

## **PRESTIGE<sup>DESCALE</sup> High Quality Reverse Osmosis Units**

- ✓ Compact, integrated water purifier.
- ✓ Output options within the range include 1000, 2000, 4000 and 6000 litres per day.
- ✓ Integrated pre-filtration.
- ✓ Easy to install and maintain.
- ✓ Graphical user interface.
- ✓ Removes up to 98% dissolved minerals.
- ✓ Removes up to 99% of bacteria, colloids and organic contaminants.



**UNIT DESIGN**

**5µm pre-filter** – Protects reverse osmosis (RO) membrane from fouling by particulates and colloidal contaminants found in mains water.

**Integral tank** - Protects against feedwater pressure fluctuations and allows easy cleaning.

**Integral boost pump** – Enables RO membranes to operate at optimum performance

**RO membrane** – Removes up to 98% of dissolved minerals, and up to 99% of organic, bacterial and particulate contaminants.

**Automatic membrane concentrate flush** - Extends membrane life.

**Permeate divert** - Ensures consistent permeate quality.

**Product control selection** – Allows continuous running or control via external tank level sensors.

		PD50	PD100	PD150	PD250
<b>Technical Data</b>					
Output	@25°C (l/hr)	70	146	291	430
	@10°C (l/hr)	42	84	168	250
Feedwater Hardness (Max) <sup>1</sup>	ppm CaCO <sub>3</sub>	20	20	20	20
Feedwater Temperature (Min/Max)	°C	1 / 35	1 / 35	1 / 35	1 / 35
Feedwater Pressure (Min/Max)	bar	2 / 6	2 / 6	2 / 6	2 / 6
Free Chlorine	ppm Cl <sub>2</sub>	<0.1	<0.1	<0.1	<0.1
Optional Pretreatment Cylinder <sup>2</sup>		AC7	AC7	AC8	AC8
Pure water recovery	Max (%)	66	66	66	66
Feedwater consumption	Max (l/hr)	106	221	441	651
Drain flowrate	Max (l/hr)	36	75	150	221
Power requirements		100-230v/50-60hz	100-230v/50-60hz	100-230v/50-60hz	100-230v/50-60hz
Dimensions (w, d, h)	mm	420x548x860	420x548x860	420x548x860	420x548x860
Weight (Working)	kg	64	64	66	66
Weight (Shipping)	kg	54	54	56	56

<sup>1</sup> For harder water a Purite water softener is required

<sup>2</sup> Optional pre-treatment required if free chlorine >0.1ppm or feedwater has a fouling index >5.

The units are designed for a maximum TDS of 1000 mg/l, sized on a water temperature of 10 °C and a maximum colloidal index of 3. The permeate recovery depends on the raw water quality and the type of pre-treatment.

Errors and omissions excluded. Purite reserves the right to change specification without notice.

**OTHER PURITE SOLUTIONS**

**PRIMARY WATER    PURE WATER    ULTRA-PURE WATER    SYSTEMS    SERVICE    EXCHANGE**



These systems economically produce high quality water to grade III with significant reductions in ionic contaminants.

In addition to the Primary Water systems these units further purify the water to Grade I and better.

Further purification of Pure Water systems results in Type I water producing a resistivity of 18.2MΩ and TOC <1ppb.

For larger applications, Purite can design, install and project manage bespoke solutions for a variety of flows and water quality requirements.

A range of preventative maintenance contracts covering all Purite and OEM equipment is available.

This simple to manage solution produces pure water in larger, easy to dispense volumes.

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