





BDPS-102 & 104

Medium Water Purification System

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01 Preface

Dear customer, in the beginning, we sincerely thanks for your choosing our water purification system. This water purification system has incorporated new cutting-edge technology. It is installed and used easily, and can provide you with RO water and ultrapure water for science research. So, it will benefit your work.

For the water purification system's maximum efficiency, it is suggested that the user manual should be read before installation. Any question in the installation process, please contact our technology engineers or dealers.

Model	BDPS-102	BDPS-104	
Output(25°C)*		30Liters/hour*	
Flow rate	Up to 2 liters/minute (with pressure tank)		
Pure water outlet	2: reverse osmosis water, deionized water		
Deionized water quality			
Resistivity	16-18.2MΩ.cm		
Heavy metal ion	<0.1ppb		
Bacteria	<0.1cfu/ml		
Particles (>0.2µm)	<1/ml		
RO water quality			
lon rejection rate	96-99% (with new RO membr	ane)	
Organics rejection rate	>99% (when MW>200 Daltor	1)	
Particles and bacteria			
rejection rate	>99%		
Feed water requirements	Tap water, temperature:5-		
	45°C,pressure:1.0-4.0Kgf/cm2		
Dimension and weight	Length×Width×Height:500×360×540mm / Weight:		
	about 20Kg		
Electrical requirements	AC100-240V, 50/60Hz		
Power	120W		
Standard configuration	Main body (Including 1 set of cartridge)+15 liters pressure tank		
Purification System			
Sequence number	Specification	Quantity/set	
LV.1	5µm spun PP cartridge 1		
LV.2	Kinetic degradation fluxion cartridge 1		
LV.3	Granular active carbon cartridge 1		
LV.4	15series-100GPD RO memb		
	30series-200GPD RO memb	orane 1	
LV.5	Mixed bed resin cartridge	Mixed bed resin cartridge 4	
LV.6	Low organic carbon cartridge 1		
LV.7	254 nm wavelength uv cartric	lge 1	

02 Specification

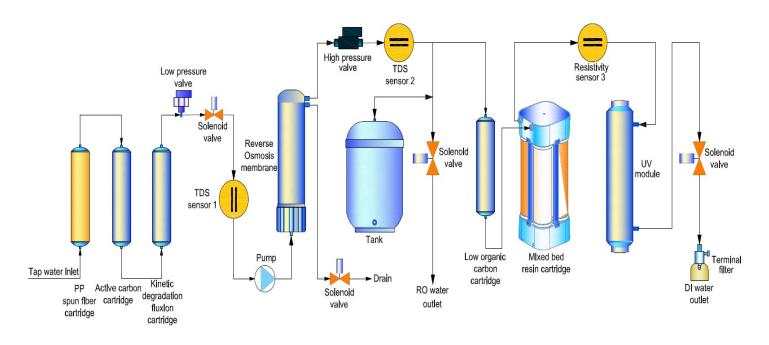
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LV.8 (0.45+0.1)µm terminal filter 1

REMARKS:

The value will be influenced by temperature and feed water's quality.

03 Water Flow Chart



04 Working Environments

• Inlet water: Tap water (TDS<200ppm will be suggested).

If inlet water TDS>200ppm, pretreatment is recommended. Water with higher TDS will affect the quality of outlet water and life of purification cartridge.

- Work temperature: 5-45°C
- Pressure: 1.0-4.0Kgf/cm2
- Power: AC100-240,50/60Hz,120W

[Clean, dry working environments would be suggested!]



05 Installation

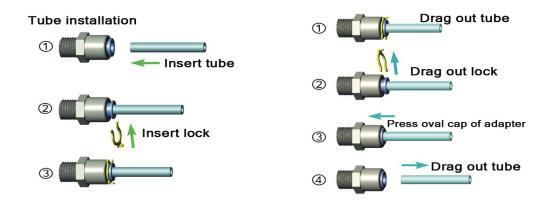
5.1 Preparation for installation

• The purification system should be installed horizontally and near to tap.

