



# Installation and User Manual

**Models:** KRAUSEN NEW LINE A-D LCD

***For indoor use only***

Dear customer,

Thank you for purchasing our company's water purifier!

You now have water treatment equipment that is at the world's leading position in today's water treatment field. It produces pure water that can be consumed directly so the water you drink is cleaner and also beneficial to your health.

Before you install and use this water purifier, please be sure to read the user manual, this enables qualified and standardised installation as well as reasonable use and maintenance to maximise the effectiveness of your water purifier.

If you experience difficulties during installation or usage, please contact your local distributor to carry out repairs or maintenance for you.

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## Safety Considerations (Be sure to read and remember these safety considerations)

In order to avoid property damage and harm to you and others, make note of the following safety precautions.

★Ignoring the following safety precautions could result in a risky situation:

**⚠ Warnings** If you ignore contents in this section, it may cause permanent damage to the water purifier or cause serious property damage.

**⚠ Notes** If you ignore the contents in this section, it may lead to damage of some parts of the water purifier or may result in some property damage.

## ⚠ Warnings

### Do not disassemble or modify this water purifier on your own!



Unauthorised disassembly or modification of the machine could lead to machine malfunctions or leakage accidents.

Please check with the store where you purchased this product for product consultation in order to arrange for repairs.

### Do not put heavy objects on the water purifier!



If heavy objects are placed on the water purifier, it may result in damage to the water purifier's dust cover or internal components, which could lead to leakage, the machine working improperly, or even serious

property damage.

### Do not let the machine come in contact with corrosive materials!



These materials could corrode the outer cover and affect the water parts or some toxic and hazardous compounds could penetrate the water purifier

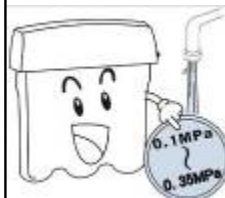
pipes, leading to contaminated water production and machine leakage, which could even cause bodily and property damage.

### Do not put things on the top of the machine!



Obstructing the heat dissipation may lead to machine damage or fires.

### Do not use this water purifier under high water pressure conditions!



Operating under high pressure conditions may cause the water purifier pipes to rupture, resulting in leakage, the machine working improperly, or even serious property damage. Recommended

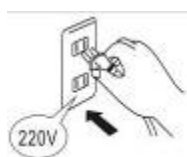
inlet pressure is 0.1MPa to 0.35MPa.

### Do not put the water purifier close to the fire!



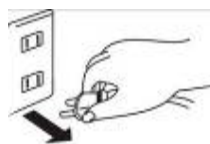
Do not put the water purifier near a fire source or place where the temperature is too high, this may cause deformation or melting of the machine, causing damage or leakage, which could lead to serious bodily and property damage.

**Do not use a power source exceeding the machine's specified value, only use 220V AC power!**



The outlet used for the machine's current must be greater than the machine's specified value; otherwise it may lead to overheating or fire.

**When installing or repairing, the machine must be disconnected from the power source!**



Otherwise it may lead to electric shock.

**Do not damage the power cord or outlet!**



Doing so may lead to electric shock, short circuiting, or fire.

**Do not touch the power plug with wet hands!**



It may lead to electric shock.

## Notes



**Do not use the water purifier when the sewer is blocked up!**

If it is used while the sewer is blocked, it may cause the waste water to back up or pollution to get inside the water purifier.



**The waste water discharge pipe and waste water ratio device cannot be blocked!**

When the waste water discharge pipes and waste water ratio device are clogged, it may lead to high TDS effluent, the RO membrane may get blocked or the water purifier may not work.



**Water purifier inlet water temperature should not exceed 38°C!**

If the inlet water temperature is over 38°C, it will damage the reverse osmosis membrane leading to membrane failure.



**Do not use in conditions under 5°C!**

If the temperature in the room is below 5°C, please be sure to take measures to prevent freezing, such as starting the heater or air conditioner to prevent leakage or cracked pipes caused from water freezing inside the machine.

**Do not use this water purifier outdoors!**



If this water purifier is used outdoors, it can lead to accelerated aging of the water purifier pipes and parts, which can cause leaking or machine failure.



**Do not use the water purifier in direct sunlight!**

When the water purifier is in sunlight for a period of time, it may create a breeding ground for microorganisms so the water purifier water quality will decrease, and they may pollute the internal components of the water purifier.



*The installer, service man, user or other responsible person should control system pump's pressure, volume of the waste water and filter's life for replacement.*



*The pump type should correspond to the system model. Otherwise, it's can destroy the pump or other system's part.*

*Unauthorised disassembly or modification of the machine could lead to machine malfunctions and leakage accidents.*

*For example, the system's pump type "D" cannot be installed on the system model "A", "B" or "C".*



*In this case, the manufacturer doesn't bear responsibility for system operation.*

*The working pressure optimal parameter of the system's pump on the membrane must be between 5,0 – 7,0 bar.*

## **Notes**

*Due to product improvements, the parameters may change, but the product name plate can stay the same.*

# Product Introduction

## 1. Blown-up profile of the water purifier

The system could be in 2 versions based on normal bracket or stable bracket.



