) : Connect to Pressure S/W
- (3) 2 pin Connecter (No. J 8) : Connect to Level Sensor
- 0 6 pin Connecter (No. J 11) : Connect to 0 Connector
- (5) 2 pin Terminal (No. TB1) : Connect to Pump Adapter
- 6 2 pin Terminal (No. TB2/Sol1): Connect to (S1)
- (7) 2 pin Terminal (No. TB2 / Sol 2): Connect to (S2)
- 8 2 pin Terminal (No. TB3 / Sol 3) : Connect to S3
- (9) 2 pin Terminal (No. TB3 / Sol 4): Connect to (S4)
- 1 2 pin Terminal (No. TB4 / Sol 5): Connect to (S5)
- (1) 2pin Connecter (No. J 9): Connect to UP Sensor
- 1 1 2 pin Connecter : Connect to Feed water sensor
- 2 pin Connecter (No. J 10): Connect to RO Sensor
- 3 4 pin Connecter (No. J 4) : Connect to Temp Sensor (Model : New Human RO/UP)
- ⓓ 5 pin Connecter (No. J 5): Connect to Power Supply
- (5) Variable Resistor (No. R 10) : RO.UP Sensor Calibration
- (6) Variable Resistor (No. R19) : Temp Sensor Calibration
- 0 20 pin Connecter (No. J 3) : Connect to Display Board (5)
- 18 LED Lamp (3 ea) (No. LED 8, 9, 10); 1) Check the condition of source of Electric Power Supply
 - 2) The LED Lamp light off when $\textcircled{1}{4}$ 5 pin connector $(\rm No,~J~5)$ is supplied irregularly from the power supply
 - 3) Management Method Check the Main Power
 - Check the Power Supply

The lamp for checking the conditions of source of electricity for Solenoid Valve

- S1 Check Sol 1 Valve
- (S2) Check Sol 2 Valve
- S3 Check Sol 3 Valve
- S4 Check Sol 4 Valve
- (S5) Check Sol 5 Valve

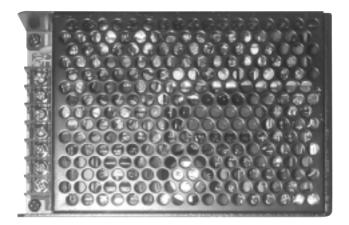
2. Display Board



- ① PC Connecter (4 pin)
- ② LCD Display
- ③ EEP ROM
- (4) CPU
- ⑤ Connecter (20 pin) Connect to Slave Board (Back side)
- 6 Connecter (2 pin) Connect LCD Backlight (Back side)

22 Adapter

1. Power Supply



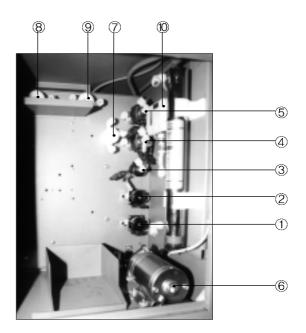
2. UV Lamp Adapter

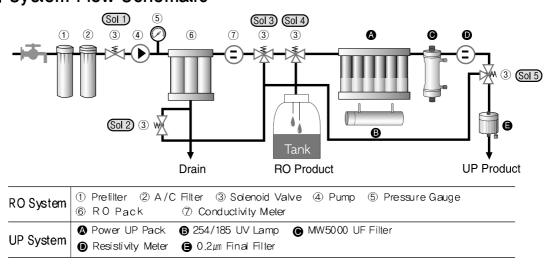


23 Trouble Shooting

1. Main Parts of PCB

- 1) Solenoid Valve No. 1 (2-way)
- 2) Solenoid Valve No. 2 (2-way)
- 3) Solenoid Valve No. 3 (3-way)
- 4) Solenoid Valve No. 4 (3-way)
- 5) Solenoid Valve No. 5 (3-way)
- 6) Pump
- 7) Feed Water Sensor (Optional)
- 8) RO Sensor
- 9) UP Sensor
- 10) Pressure Switch





