

Purite Fusion

Robust dual quality water purification system for the laboratories and life science sector



The Purite Fusion is a self-contained water purification unit that reliably delivers a steady supply of 18.2MΩ.cm purified water from a mains supply to life science laboratories. Diagnostic uses include histology, cell and tissue culture, DNA sequencing and IVF.

Additional features

- Dual water quality available 1-10MΩ.cm (Type-II) and 18.2MΩ.cm (Type-I)
- Remote Dispense Pod (Optional)
- Energy saving intelligent stand-by mode
- Dispense rate of up to 2 litres/min
- Water quality parameters, TOC, MΩ.cm, °C and flowrate displayed
- Selectable manual and volumetric dispense feature
- 5000m.wt cut off internal ultrafiltration for endotoxin, RNase/DNase removal
- Dual wavelength (185nm/254nm) UV irradiation
- Integral TOC indicator
- UV LED disinfection incorporated within the dispense head
- ECO option now available offering 50% recovery which equates to a significant reduction in water usage and waste
- WiFi enabled for remote monitoring and operation.



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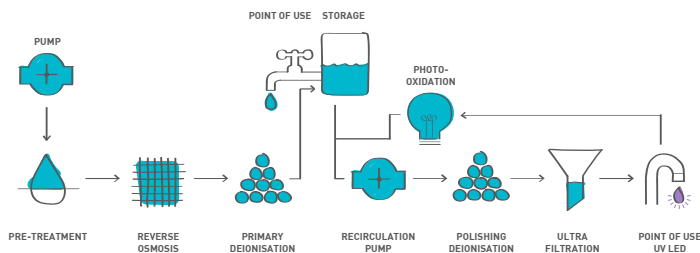
Common Purite Features

Our Purite range of water purification systems are compact, robust, simple to use and easy to maintain and available in five standard models: Analyst, HP, Purewater 300, Fusion and Neptune Ultimate.

Common features of all our Purite systems include:

- Space-saving, dependable, bench top or wall mounted systems
- RO Removes > 98% minerals and > 99% bacteria
- Choice of production rates up to 48 l/hr
- Optional external storage tanks up to 100 litres
- RO Boost pump fitted as standard
- Installation kit and all consumables included for first few months operation
- LCD colour touch screen panel
- Visual and audible alarms included
- Utilises carbon pre-treatment, RO and deionisation
- USB port to download event data and upload software updates
- Integral 20 litre storage as standard (excludes Neptune Ultimate)
- Semi-automatic clean cycle.

Purite Fusion Process Flow



Technical Specifications

Unit Specification	160	320
Width (mm)	440	
Depth (mm)	560	
Height (mm)	750	
Max shipping weight (kg)	36	41
Max working weight (kg)	51	59
Installation requirements		
Power	Single Phase, 110-230V, +/- 10%, 50/60 Hz	
Feed water	Potable	
Maximum TDS (ppm)	1000	
Minimum inlet pressure - psi (bar)	30 (2.1)	
Maximum inlet pressure - psi (bar)	90 (6.2)	
Feed water temperature	1-35°C	
Product outputs*		
@ 10°C (l/hr)	14.4	30
@ 25°C (l/hr)	24	48

* Product outputs based on a feed water pressure of 4 bar

System Specification	
Pure water storage	20 litre storage tank as standard (External 50 & 100 litre tanks available)
Display panel	LCD – Colour touch screen
Pre-treatment cartridge	✓
Reverse osmosis	✓
Deionisation cartridge	✓
Internal filtration	Ultrafiltration
Point of use	UV / LED / 0.2µm (Optional)
UV lamp	185nm / 254nm
Recirculation pump	✓
Ultrapure polishing cartridge	✓

Treated Water Specification	High Purity Dispense	Purified Water Storage Tank
Inorganics	up to 18.2MΩ.cm	> 1MΩ.cm
pH [*]	Neutral	
Bacteria	< 0.1cfu/ml	-
Organics – TOC (ppb)	< 5	< 50
Particles	0.005µm	-
Endotoxins	< 0.001EU/ml	-
DNases	< 4pg/µl	-
RNases	< 0.01ng/ml	-
Dispense modes	Latched - hold - volumetric	
Dispense flow rate	up to 2.0 l/min	-

* pH of stored water may decrease due to absorption of free carbon dioxide



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