Normal Bracket



Stable Bracket with Pressure meter

Diagram 1

## 2. Electrical diagram

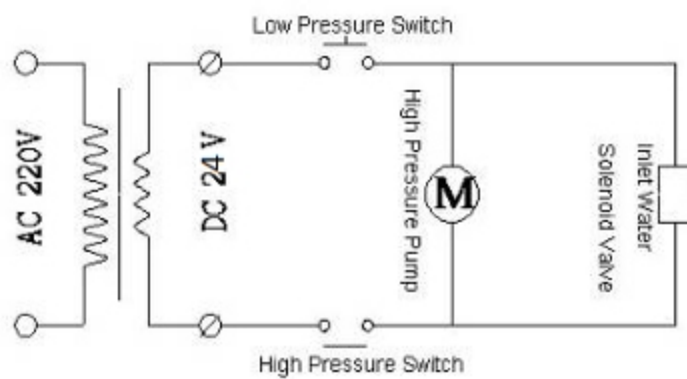
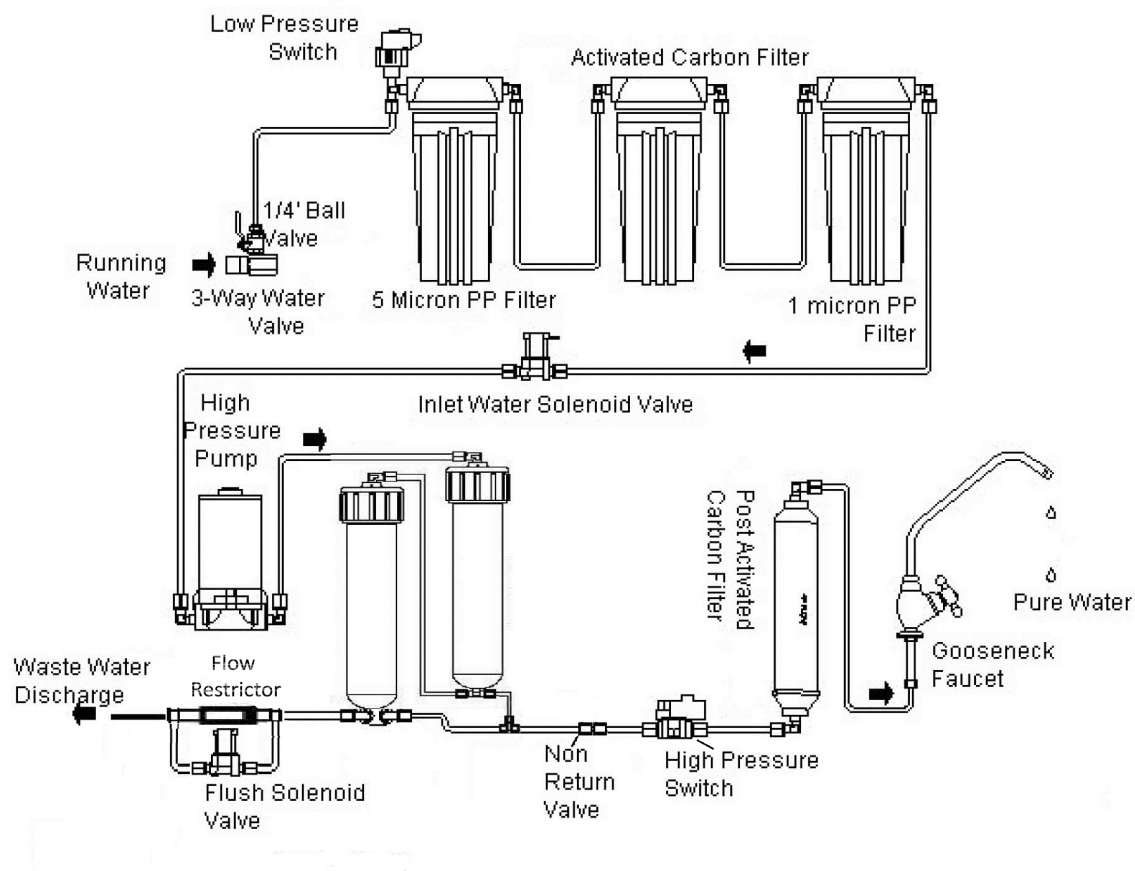


Diagram 2

### 3. Water route map



**Diagram 3**

### 4. Technical Parameters

#### 4.1 KRAUSEN NEW LINE A – D

**All types of NEW Line series (A-D) must be used only for domestic consumption, as a systems of direct filtration without additional tank usage and the drinking water production should not exceed 100 liters per day.**

Model NAME	NEW LINE A	NEW LINE A++	NEW LINE B	NEW LINE B++	NEW LINE C	NEW LINE C++	NEW LINE D	NEW LINE D++
Voltage	AC 220-240 V 50HZ, 24V, 1.8A	AC 220-240 V 50HZ, 24V, 2.2A	AC 220-240 V 50HZ, 36V, 1.5A	AC 220-240 V 50HZ, 36V, 1.5A	AC 220-240 V 50HZ, 36V, 2.8A	AC 220-240 V 50HZ, 36V, 2.8A	AC 220-240 V 50HZ, 36V, 3.2A	AC 220-240 V 50HZ, 36V, 3.2A
Power Rating	43 W	53 W	55 W	55 W	100 W	100 W	115 W	115 W
Suitable Inlet Water	0.5 ~3.5	0.5 ~3.5	0.5 ~3.5	0.5 ~3.5	0.5 ~3.5	0.5 ~3.5	0.5 ~3.5	0.5 ~3.5

