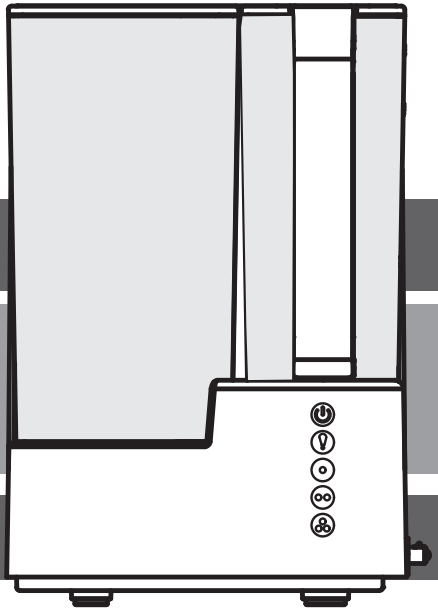
Puricom®



Mia

Zero Installation
Countertop Water Purifier

User Manuel

Installation free

Pure and ready to drink

Easy operation

No drip, no waste design

Smart LED display

Washable water pitchers

Quick-release replacement filters

High-grade filter materials

Power saving transformer

NSF certified fittings and tubing

High flow booster pump

CE certified

Please keep this user manual, maintenance record card, and warranty card in a secure place to ensure perfect after-sales service.

If you have any questions, please contact customer service at the number on the back of the manual.

Table of contents

Forward

Thank you for purchasing Mia Mobile Smart RO Water Purifier. Its convenient installation-free design allows you to use it directly from the box. Plug it in and it is ready to use. The smart filter replacement light signals when it is time to replace filter elements, and its DIY self-maintenance design can save on maintenance and time costs, allowing you to conveniently enjoy healthy pure water.

Puricom has accumulated more than 20 years of water purification experience providing users with clean and worry-free drinking water. With today's deteriorating environment and serious water pollution problems, it is important to follow strict quality control in the manufacturing of water filter products. The high-standard filter media and components of Mia ensures your enjoyment of healthy, pure drinking water.

Features of Mia Portable Smart RO Water Purifier

- No installation required; it can be used right after plugging in
- Smart filter replacement reminder
- Simple design, compact and innovative
- 285 liters of pure water per day
- DIY filter replacement and maintenance design
- Removable and washable pitchers, clean and hygienic
- Zero chemical additives, purifies completely with physical properties
- No water wasted

WHAT IS NATURAL OSMOSIS AND REVERSE OSMOSIS (RO)?

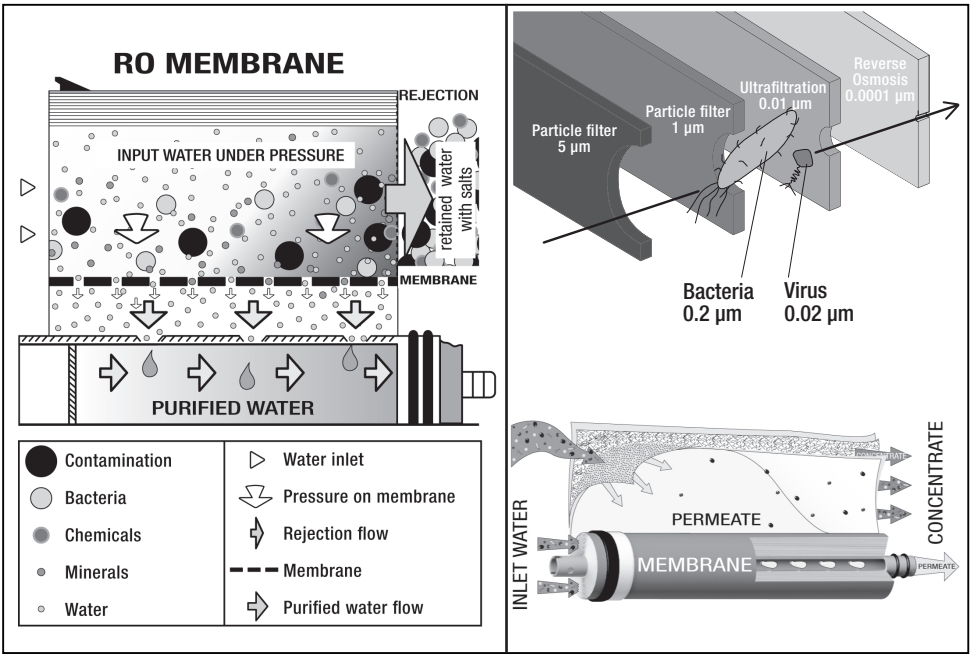
Natural osmosis is a very common process found in nature where fluids pass through a membrane, such as found in cell walls, blood vessels, body organs, plant roots etc.

