

# AICKSN®



## AICKSN-RO-200

RO 200G Ultrafiltration/Reverse osmosis  
double outlet water system

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# CATALOGUE

Introduction	1
System includes	1
System Requirements	1
Filter Service Life	1
Electrical schematic diagram	2
Installation instructions	2
Main components and flow chart	3
Special Note	3
TROUBLE SHOOTING	4
WARRANTY SERVICE	6

## 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.

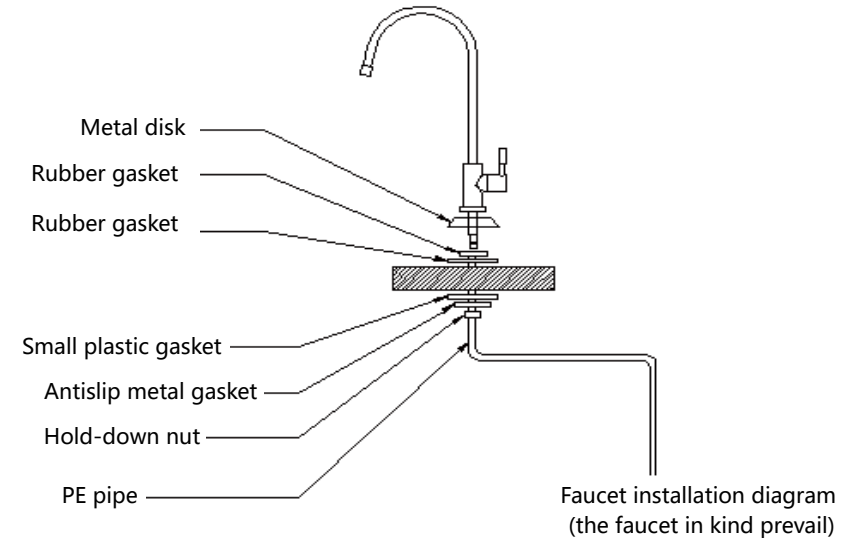
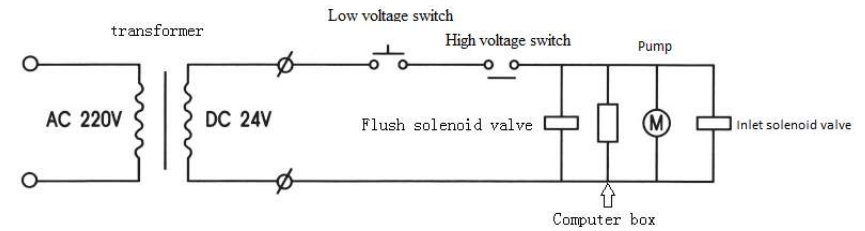
## Product functions

- (1)Reverse osmosis membrane separation system: The combined core of this machine adopts a new household RO membrane separation technology that incorporates the latest scientific and technological achievements, which can efficiently remove harmful substances, retain water molecules and dissolve cyanide, and te effluent quality is better .
- (2)Low noise: The imported original parts of this machine have low chatter noise, small spreading, long service life and reliable operation quality.
- (3)With high pressure flushing reverse osmosis membrane kinetic energy (automatic flushing type and microcomputer control series, with automatic strong washing function), which can effectively extend the life of RO glue.
- (4)Automatic control of the water production process (the raw water and the molten iron stop, and the water bucket is full).