5.2 Tube and adapter's connection

The adapter of the machine is high quality easy-put adapter. And material of tube is high quality's PE.

Tube installation and drag diagram





• The tube should be cut with special tube cutter for rounded cut section. And rounded cut section should be guaranteed as much as possible with other cut tools.

• Connect the tube-press the oval cap of the interface strongly, then insert the tube to the bottom of adapter.

• Take off the tube-press the oval cap of the interface strongly, then drag out the tube. Do not drag when the tube can't be dragged out any more.

• The fore-end of the tube, which has been inserted to adapter, should be cut, when it will be used again.

• Sufficient PTFE thread seal tape should be used in all the threaded joints for water leakage inhibitor or preventing.

5.3 Installation steps

(1). Open the packing-case, take out main body, accessory box, water tank (optional).

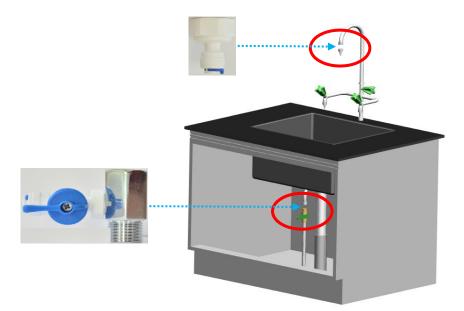
(2). Take out adapters and tube from accessory box, and read the Instruction Manual carefully.

(3). External interface are on the back of machine, and it is labeled with different color's label. Moreover, its adapters are inserted with different color's stop plug.



• ATTENTION:
• Stop plug should be pulled out before the following steps.
(4). Connect To Tap Water
There are two ways to connect to the tap.

Guide Chart of 2 Ways to Connect To The Tap



1&2 is the place where the interface of machine's inlet water should be connected.

• 1st way-with tap water adapter 1(1/2"internal thread to 3/8"fast-plug) to connect to tap water. 1st. Step: connect tap water adapter 1 to water source

Close the valve of the gooseneck. Dismantle the faucet of gooseneck. Screw tap water adapter 1 into the external thread of gooseneck.

2nd. Step: connect tap water adapter 1 to interface of machine's inlet water

Use 3/8" PE tube with a suitable length. Insert one side into the interface of tap water adapter 1, and insert the other into the interface with blue label marked "To inlet water" at the back of machine.

• 2nd way-with tap water adapter 2(tee joint and 3/8"ball valve) to connect to tap water. (Optional)

1st. Step: connect tap water adapter 2 to water source

Close the chief valve of tap water. Dismantle the tap.

Screw the 3/8" ball valve with external thread into the side thread with internal thread of tee joint.

Screw the tap into the internal thread at one end of the tee joint, and at last, screw the other end with external thread of the tee joint(with 3/8" ball valve and the tap at this time) into the internal thread of the tube, where the tap has been connected.

• Sufficient PTFE thread seal tape should be used in all the threaded joints for water leakage inhibitor or preventing

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2nd. Step: connect tap water adapter 2(3/8"ball valve) to interface of machine's inlet water Use 3/8" PE tube with a suitable length. Insert one side into the interface of 3/8"ball valve, and insert the other into the interface with blue label marked "To inlet water" at the back of machine.



• ATTENTION:

• Extra pretreatment filters (optional) should be connected between the water source and main body.

(5). Connect To RO Wastewater

Use 1/4" PE tube with a suitable length. Insert one side into the interface with black label marked "To drain" at the back of machine, and the other side is directed to drain. (DO NOT JAM!!)

(6). Connect To Water Tank:

Screw the plastic ball valve onto interface with external thread, which is on the top of pressure tank.

