JY817
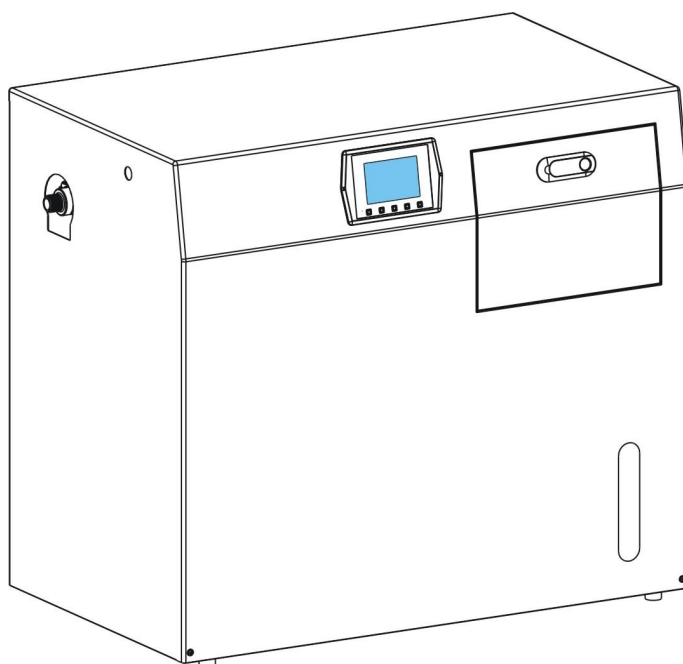
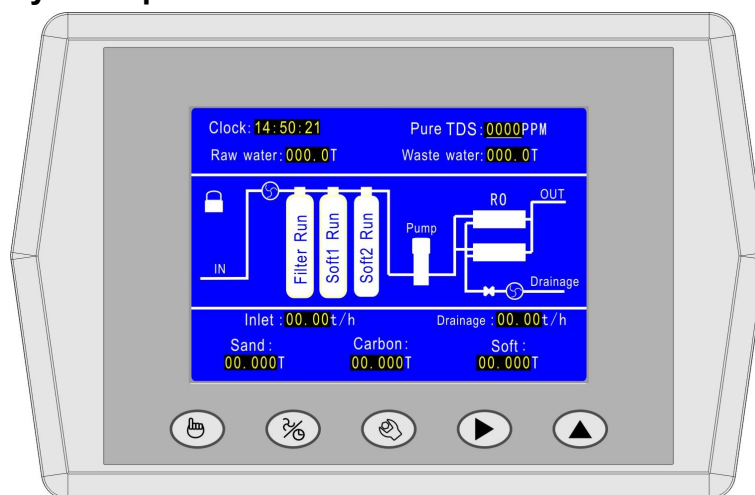## WHOLE−HOUSE WATER PURIFIER

Scan Qr code for the latest

I **Controller display and operation**

pic1：Control panel

The operation button：

☝：Manual switch；✎：Parameter setting；✄：Mode switch；

►：Move to the next digit；▲：Plus 1

A、Unlock：Press "► "&"▲" buttons at the same time，The key is unlocked,Displaying"▬" disappear

B、Lock：Automatic lock after 3 minutes without any operation.

C 、 "✄ " Mode switch ： Unlock state, the operation button in time mode " 🕐 " and meter Mode"ᔓ"display to switch between.

D、"☝"

Manual switch：Unlock state, when pushing the button the valve(below▽) switch to next station.As shown in the figure, the **Sand Run** (sand filter valve) enters the **Sand B.wash → Sand Wash.** Press the "► " button,"▽"move to the **Carbon Run**, Press the "☝" ,switch the carbon filter valve to enter the **Carbon B.wash** and **Carbon B.wash** . Cycle in turn.

Forced backwash:" 🕐 " button 6 times under the locked state, **Sand, Carbon, Soft**, enter backwash、Wash、Run → Regen、Wash、Run→Regen、Wash、Run.

E、"✎"Parameter setting：Unlock state, press the button and the screen will show the interface of setting parameters.

(2) Service display:

A, **Clock**: 14:50:21: Delay backwash function must be set.