Pressure, bar								
Working pump pressure, bar	5.0~7.0	5.0~7.0	5.0~7.0	5.0~7.0	5.0~7.0	5.0~7.0	5.0~7.0	5.0~7.0
Pump New Line type	A	A++	B	B	C	C	D	D
Inlet Temperature, °C	5 - 38 °C	5 - 38 °C	5 - 38 °C	5 - 38 °C	5 - 38 °C	5 - 38 °C	5 - 38 °C	5 - 38 °C
Maximum Inlet Water TDS Value, ppm	≤1000	≤1000	≤1000	≤1000	≤1000	≤1000	≤1000	≤1000
Drinking Water Production Volume, ml/	1000	1500	1400	2300	2800	3200	3700	4100
Waste Water Production Volume, ml/min	600 ml/min	600 ml/min	1100 ml/min	700 ml/min	1100 ml/min	700 ml/min	1100 ml/min	600 ml/min
Electric Shock Protection Type	Type II	Type II	Type II	Type II	Type II	Type II	Type II	Type II
Hardness level, max mg-ekv/lit	8	8	8	8	8	8	8	8
MAX pure water flow per day (Lit)	40	40	40	40	80	80	120-140	120-140

## Notes

***Due to product improvements, the above parameters may change, but the product name plate can stay the same. The parameters of drinking water/waste water volumes may vary depending of the different factors such as membrane's quantity, membrane's type, temperature of the water, temperature of the room, water quality, pressure of the pump, membrane capacity and etc.***

***The hardness could reduce membranes' life. In case, of the big hardness level, we recommend to use prefiltration filters, such as Krausen water softeners systems or Krausen Aqua Mix Ion systems, as well as to use antiscalant liquid for the special membranes for High TDS.***



## 5. Water Purifier Main Parts Function Introduction

Using the current most advanced international RO technology, standard configuration is as follows:

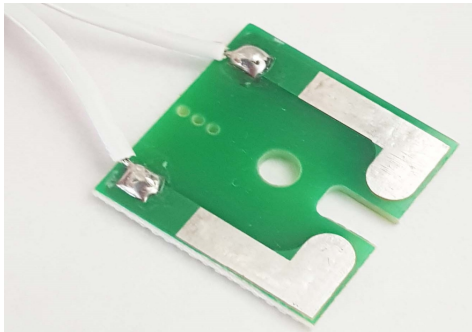
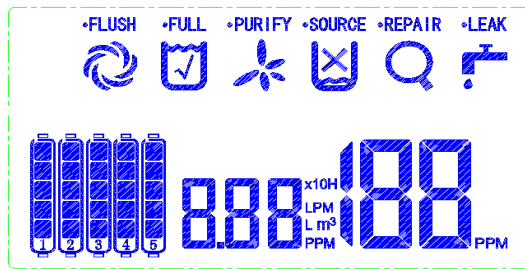
- ① First is a 10-inch 5-micron PP filter:  
The aperture of the PP filter is 5 microns, can effectively filter rust, sand, other larger particles and solid impurities in water.
- ② Second is a 10-inch carbon block CTO filter:  
Can effectively adsorb chlorine, humus, disinfection by-products, odours, colours, and other materials.
- ③ Third is a 10-inch 1-micron PP filter:  
Can further remove small particles in the water, suspended solids, colloids, etc.
- ④ Fourth stage is two RO membranes filters:  
Membrane can effectively remove bacteria, viruses, heavy metals, pesticide residues, and other harmful substances from the water.  
In case of 2, 3 pieces of membranes, the first membrane capacity should be the biggest one, second smaller and the final the smallest one. As an example, first membrane is - 200 gallons and the second - is 180 gallons for the system New Line A 380.
- ⑤ The fifth-stage is a coconut activated post carbon filter:  
Regulates water taste, keeps water fresh.

## 6. Water Purifier Accessory Functions

High Pressure Pump:	Boosts pressure to create a stable environment for the RO membrane.
Flow Restrictor:	Waste Water Ratio Device, controls waste water flow.
Low Voltage Switch:	To prevent pump idling. When the inlet water pressure is less than 0.03 MPa or when the inlet water stops, the low-voltage switch automatically shuts off the power source so the machine stops.
High-Voltage Switch:	Prevents pump from fully turning. When the goose neck faucet closed and the pressure reached the set pressure, power supply automatically cut off to stop the machine.
Inlet Water Solenoid Valve:	Connects or cuts off incoming water. Operating pressure range is less than $\leq 0.6$ MPa.
Non Return Valve:	Also known as a one-way valve, controls the flow direction.
Flush Solenoid Valve:	It's optional part and using for the modification <b>KRAUSEN NEW LINE LCD</b> only. It's help to clean up 2 membranes surface, to prevent the rise of the bacteria, to extend the life of the membranes. The valve works automatically.
LED / LCD Controller	It's optional computer controller, which operate all functions of the water purifier, as well as membranes automatic cleaning.
LEKAGE SENSOR	There is leakage protection function on the machine.