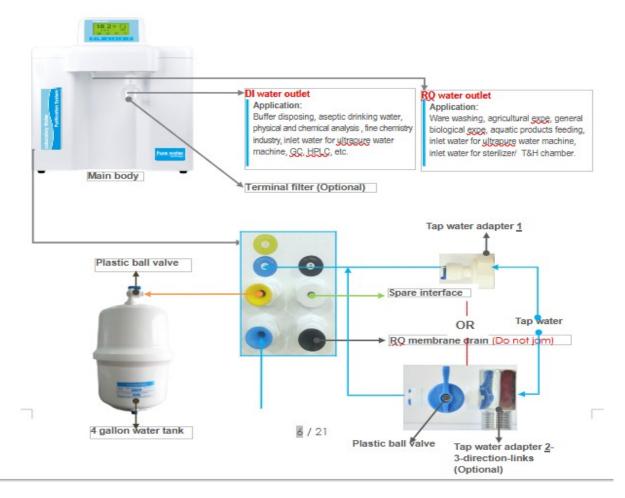
Use 1/4" PE tube with a suitable length. Insert one side into the interface with yellow label marked "To water tank" at the back of machine, and insert the other into the plastic ball valve.



The ball valve on the top of the tank should be open all the time except for maintenance.

Thus the installation is OK.

Installation Guide Chart



7

06 Usage Guide

All data have been set in the factory.

The machine will operate smoothly without any data-setting and debugging.

All work state will display on the LCD. If there is abnormal state, the system will alarm automatically. If data modification is necessary, specific step is in "Microcomputer Controller".

• The power switch is on the side of the shell. Specific picture is as follows

Turn on the power -Turn off the power ·

6.1 Starting Up

Turn on the tap water valve, insert the power line into the power source and turn on the power switch, then the system begins to produce pure water.

• ATTENTION :

• If the touch screen does not lighten after power on, please reverse the power plug and inset it again.

6.2 Getting Corresponding Pure Water

Press "DP1" or "DP2" buttons, which are on the panel, to get corresponding RO water or deionized water (higher quality water than RO water).

6.3 Standby

When RO water and ultrapure water is not for use, the system will be in standby state. The system still produces RO water to store in the water tank (optional). Until tank is full, the system will automatically stop. The system will begin to produce pure water again when any pure water is used.

6.4 Shutdown

Turn off the tap water valve and turn off the power switch. Then it is ok.



• ATTENTION:

• Make sure that the source water and power source is not connected, when the system is not in the use state for long time (for example, off duty).

6.5 The Usage to Keep High Quality Pure Water

(1). The pure water is easily polluted by surrounding environment. So getting fresh pure water is suggested.

(2). Keep water tank from sunlight for microbe's reproducing.

(3). When get high pure water, initial high pure water is suggested to drain to get steady pure water.

(4). Avoid air bubble when get pure water to reduce air pollution.





• The microbe's reproducing will reduce the life of cartridge, when the machine does not work for long time. So the machine's work every 7-10days is necessary.

07 Microcomputer Controller

There are 6 buttons on the panel (as shown below).

Dispense	Menu	Shift	Figure	Confirm	Dispense
DP'		\rightarrow		ОК	DP ²

Specification of the buttons:

Control the solenoid valve of reverse osmosis water

Control the solenoid valve of deionized water

Main menu, modify all the function and data of the system.



Shift the cursor to corresponding position

Adjust the data of chosen position(0-9 circle), or turn on/off different function

Confirm the adjusted data and execute corresponding function.

7.1 The Specific operation method

(1). Choose the menu item, which will be researched or modified.

Press "MENU" button to move the cursor to the menu item. The chosen item will be allochroic state. Then press "OK" button to enter corresponding item.

(2). Modify the parameters of menu item or turn on/off the function of menu item.

Press "MENU" button to choose item, shift button" >> to choose the digit, figure button / " to modify the digital of digit or the turn on/off the function of menu item when modification is ok, press "OK" button to confirm.

(3). Return to upper menu or main interface

Press "MENU" button, and move the cursor to return icon

then press "OK" button.



7.2 Specification at the beginning of working process

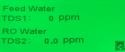


When system is power on, the boot screen (Picture1) will appear for about 5

seconds.