3. Sol Valve Running Status

- 1) Auto Cleaning : Sol 1), Sol 3)
- 2) Auto Flushing : Sol 1), Sol 4
- 3) RO Running : Sol 1)
- 4) UP Running : (Sol 1), (Sol 4), (Sol 5)
- 5) UP Recycling : Sol 1, Sol 4
- 6) Standby /Cleaning : Sol 1, Sol 4

2. System Flow Schematic

4. Trouble Shooting Details

Trouble Parts	Problem / Possible Causes	Solution
Sol 1	 When the system works, unknown noise occurs. Unable to produce RO Water. 	Check the Save Board S1 Replace Sol
(Sol 2)	 When the system works, unknown noise occurs After pressing M/F key, unknown noise occurs : 	Check the Save Board (S2) Replace (Sol2)
Sol 3	Over the process of Auto Drain, RO water droplets slowly without stopping the production.	Check the Save Board (S3) Replace (S03)
Sol 4	 Even by pressing UP key, unable to produce UP water. Over the process of UP Water production, RO water drips. 	Check the Save Board S4 Replace Sol 4
<u>Sol 5</u>	 Even by pressing UP key, unable to produce UP water. Over the process of UP Recycling, UP water drips. Unable to execute recycling. 	Check the Save Board (S5) Replace (S05)
Pump	Unable to operate the system at all.	Replace Pump
Product/Drain Valve	Unable to adjust the product volume for RO product/drain.	Replace Product/Drain Valve
Pressure S/W	Even the system works properly but suddenly the system reboots/resets and initializes to Self Test mode.	Replace pressure S/W
	Unable to display	 Check the power cord Check the fuse Check the power connector connectivity Check the power supply
	UV lamp's light on error	 Check UV Lamp Adapter Check the power supply Check the slave board
Tank Full	 Even there are no waters inside at water tank but Tank full message displays. When the water tank is full, unable to display Tank full message. 	 Change the location of the floater at Level Sensor Check the slave board
Remarks	When the system is on following conditions ; – Low Pressure – Tank Full – Check RO Pack	The Soll value should not works It would be ordinary system condition.

5. Unable to produce RO Water

1) The feed water is not supplied properly from the tap water pipe - Check

- 2) Due to inferior pump or error, unable to supply the feed water sufficiently to the system.
 - Check the operating status and replace the pump.
- 3) Due to superannuated RO Pack, the filter membrane has been clogged. Replace the Filter
- 4) When you exchange the RO Pack, you did not remove away the cutting parts.
 - Check and remove the Cutting Parts

5) In case the Solenoid valve NO. 1 (2-way) is on error condition. - Check and Replace

- 6) When the Prepack is clogged. Exchange the Filter
- 7) When the Product/Drain valve has not been adjusted properly or on error condition.
 - Check and adjust the pressure gauge at front door. If you unable to adjust, please replace to new one

6. Unable to produce UP Water

1) In case unable to produce RO water properly.

- 2) In case the Solenoid valve NO. 4 (3-way) and Solenoid valve No. 5 (3-way) are on error conditions :
 - Check Scienced Valve NO. 4 (3-way) at first and replace and test again
- 3) When the UP Pack has been clogged.- Exchange the Filters
 - Due to superannuated filter, the filter has been clogged by particles or dust.
 - Exchange the Filters
 - If the cutting parts has not been removed properly. Check the removal of Cutting Parts

7. LCD doesn't work after main power has been switched on.

- 1) Main Power Connector Error Check and Replace.
- 2) Fuse has been disconnected. Replace to spare Fuse.
- 3) Due to power supply error, unable to supply electricity to the controller. Check and Replace.

8. When Low Pressure Message appears.

- 1) In case the feed water (tap water) has not been supplied sufficiently. Check
- 2) In case the pressure switch is error. When the feed water (tap water) pressure is bw,
 - check the water quality/status. If necessary, the pretreatment system attachment is recommendable.

9. Over ordinary system running, the system initializes by force. (Repeatedly execute self test and auto drain/System reset by force.)

- 1) Lack of feed water
- 2) Auto Pressure S/W Manual Position
- 2) Pressure switch error Pressure switch error can be occurred by lack of feed water pressure.
- 3) When the Level Sensor is on error or Sensor has been wrongly placed.