

**PUR1TE**  
FIRST FOR PURE WATER



***LABWATER DEIONISERS***

**LOW VOLUME PURE WATER**

## Concept

The Labwater 1 & 2 are designed for the low volume infrequent user of pure water. The product is affordable and easy to use, featuring the unique Purite disposable cartridge.

## Choice of outputs

The Labwater 1 & 2 deionisers provide 1-10 litres per day of purified water for general applications in the laboratory direct from a mains supply. Water is produced instantly at between 30 and 60 litres per hour.

## Water quality

Pure water better than 1M $\Omega$ .cm, produced to BS EN ISO3696 Grade 2.

## Compact

Each Labwater is wall mounted as standard to save bench space.

## Easy to Install

The Labwaters come with all necessary connectors for easy installation and only require 12mm braided hose (not supplied) to connect the Labwater to a tap or stopcock. Both an outlet spout and flexible outlet pipe are supplied as standard.

## Easy to use

Each unit can be used immediately after installation by opening the inlet valve. The cartridge window will change colour automatically from blue to brown when output water quality falls below 1M $\Omega$ .cm.

## Value

No mains electricity is required because the purification process operates on feedwater pressure. A meter is not required because the cartridge incorporates a colour-change window.

## Included in all models

- Wall bracket and connections for fast easy installation.
- Deionisation cartridge for ionic contaminant removal.
- Colour-change resin for instant water quality indication.
- Inlet on/off valve with 12mm hose connector.
- Outlet spout and flexible outlet pipe.

## Accessories

The Labwater dispensing can be enhanced with the addition of a 3m flexible coil and gun, allowing for greater accuracy and convenience.

## Technical specification

	Labwater 1	Labwater 2
DIMENSIONS:		
Width	80mm	80mm
Depth	100mm	100mm
Height	580mm	760mm
WEIGHT:	2.8Kg	4.4Kg
FEEDWATER REQUIREMENTS:		
Pressure	0.5-5 bar (7 - 75psi)	0.5-5 bar (7 - 75psi)
FLOWRATE:	30ltr/hr	60 ltr/hr

## Outputs

50mg/l tds (soft)	640 litres	1280 litres
200mg/l tds (medium)	160 litres	320 litres
300mg/l tds (hard)	106 litres	212 litres

## Purity

Na	0.002 mg/l	
Ca	0.005 mg/l	
Mg	0.005 mg/l	
CO <sub>2</sub>	1 mg/l	
Si	0.05 mg/l	
Fe	0.0005 mg/l	
Cl	0.01 mg/l	
Trace dissolved metals	0.01 mg/l	
pH	6.5-7.5	
Resistivity	1-10M $\Omega$ .cm	

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ISO9001/EN 46001

# 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 <sup>1</sup>	6 - 8		
Bacteria	>99% Rejection		
TOC (ppb)	<50		
1 – pH of stored water may decrease due to CO <sub>2</sub> 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) <sup>^</sup>	6
Shipping weight (kg)	32	Minimum Inlet Pressure (bar) <sup>*</sup>	2
Working weight (kg)	60	Feedwater Temperature	1 - 40°C
Height, width and depth are maximum measurements		<sup>^</sup> Optional pressure regulator accommodates high water feed pressure (>6 bar) <sup>*</sup> Optional boost pump accommodates low water feed pressure (<2 bar)	

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

## Other Purite Solutions

### Laboratory



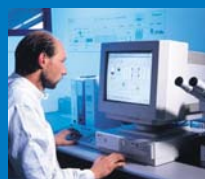
A range of models for laboratory use, to economically produce all types of purified water, including ultrapure water to a wide range of quality and volume requirements.

### 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.



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## 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<sup>H</sup> and Integra E<sup>S</sup>

### 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<sup>H</sup> is for hard feedwater and the Integra E<sup>S</sup> 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 <sup>S</sup>	Integra E <sup>H</sup>
Output @ 10°C (l/hr)	600	225
Feedwater hardness (ppm CaCO <sub>3</sub> )	< 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.