Picture2 The system will detect the status of feed water after 5 seconds. No feed water or low pressure of feed water, the system will warn (Picture 2). If the status of feed water is normal, system will implement the following program.



Check TDS and panic value of feed water. Check whether the current TDS of Picture3 feed water exceeds the previously panic value. If so, system will warn (Picture 3) and will not ignore the alarm, until the feed water's quality is normal or pressing "OK" button. Then system switches to the status of flushing RO membrane. If not, sytem will switch to the status of flushing RO membrane directly.



Flushing RO membrane for about 20seconds (Picture 4). At the same time Picture 4 I detect the status of feed water, No feed water or low pressure of feed water, the system will warn again(Picture 2). When the status of feed water is normal, system will flush the RO membrane again.

Σŝ

5). After finishing of flushing RO membrane, system will switch to

status of producing pure water (Picture 5). At the same time system will detect Picture 5 the status of feed water, No feed water or low pressure of feed water, the system will warn again (Picture 2). When the status of feed water is normal, system will continue to produce pure water.



Picture 6

When tank is full, the system will warn (Picture 6). And after a few seconds of full tank alarm, system will switch to main interface (Picture 7).



If tank is not full, and system is producing pure water (Picture 5), system also can switch to main interface (Picture 7) through pressing "OK" button.

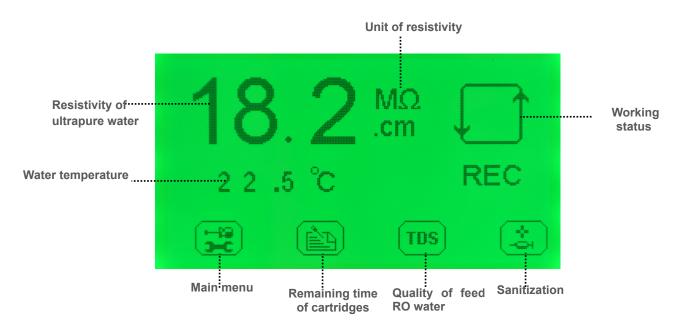
On the status of main interface, system still produces pure water until tank is full, and specific operation can be implemented.





· Specific operation can be implemented only on the main interface. If system is on the interface of pure water produce (Picture 2) or FULL (Picture 6), please just press "OK" button to switch to main interface.

7.3 Specification of the main interface



(1). Specification of system's working status icon

At the top-right corner of the main interface, system will show 3 kinds of working Produce, FULL, No water. It respectively means: Producing RO water, tank is full of water, no feed water or low pressure of feed water.

Definite icons are as follows:







Producing water

Tank is full of water No feed water or low pressure of feed water

(2). Specification of cartridges' remaining time icon Under the main interface, press "MENU" button, move the cursor to icon "OK" button to switch to interface of cartridges' remaining time (Picture 8).





Part life remain(h)	
Pre-treat : 442 h	
UV lamp : 8992 h	
	Y
Picture8	

Specification of the interface

• "Pre-treat: 442h": It means that the PP spun fiber filter's remaining time is 442 hours (Initial value is 450 hours);

• "UV lamp: 8992h": It means that the UV lamp's remaining time is 8892 hours (Initial value is 9000 hours).



• UV lamp is optional. If there is no UV cartridge in the system, "UV lamp: 8992h" will not show.

(3). Specification of feed water and RO water's quality icon Under the main interface, press "MENU" button, move the cursor to icd "OK" button to switch to interface of feed water and RO water's guality (Picture 9).

, then press

Feed Water	
TDS1: 0 ppm	
RO Water	
TDS2: 0.0 ppm	Y
Picture 9	

- Specification of the interface
- "Feed water": It represents the source water or tap water;
- "TDS1: 0ppm": It means that the value of feed water's TDS is 0, the unit is ppm (mg/l);
- "RO water": It represents reverse osmosis water;
- "TDS2: 0.0ppm": It means that the value of RO water's TDS is 0.0, the unit is ppm (mg/l).

