

AICKSN®



INSTALLATION & SERVICE MANUAL

(AICKSN Central Reverse Osmosis Water Filtration Systems)

(RO400G/600G/1000G)

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CATALOGUE



(Commercial Central Filtration System Manual Instruction)

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Introduction

Thank you for choosing AICKSN Reverse Osmosis Water Systems. You now own a superb Reverse Osmosis (RO) system that adopts the international advanced reverse osmosis membrane (RO membrane) as the core, and With multi-stage pretreatment filtering, the filtering accuracy reaches 0.0001 micron, effectively reducing most contaminants, organic and inorganic compound, unwanted taste and odor from tap water. It is designed to transform your tap water into distill water. The entire water production process is fully automatic.

System includes

400G	600G	1000G
RO host 1pc	RO host 1pc	RO host 1pc
RO membrane 1pc	RO membrane 1pc	RO membrane 1pc
PP cotton filter 1pc	PP cotton filter 1pc	PP cotton filter 1pc
ACF filter 1pc	ACF filter 1pc	ACF filter 1pc
CB carbon filter 1pc	CB carbon filter 1pc	CB carbon filter 1pc
Parts kit 1pc	Parts kit 1pc	Parts kit 1pc
User manual 1pc	User manual 1pc	User manual 1pc
Stainless steel faucet 1pc	Stainless steel faucet 1pc	Stainless steel faucet 1pc
3/8" PE pipe 2m	3/8" PE pipe 2m	3/8" PE pipe 2m
1/4" pe pipe 4m	1/4" pe pipe 4m	1/4" pe pipe 4m
Three way ball valve 1pc	Three way ball valve 1pc	Three way ball valve 1pc
Adaptor 1pc	Adaptor 1pc	Adaptor 1pc
Hose connector (3/4" to 3/8") 1pc	Hose connector (3/4" to 3/8") 1pc	Hose connector (3/4" to 1/2") 2pc
Hose connector (3/4" to 1/4") 1pc	Hose connector (3/4" to 1/4") 1pc	
L-shaped elbow 2pc	L-shaped elbow 2pc	L-shaped elbow 2pc
Red buckle 2pc	Red buckle 2pc	Red buckle 2pc
Silicone oil 1 pack	Silicone oil 1 pack	Silicone oil 1 pack

Product specification

	400G	600G	1000G
Rated voltage	110-220V 50-60Hz	110-220V 50-60Hz	110-220V 50-60Hz
Output voltage	24V / 3A	24V / 3A	24V / 3A
Water inlet pressure	0.15-0.4Mpa	0.15-0.4Mpa	0.15-0.4Mpa
Water inlet requirement	Municipal water	Municipal water	Municipal water
Water inlet temperature	5-45°C	5-45°C	5-45°C
Water inlet pipe size	3/4" to 1/4"	3/4" to 1/4"	3/4" to 1/4"
Water outlet pipe size	3/4" to 1/4" 3/4" to 3/8"	3/4" to 1/4" 3/4" to 3/8"	3/4" to 1/4" 3/4" to 3/8"
Wastewater pipe size	1/4"	1/4"	1/4"
Rated flow \geq	1L/M	1.5L/M	2L/M
Flushing method	Automatic flushing	Automatic flushing	Automatic flushing
Wastewater ratio	Manual adjustable	Manual adjustable	Manual adjustable

Filter Service Life

- 1st Stage PP filter : Recommend changing every 5~8months.
- 2nd Stage ACF filter: Recommend changing every 6~12 months.
- 3rd Stage RO Membrane : Recommend changing every 2~3 years.
- 4th Stage Post carbon filter: Recommend changing every 6~12 months

Installation instruction

1.Preparations before installation

Confirm the installation position of the water purifier, the power supply, and the concentrated underwater water pipe [The installation should depend on the time situation]

Confirm that all accessories required for installation are complete. [Refer to the packing list for details] Close the water inlet valve before installation.

2.Installation steps:

2.1 Connect the filter to the corresponding connector of the host;

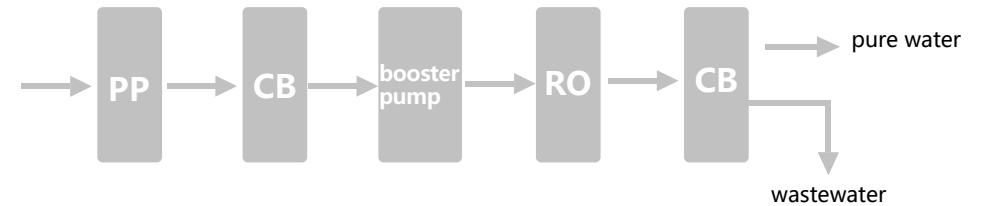
2.2 Conect the RO membrane wastewater pipe into the wastewater inlet under the accessories box

2.3 Connect the 1/4" PE pipe to the host wastewater, and connect the other end of the 1/4" PE pipe to the sewer pipe.

Machine debugging:

After confirming that the water connection is correct, open the water inlet three-way ball valve [confirm whether there is tap water supply], and plug it in power supply [confirm whether the socket has electricity], at this time the high-pressure pump starts, the waste water outlet starts to drain, after entering the water production state, there will be a small amount of white protective liquid when the water purifier tap is turned on for the first time, and the water will be kept for 3-10 minutes until there is no white protective liquid. The TDS data will be slightly higher when the pure water machine is used for the first time, and it is necessary to continue to discharge the water to make the machine produce water flow to about 50-100 liters.

