#### Memo

Type of product	ET-PURE	
Date of purchase		
Name		Tel
Address		

ET-PURE RO Drinking Water System





#### **REVERSE OSMOSIS SYSTEM**

## ET-PURE

### **USER'S MANUAL**

- 01 Introduction of ET-PURE
- 02 What is reverse osmosis
- 03 ET-PURE layout and components
- 04 Inline cartridge filters
- 05 The parts of ET-PURE
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In order to bring the best use of your system, please read the user's manual carefully before installation and follow the regulations.

#### **Introduction of ET-PURE**

#### **ET-PURE**

As a smart countertop RO system, ET-PURE is especially designed for homes, outdoor activities, offices, restaurants, and shops use. It is the most delightful RO system invention of 21 century. ET-PURE not only brings you 100% pure clean water, but with a multi-function tank, you can enjoy pure clean water wherever you are anytime you want it.

ET-PURE is able to tell you the function of the system with its built-in LED indicator. You can always get the best quality water.

#### **Specifications**

• Production: 80 GPD/ 300 LPD

• Portable Water storage tank: 2.5 gallons

With a transformer:

• Safety approval: TUV (EN60950) & CE MARK

• Input in AC 110Volt, 220Volt or 240Volt (50/60Hz).

• Output in DC24V

• Wattage: 30W

• Operation pressure: 10-100 psi

• Dimensions: (cm) 46(L) x 32.5(W) x 47(H)

• Weight: 14 kg

• Max. inlet water temperature: 46°C

#### **Features**

- Complete 5 stage reverse osmosis water filter system.
- Build-in high capacity booster pump.
- Extremely versatile countertop RO system.
- · Easy installation, just plug & drink
- LED indicator (Power/ Work/ Empty / Full )
- · Auto shut-off when no feed water come in.
- Individual sanitary quick-change cartridges for easy maintenance.
- Versatile /Portable water storage tank fits any water cooler.
- Best Water Cooler Companion.
- Wide Application: Home / Office / Outdoor/ Motor home / Boat

ET-PURERO Drinking Water System



#### **Maintenance checking list**

Filters	1st stage	2nd stage	3rd stage	4th stage	5th stage	Other items

PURE-PRO R REVERSE OSMOSIS SYSTEM



#### **Maintenance checking list**

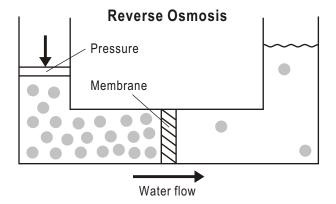
Filters	1st stage	2nd stage	3rd stage	4th stage	5th stage	Other items

ET-PURE RO Drinking Water System



#### What is reverse osmosis

Reverse osmosis was originally designed to make sea water drinkable for the navy. It is ideal for anyone on a low sodium diet. An R.O. membrane has a pore size much smaller than bacteria virus, or the cryptosporidium parasite. When functioning properly it will remove all microorganisms from tap water and produce sterile water. Reverse osmosis is the reversal of the natural flow of osmosis. In a water purification system, the goal is not to dilute the salt solution, but to separate the pure water from the salt and other contaminants. When the natural osmotic flow is reversed, water from the salt solution is forced to pass through the membrane in the opposite direction by application of pressure-thus the term REVERSE OSMOSIS. Through this process, we are able to produce pure water by screening out the salts and other contaminants.





R.O. overflow hole

SYSTEM

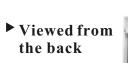
# ball switch(front) -rubber o-ring -screw hole -ball switch(rear) -screw hole -R.O. water inlethole

Bird View▶

R.O. membrane housing-

R.O. flow restrictor

AICRO activated carbon fliter-



low pressure switch

motor – adaptor

activated carbon blockpost-filter activated carbon filter 5 micron sedimentpre-filter

water inlet hole

overflow drainage hole

power supply switch

low pressure switch

base screw hole

solenoid valve

adaptor

waste water drainage hole

AICRO activated carbon filter

R.O. membrane housing

R.O. flow restrictor

Power supply switch

– — waste water drainagehole — overflow drainage hole

water inlet hole



Deliver-valve



Water supply connector

Remark: Maximum endurable temp.-52°C Maximum operating pressure-70 psi(5kg/cm²)

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#### **FAQ**

#### B. insufficient purified water quantity

Normal working pressure in pump Connect the pressure gauge between pump and R.O. membrane. When the pressure is between 65 psi and 100psi and the purified water auantity is insufficient as expected, then the R.O. membrane is jammed with solid particle. Therefore, the R.O. membrane has to be changed.

