

# IDONEO RO™ Technology

## Current Scenario of Drinking Water

The quality of drinking water is deteriorating day by day. It is no longer as pure as it was during our forefather's time. Primary reasons why tap water may no longer be safe for human consumption are:-

Climatic changes, draughts, rampant and uncontrolled industrialization has led to alarming levels of waste being disposed into our water sources such as rivers, water reservoirs and ground well water. Due to ever increasing pollution levels, the water sources are under dire stress and are getting contaminated with dissolved impurities, bacteria, viruses and cyst.

Ageing pipeline network and poor maintenance results in municipal water getting contaminated by the time it reaches our homes.

Due to ever increasing pollution levels, the water sources are under dire stress and are getting contaminated with dissolved impurities, bacteria, viruses and cyst.



Since the demand for municipal water is greater than the supply and due to the onset of multi-storied buildings, the practice of storing water in overhead tanks has become more common. These storage tanks are not airtight and become breeding grounds for unwarranted harmful micro-organisms like bacteria and viruses.



With increased reliance on pesticides and insecticides in our agricultural industry, these harmful chemicals, when used excessively, percolate into the ground well water as well as get washed away into the rivers



Rivers are no longer sufficient to meet society's ever increasing demand of drinking water and hence there is an increased reliance on ground well water, which contains excessive levels of dissolved impurities making the water hard (khaara).



# Presently available Water Purification Technologies

As the problems of impurities in water are increasing, thankfully so are the solutions to get rid of them. There are many technologies available in the market which can make contaminated water safe for drinking. However, each of these technologies has its inherent advantages and disadvantages. Some are simple and cost-effective, while some are state-of-the-art but expensive.

## Boiling

- This is the most common and widespread form of purification technology available to us. Boiling effectively kills all harmful micro-organisms but has no effect on other suspended impurities like dust, sand, etc. It is also not able to remove dissolved impurities present in the water. The logic being simple- if you boil water containing sugar or salt, the water will still remain sweet or salty.



# Ultra Violet (UV) Disinfection

- Ultra Violet (UV) Disinfection has been in the market for many years now. Some people also refer to this technology as electronic boiling. This technology successfully deactivates harmful micro-organisms like bacteria and viruses but fails to properly deactivate the more harmful ones - cysts. Also, if the water purified through this technology is stored for a long time, then there are chances that the deactivated micro-organisms may reactivate again.

When used in combination with other filters (sediment and carbon), this technology is quite effective in removing all suspended impurities as well as some of the dissolved gases in water. But similar to Boiling, this technology has no effect on dissolved impurities such as rust, arsenic, fluoride, etc.



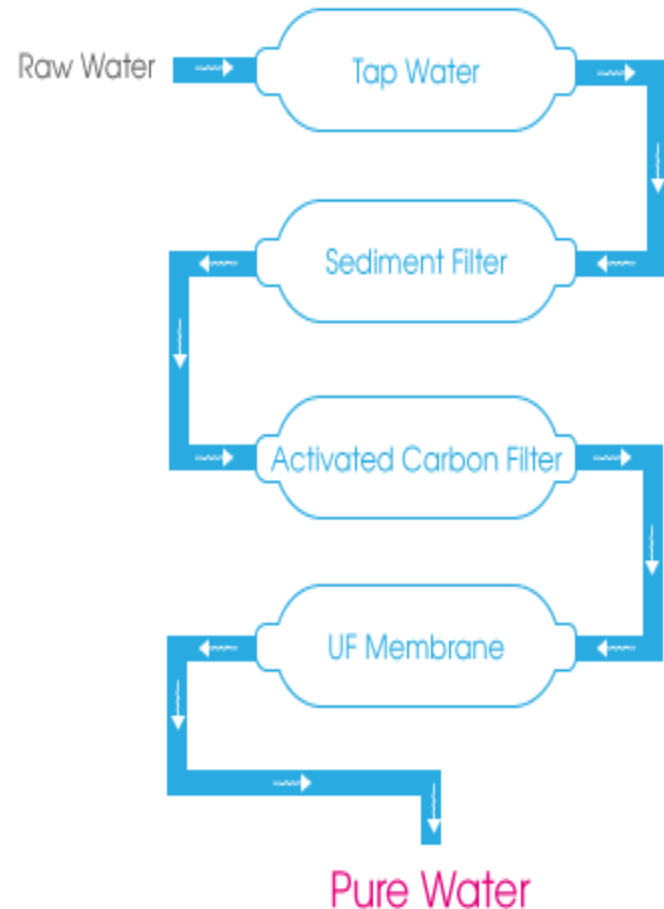
# Reverse Osmosis (RO) Filtration

- RO technology is probably the best known purification technology to the mankind. It effectively removes all harmful micro-organisms such as bacteria, viruses and cyst. When it is used in combination with other filters (sediment and carbon), it successfully removes all other suspended impurities from water including dissolved gases and organic impurities. The biggest advantage of this technology is that it is able to remove more than 99% of dissolved impurities such as chemicals, rusts, salts of heavy metals, pesticides and insecticides present in water. Infected, RO is the only affordable technology to be able to remove dissolved impurities from water.