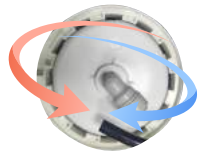
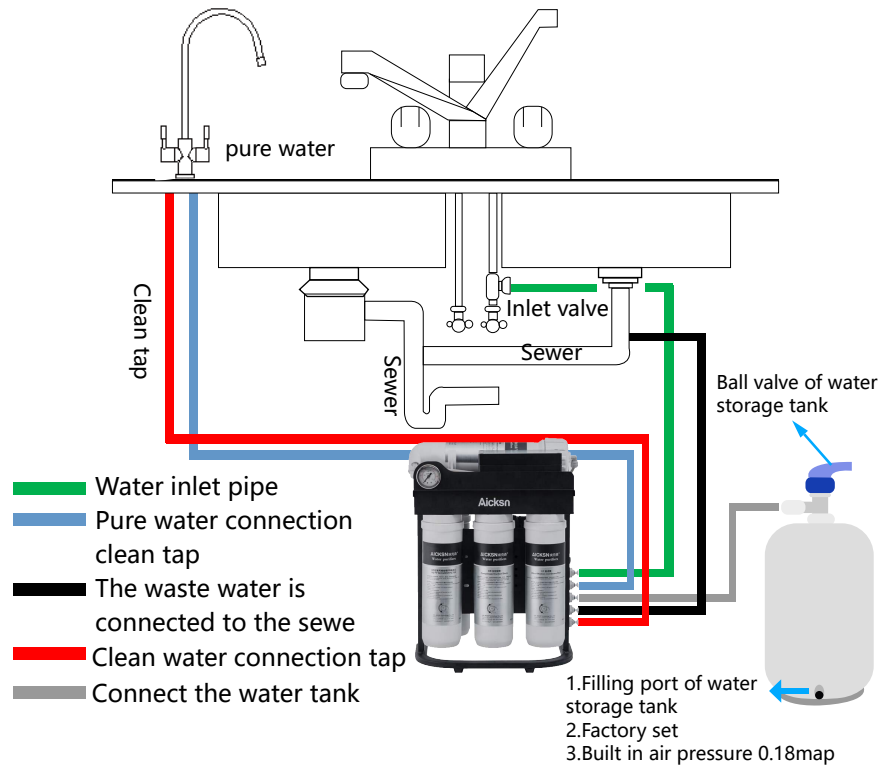
## Filter Service Life

- 1st Stage PPF filter : Recommend changing every 3~6 months.
- 2nd Stage Carbon block filter: Recommend changing every 9~12 months.
- 3rd Stage Hollow fiber UF Membrane: Recommend changing every 24~27 months.
- 4th Stage RO Membrane : Recommend changing every 24~36 months.
- 5TH Inline carbon filter: Recommend changing every 18~24 months.

## Electrical schematic diagram

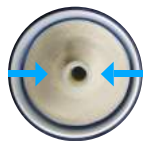


## Installation diagram of pure water machine

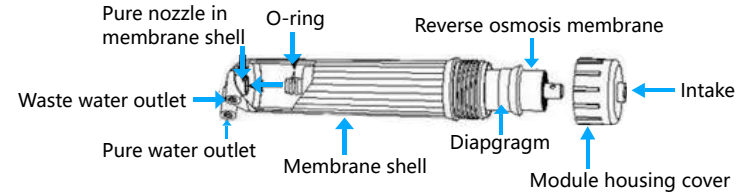
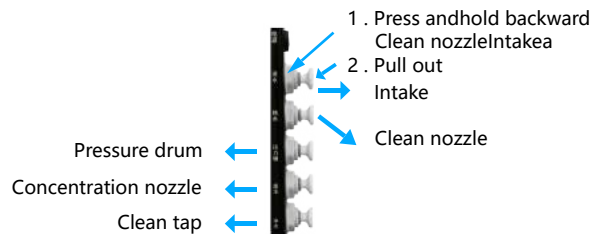


(Counter clockwise Clockwise tight)

Put the module shell holder into the module housing cover, then turn the membrane cover anticlockwise, tear off the bag of reverse osmosis membrane and put the membrane into the module housing



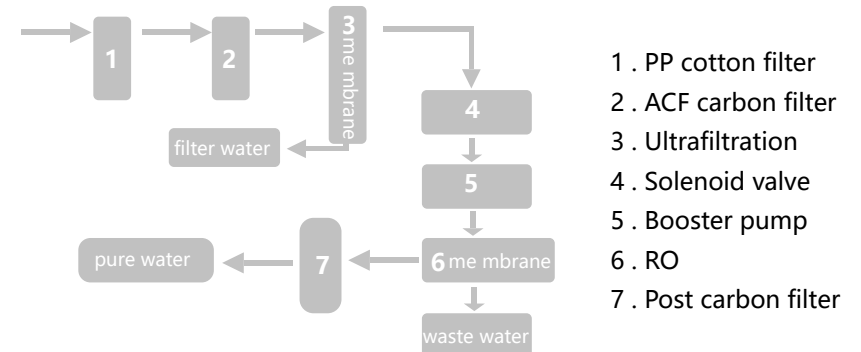
Put the module shell holder into the module housing cover, then turn the membrane cover anticlockwise, tear off the bag of reverse osmosis membrane and put the membrane into the module housing