### Water Purifier modification **KRAUSEN NEW LINE LCD** with LCD controller.







The LCD led controller works fully automatically. It help to clean up the membrane surface, prevent the rise of the bacteria and extend the life of the membrane. The signs of the display show the system's work:






LEAKAGE SENSOR



TDS SENSORs

<p>•FLUSH</p> 	the light is on, when the membrane flashing process started. The automatic membrane cleaning can be done every 7-8 hours or after immediately after long work period of time. The limit time of flashing could be between 0,5 – 1,5 min.
<p>•FULL</p> 	the light is on, when the drinking goose neck faucet closed.
<p>•PURIFY</p> 	The light is on when the machine purify the water.
<p>•SOURCE</p> 	The light is on, when the inlet water pressure is enough.
<p>•REPAIR</p> 	The light is on, when something wrong and need to repair.
<p>•LEAK</p> 	The light is on, when the machine has leaking

	Filter service life
	LCD display show the INLET water TDS
	LCD display show the PURE water TDS

The “Strong washing” button is a manual flashing start. It could pushed manually if need to make a membrane cleaning.

## Control Function

### Flush Function

1. When power on, the LCD display will all light, the buzzer will beep one time. Machine will flush membrane 90 seconds.
2. Click flush key in purify state, machine will flush membrane 90 seconds.
3. Exit from source state, machine will flush membrane 30 seconds.
4. Purify 2 hours accumulatively, machine will flush membrane 30 seconds.

The pump and inlet solenoid and flush-solenoid are all on.

### Source Function

7. If the low pressure switch is open more than 60 seconds continuously, Machine will in source state.
8. If the low pressure switch is close, machine will flush membrane 30 seconds.

The pump and inlet solenoid and flush solenoid are all off. The buzzer will beep 10 times.

### Full Function

1. If the high-pressure switch is open and the machine purify water more than 10 minutes, the machine will flush membrane 5 seconds. ( Pump and inlet solenoid and flush solenoid are all on) If the machine purify water less than 10 minutes, flush solenoid will power on 10 seconds.

The pump and inlet solenoid and flush-solenoid are all off.

### Purify Function

3. If the high-pressure switch is close, the machine will in purify state;  
The pump and inlet solenoid are on, flush-solenoid is off.

### Repair Function

2. If the machine purify water more than 6 hours continuously, and there is no full of tank, the machine will be in repair state.

The pump and inlet solenoid and flush solenoid are all off. The buzzer will beep.

### Leakage Function

- If the leakage sensor detect water-leakage more than 5 seconds, the machine will be in leakage state.

The pump and inlet solenoid and flush solenoid are all off. The buzzer will beep.

## TDS Function

*TDS is a measure of the combined total dissolved solids in a liquid.*

The 3 small signs in left will show the original water TDS value; ( Measuring range 0-999)

The 2 big signs in right will show the pure water TDS value; ( Measuring range 0-199)

## Filter Life Replacement Reminder

The 5 timers accumulate water purify time.

## Wires

No.	Color	Peripheral	No.	Color	Peripheral
1	Yellow	Low pressure Switch	7	Yellow	Low pressure switch
2	Blue	High pressure Switch	8	Green	Pump
3	Blue	High pressure Switch	9	Black	Inlet valve
4	Red	Flush valve	10	Red	Flush valve
5	Green	Pump	11	White	24Vdc
6	Black	Inlet valve	12	Pink	24Vdc

## 7. Water purifier features:

- ① **Design without storage tank:** The water flow is equal to the normal one with tank. The user can get the pure water at the same time the machine is producing water. This design solves the contamination problem (such as odours, bacteria etc.) caused by long time pure water storage in tank. It supplies the real “pure and fresh water”;
- ② **Large Production Capacity and Big Water Flow:** The production capacity is 8 times of the standard 50G one;
- ③ **Quick-fitting Connector :** With newly designed quick-fitting connector on input and output water side, install and uninstall easily.

## Installation Method

This company recommends that professionals service man installs the machine for you, because you must use drills and other power tools in the installation process. If you are installing it yourself, please refer to the following steps and diagrams:

### 1. Pre-Installation Preparations

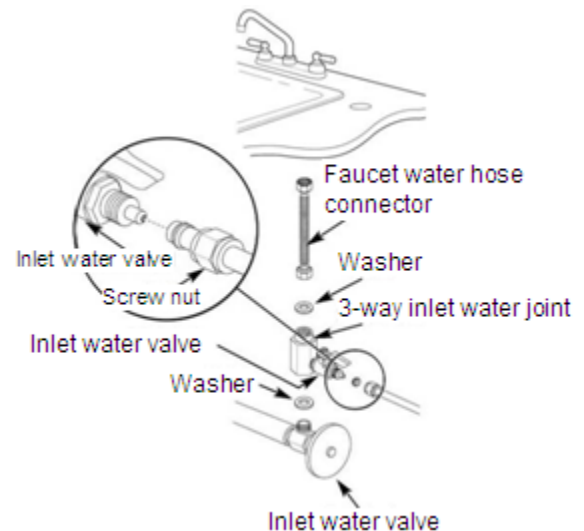
- ① Confirm the location the water purifier will be installed (when installing, it should depend on the actual circumstances)
- ② Confirm the various tools required for installation
  - Adjustable spanner 1
  - Drill 1
  - Hole saw,  $\phi 18\text{mm}$ ,  $\phi 12\text{mm}$ ,  $\phi 6\text{mm}$  1 (high-speed steel or marble hole saw)
  - Phillips and flathead screwdrivers 1 of each

