

# MODEL: LSRO-201

COLD AND HOT STANDING R.O. SYSTEM  
WATER DISPENSER

REVERSE OSMOSIS TECHNOLOGY



Five stage Reverse Osmosis Water Purification System designed for where feed water has very low water pressure or where the source water contains higher than normal amounts of dissolved solids.

## RO Offers safe, good-tasting water at your fingertips

RO system provides safe, pure water using Reverse Osmosis Technology. It is one of the finest units in its class. It's capable of removing over 95% of total dissolved solids, +99% of all organics and +99% of all bacteria.

## Features:

- Compact and space-saving with built-in RO system inside.
- Highly efficient, noiseless with Re-boiling feature.
- Control panel with big buttons for easy access.
- Safety lock for hot water.
- Build-in cup holder.
- Double cup holding (foldable) levels at 16 and 25 cm.
- Drain container with alarm system.
- 50 GPD RO membrane, With booster pump, transformer.
- All components are made in Taiwan.

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## Specification:

- » Function: Cold and hot water filtration system
- » Built-In Reverse Osmosis System
- » 5 Stage RO system inside with booster pump
- » LED water temperature display
- » 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
- » Leakage Circuit Breaker
- » Re-boil function, hot water reaches 100° C directly
- » High efficiency heat exchange, avoid drinking raw water
- » Safety for water shortage, overheat, leakage, and power shortage
- » USA based reverse osmosis membrane
- » Dimension: D25 X W40 X H120 cm

## 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 an ideal choice for a wide range of residential, food service, commercial and industrial applications.

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## 4 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

## 5 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.



THINK GREEN, SAVE GREEN  
FOR GREENER TOMORROW

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