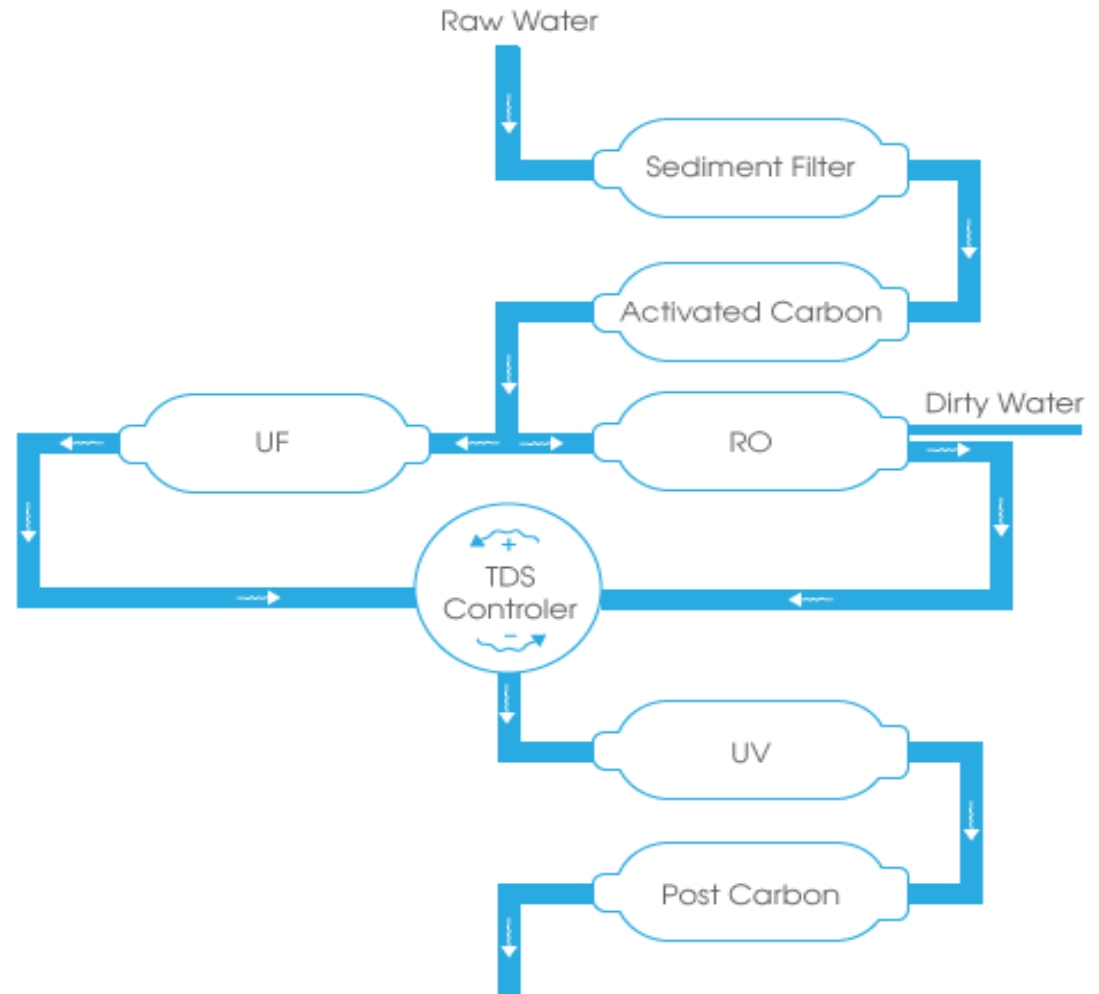
# Ultra Filtration Technology

- Ultra Filtration (UF). IDONEO has innovated a specially designed UF membrane that works under the force of gravity and at atmospheric pressure. This UF membrane has a pore size of 0.1 microns which is small enough to filter out bacteria as well as harmful micro-organisms like cysts. It is used in combination with fine Nylon filter which removes dust and sand as well as Carbon filter that is coated with nano-silver. This nano-silver coated carbon filter absorbs many organic impurities and dissolved gases in water. The nano silver coating is anti-microbial by nature and ensures that the carbon does not become a breeding ground for micro-organisms.
- As a result, water purified by using IDONEO based UF technology is purer than boiled water and safer than water purified by chemical disinfectants.