Scissors	1 pair
21mm wrench	1
16mm wrench	1
14mm and 12mm multi wrench	1
Needle nose pliers	1

- ③ Confirm that you have all the connectivity accessories required for installation
- ④ Prior to installation turn off the water and/or electricity

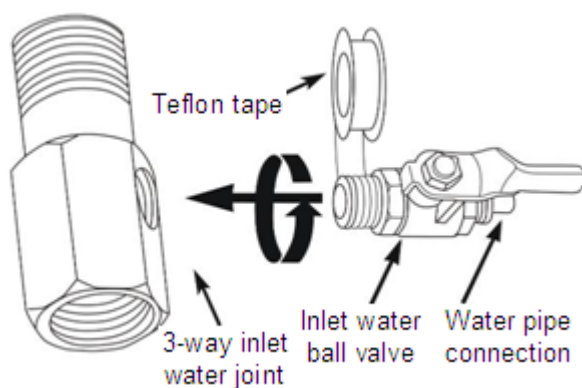
## 2. Instructions for Proper Installation

- ① Inlet water metal hose and 3-way inlet water joint installation method (if the metal hose diameter is 9mm the 3-way inlet water joint must be purchased separately)
- First close the inlet water valve. Unscrew from the metal hose. Remove the 3-way inlet water joint from the water purifier accessories box, thread one end of the inlet water 3-way joint into the inlet water valve outlet; one end of the newly unscrewed metal hose should be screwed into the 3-way inlet water joint screw nut (See Diagram 4).

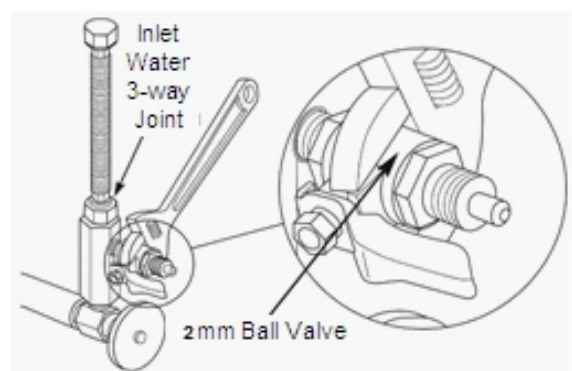


**Diagram 4**

- ② 3-way inlet water joint and inlet water ball valve installation method
- Take out the inlet water ball valve from the water purifier accessories box, wrap one end of the ball valve external threads with the appropriate Teflon tape (See Diagram 5), if you have silica gel, spread a little on and then screw the ball valve into the corresponding hole of the 3-way inlet water joint (See Diagram 6). Take out the Ø 6mm water pipe from the accessories box, using scissors cut a suitable length of pipe, connect one end of the pipe with the inlet water ball valve (See Diagram 4), finally screw the nut in place.



**Diagram 5**

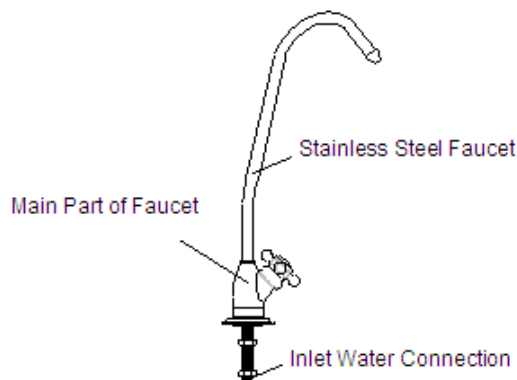


**Diagram 6**

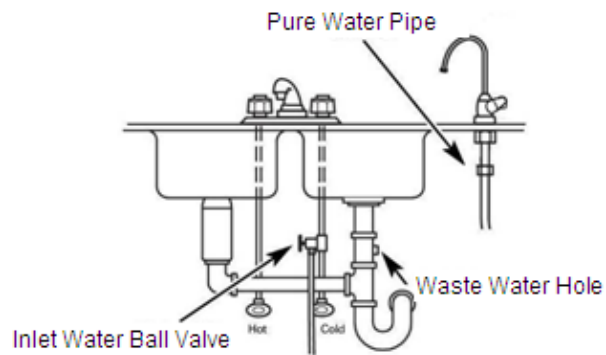
- ③ Goosneck faucet installation

In the counter where the faucet is to be installed drill a  $\phi 12\text{mm}$  hole in an appropriate position, then take out the faucet from the water purifier accessory box. Start the faucet installation: first put the stainless steel neck on the faucet main body (See Diagram 7), then lower the main part of the faucet into the already drilled hole, and then put the spacer on the lower part of the faucet. Screw the fixed nut into the bottom end of the faucet to fix the faucet to the counter, finally put the appropriate length of 6mm pipe into the water inlet connection, put the 6mm pipe stopper into one end, put on the 6mm nut, screw to the

bottom of the faucet (see Diagram 7). If you want to fix the faucet to the wall, please use the faucet hanging piece. (when installing be sure to tighten the joints to prevent leakage)