When two solutions of different concentrations of dissolved solids are separated by a semi permeable membrane, it naturally produces a flow of water through the membrane from the side with a lower concentrated solution to the side with a higher concentrated solution. This flow will continue until the concentrations on both sides of the membrane are equal.

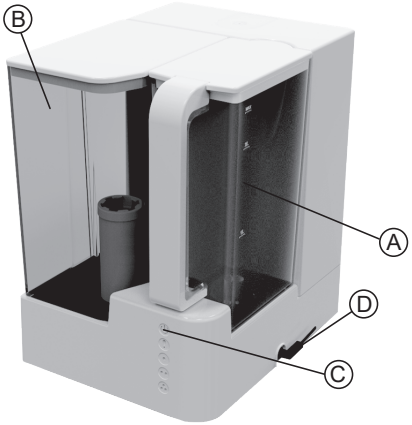
HOW DOES THE MEMBRANE WORK?

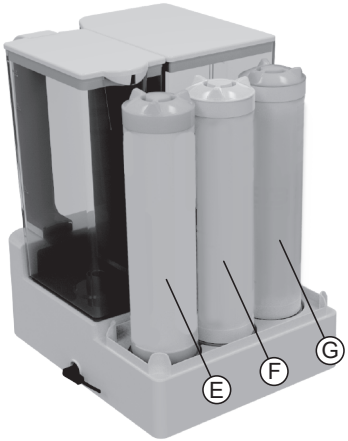
Pressure is applied to the water on the inlet side of the semi permeable membrane, so that part of it (RO water) will flow through the pores of the membrane, while the rest of the water (water rejected with high salt concentration) will be diverted back to the supply pitcher to recycle and optimize performance.

Since the diameter of the pores of the membrane is less than 0.0001 microns, only water molecules and a small amount of minerals (sodium, potassium, calcium, magnesium, etc.) will pass through the membrane. Larger molecules will be “rejected” from passing through the membrane.



Purifier parts introduction

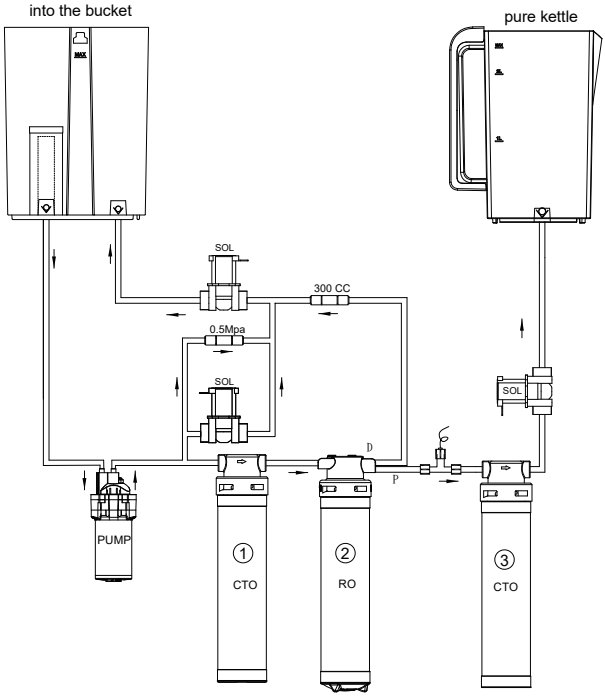




A	Pure water pitcher	B	Inlet water pitcher	C	Power indicator
D	Power jack	E	CTO Pre-filter	F	CTO Post-filter
G	RO membrane				

Specifications
Model : Mia
Dimensions : H 348 x W 233 x D 297 mm
Weight : 5.2 Kg
Applicable water temperature : 45℃ / 5 ℃
Inlet TDS (maximum) : 800 ppm
Water hardness (maximum):25 grain
Water production : 285 liters per day
Electrical specifications : 100-240 V, 50/60 Hz, 24 VDC
Pure water pitcher capacity : 2.4 liters
Inlet water pitcher capacity : 4.3 liters

Filter system function introduction



Order	Item	Function
Stage 1	CTO Pre-filter	1.Compressed activated carbon, with fine pore size. 2.Removes odors, chlorine, pesticides, carcinogens and chemical residues in water...etc.
Stage 2	100GPD RO membrane	1.NSF certified PP filter 2.High-flow reverse osmosis membrane, high filtration efficiency. 3.Removes contaminants down to a molecular level, including radioactive substances, chemicals, heavy metals such as arsenic, chromium, mercury, lead and other substances that are harmful to the human body.
Stage 3	CTO Post-filter	1.Compressed activated carbon, with fine pore size. 2.Removes odors, chlorine, pesticides, carcinogens and chemical residues in water...etc.
CE	UP-A1001P	Provides top quality, quiet, efficient ope rating pressure for RO filtration process.