(4). Specification of sanitization icon(Optional)

Under the main interface, press "MENU" button, move the cursor to icon , then press "OK" button to switch to interface of sanitization(Picture 23).(Under the main interface, interface of sanitization also can be switched to, through pressing "OK" button 3 times continuously)



At this time, machine would stop working, and prepares for sanitization.

Method of sanitization

At first, open top cap of disinfection box, then put 1 piece of disinfecting tablet inside, tighten the cap again. Lastly press "MENU" button, move the cursor to icon press "OK" button to start sanitization procedure (Picture 24).





Sanitization process will persist for 3-4 hours. During this time, the solenoid valve of pure water outlet will be closed and all the buttons in panel will not be operated.



• Shutting off the power and restart are prohibited in sanitization process. Otherwise disinfecting tablet water will enter into pure water cartridge, the service life of cartridge will reduce greatly.

(5). Specification of main menu icon

Under the main interface, press "MENU" button, move the cursor to icon the press "OK" button to switch to interface of password entry (Picture 10)



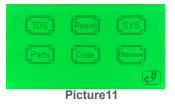
The initial code is "1000".

Inputting initial code "1000" through shift button and figure button, then press "OK" button to confirm

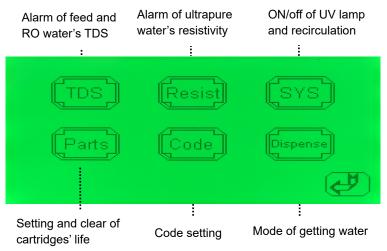
If code is wrong, system will warn and return to main interface.

If code is right, system will switch to interface of main menu (Picture 11).

Under the main menu, press "MENU" button, move the cursor to corresponding icon, then press "OK" button to switch to the corresponding menu item.

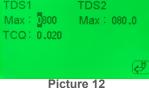


7.4 Specification of main menu



(1). Specification of icon- alarm of feed and RO water's TDS

Under the main menu, press "MENU" button, move the cursor to icon the press "OK" button to switch to interface of feed and RO water quality's standard-exceeding alarm setting (Picture 12).



• Specification of the interface

• "TDS1": It represents TDS of source water or tap water.

• "Max: 0800": It means when the TDS value of TDS1 exceeds 800 ppm(initial setting value), the system will warn and display the interface of feed water quality's standard-exceeding alarm (Picture 13).



"TDS2": It represents TDS of RO
 "Pictu

• "Max: 080.0[']. It means when the TDS value of TDS2 exceeds 80 ppm(initial setting value), the system will warn and display the interface of RO water quality's standard-exceeding alarm (Picture 14)



"TCQ: 0.020": It represents that temperature compensation coefficient is 0.020(initial setting value, any modification is prohibited).



• TDS1-feed water quality's standard-exceeding alarm is effective only when the machine just start.

• The value of TDS1 which system display is definite feed water's quality (Picture 13).

• When the TDS value of actual feed water's quality < Max(setting value),system will cancel the alarm.

> The purpose of feed and RO water quality's standard-exceeding alarm

• The purpose of TDS1's alarm (feed water quality's standard-exceeding alarm): Remind that the feed water's quality is bad, and the extra pretreatment is necessary to protect the cartridges of main body.

• The purpose of TDS2's alarm (RO water quality's standard-exceeding alarm): Remind that RO water's quality is bad, and RO membrane should be replaced to protect the post cartridges.

• Setting method of feed and RO water quality's standard-exceeding value

The TDS value of feed and RO water quality's standard-exceeding alarm can be modified according to the local feed water's quality in the course of machine.

• General principles of alarm value setting

TDS1's Max value: Slightly larger than the actual measured value;

TDS2's Max value: ≤TDS1's Max value×10%. Because the desalinization ratio of new RO membrane is above 95 %.(TDS2's Max value ≤TDS1's Max value×5%)

• The method of alarm value setting

In the interface of feed and RO water quality's standard-exceeding alarm setting (Picture

12),press "MENU" button, move the cursor to corresponding item, reset it through shift and figure button, at last press "OK" button to confirm.