**Diagram 7**



**Diagram 8**

#### ④ Waste water pipe installation

Using a  $\phi 6\text{mm}$  drill punch a small hole into the sink drain pipe, take a suitable length of the 6mm water pipe, lay one end just inside the hole (See Diagram 8), put some silica gel where the 6mm pipe and the drain pipe connect to prevent leakage, use a cable tie to fix the waste water pipe to the drain pipe. (for large flow water purifiers you need waste water clip inserted into the already drilled drain pipe hole)

#### ⑤ RO Membrane Installation

First take the water purifier out from the packaging, find first membrane shell (housing), which is after the pump, unscrew the membrane shell cover inlet water connection end, take out the inlet water pipe, then use the membrane shell wrench to unscrew the membrane shell cover. Take the first RO membrane from its packaging, put the end of the membrane with the O-ring into the reverse osmosis membrane shell (See Diagram 9) and push it in, finally screw the membrane shell cover back on, and use the membrane shell wrench to tighten the membrane shell cover, put the inlet water pipe into the membrane shell inlet water connector and fix it, then put the membrane shell card into clips. Secondly, take the second membrane shell and make all operation as above with first shell. Finally, carefully recheck all connections of the water purifier.

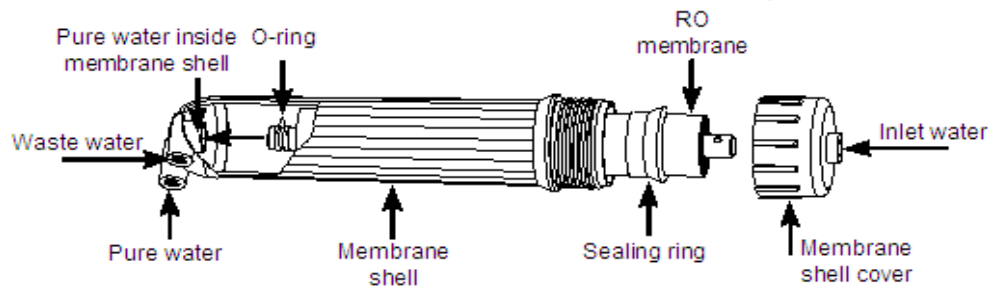
Membranes shells usually marked by the numbers. The shell with number 1 is for the membrane with higher gallon capacity, the number 2 – for membrane with lower gallon capacity.



**ATTENTION!!!** Please noted, that the normal pressure on the membrane should have the range between 5,0-7,0 Bar, if the pressure bigger then this numbers, please, use the flow restrictor for decreasing the water pressure. If the pressure on the membrane is higher than 7,0 bar, please, use the smaller nominal of the restrictor or use adjustable restrictor to decrease the the pressure to the recommended parameters/

### ⚠ Warning:

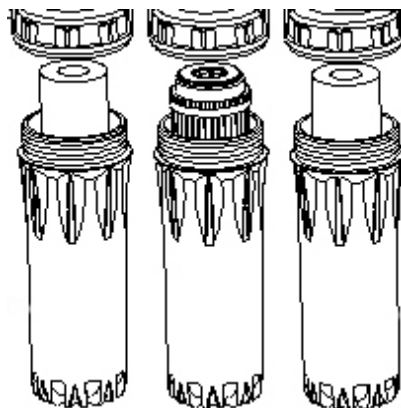
- ◆ When installing the RO membranes, you should pay attention to the direction of the membrane;
- ◆ When installing the RO membranes, you should first make sure that one end of the membrane has an O-ring;
- ◆ When installing, be sure to put the end with the O-ring into the end of the membrane shell with the pure water connection, when installing correctly you only need a little force to put the reverse osmosis membrane into the membrane shell, if you encounter too much resistance, please do not force the reverse osmosis membrane into the membrane shell, doing so may cause permanent damage to the membrane shell or membrane components (the membrane manufacturer does not assume responsibility for returned components due to damage during installation);
- ◆ Damage to the membrane shell and reverse osmosis membrane element caused as a result of the above reasons is not covered under the water purifier warranty.



**Diagram 9**

### ⑥ Installation of pretreatment filter cartridge

Take the filter cartridge out from package, tear the packing film and put into the filter housing by sequence, from right to left: first put 5 micron PP filters; The second put activated carbon filter, (rubber gasket side direction up; The third put 1 micron pp filters (diagram 10)



**Diagram 10**

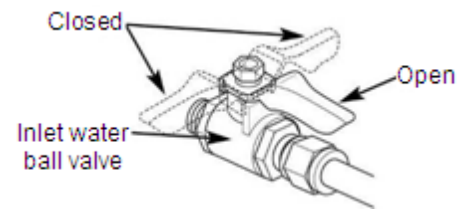
## 3. Installation Notes

- 1 When installing the water pipes, cannot install a drain stopper, in addition, for the water pipe bottom connector, the screw nut should have no wire teeth exposed.