B,**Pure water TDS: 0000 PPM** Shows the salt content of pure water, unit PPM(the mass concentration of total salt content of pure water per million)

C,**Raw water: 0000.0T** Measured by the water inlet flow meter, including all the softening water flowing out of purifier,**B.wash** and **wash** drainage, subsequent RO membrane purified water and RO drainage. Inlet flow meter symbol"ᔓ"rotates when water flows through it.

D,**Weste water: 0000.0T**   Total production of RO concentrate water, the unit is tons, by the drainage flow meter measurement,. drainage flow meter symbol"ᔓ"rotates when water flows through it.

E, **Inlet : 00.00t/h** Flow rate of inlet water.

F. **Drainage:00.00t/h** ,RO drainage flow rate,it is adjusted by the drainage valve.

G,**Sand: 00.000T; Carbon: 00.000T; Soft: 00.000T** Respectively display the sand filter valve, carbon filter valve, softening valve current station parameters, decline state, to "0" automatic to shift next station.

H. **Sand Run, Carbon Run and Soft Run** Respectively show that the sand filter valve, carbon filter valve and soften valve are in the "**Run**" state. If one of these position is blank, it indicates that the position is missing one valve, or the connection of the valve is fault.

(3) Red band display

Pure water tank full, high pressure pump stop
Raw water : 000. 0T   Waste water: 000. 0T

Pic2：Red band display

The red band at the top of the screen shows the working state of the purifier at intervals, such as "pure water tank is full, high pressure pump stop", "low water pressure, high pressure pump stop."

(4) parameter setting

Push "▶&▲" To unlock（🔒disappear）

Clock: 14:50:21	Pure TDS : 0000PPM
Raw water : 000. 0T	Waste water: 000. 0T

Filter Run Soft1 Run Soft2 Run Pump RO OUT IN Drainage

Inlet : 00.00t/h		Drainage : 00.00t/h
Sand : 00. 000T	Carbon: 00. 000T	Soft : 00. 000T

Push 🖐 to Setting interface

Parameter setting

Station	Sand	Carbon	Resin
B. wash (L)	■010	0010	0035
Wash (L)	0020	0025	0035
Run (T)	02. 10	02. 10	01. 40
Wash. num	1	1	1

Push "🖐" To next page

Dalay backwash setting

Clock:	■4H	50M	21S
Dalay:	03H	00M	

Push "🖐" To conform and exit

Pic3： " 🔄 " parameter setting

Push "▶&▲" To unlock（🔒disappear）

Clock: 14:50:21	Pure TDS : 0000PPM
Raw water : 000. 0T	Waste water: 000. 0T

Filter Run Soft1 Run Soft2 Run Pump RO OUT IN Drainage

Inlet : 00.00t/h		Drainage : 00.00t/h
Sand : 000000M	Carbon: 000000M	Soft : 000000M

Push 🖐 to Setting interface

Parameter setting

Station	Sand	Carbon	Resin
B. wash (M)	■010	0015	0030
Wash (M)	0008	0025	0040
Run (M)	0120	0150	0250
Wash. num	1	1	1

Push "🖐" To next page

Dalay backwash setting

Clock:	■4H	50M	21S
Dalay:	03H	00M	

Push "🖐" To conform and exit

**Pic4： "🕐" Parameter setting**

Parameter setting description:

The program default parameter is suitable for raw water hardness 5mmol/L, suitable for most occasions, generally do not need to modify.

3

*In order to ensure constant water use, the default setting is "delay backwash". 03:00 is the time when water is least commonly used. When any of the sand filter, carbon filter and softening valves, the "**Run**" parameter decreases to "0", wait until 3am to switch to backwash.*

*Parameters of sand filter, carbon filter and softening valves are in the form of lists.. **B.wash**, **Wash** and **Run** of the soften valve row correspond to **Regen**(salt absorption →Slow wash), **Wash** (Wash + water refill) and **Soft** respectively. For details about the rules for setting parameters of the softening valve, see **GR-2** manual.*