abnormal working pressure in pump If the working pressure is below 65 psi when measured, then use the electric meter to measue the output voltage of the transformer is normal or not. In the case that the output voltage is inordinately low, then replace the transformer. If not, check the filter to see if it is jammed with impurity. If this is the case, then replace the filter. If not, then check the R.O. flow restrictor to see if the drainage is excessively high. If so, replace the R.O. flow restrictor. If not, replace the pump

#### C. Purified water is not clean

Normal working pressure in pump Check the 3-stage filters before R.O. membrane to determine whether the filters properly function when the R.O. membrane is damaged. If so, replace the filters and R.O. membrane.

abnormal working pressure in pump Check the flow rate of purified water is appropriate. If it is inappropriately high, it may be the case that R.O. membrane is not properly installed inside the R.O. housing. Under such circumstance, re-install the R.O. membrane. If the water flow is within the normal range, then check the working pressure of pump is normal or not. When the working pressure of pump is below its normality to press the water flow (approximately 80~90 psi), it will affect the R.O. membrane's ability to produce sufficiently, good quality water. With this condition, repair or replace the pump.

Check to see if the solenoid valve properly shut down the water flow. If not, replace the solenoid valve.



#### Insufficient working pressure in pump

Connect the pressure gauge between pump and R.O. membrane to see if the working pressure is normal. when the pressure is below 65 psi, then check if the filter is jammed with solid particle, If so, then replace the filter. If not, check the transformer to see if the voltage output is declining. If so, then change a new transformer or pump.

Normal working pressure in pump

Connect the pressure gauge between the pump and R.O. membrane. When the pressure is between 65 psi and 100 psi and the water purification process is still not working. Then check the AICRO filter to see if it is jammed with impurity. If so, replace the fifth stage filter. If not,

replace R.O. membrane.

Pump with no working pressure

Examine the condition if the flow rate of waste water is inordinate. If so, the pump cannot increase the working pressure. Under such case, replace the R.O. flow restrictor After the change, if the working pressure of pump doesn't reach it's normality to proceed the water purification step, then check to see if the filter is jammed with impudrity. If not , then check again the transformer and pump.

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#### Inline cartridge filters

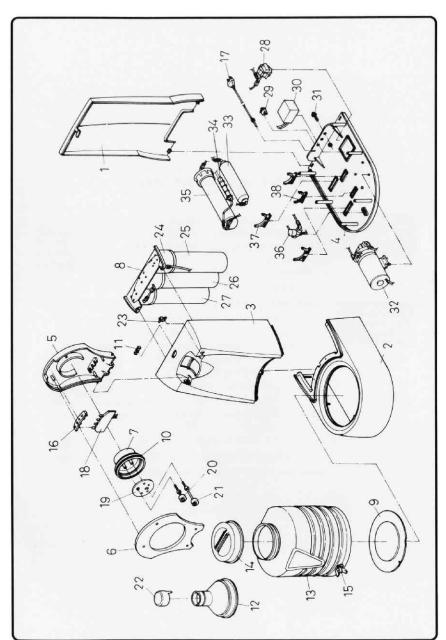
Cartridge Filters	Filter Description	Service Life
Stage 1 5 Micron Sediment Filter	This 5micron sediment filter is made by Dupont Anti-Bacteria. High capacity filter removes dusts, particles and rusts, 99.70% anti-bacterial, comply with FDA test standard. Use 100% pure PP fine fiber. Product series have been passed the test in accordance with the filtering effect test of ANSI-NSF standard 42 -particulate reduction class II-V of U.S.A.  Service Life:1500GAL	6 Months
Stage 2 Inline Activated Carbon Filter	This granular activated carbon filter is composed of high-performance activated carbon that removes free chlorine, odor, organic contaminants, pesticides, and chemicals that contributed to taste and odor.  Service Life:1500GAL	6 Months
Stage3 Inline Activated Carbon Block Filter	This granular activated carbon filter is composed of high-performance activated carbon that removes free chlorine, odor, organic contaminants, pesticides, and chemicals that contributed to taste and odor.  Service Life:1500GAL	6 Months
Stage 4 Filmtec Membrane	Filmtec (Dow Chemical)membranes, maker of the world's most advanced reverse osmosis membranes. High rejection membrane with the capacity of producing 80 gallons per day. Eliminates up to 99.9% of most chemicals, dissolved solids, metals, bacteria, and viruses. Service Life:10000GAL	2 Years
Stage 5 AICRO Activated Carbon Filter	This post carbon filter is designed to improve taste. It removes any residual impurities and odors and provides a finer conditioning of pure water.  Service Life:3000GAL	1 Year

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SYSTEM



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#### A. pump does not function properly.