- 2 If the inlet water pipe is 6mm, should ensure that the inlet water tube and connector have 30-40cm of straight piping to avoid burst pipe accidents caused by bending in the pipe.
- 3 If the power cord wiring needs to be longer, then according to the wiring requirements use a  $\Phi 8\text{mm}$  pinched tube to wrap around the connection, then on the outside wrap around insulating electrical tape, do not place it on the floor, it should be suspended in the air or in another place away from the ground.
- 4 When installing, if you need to make a hole in the wall, you should first make sure that there are no electricity or water lines in the location you plan to drill.
- 5 ! The machine must be connected with the switch with reliable grounding line , otherwise manufacturers are not responsible for safety accidents caused.
- 6 ! The switch power supply must switching power supply must put in ventilated and waterproof place, and keep adequate distance with machine, in avoid of accidents caused by water input.

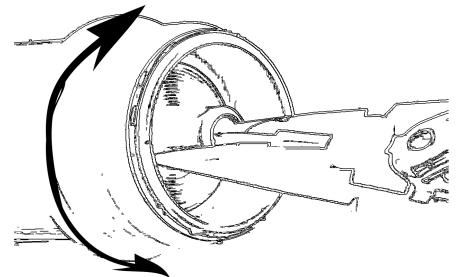
## Testing Methods

After confirming that the water route connections are correct, confirm that you have a power supply and/or water supply. Then follow these steps to troubleshoot the machine:



**Diagram 11**

1. Open the tap water inlet valve as well as the water purifier inlet water ball valve, plug in the power source (See Diagram 11), water will start to drain through the discharge outlet.
2. Wait for the water purifier to operate stably (about 5-10 seconds), check each connection to make sure it is secure, see if there is any leakage from the membrane shells, filters, etc.
3. Close the pure water gooseneck faucet and storage tank ball valve, wait approximately 30 seconds, check whether or not the water purifier waste water has stopped.
4. Open the gooseneck faucet, observe whether pure water is flowing through the faucet, if no pure water is flowing, check whether the tap water pressure is too low or whether the high pressure switch cannot be reset.
5. Wait until the machine is operating, close the inlet water ball valve, after a short time observe whether it has stopped operating, if it has stopped operating, check whether the low-voltage switch can be reset.
6. Wait some time to make sure everything is correct, then the water purifier can be used safely.
7. Check the water quantity, which go to drain. It's should be according with the table 4.1  
If the quantity of water is less than the information above it could lead to quick failure of the membranes.
8. Check the TDS after some litters of water pass through the gooseneck faucet. If the the membranes rejection is not very big, please take out every membrane from the membrane shell and insert it again with clockwise and anticlockwise rotations. Check it again.



Note: The pure water TDS could be higher after coconut activated post carbon filter till moment, when the unwanted active carbon go out.



# Usage Methods

1. The major components of this product are plastic, when using the product always observe the integrity of the water purifier to ensure safe use.
2. In order to prevent microbial contamination of membrane components during storage and transportation the reverse osmosis membrane elements packages can contain a small amount of protective solution while the coconut activated post carbon filter will emit activated carbon powder the first time it is used. So, for the first hour the water purifier is operated, do not open the water storage tank. it is recommended that the water produced is thrown out, otherwise the pure water taste may be unusual.
3. When you start operating the water purifier the pure water TDS value may be a little high, after running for some time the TDS value for pure water will gradually decrease until it is stable.
4. When you are using the water purifier, the inlet water ball valve should be opened and the pure water faucet needs to be turned on. When you are not using water turn off the water faucet, the high pressure switch will automatically cut off the water supply.
5. In these “usage methods”, “usage” refers to when the power supply is connected and/or the inlet water ball valve is open so the water purifier is in a working condition.

# Maintenance and Upkeep

## 1. Filter Replacement Time

- ① This machine's filter replacement cycle for the various filters is derived from statistical indicators on average tap water use estimates. If there are big discrepancies between the user's actual water quality and utilisation rate and the average indicators, there will be more obvious differences between the filter's actual use time and the estimated cycle such as premature filter clogging, premature failure, etc. If this happens, filter replacement should be based on actual use, you should also promptly contact your local after-sales service department.
- ② This machine's estimated filter replacement cycle is based on average household water consumption and is suitable only for residential use, do not install this machine in places that require large volumes of water. If the water volume requirements are large, this company has appropriate machines for business purchase.
- ③ According to economic statistics on municipal tap water, a three person family on average uses 10L of water a day, according to the water volume and inlet water quality conditions, overall filter volume is approximately as follows (the following data is for reference only):

Progression	Times
First: 10-inch 5-micron PP filter	2-6 Months
Second: 10-inch carbon block CTO filter	3-6 Months
Third: 10-inch 1-micron PP filter	3-6 Months
Fourth: RO Membranes	2~~3 years
Fifth: Coconut activated post carbon filter	1 Year

**Note: It is recommended that filter element replacement is carried out by after-sales staff. Water quality has a great influence on the life of the filter, the RO membrane's lifespan is affected by many factors, the above table expresses lifespan under standard conditions, in actual usage, because the water quality may be different, the lifespan may exceed the above estimate, it may also be lower than the estimate, this data is for reference only. Under normal circumstances if the following situations are experienced, you should consider replacing the filter:**

- ◆ Poor water quality, taste declines, TDS value of water rises;
- ◆ Water flow is significantly reduced, check to see if the filter or membrane is blocked (and determine that it was not caused by a temperature drop);
- ◆ If the filter's outer surface is covered in mud or the filter has significantly changed colour;
- ◆ If serious filter clogging leads to no pure water from the water purifier.