II Schematic diagram of operating principle
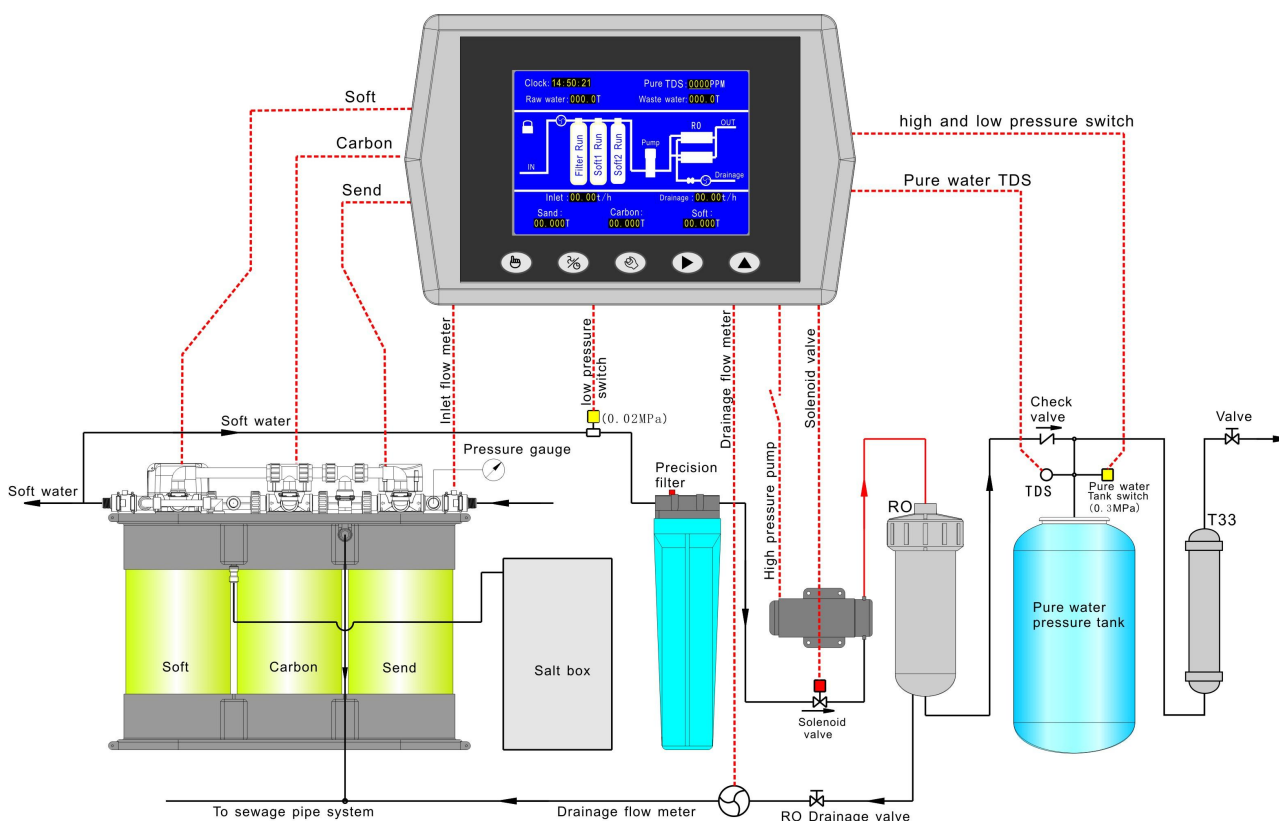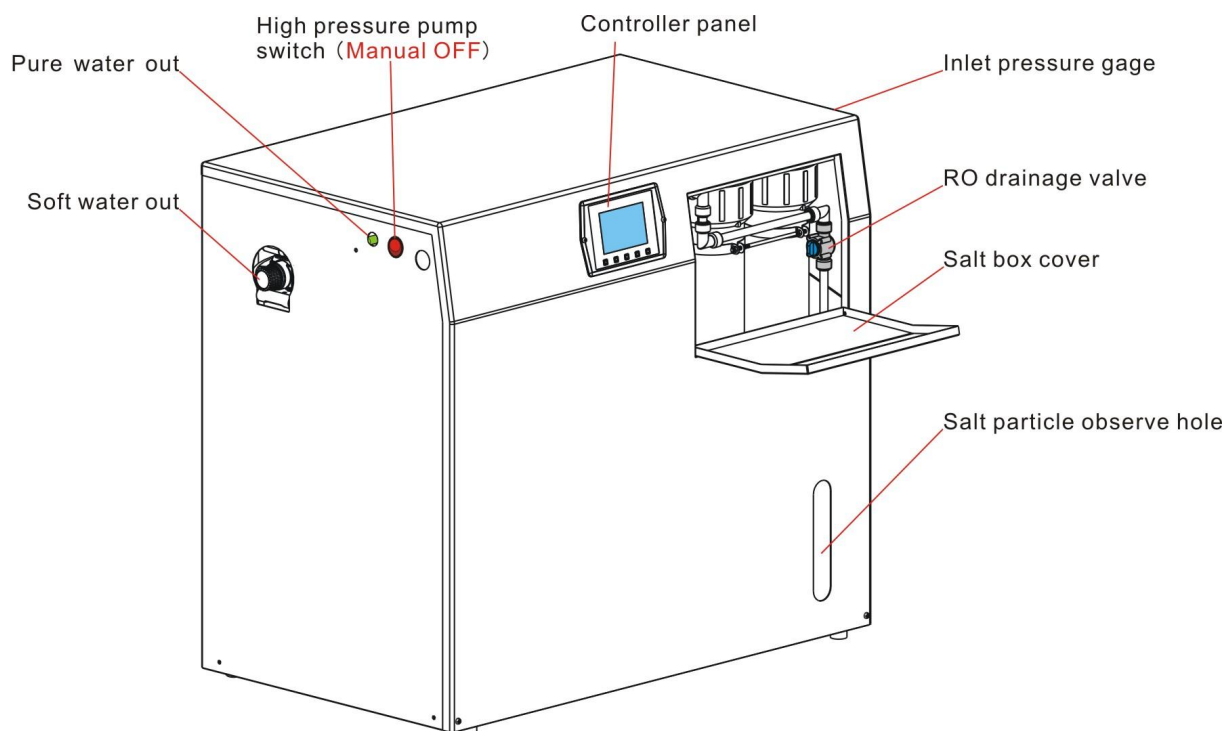

