

DIGITAL HOT COLD WARM RO WATER PURIFIER

Feature:

- ❖ Built-In Reverse Osmosis System
- ❖ Water Resistance
- ❖ Arch designed drainage net keep water from splashing while filling
- ❖ LED Hot water temperature display
- ❖ Two-phase water spigot
- ❖ Cold and Hot water temperature adjustment
- ❖ Highly efficient, noiseless and low power-consuming compressor
- ❖ Re-boiling feature convenient for doing coffee, tea or instant soup

**MADE IN
TAIWAN**

Specification:

- ❖ Function: Cold, room and hot water filtration system
- ❖ 5 Stage RO system inside with booster pump
- ❖ Dimension: D53 X W43 X H135 cm
- ❖ Hot water capacity: 5L, Cold water 3L and warm water 10L
- ❖ Case adopt SUS 304 stainless steel material
- ❖ Front plate and top cover adopt ABS material
- ❖ RO pipe adopt SUS 304 stainless steel material and silicon material
- ❖ Leakage Circuit Breaker
- ❖ Re-boil function, hot water reaches 100°C directly
- ❖ High efficiency heat exchange, avoid drinking raw water
- ❖ Re-boil function, hot water reaches 100°C directly
- ❖ Safety for water shortage, overheat, leakage, and power shortage
- ❖ RO system can be installed inside, save your space
- ❖ Hot cylinders adopt SUS 316L material nominated by high level medical machine
- ❖ The thermal materials answer to UL Fireproof Regulation Standard



Model No: LSRO-171

Filtration Process:

First Stage: Sediment Filter:

The Sediment filter cartridge is manufactured from pure 100% polypropylene fibers. The fibers have been carefully spun together to form a true gradient density from outer to inner surfaces. It is effective in removing dust, mud, rust and sand particles.

Second Stage: Granular Activated Carbon Filter:

This granular activated carbon filter is composed of high-performance activated carbon that effectively reduces unwanted tastes, odor, organic contaminants, chlorine, pesticides and chemicals that contributed to taste and odor. It is designed to allow maximum contact between the water and carbon, ensuring maximum adsorption.

Third Stage: Activated Block Carbon Filter:

This block carbon filter is composed of high-performance Coconut Shell carbon using a patented process and made entirely from FDA-compliant materials that highly effective at reducing 17 hazardous metals: such as lead, radon, mercury, insecticides, odor and chlorine: taste & odor, from potable drinking water. The unique structure of the carbon block enables it to reduce Giardia, Cryptosporidium, amoeba, and Toxoplasma cysts and fine sediment particles down to 0.5 microns. It is ideal choice for a wide range of residential, food service, commercial and industrial applications.

Fourth Stage: Reverse Osmosis (RO) Filter:

Reverse Osmosis utilizes the unique properties of a semi-permeable membrane to allow fluid to pass while restricting the flow of dissolved ionic material. With pressure applied to impure water on the side of such membrane materials, pure water will pass through, leaving most of the impurities behind. The rejection of the dissolved ionic material is a function of both molecular weight and ionic charge. For example, we can expect a nominal 90% rejection of sodium chloride, which

means that the product water passing through the membrane will have a concentration of salt approximately one-tenth that of the feed water. The rejection of calcium carbonate (hardness) will be near 95%, while most metallic salts will be rejected at a rate of approximately 98% to 99%.

The rejection of non-ionic or organic material is primarily by mechanical filtration. Most substances with a molecular weight of over 100 will be completely rejected by an intact reverse osmosis membrane. Low molecular weight organics, such as formaldehyde or phenol, can pass freely through an R.O. membrane, as can most dissolved gasses. Oil, suspended solids and particulate matter are mechanically filtered, as are viruses, bacteria, pyrogen, and larger organic molecules.

To carry the rejected material away from the membrane surface, the feed side of the R.O. membrane is continually flushed with an excess flow, usually two to five times the product flow. This avoids clogging of the membrane surface and reduces the tendency toward scale formation

Contaminants	Average Percent Reduction
Arsenic	99.99
Barium	98.90
Cadmium	99.60
Chromium (Hexavalent)	99.99
Chromium (Trivalent)	97.00
Copper	99.0
Cysts	100
Turbidity	98.50
Fluoride	97.9
Lead	99.99
Perchlorate	96.5
Total Hardness	100
Selenium	92
TDS	97

Fifth Stage: Taste and odor Filter:

This granular activated carbon filter is composed of high-performance activated carbon that effectively reduces unwanted tastes, odor, organic contaminants, chlorine, pesticides and chemicals that contributed to taste and odor. It is designed to allow maximum contact between the water and carbon, ensuring maximum adsorption. We are using NSF approved post carbon to guarantee the taste of water.