Purification flow chart



Component description drawing



Back of component description drawing



Wastewater control valve
Counterclockwise rotation the wastewater will be big, waste too much water
rotation the wastewater will be small, RO membrane is easier blocked

Wastewater outlet
Connect the 1/4" PE pipe to the host wastewater outlet, and connect the other end of the 1/4" PE pipe to the floor drainblocked



Wastewater inlet
Conect the RO membrane wastewater pipe into the wastewater inlet under the accessories box

Special Note



Please read the "Instruction Manual" repeatedly before using this water purifier, and strictly follow the requirements in the manual for installation, use and maintenance. If the user fails to install, use and maintain as required and cause an accident, our company will not bear any responsibility for this.

1. The main connecting parts of this machine are plastic products. The user must always observe its integrity during use to ensure safe use. When the user goes out for a long time or does not use the machine, be sure to close the water inlet valve, disconnect the power supply, and discharge all the pure water from the pressure tank.
2. The machine should not be placed in an excessively humid place, otherwise it will cause spots on some metal parts of the machine.
3. The recommended replacement cycle of various filter elements in this machine is calculated by referring to the average index of tap water in the scope of use that meets the national standard. If the water quality at the user's actual use differs greatly from the average index, there will be a significant difference between the actual use state and the estimated period (such as premature clogging of the filter element, premature failure, etc.). At this time, filter elements replace should be based on the actual use state.
4. The estimation of the life cycle is based on ordinary household water. Users with a large water consumption such as units will quickly reach the total water intake. Please replace the filter as soon as possible.

TROUBLE SHOOTING

NOTE: Turn off the system before servicing.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The machine does not start	The power is not turned on	Check the power supply or the power plug
	The high voltage switch cannot be reset	Measure its resistance after releasing the pressure and replace it
	Transformer burns out	Measure its output voltage and replace it
	The computer box has no output voltage	Measure its output voltage and replace it
The high-pressure pump works normally but cannot produce water	Pressure loss of high-pressure pump	Measure the outlet pressure of the pump and replace it
	The four-sided valve is faulty and cannot enter water (there is no pure water or wastewater)	Replace the four-sided valve
	The pre-filter is blocked	Observe the pure water and waste water, and replace the pre-filter
	RO membrane is blocked	Clean or replace RO membrane

PROBLEM	POSSIBLE CAUSE	SOLUTION
The pressure bucket is full, but the pure water cannot flow out	The pressure bucket is released	Inflate to the pressure bucket, pressure of the empty bucket is 0.5~0.7KG
	Inline carbon filter is blocked	Replace it
The machine does not stop when the pressure tank is full	The pressure of the high-pressure pump is less than 3KG, pure water tank pressure cannot reach the high-pressure setting pressure	Measure the water pump outlet pressure and replace it
	The high voltage cannot be taken off, and the power cannot be cut off	Replace the high voltage switch
	The computer box is faulty and the water pump power cannot be turned off	Measure whether the computer box has output voltage and replace it
The machine shuts down but the waste water does not stop	The solenoid valve fails to effectively cut off the water	Observe the waste water and change the four-sided valve
	Check valve to relieve pressure (waste water flow is small)	Observe the waste water and replace the check valve
The machine repeatedly jumps off after the water is full	High-voltage switch failure	Replace the high-voltage switch
	The system has pressure relief phenomenon	Check the pure water pipeline after the check valve
	The pre-filter is blocked	Replace the pre-filter
Insufficient pure water	RO membrane is blocked	Clean or replace RO membrane
	The waste water ratio is too conductive	Replace waste water ratio
	Insufficient high-pressure pump pressure	Measure the pump outlet pressure

WARRANTY SERVICE

1. The warranty period starts from the date of issuing the invoice.
2. Warranty period: The whole machine is guaranteed for two years, and the consumables are not within the scope of the warranty.
3. Please keep the warranty card properly. The warranty requires the purchase invoice and warranty card to take effect.
4. If there is no invoice, the machine number is altered, the user disassembles and replaces the machine by himself, the operation not in accordance with the instructions and all man-made damage are not covered by the warranty.
5. If your machine appears abnormal, please unplug it immediately, turn off the water source and contact with us at www.aicksn.com or email your request to tech@aicksn.com