## 2. Filter Replacement Method

### ① Replacing the 1<sup>st</sup> and 3<sup>rd</sup> stage PP filters

First close the inlet water ball valve, using the filter cartridge wrench unscrew the 1<sup>st</sup> and 3<sup>rd</sup> stage filter cartridges, remove the old filters, then take the new filters out of the packaging, finally place the filters in the filter cartridges (Note: place the 5 micron PP filter in the 1<sup>st</sup> stage filter cartridge, the 1 micron PP filter in the 3<sup>rd</sup> stage filter cartridge), using the filter wrench, tighten the filter cover.

### ② Replacing the 2<sup>nd</sup> stage carbon block CTO filter

First close the inlet water ball valve, using the filter cartridge wrench unscrew the 2<sup>nd</sup> stage filter, remove the old filter, then take the new filter out of its packaging (the rubber pad on the filter does not need to be taken off), finally place the filter inside the filter cartridge, use the wrench to tighten the filter cover.

### ③ For replacement of membrane elements please see "RO Membrane Installation" (Page 8).

## 3. Notes

### ① RO membrane water production volume

The RO membranes components production volume dependence of the system model and it's configuration.

### ② Disposal of old filters

After replacing old filters, they cannot be cleaned and reused; it is recommended that you dispose of them with solid waste garbage.



## Notes

★ When any of the following situations occur, immediately disconnect the water purifier water source (close the inlet water ball valve) and/or the power source and carry out repairs.

- If the water purifier pipes or related components are leaking.
- If the water purifier's related components stop working.
- If any components leak electricity.
- If there are any other anomalies or failures.

★ When you go out or do not use the machine, disconnect the water purifier water source (close the inlet water ball valve) and/or power source.

★ If the water purifier parts are damaged, it is recommended that the water purifier be entrusted to the manufacturer or distributor, service center, or specialised technical personnel for replacement to prevent loss caused by improper operation, the manufacturer is not liable for losses caused by operation or use not in accordance with the instructions and reminders.

# Failure Diagnosis and Resolution

Failure Experienced	Reason	Resolution Method
The machine will not start	The power source is not connected	Check the power source or the power source plug
	Low inlet water pressure or no water	Check the inlet water pressure
	Low-pressure switch failure, cannot connect the power source	After connecting the inlet water, measure the resistance, replace
	High-pressure switch cannot be restored	After letting off the pressure, measure the resistance, replace
	Switch Mode Power Supply is burned out	Measure the output voltage, replace
The high pressure pump is working properly, but no water is being produced	High-pressure pump has lost pressure	Measure the water pump pressure, replace
	Inlet water solenoid valve is faulty, no water can get in (no pure water)	Replace the solenoid valve
	A pre-filter is blocked	Observe the pure water and waste water, replace the pre-filter
	Non return valve is blocked (waste water, no pure water)	Replace the non return valve
	The RO Membranes is plugged	Clean or replace the RO membrane
The machine is turned off but waste water has not stopped	Inlet solenoid valve failed, cannot effectively cut off the water supply	Observe the waste water, replace the inlet solenoid valve
	Non return valve has lost pressure (small waste water flow rate)	Observe the waste water, replace the non return valve
After the machine is filled with water, the machine starts repeatedly	Non return valve has lost pressure	Replace the non return valve
	High-pressure switch failure	Replace the high pressure switch
	System is exhibiting a loss of pressure	After checking the non return valve, check whether there is water leakage in the pipelines
The pure water flow is small or not flowing	Pre-filter is plugged	Replace the pre-filter
	RO membranes is plugged	Wash or replace the RO membrane
	Inlet solenoid valve failure	Replace the inlet solenoid valve
	Non return valve is plugged	Replace the non return valve
	Coconut activated post carbon filter is plugged	Replace the post-carbon filter
	High pressure pump pressure is not enough	Measure the high pressure pump water pressure, replace

## After-Sales Service

1. The warranty is valid from the date of installation.
3. Warranty period: Two-years machine warranty for the consumer in EU territories. The warranty does not include consumables (consumables include filters, RO membranes, and storage tanks).
4. Please keep the warranty in a safe place, for maintenance you must have your purchase invoice, only then is the warranty effective.
5. The final seller provides the warranty service.
6. The final seller can change the warranty conditions if the system installation wasn't made by seller's specialist. The installation should be operated by professionals from the seller's side.
6. No invoice, altered machine number, the user replacing parts or modifying the water purifier on their own, the user not following the requirements of the user manual, and man-made damage do not fall under the scope of the warranty.

9. If your water purifier exhibits abnormal behavior, please immediately turn off the water source, cut off the power, and contact your local vendor.



## Notes

The company reserves the right to change product design, configuration, and specifications without notice.

The company has the final explanation rights if this manual is unclear, has mistakes, or if there were printing problems which caused problems.

## Packing List

· Main machine (including 2 units of RO membranes)	1 unit
· Water pipe (ø6mm)	Each 1 roll
· Installation and User Guide	1 copy
· Gooseneck faucet	1
· Filter cartridge wrench	1
· Membrane shell wrench	1
· Accessory pack	1 package
Consisting of: 3 way inlet valve	1
Inlet water ball valve	1
Pipe stopper ø6mm	2
Faucet hanging piece	1
Drain clamp	1