Pic5：Schematic diagram of operation principle

III. Debugging

(One-click operation)

Forced backwash mode:

Press "⟳" button 6 times under the locked state,**Sand, carbon, soft,** and enter *B.wash、 Wash、 Run → B.wash、Wash、Run →Regen、Wash、Run*, the purpose is to filter tank water injection and exhaust, resin tank water injection and exhaust, salt tank water injection, filter material cleaning, resin cleaning, after the end of pretreatment, precision filter water injection, water pump and RO membrane system water injection, Until the pressure of the pure water system rises, the low pressure switch is connected, and the high pressure pump is working. Preparation of pure water begins.

Note: Factory setting: pure water pressure 0.3MPa automatic closing, pure water volume of about 3 liters. The factory setting value of the lower pressure switch is 0.02MPa.
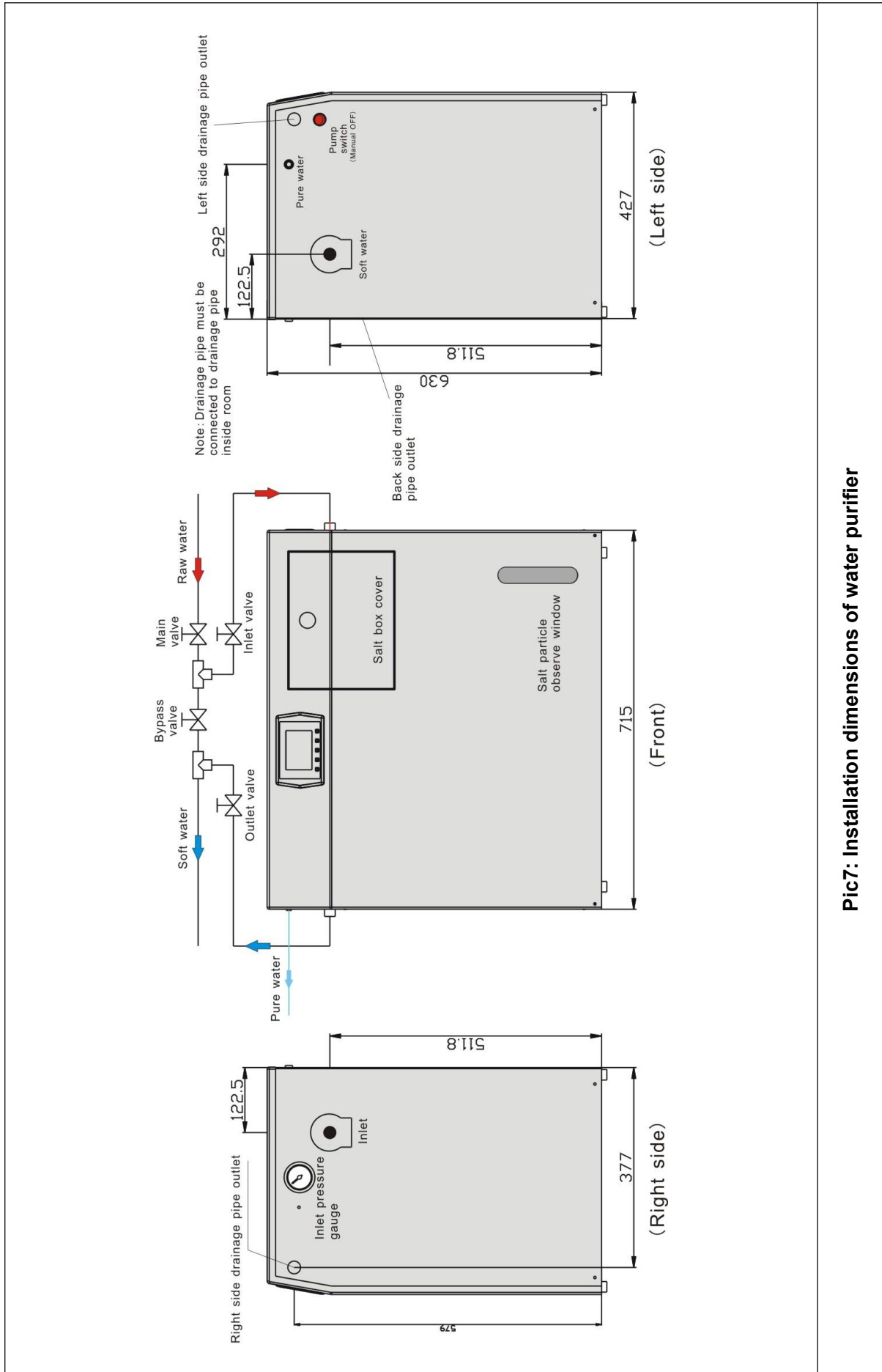
High pressure pump switch（Manual OFF）

