

Eco-315 Water Purifier

The best water quality for drinking

Reverse osmosis (RO) drinking water systems are able to produce an amazing level of water purity and remove nearly all contaminants. The Eco-315 is a fine example of the technology.

Around 2% of water is supplied to a household is used for drinking and cooking. Tap water has to meet strict water quality regulations and be 'fit for purpose'. However, there are regional variations in taste, chemical composition and appearance leading to many consumers to buy bottled water.

Reverse osmosis is able to remove approximately 95% of contaminants such as chlorine, lead, fluorides, bacteria and viruses, as well as unpleasant tastes and odours. The result is a highly pleasing, fresh tasting water which activates the taste buds in a marvellously thirst quenching way.

An RO system operates on mains water pressure using a semi-permeable membrane. This rejects impurities and washes them down the drain. The pure water is stored in a tank for use at any time.

The Eco-315 features:

- High performance carbon block filters as pre and post treatments.
- High capacity storage tank holding 4 litres of pure water. Has automatic shut off when full.
- Compact design for under sink installation.
- High performance membrane producing up to 7 litres of pure water per hour.

How the system works

Water is firstly filtered through a sediment / carbon block filter. The water then enters the thin film composite membrane where the water is divided into two streams. The membrane is so fine that the pure H₂O molecules pass through the membrane to the storage tank while the contaminants are flushed away to drain. When water is required for drinking the flow is reversed and diverted through the post filter. This removes any final taste elements and 'polishes' the water to give a quality, at the tap, that exceeds that of bottled water.



The above picture shows the RO module containing the horizontal membrane mounted above the pre and post filters. The storage tank is connected by a tube to the module (see below). The module and storage tank do not necessarily have to be located together.



Eco-315 'A great RO at the right price'

Technical specification Eco-315

Nominal pure water production rate Minimum / maximum	7 litres per hour (max)
Operating temperature Minimum / maximum	4° to 38° C
Water pressure	2.4 to 7 bar (35 to 101psi)
Membrane type	Thin film composite (TFC)
Recovery ratio	3 to 1
pH range	6 to 9
TDS level	No more than 1500mg/l
Water hardness	No more than 170 mg/l
Pre & post filters	Carbon block cartridges
Inter- connections with ¼" tubing	¼" push-fit
Shipping weight	10kg
Dimensions of membrane module (W x D x H mm)	340 x 140 x 390
Dimensions of air charge tank (Dia x H mm) including valve	200 x 320
Nominal capacity of air charge tank	3 litres
Storage tank orientation for installation	Vertical or horizontal
Tank refill time	1 to 2 hours
Maximum installation distance possible from membrane to tank	1.5 meters
Pre and post filter cartridge life	6 months
Membrane life	Variable - approximately 5 years on soft water
Warranty (excluding consumables)	1 year

Note: Actual system production and contamination reduction will depend on water temperature, pressure, TDS level, membrane variation and usage pattern. We advise that any RO system should be plumbed with a water softener as softened water will extend membrane life considerably. Chlorine will damage a TFC membrane. The carbon block pre-filter will remove chlorine from the incoming water supply. Both carbon block filters should be changed 6 monthly. This RO system should not be used with water that is microbiologically unsafe.

The Eco-315 is supplied with a stainless steel lever tap. However, there are other options including our 'designer' range and a number of tri-way taps