(2). Specification of icon- alarm of ultrapure water's resistivity

Under the main menu, press "MENU" button, move the cursor to icon the press "OK" button to switch to interface of ultrapure water resistivity's standard-exceeding alarm setting (Picture 15).



• Specification of the interface

"Max: 00.0": When the actual resistivity of ultrapure water is less than 0 M Ω .cm (initial setting value), the machine will warn to remind ultrapure water resistivity's standard-exceeding. And system will display interface of ultrapure polishing resin cartridge replacement's reminding (Picture 16).





• When the resistivity of ultrapure water exceeds the standard setting value, the system will warn 1 times every 10 seconds. During this time, the solenoid valve of pure water outlet will be closed. If opening solenoid is necessary, the value of ultrapure water resistivity's standard-exceeding must be reset.

• The purpose of ultrapure water resistivity's standard-exceeding alarm

Remind that the actual value of resistivity is lower than the setting value. Maybe the quality of ultrapure is not suitable for the experiment. Replacing the ultrapure polishing resin cartridge is necessary.

• Setting method of ultrapure water resistivity's standard-exceeding value

The resistivity's value of ultrapure water resistivity's standard-exceeding can be reset according to actual requirement for ultrapure water.

· General principles of alarm value setting

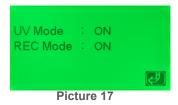
According to actual requirement for ultrapure water

• The method of alarm value setting

In the interface of ultrapure water resistivity's standard-exceeding alarm setting (Picture 15), press "MENU" button, move the cursor to corresponding item, reset it through shift and figure button, at last press "OK" button to confirm.

(3). Specification of icon- ON/OFF of UV lamp and recirculation(Optional)

Under the main menu, press "MENU" button, move the cursor to icon **[sys]**then press "OK" button to switch to interface of UV lamp and recirculation ON/OFF (Picture 17).



• Specification of the interface

• "UV Mode: ON": It means that the monitoring function of UV lamp is turned on. (OFF means turning off)

• "REC Mode: ON": It means that the recirculation function is turned on. (OFF means turning off)



• REMARKS:

• UV lamp is optional. Some models have no UV lamp cartridge, if so, UV Mode's initial setting is OFF. Otherwise, it is ON.

• Recirculation function is optional. Some models have no this function, if so, REC Mode's initial setting is OFF. Otherwise, it is ON.

• The purpose of UV lamp and recirculation ON/OFF

• UV lamp alarm: means that life of UV lamp is over, replacement of UV lamp is necessary.

• Recirculation ON/OFF: system can restrain bacteria's increase and keep high quality's ultrapure water.

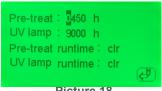
• Setting method of UV lamp and recirculation ON/OFF:

In the interface of UV lamp and recirculation ON/OFF (Picture 17), press "MENU" button, move the cursor to corresponding item, reset it through shift and figure button, at last press "OK" button to confirm.





(4). Specification of icon-setting and clear of cartridges' life Under the main menu, press "MENU" button, move the cursor to icon then press "OK" button to switch to interface of setting and clear of cartridges' life (Picture 18).



Specification of the interface

• "Pre-treat: 0450h": It means that the PP spun fiber filter's initial setting time is 450 hours. When its runtime exceeds 450 hours, the system will warn and display the interface of pretreatment cartridge replacement's reminding (Picture 19).



• "UV lamp: 9000h": It means that the UV lamp's initial setting time is 9000 hours. When its runtime exceeds 9000 hours, the system will warn and display the interface of UV lamp replacement's reminding (Picture 20).



• "Pre-treat runtime: clr": clear the runtime of pretreatment cartridges to zero, system will reset timer.