1. First open the membrane bag and open the membrane cover.
2. Insert the O-ring end of the reverse osmosis membrane into the membrane shell and push the membrane to the bottom
3. Finally screw on the diaphragm cover

**Note:**  
the reverse osmosis membrane must be inserted to the bottom

## Purification flow chart



## Technical parameters

Input power supply : 110-220 V / 50-60 Hz  
 Output power supply : 24 V / 3A  
 Inlet water pressure : 0.15-0.4mpa  
 Inlet water temperature : 5-45 degrees  
 Inlet water quality : ≤ 1000ppm  
 Inlet pipe diameter : 1 / 4"  
 Outlet pipe diameter : 1 / 4"  
 Waste water pipe diameter : 1 / 4"  
 Water production : 1.1L / min  
 Flushing method : manual flushing  
 [ once every 30-60 days ]  
 Pure wastewater ratio : can be adjusted manually

## Accessory Package

1. 3 water inlet PE pipe 1 / 4 " : 2m
2. 2 branch PE pipe 1 / 4 " : 3M
3. Inlet three-way ball valve : 1 set
4. Stainless steel tap : 1
5. Gooseneck hanging piece : 1
6. Reverse osmosis membrane : 1
7. Module shell wrench : 1
8. Transformer : 1
9. 2 points direct : 1
10. Tank : 1

## Component description drawing

Pressure gauge

Function Fault diagnosis

When the machine works normally, the pressure is between 0.55 Mpa and 0.7 Mpa, and the reverse osmosis membrane is blocked or the waste water ratio is not coordinated, which is less than 0.5 mpa-0 Mpa

1. Replace the pump when the pump loses pressure
2. Replace the filter element if the first two filter elements are blocked
3. Whether the inlet water pressure is insufficient, the water inlet requirement is 0.15mpa-0.4mpa

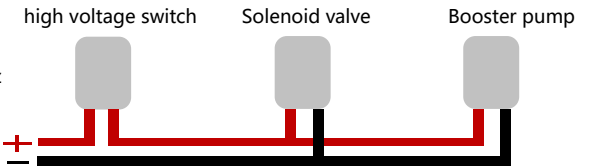
High quality silicone foot pad to prevent wet corrosion of support frame



## Electrical schematic diagram

Enter:100V-220V/50-60Hz  
Output:24V/3A

Transformer



Level 4 : Reverse osmosis membrane

The filtration precision reaches 0.0001 um it can intercept heavy metals, soluble solids, bacteria, viruses, heat sources and other harmful impurities in water. Only water molecules and dissolved oxygen are retained, and the effective interception rate is more than 95%.

Level 1 : PPF polypropylene fiber filter element

Function : it is made of food grade polypropylene fiber material by special process, which can intercept sediment, rust, suspended solids, colloid, etc in water.

Level 2 : sintered activated carbon

Function : Made from sintered coconut shell activated carbon, it can effectively adsorb residual chlorine, organic matter, peculiar smell, macromolecular impurities and decolorize in water.

Level 3 : ultrafiltration membrane

The filtration precision is 0.01 um. it can intercept bacteria, viruses, heat sources and other harmful impurities in water. Water molecules and dissolved oxygen are retained, and the effective interception rate is more than 95%

Waste water solenoid valve

230cc waste water ratio  
start 18 seconds automatic flushing



Adjustable high pressure switch pressure

Inlet solenoid valve : normally closed, electrified waterway open, power off waterway closed

High voltage switch : normally closed, pressure up to off, factory setting 0.22mpa



Booster pump intake

Level 5 : Post sintering activated carbon

is made of natural high-quality coconut shell activated carbon through special activation, which can further absorb the peculiar smell of water, inhibit bacteria from growing, and ensure that the water quality is fresh and delicious and the effluent is sweet.