Initial rinsing

When Mia. is used for the first time, and after replacing the filter elements or RO membrane, a filtration cycle should be performed first before using the water. The pure water produced at this time will wash out the fine particles of the activated carbon filter element, resulting in a gray color of the water. This gray carbon powder is natural, food-grade activated carbon, which does not affect water quality and health.
After completing 1 cycle of filtration, the filter element initialization is completed. You can enjoy pure and healthy water from Mia.

Operating conditions

Product operating environment

- The optimum product environment temperature is 4°C - 40°C.
- The optimum temperature of incoming water is 5°C - 45°C. Use of hot water is strictly prohibited.
- Do not place in extreme high or low temperature environ ments, such as near cooking stoves, in direct sunlight, etc.
- Do not place in a wet or humid environment.
- Unplug before servicing or replacing filter elements.

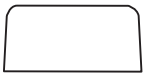
Water inlet conditions

Do not use with water that is microbiologically unsafe or of unknown water quality without adequate disinfection before or after the system. If the water being used is from a public supply, it will comply with requirements for water to be used for the Mia purifier. If the water source used is not tap water, please contact the customer service center before use to evaluate the most appropriate pre-treatment method to use with the Mia water purifier.

Precautions

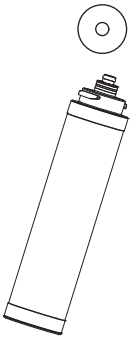
- Before running each filtering cycle, make sure that the pure water pitcher is empty to avoid overflowing.
- When starting a new batch, always pour out the high concentrate water remaining in the inlet pitcher from the previous batch. Do not dilute and re-filter the concentrate water; this will decrease the life of the filter elements and RO membrane.
  ※The high-concentrate water can be used for watering flowers, washing dishes, flushing toilets etc.
- Do not store pure water for long periods of time. The water should not be stored in the pure water pitcher for more than three days. If the purifier has not been used for more than three days, it is recommended to run one batch to rinse the purifier before using for drinking. If the purifier will not be used for more than three days, it is recommended to unplug the purifier.
- If the purifier has not been used for more than one month, wash the pitchers with water and a mild dish detergent and run a rinse cycle before drinking the pure water.

LED light status description

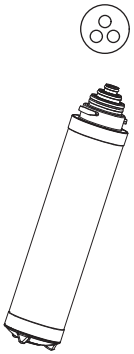
Symbol	Function	Location	Status	Description
	Power indicator	Front	Off	Unplugged
			Flashing	Inlet water pitcher not positioned properly
			On	Inlet water pitcher positioned properly
	Abnormal indicator	Front	Off	Normal
			On	Filter life nearly over
			Flashing	Overflow / poor water quality
	Filter 1	Front	On	Filter 1 replacement reminder
	Filter 2	Front	On	Filter 2 replacement reminder
	Filter 3	Front	On	Filter 3 replacement reminder
	Pure water pitcher	Back	Off	Filtering cycle completed
			Flashing	Pure water pitcher not positioned properly
			On	Pure water pitcher positioned properly

Filter replacement

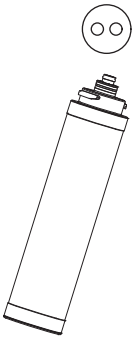
Periodic filter replacement is required to ensure water quality and proper performance of filters. These are the recommended filter change periods to be used as a guideline for municipal inlet water. Filters may need to be changed more often if inlet water is of lower quality.



Carbon Pre-filter



RO membrane



Carbon Post-filter

Carbon Pre-filter
6 months Or 240 hours filter running time
RO membrane
2 years Or 960 hours filter running time
Carbon Post-filter
6 months Or 240 hours filter running time

RO MEMBRANE REPLACEMENT

How to tell if the RO membrane needs replacement:
The condition of the membrane is assessed by testing the percent TDS (Total Dissolved Solids) rejection:
Using a TDS meter, compare the TDS of the inlet water to the pure RO water, and obtain the percentage of TDS rejection.
Your supplier can help you to check your water quality, or you can purchase a TDS tester to test by yourself.

$$\%\ \text{rejection rate} = \frac{\text{TDS of inlet water} - \text{TDS of pure water}}{\text{TDS of inlet water}} \times 100$$

Example:

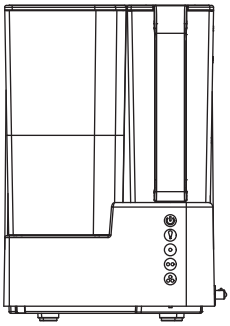
Inlet water TDS = 300ppm; Pure water TDS = 18ppm*

$$\frac{300 - 18}{300} \times 100 = 96\%\ \text{rejection rate}$$

If rejection goes below 70%, the membrane life has come to an end and the membrane needs to be replaced. To assure an accurate measurement, measure the pure water after a full pitcher has been filtered.