• "UV lamp runtime: clr": clear the runtime of UV lamp to zero, system will reset timer.

• REMARKS:

• The above 2 operation are implemented generally on the condition of replacing cartridges.

• UV lamp is optional. If there is no this part, "UV lamp: 9000h", "UV lamp runtime: clr" and "Picture 20" will not display.

• The basis for pretreatment cartridge's life-450 hours is the runtime of system-5 hours every day,30 days every month,3 months.

• The basis for UV lamp's life-9000 hours is the runtime of system-24 hours every day with Uninterruptible power supply. If the lamp is turned on and off frequently, its life will reduce strikingly.

Setting method of setting and clear of cartridges' life

• The principle of setting of cartridges' life: according to the actual replacement term.

• Method of setting cartridges' life: In the interface (Picture 18), press "MENU" button, move the cursor to corresponding item, reset it through shift and figure button, at last press "OK" button to confirm.

• Method of clear of cartridges' life: In the interface (Picture 18), press "MENU" button, move the cursor to "clr" item, then press "OK" button to confirm.



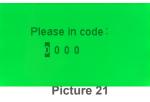




Clearing cartridges' life must be implemented once replacing new cartridge is ok.

(5). Specification of icon- code setting

Under the main menu, press "MENU" button, move the cursor to icon Code then press "OK" button to switch to interface of code setting (Picture 21).



Specification of the interface

"0000": It means that the password is "0000".

(ATTENTION: Initial setting password is "1000")

Method of code setting

For enhancing management of the machine, If needed, password can be reset to protect system's parameter from modification.

• Specific method: In the interface (Picture 21), move the cursor to corresponding item, through shift button to choosing the digit and figure button to modifying the digital of digit, at last press "OK" button to confirm. From now on, the initial setting password "1000" is invalid.



• ATTENTION:

• Once new code setting is ok, please make sure to input new password in interface of password entry (Picture 10).

• If new password is forgotten, please no hesitate to contact with our company.

(6). Specification of icon- Mode of getting water

Under the main menu, press "MENU" button, move the cursor to icon Dispense then press "OK" button to switch to interface of getting water's mode (Picture 22).



Specification of the interface:

Picture 22

• "Mode: Manual": It means that the current mode of getting water is manual.

Specification of manual mode:

Under this mode, press the dispense button first times, then the solenoid valve of pure water is opened. Press the dispense button again, then the valve is closed.)

• "Mode: Auto": It means that the current mode of getting water is automatic.

Specification of auto mode:

Under this mode, press the dispense button, then the solenoid valve of pure water is opened. And the valve will be automatically closed after the setting time.

• ATTENTION: Initial setting mode of getting water is Manual.

- "UP: 03min": It means that the getting ultrapure water's time of auto mode is 3 minutes.
- "RO: 05min": It means that the getting RO water's time of auto mode is 5 minutes.



- Time setting is effective only under auto mode;
- Time frame: 1 minute to 99 minutes.
- Setting method of getting water's mode:

In the interface (Picture 22), press "MENU" button, move the cursor to corresponding item, through shift button to choosing the digit and figure button to modifying the digital of digit, at last press "OK" button to confirm.

7.5 Specification of alarm

(1). Alarm of no feed water or low pressure of feed water

System continuously monitors the pressure of feed water. If no feed water or low pressure of feed water, system will warn (Picture 2).

• The alarm of starting up and flushing RO membrane:

Display warning picture 2, accompanied by buzzer alarm. System will continue to flush RO membrane until the pressure is ok.

• The alarm in the process of producing pure water:

Display warning picture 2, accompanied by buzzer alarm. System will continue to produce pure water until the pressure is ok.

• The alarm in other work status:

Display warning picture 2, accompanied by buzzer alarm. Warning time will sustain 3 seconds. System will work again after 3 seconds. System will monitor the pressure again every 1 minutes.