Pure water out

Soft water out

Controller panel

Inlet pressure gage

RO drainage valve

Salt box cover

Salt particle observe hole

Pic6：Water purifier peripheral operating components

IV. Installation
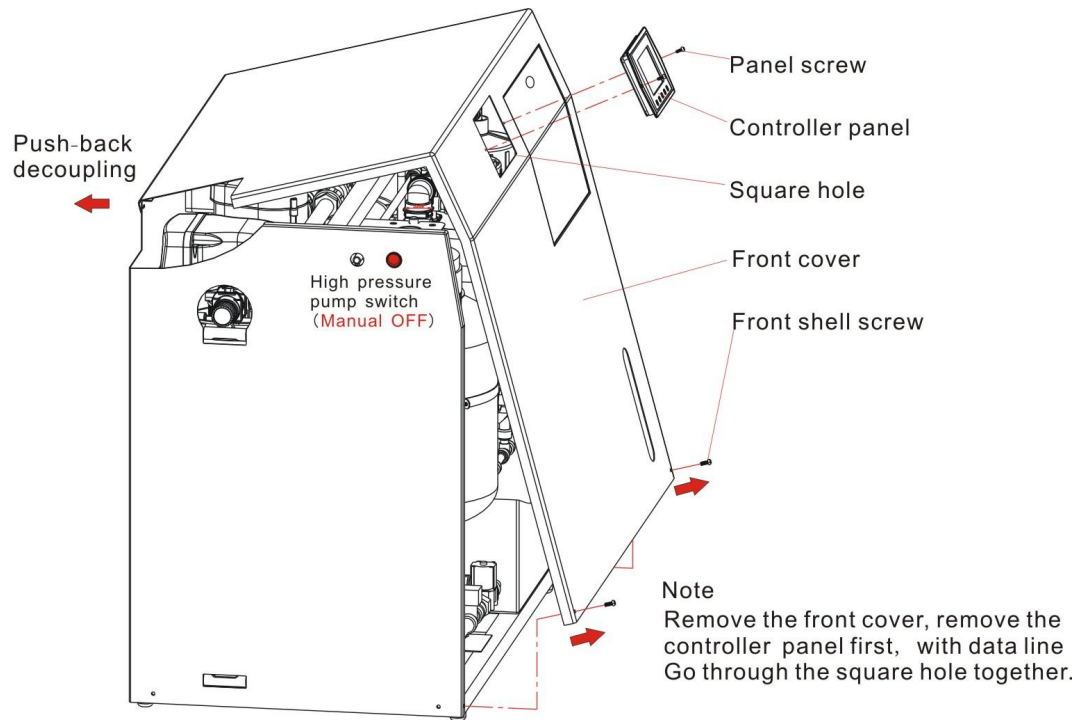
Installation precautions:

1. The inlet pipe and the outlet pipe of softened water should not be smaller than the corresponding specifications, otherwise the peak water flow of softened water will be affected.

2. The drainage main pipe of the water purifier shall be reliably connected to the indoor drainage pipe, and the floor drain shall be set around it.

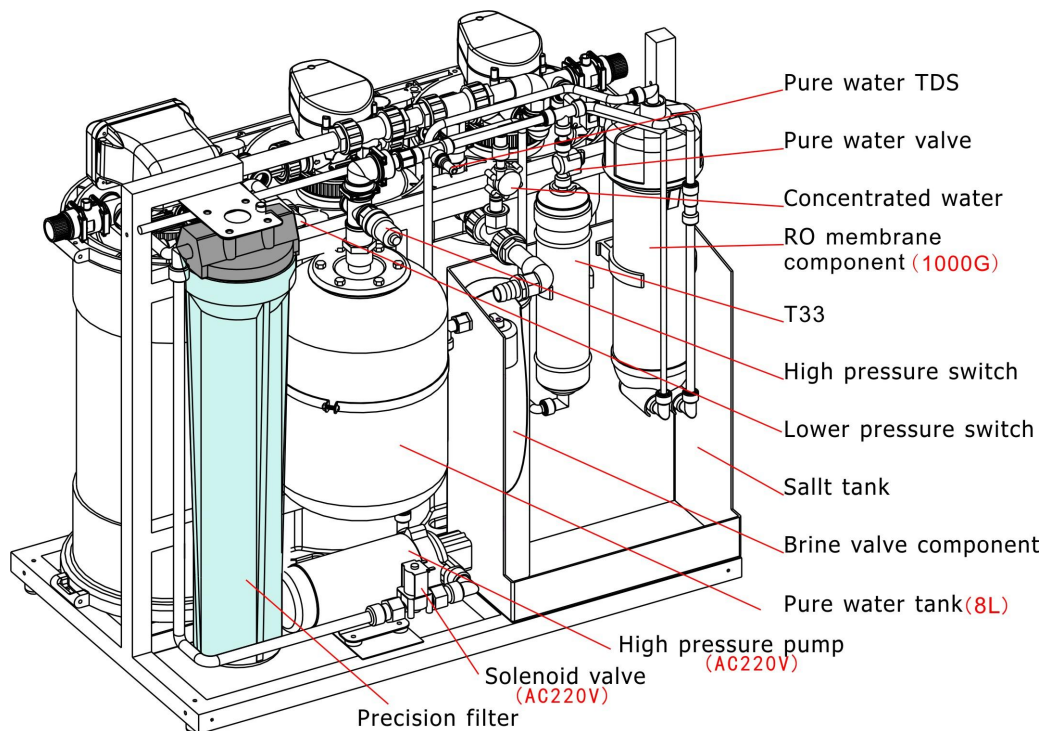*3. Water inlet temperature ranges from 0°C to 45° to avoid humid environment.*

Left side drainage pipe outlet

Pump switch (Manual OFF)

Pure water

Soft water

292

122.5

427

511.8

630

(Left side)

Note: Drainage pipe must be connected to drainage pipe inside room

Back side drainage pipe outlet

Raw water

Main valve

Inlet valve

Bypass valve

Salt box cover

Outlet valve

Soft water

Salt particle observe window

Pure water

715

(Front)

511.8

122.5

Inlet

377

579

(Right side)

Right side drainage pipe outlet

Inlet pressure gauge

Pic7: Installation dimensions of water purifier

V Pure water component and disassembly

Push-back decoupling

High pressure pump switch (Manual OFF)

Panel screw

Controller panel

Square hole

Front cover

Front shell screw

Note
Remove the front cover, remove the controller panel first, with data line Go through the square hole together.