TDS Tester

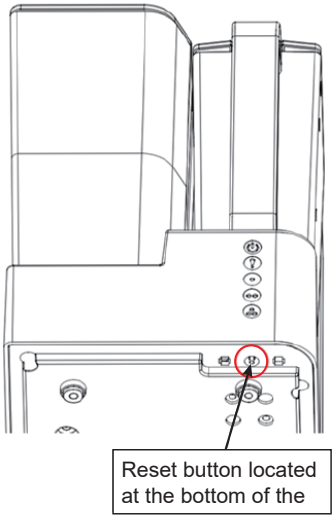
Filtration time and filter element replacement reminder



The time required to filter one batch will depend on the quality of the incoming water, the water temperature and the state of the filter elements. Once the filtration cycle is completed, the purifier will automatically turn off.
Under normal conditions the system will complete one cycle in 20 minutes or less. If filtering time exceeds 30 minutes, the filter elements should be changed.
If the ‘abnormal” light or “filter element”light remains on, this indicates that a filter element needs to be replaced.

How to replace the filter elements

1. Unplug the power and remove the pure water pitchers.
2. Remove the back cover of the Mia and place the purifier over a sink.
3. Remove the filter element to be replaced by turning it counterclockwise.
4. Replace with a new filter element and turn clockwise.
5. Close the back cover.
6. Plug in the power ◦
7. After the filter element has been replaced, the filter element timer needs to be reset. If not reset, the filter change light will remain on, and the purifier will continue to “beep", reminding that the filter element needs to be replaced. To reset the time setting to zero, press and hold the reset button at the bottom of the purifier for 5 seconds. When you hear a “beep” the filter timer has been reset. If you do not hear a “beep” check that the filter light is on and the make sure the water pitchers have NOT been returned to the purifier. Do not press for more than 15 seconds, it will reset all 3 filters.



Mia Operation video

https://www.youtube.com/watch?v=TJL4uVtj6sk

Easy Troubleshooting

SYMPTOM	CAUSE	SOLUTION
1. Stops 2 minutes after startup	Insufficient water in the inlet tank.	Add water
	Poor self-priming of the motor.	In dry environments or if the purifier has not been used for a long time, the pump may dry out. Restarting a filtering cycle a few times should resume production.
	Poor inlet water quality.	Change the inlet water source.
2. Abnormal shutdown	Inlet water or pure water pitcher not placed properly	Confirm pitchers are placed firmly in position
	Purifier “Beeps” and LED indicator shows detection of leak.	Open the rear cover and dry the leak sensor.
3. Purifier won’t start	No power	Check power supply. If problem is not solved, contact customer service.
	Inlet water or pure water pitcher not placed properly	Confirm pitchers are placed firmly in position. If problem is not solved, contact customer service.
4. Output pure water is abnormal	Inlet water quality is inconsistent.	Check that inlet water quality meets guidelines. If it does not match, contact customer service.
	The filter element has reached the end of its service life.	Check that inlet water quality meets guidelines. If it does not match, contact customer service.
	Unusual taste.	Contact customer service.
5. Water leaking from purifier	Reasons may vary.	Contact customer service.
6.LEDlights do not light up.	Faulty transformer, or power plug is not inserted properly.	Make sure transformer is plugged in securely.
	Reasons may vary.	Contact customer service.

FILTER CHANGE AND MAINTENANCE RECORD

Purchase date ________________________________

DATE	FILTERS CHANGED	MAINTENANCE	SIGNATURE
____/____/ ____	☐ Prefilter ☐ Carbon ☐ Postfilter	☐ Cleaning ☐ Repair________ ☐ RO Membrane ☐ Other_________	
____/____/ ____	☐ Prefilter ☐ Carbon ☐ Postfilter	☐ Cleaning ☐ Repair________ ☐ RO Membrane ☐ Other_________	
____/____/ ____	☐ Prefilter ☐ Carbon ☐ Postfilter	☐ Cleaning ☐ Repair________ ☐ RO Membrane ☐ Other_________	
____/____/ ____	☐ Prefilter ☐ Carbon ☐ Postfilter	☐ Cleaning ☐ Repair________ ☐ RO Membrane ☐ Other_________	
____/____/ ____	☐ Prefilter ☐ Carbon ☐ Postfilter	☐ Cleaning ☐ Repair________ ☐ RO Membrane ☐ Other_________	
____/____/ ____	☐ Prefilter ☐ Carbon ☐ Postfilter	☐ Cleaning ☐ Repair________ ☐ RO Membrane ☐ Other_________	

For indoor use only

Puricom Water Industrial Corp.

www.puricom.com
sales@puricom.com
+886-4-23359968
+886-4-23359967

Member,
Water Quality
Association