Generally the low water flow pressure will activate in the condition that the water pressure is under 0.3kg/cm2. In the event when the water inlet pressure is excessively low, then try to improve it. However, when the pressure is normal, then unplug two electrity cords to make it short-circuited. and check if it can run again normally.



When the water in the reservoir is drained to the level which is lower than the front ball switch and water purifier still doesn't start running, then unplug the two electrity wires in the front ball switch to . make them short -circuited. Under such circum stance. If pump starts running and water purification process begins, then replace the front ball switch.

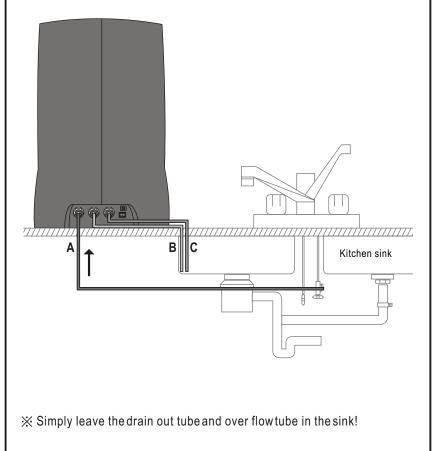


Refer to the voltage in the transformer, then use the electric meter to measure if the current output is normal. If abnormal, then replace the transformer. On the contrary if it is normal. Then check the pump to see if it runs properly.



#### **CONNECTING THE COLOR TUBING:** A. Water inlet hole / blue R.O. tube B. Overflow drainage hole/yellow R.O. tube

C. Waste water drainage hole / orange R.O. tube



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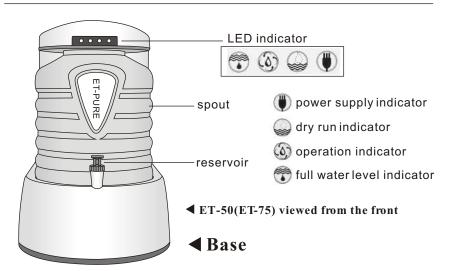


#### The parts of ET-PURE

Part No.	Part No.
1.back cover	20.ball switch
2.housing	21.ball switch
3.housing	22.funnel cap
4.base	23.precision switch
5.upper cap	24.filter retainer
6.lower cap	25.filter cartridge
7.water flow distributor	26.filter cartridge
8.fixing place	27.filter cartridge
9.tank holder	28.low waterpressure switch
10.O'ring	29.power switch
11.tube bracket	30.adaptor
12.funnel	31.rapid facetadaptor
13.tank	32.pump
14.tank cap	33.activated carbon filter
15.spout	34.RO flow restrictor
16.cover	35.RO filterhousing
17.power supply cord	36.magnetic control valve
18.circuit board	37.filter holder
19.0'ring bracket	38.RO filterholder



#### **LED** indicator

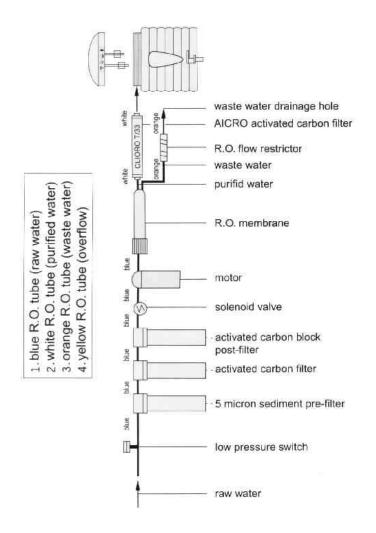


- when the power is on. Red colored LED indicator will light. It indicates power supply is normal.
- 2.Turn on the water supply switch valve to make sure the water supply is normal. If the water supply keep flowing, the green colored LED indicator will keep or lighting. The green colored LED indicator in the left will light as the purified water reservoir is full.
- 3.place the reservoir in place and press the lid down .The purifier is in the process of the water purification. After 12~15 seconds. the water purification process begins.The green colored LED indicator in the left will be off and the orange LED indicator will light.
- 4.when the purified water is full to the top of the reservoir, the front ball switch under the lid will float to the surface of purified water. Then the process of water purification stops. The orange colored LED indicator at this moment is off and simultaneously the green colored LED in the second from right will be on.
- 5.Turn the lid up. The process of water purification will be terminated. The green colored LED indicator, lights, indicating the reservoir is full.
- 6.when the reservior is full, the power supply will be off automatically However, in the event that power supply is still on or that the solenoid valve does not shut off the water inflow .the water purification process will continue and exceed the normal water level. As a result, the water purification process will be terminated automatically and the warning sound will alarm. At this moment, turn the switch valve to stop the water inflow and switch off the power supply. Under such circumstance. The repair is necessary.

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#### **Tubing connection diagram**



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