## Installation instructions

1. Close the main water inlet valve of the tap water and open the parts package of this pure water machine. Wrap the external thread of the 1/4" water inlet ball valve on the raw material tape and connect it to the side hole of the water inlet tee, then wrap the external thread of the water inlet tee on the raw material tape and connect to the reserved 1/2" Tap water pipe joint.

2. Because this machine uses membrane separation technology, waste water will be discharged during the water production process. A small hole (6mm) is reserved in the sewer to facilitate the insertion of the drainage pipe. After installation, it needs to be sealed with silicone to prevent water leakage.

3. Tap a small 12mm hole in a suitable place on the water bucket, and then install the goose neck faucet (matched with the pressure storage bucket). The goose neck faucet can also be fixed on the wall with a plastic hanger.

4. Check the host is installed on the table or under the sink to determine how many holes to drill for the water pipe (the following is for reference only, and the actual installation should depend on the actual situation).

(1) The matching model of RO host and pressure storage bucket: If the host and pressure storage bucket are installed under the cabinet, there is no need to drill another; if the host is installed on the table and the pressure bucket is installed under the cabinet, drill 4 6mm holes are connected to the water inlet pipe, the pressure barrel water pipe, the pure water pipe and the drain pipe respectively.

(2) RO main pipe and pipeline machine supporting models. Both the main machine and pipeline machine are installed on the platform. At this time, 3 6mm holes should be drilled to pass through the inlet pipe, drain pipe and overflow pipe (line machine).

(3) Under the sink. At this time, 4 6mm holes should be drilled to connect the water inlet, the pressure bucket water pipe, the drain pipe, and the drain pipe.

(4) After the pipe is connected to the drill hole, silica gel is required to prevent water seepage.

(5) Connect the pressure tank to the pressure tank ball valve, and connect the 1/4" water pipe joint.

(6) Put a pipe plug on the 1/4" PE water pipe nozzle and connect the water pipe.

## Set up machine

Set up machine

After confirming that the waterway connection is correct, you must also confirm:

1. Whether the power socket has electricity

2. Is there a water supply from Then enter the debugging of this machine, the method is as follows:

1. Open the main tap water inlet valve, and open the water inlet ball valve (the valve handle is in a line with the valve body), close the pressure bucket ball valve, and open the goose neck faucet. 2. Insert the power trace head into the power socket. At this time, the high-pressure pump starts. After a while, it starts to drain from the waste water outlet, and enters the state of fresh water after 1.5 minutes. Also, after waiting for a period of time, there is water flowing from the goose neck faucet. After 10-20 minutes, open the pressure barrel ball and pour water into the pressure barrel. When using this product for the first time, the pure water that enters the pressure storage tank must be discharged twice before it can be used after it is full.

Note:

(1) When using this water purifier for the first time, there may be a small amount of black water when you turn on the goose neck faucet to drain the water. Please continue to rinse.

(2) The TDS test data may be slightly higher when the water purifier is used for the first time, please continue to rinse.

## 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
	Low pressure of raw water or water cut off	Check raw water pressure
	The low-voltage switch fails and cannot be connected to the power supply	Measure the resistance after connecting the raw water and replace it
	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 inlet solenoid valve (four-sided valve) is faulty and cannot enter water (there is no pure water or wastewater)	Replace the inlet solenoid valve (four-sided valve)
	The pre-filter is blocked	Observe the pure water and waste water, and replace the pre-filter
	Check valve is blocked (waste water but no pure water)	replace check valve
	The automatic flushing solenoid valve fails and cannot be effectively closed (it is always in flushing state, and the waste water is large)	Observe the wastewater flow rate and replace the automatic flushing solenoid valve (refer to microcomputer type)
	The computer box is faulty and the flushing solenoid valve cannot be closed (always in the flushing state)	Measure the input voltage of the flushing solenoid valve. Replace the computer box (refer to the microcomputer box)
	RO membrane is blocked	Clean or replace RO membrane



## 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](http://www.aicksn.com) or email your request to [tech@aicksn.com](mailto:tech@aicksn.com)