

PRESTIGE^{DESCALE} 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
Technical Data					
Output	@25°C (l/hr)	70	146	291	430
	@10°C (l/hr)	42	84	168	250
Feedwater Hardness (Max) ¹	ppm CaCO ₃	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 ₂	<0.1	<0.1	<0.1	<0.1
Optional Pretreatment Cylinder ²		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

¹ For harder water a Purite water softener is required

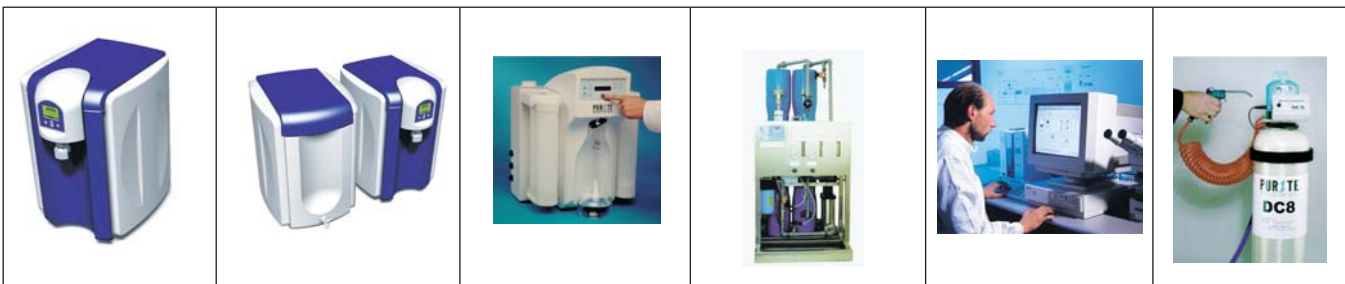
² Optional pre-treatment required if free chlorine >0.1ppm or feedwater has a fouling index >5.

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.

SS0006-01



INVESTOR IN PEOPLE



PUR1TE

FIRST FOR PURE WATER

Simply Spotless Glassware

- Provides rinse water of over 1MΩ.cm quality, available on demand for laboratory washing machines
- Effectively guarantees residue free glassware

Simply Reliable Water Quality

- High quality reverse osmosis and pre-treatment modules ensure a reliable and consistent quality of water
- Water quality is constantly monitored and displayed

Simply Well Designed

- Fast rate of water production into integral 30 litre tank
- External tanks available for greater capacity
- Compact footprint, saving on valuable bench space
- Minimal external connections for easy installation

Simple to Monitor

- System information is easily accessible
- System status is constantly monitored
- Alarms notify the user of changes eg: if consumables need replacing

Simple To Use

- High flow outlet connects easily with most makes of laboratory glassware washing machines
- Quick fit connections for rapid installation
- Easy change consumables



Select Purewater 300

Providing purified water for laboratory glassware washing machines.

Specification for Select Purewater 300

Technical Data		System Output	
BS EN ISO 3696	Grade II	Output at 25°C (l/hr)	48
ASTM D1193-99E1	Type II	Output at 10°C (l/hr)	30
Resistivity (MΩ.cm)	1 - 10	Output results generated at 60psi / 4 bar. If pressure is below 60psi / 4 bar output will be reduced accordingly.	
Residual Solids (ppm)	<0.5	For illustration, at 30psi / 2 bar output would be up to 50% below these values	
Heavy Metals (ppb)	<0.1		
pH ¹	6 - 8		
Bacteria	>99% Rejection		
TOC (ppb)	<50		
1 – pH of stored water may decrease due to CO ₂ absorption			

Dimensions		Installation Requirements	
Width (mm)	408	Power Requirements	100 - 240V / 50 - 60Hz
Depth (mm)	548	Feedwater Requirements	1000 (ppm) TDS potable mains supply
Height (mm)	860	Maximum Inlet Pressure (bar) [^]	6
Shipping weight (kg)	32	Minimum Inlet Pressure (bar)*	2
Working weight (kg)	60	Feedwater Temperature	1 - 40°C
Height, width and depth are maximum measurements		[^] Optional pressure regulator accommodates high water feed pressure (>6 bar) *Optional boost pump accommodates low water feed pressure (<2 bar)	

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Other Purite Solutions

Laboratory



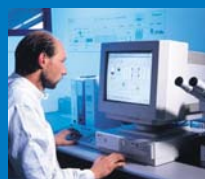
A range of models for laboratory use, to economically produce all types of purified water, including ultrapure water to a wide range of quality and volume requirements.

Systems



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

Service



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

Exchange



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



INVESTOR IN PEOPLE

INTRODUCING... THE INTEGRA RANGE

Water purification units to provide (S)HTM 2030 quality water for use with endoscope washing machines

- Suitable for supplying purified water to single or multi chamber endoscope washing machines
- Fully compliant with (S)HTM 2030, NHS MES C32 and the latest draft prEN ISO 15883 standards
- Integrated data logging for performance traceability
- Self contained
- Delivered factory tested for ease of installation
- Graphic displays for access to system parameters



Integra E^H and Integra E^S

UNIT DESCRIPTION

The Integra E unit is designed to take potable feedwater direct from the mains, purify it using Reverse Osmosis technology, store it in an integral storage tank and then circulate it via a pressurised ringmain to feed Endoscope Washing machines.

It is available in 2 versions tailored to the feedwater. The Integra E^H is for hard feedwater and the Integra E^S is for softened feedwater.

UNIT DESIGN

Integral pure water tank – Ensures water is always available on demand. Tank is fully drainable and bacterially protected to comply with (S)HTM 2030

Integral raw water break tank with Type AB air gap – Eliminates the possibility of water backflow and complies with water bylaws

Self contained unit design – All components are integrated into a neat housing, designed to fit through standard sized doors and on wheels for enhanced portability

Minimal installation and commissioning – All components are factory tested ensuring the unit simply requires connection to relevant on site services

Semi-automatic chemical clean – With automatic chemical draw, recirculation and rinse, cleaning is straight forward and trouble free

Bio Sample Point – Incorporation of a hygienic, fully sanitisable, stainless steel, sample valve reduces the risk of contamination during sampling

Alarm conditions – Critical operating parameters are automatically monitored, including the quality of the purified water and level in the pure water tank

User friendly display – Backlit display clearly shows the unit operation in graphic and text formats

Standby mode – During periods of low demand the system will compensate, reducing power consumption and running costs

Integrated data logging – Up to 12 months data can be captured, enabling a permanent printed record of all parameter and status changes, in line with Good Manufacturing Practice (GMP)

Technical Data

	Integra E ^S	Integra E ^H
Output @ 10°C (l/hr)	600	225
Feedwater hardness (ppm CaCO ₃)	< 4	400*
Feedwater temperature (°C)	1-35	1-35
Feedwater pressure (bar)	1-6	1-6
Pure water recovery (max %)	70	25
Feedwater consumption (max l/hr)	900	900
Pure water tank volume (l)	250	250
Drain flowrate	300	675
Power requirements	240V/50Hz	240V/50Hz
Width (mm)	1000	1000
Depth (mm)	750	750
Height (mm)	1800	1800

*For harder water a Purite water softener is required

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OTHER PURITE SOLUTIONS

LABORATORY



A range of models for laboratory use, to economically produce all types of purified water, including ultrapure water to a wide range of quality and volume requirements

SYSTEMS



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

SERVICE



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

MEMBRANE CARE



A range of cleaning chemicals together with CIP (clean in place) trolleys are available to cater for routine membrane maintenance and for removing significant levels of fouling to ensure long membrane life.