

one2oneTM

Reverse Osmosis

Purified drinking water at its very best

What is Reverse osmosis - Reverse osmosis (known as RO for short) has become a popular product, in the home and workplace, for providing an exceptional quality of drinking water. *It is the best you can get.* Besides enhancing aromas and giving rich flavours, with all kinds of beverages and in cooking, its membrane technology protects against all kinds of contaminants particularly when used with private water supplies.

How reverse osmosis works - RO uses an ultra-fine membrane technology. This squeezes pure H₂O out of water into a storage tank for ongoing use at an adjacent tap. Rejected water is washed away to drain.

The latest RO technology - The 'one2one' RO is the latest and probably the ultimate in RO design. It is one of the first to utilise an integrated pump making it independent of variables, such as incoming water pressure, which can effect performance. Also, for every litre of pure water produced only 1 litre goes down the drain; hence the name 'one2one'.

Compared with the competition it is:

- More reliable.
- More efficient.
- Self monitoring.
- Has a unique membrane design with 'flushclean' technology.
- Fully electronically controlled.
- Built-in leak protection

One2one description - The 'one2one' is a highly sophisticated, five stage, pumped reverse osmosis system and looks very different to many traditional purifiers. It's presented in a small, compact cabinet. Only the storage tank is supplied as a separate module and there is a choice of two tank sizes - see information overleaf. The complete system is small enough to fit easily in a kitchen cupboard.



One2one features:

Backlit LED display - This indicates the operating status of the RO. It records operating time and filter life as well as showing working mode, standby mode and when the membrane is flushing.

Low pressure start - As this is a pumped system it only requires 0.34bar (5psi) to operate.

MSLB (multileaf) membrane - This latest element technology brings membrane utilisation rates to leading world class levels, increasing water production and cutting waste water emissions.

'Flushclean' technology - This enables the membrane to flush out contaminants within the membrane even when the flow automatically stops when the tank is full. The design uses 50% less flushing water while extending membrane life.

Side stream membrane element design - The structural format of the membrane increases the recovery rate (product water) from 25% to 50% compared with traditional RO membranes. Reject water is reduced by 40% to 50%.

Water leakage protection - If there is a problem with water leakage the LED 'function' icon will flash and the system will shut down including the inlet solenoid and pump. The system can be reset once the problem is solved.

Multi-outlet options - Can be used with pillar tap supplied, with tri-flow taps and American fridges.

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Technical specification

Voltage	AC110~240V, 50~60HZ
Power consumption	29 watts (when pump operates)
Nominal pure water production rate	284 litres approximately
Minimum / maximum operating temperature	5° to 38° C
Suitable inlet water pressure	0.1 bar to 0.35 bar
Operating water pressure	0.4 to 0.6 bar
Membrane type (stage 4)	Thin film composite (TFC)
Recovery ratio	1 to 1
pH range	6 to 9
TDS level	No more than 1000mg/l
Water hardness	No more than 170 mg/l
Membrane flushing method	Automatic when tank is full
Entry filter (stage 1)	5 micron polypropylene
Taste & odour filter (stage 2)	Granular activated carbon (GAC)
Ultra-fine filter (stage 3)	1 micron polypropylene
Post polishing filter (stage 5)	Granular activated carbon (GAC)
Inter- connections with ¼" tubing	¼" push-fit
Dimensions of RO cabinet (W x D x H mm)	290 x 200 x 380
Dimensions of small air charge tank (Dia x H mm) including valve	200 x 320
Dimensions of large air charge tank (Dia x H mm) including valve	270 x 390
Nominal capacity of small air charge tank	7.5 litres
Nominal capacity of large air charge tank	12 litres
Storage tank orientation for installation	Vertical or horizontal
Tank refill time (varies with tank size)	1 to 3 hours
Maximum installation distance possible from membrane to tank	1.5 meters
Entry, ultrafine and post filter cartridge life	6 months
Membrane life	Variable - approximately 7 years on soft water
Warranty (excluding consumables)	1 year
Shipping weight	13kg

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 GAC filter will remove chlorine from the incoming water supply.

All filters should be changed 6 monthly.

This RO system should not be used with water that is microbiologically unsafe.



RO cabinet with front removed showing 3 filters.

Storage tanks shown approximately to size and in proportion to RO cabinet.