# Introducing IDONEO RO™ Technology

- This technology is based on double purification wherein water after passing through RO, is also passed through Ultra Violet (UV) radiation and Ultra Filtration (UF). Secondary purification by UV/UF ensures that when the pores of RO membrane open up and allow harmful micro-organisms to pass through, they get deactivated/filtered out by UV/UF.



100% Pure Water





# IDONEO Deluxe

Technologically Most advance  
Water Purifier

IDONEO RO™ Technology - RO+UV+UF+TDS Controller

**100% Pure Water**



# Technical Specification

Product	IDONEO Deluxe
Purification Capacity	15**liters/hour
Max. Duty Cycle	75 Liters/Day
Storage Tank Capacity	9 liters (with water level indicator)
Filter Cartridges	Sediment Activated Carbon UF Post Carbon
Ro Membrane	CSM 1812-50 /VENTRON 1812-80
UV Lamp Power	11 Watt
Min. Inlet Water Pressure	0.3 kg/cm <sup>2</sup>
Max. Inlet Water Pressure	3 kg/cm <sup>2</sup>
Input Voltage	100-300V AC (50Hz)
Operating Voltage	24V DC
Dimensions	L410 W260 H520 (mm)
Net Weight	9.40 kgs



# **IDONEO Kitchen Star**

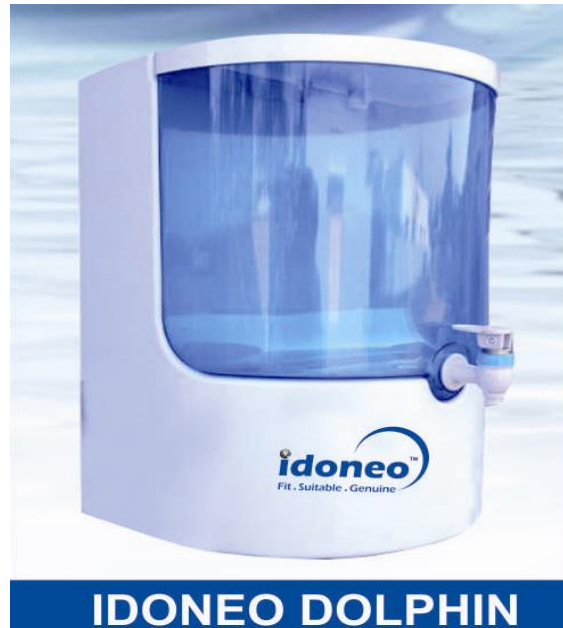
Under The Counter/ Kitchen Sink Water Purifier For Modular Kitchens With Hydrostatic Storage Tank

**IDONEO RO™ Technology - RO+UV+UF+TDS Controller**

**100% Pure Water**

# Technical Specification

Product	Kitchen Star
Purification Capacity	15**liters/hour
Max. Duty Cycle	75 Liters/Day
Storage Tank Capacity	9 liters hydrostatic tank
Filter Cartridges	Sediment Activated Carbon Carbon Block UF Post Carbon
Ro Membrane	CSM 1812-50 /VENTRON 1812-80
UV Lamp Power	11 Watt
Min. Inlet Water Pressure	0.3 kg/cm <sup>2</sup>
Max. Inlet Water Pressure	3 kg/cm <sup>2</sup>
Input Voltage	100-300V AC (50Hz)
Operating Voltage	24V DC
Dimensions	L390 W200 H520 (mm)
Net Weight	10.70 kegs



# **IDONEO Dolphin**

Wall Mountable Water Purifier RO With  
7 Stage Purification System

**IDONEO RO™ Technology - 100% Pure Water**

# Technical Specification

Product	IDONEO Dolphin
Purification Capacity	15**liters/hour
Max. Duty Cycle	75 Liters/Day
Storage Tank Capacity	9 liters hydrostatic tank
Filter Cartridges	Sediment Activated Carbon Carbon Block Post Carbon
Ro Membrane	CSM 1812-50 /VENTRON 1812-80
Min. Inlet Water Pressure	0.3 kg/cm <sup>2</sup>
Max. Inlet Water Pressure	3 kg/cm <sup>2</sup>
Input Voltage	100-300V AC (50Hz)
Operating Voltage	24V DC
Dimensions	L405 W330 H470 (mm)
Net Weight	9 kg

Thank You