Pic8：Front cover disassembly

Pure water TDS

Pure water valve

Concentrated water

RO membrane component（1000G）

T33

High pressure switch

Lower pressure switch

Sallt tank

Brine valve component

Pure water tank(8L)

High pressure pump (AC220V)

Solenoid valve (AC220V)

Precision filter
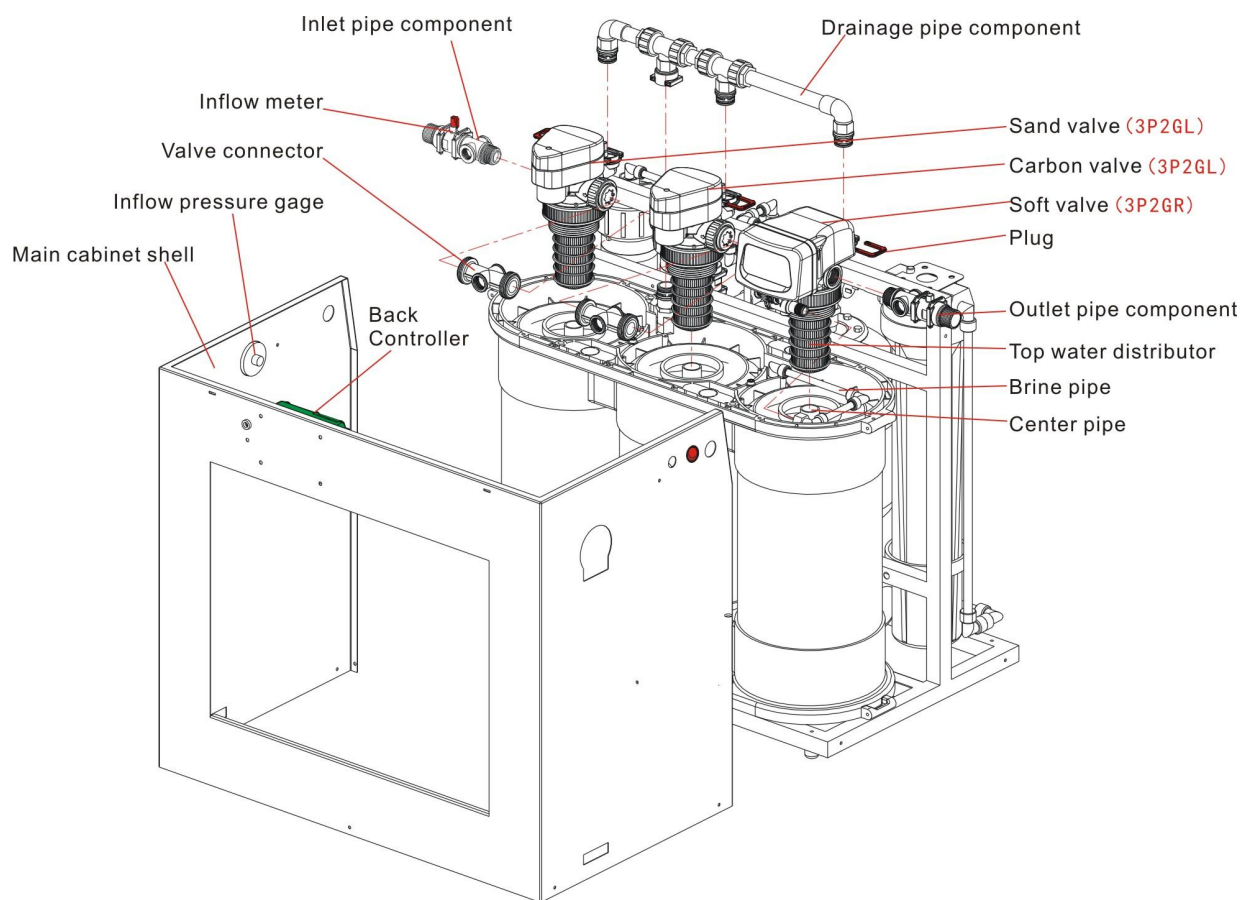
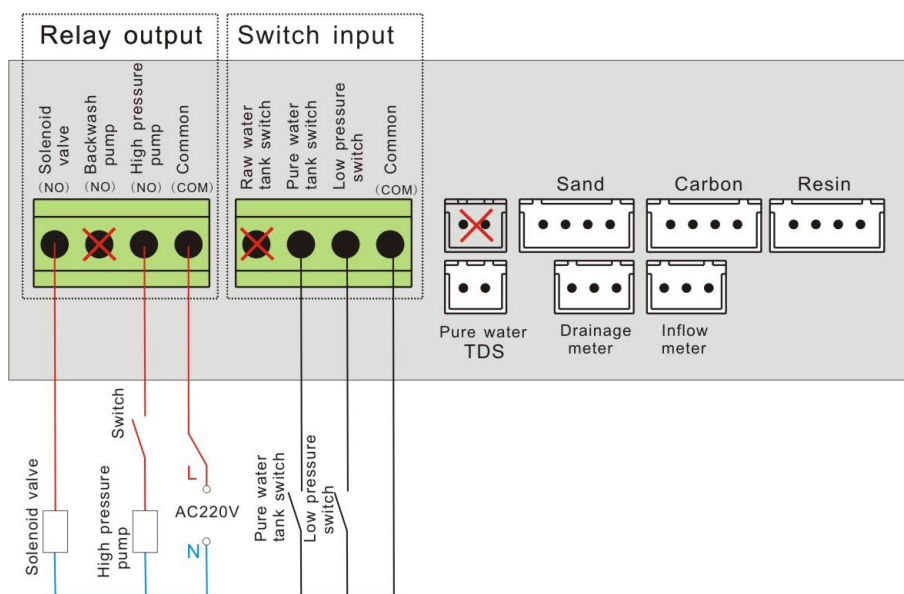**Pic9：Pure water component and RO membrane disassembly**