(2). Alarm of cartridges' life

Including: pretreatment cartridge replacement's reminding (picture 19), UV lamp replacement's reminding (picture 20), ultrapure polishing resin cartridge replacement's reminding (picture 16).

• Alarm of pretreatment cartridge replacement's reminding (picture 19), and UV lamp replacement's reminding (picture 20).

When the runtime is above the initial setting value of cartridges' life, system will warn, and display warning picture 2, accompanied by buzzer alarm. Warning time will sustain 3 seconds, and system will monitor the pressure again every 1 hour. It means that system will warn 1 times every hour until the initial setting value is modified or the runtime is cleared to zero.

• Alarm of ultrapure polishing resin cartridge replacement's reminding (picture 16).

When system's real time resistivity is less than the initial setting value, system will warn, and display warning picture 16, accompanied by buzzer alarm. Warning will occur every 10 seconds. The solenoid value of pure water's outlet will not be opened when system is warning. If opening is necessary, please modify the initial setting value of resistivity's alarm.

08 Water Quality Test

The system has 3 monitor sensors of water quality measuring.

• The first, TDS1, monitors feed water's quality (tap water, inlet water).

Measure unit: TDS (total dissolved solid, ppm)

• The second, TDS2, monitors reverse osmosis water's quality (RO water).

Measure unit: TDS (total dissolved solid, ppm)

• The third, Resist, monitors deionized water's quality (deionized water).

Measure unit: Resistivity (MΩ.cm)

REMARKS:

• Under normal conditions, new RO membrane's desalination rate is above 95%. It means that TDS of RO water should be less than TDS of inlet tap water×5%.

• If TDS of RO water > TDS of inlet tap water×10%, it means that RO membrane's desalination can't meet the minimum requirements. RO membrane should be replaced at once.

• Conversion relations between TDS and conductivity rate(µs/cm):

If TDS<50ppm, conductivity rate (µs/cm) ≈TDS×2

If TDS>200ppm, conductivity rate (µs/cm) ≈TDS×(1.5~1.7).

09 Consumables

Item No.	Commodity	Suggested replacement term
PC-M-PP	5µm spun PP cartridge	About 2-6 months
PC-M-KDF	Kinetic degradation fluxion cartridge	About 12 months
PC-M-AC-G	Granular active carbon cartridge	About 6 months
RO-100GPD	100GPD RO membrane	About 12-24months
RO-200GPD	200GPD RO membrane	About 12-24months
PTC-AC-HZB1	Low organic carbon cartridge	About 9000 liters pure water
PTC-MBR-M	Mixed bed resin cartridge	About 1000 liters pure water/pc
LAMP-254-10W-M	254 nm wavelength UV cartridge	About 9000 hours
TF-(0.45+0.1)µm-S	(0.45+0.1)µm terminal filter	

REMARKS:

• Worse inlet feed water quality or big dosage will reduce cartridge life.



10 Normal Trouble Diagnosis

Normal trouble	Cause	Diagnosis
No power	-No plug in -Power adapter broken	-Check the power connecting -Replace new adapter
No pure water goes out or a little amount of pure water	 -Valve of pure water outlet broken -Pump broken -Cartridges or filters' life ends 	-Replace new valve -Replace new pump -Replace new cartridges or filters
Cartridges' life warns	-Cartridges' life ends	-Replace new cartridges
Water leakage	-Adapter or something broken	-Check, insert and drag out again, replace
Water quality deteriorate	-Cartridges or filters' life ends -Water quality sensor broken	-Replace new cartridges or filters -Replace new water quality sensor

All other matters not mentioned herein, please contact us directly.

11 Warranty & Repair Regulation

The products enjoy repair service since the day of purchase. In one year from the purchasing day, we are obliged to replace components for customers free of charge, due to non-human-behavior factors, except for:

- (1). All the consumables;
- (2). Damage caused by maloperation or use in abnormal situations;
- (3). Disassembly any part of the machine or human-behavior damage;
- (4). Not repaired by our serviceman.

Specification can be changed without any prior notice for development.



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