ⅥI Assembly and disassembly of pretreatment unit

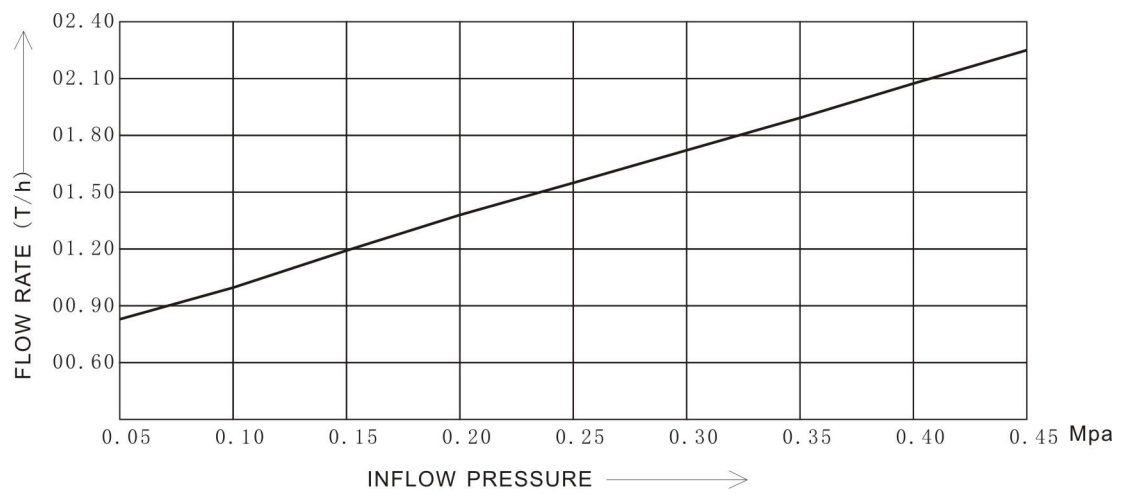**Pic10：Assembly and disassembly of pretreatment unit**

ⅦI Control electrical connection diagram

Pic11:Control electrical connection diagram

VIII Soft water flow rate pressure curve

Pic12:Soft water flow rate pressure curve