select fusion

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

The Select Fusion is a self-contained water purification unit that reliably delivers a steady supply of 18MΩ.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
- 0.2µm point of use bacterial filter
- Water quality parameters, TOC, MΩ.cm, °C and flowrate displayed
- Selectable manual and volumetric dispense feature
- 5000m.wt cut off Ultrafiltration for endotoxin, RNase/DNase removal
- Dual wavelength (185nm/254nm) UV irradiation
- Integral TOC indicator
- ECO option now available offering 50% recovery which equates to a significant reduction in water usage and waste.

suez

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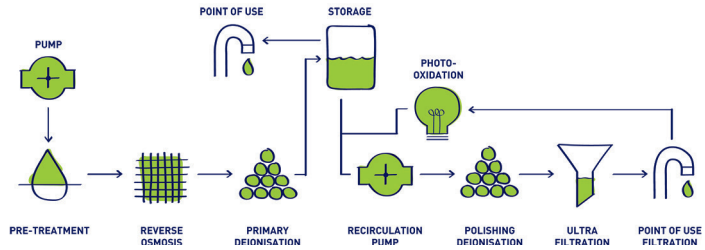
common select features

Our Select range of water purification systems is 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 Select 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 year's 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.

Select Fusion Process Flow



technical specifications

Unit Specification	40/80/160	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	1-35ºC	
Product outputs*		
@ 10ºC (l/hr)	3.6 / 7.2 / 14.4	30
@ 25ºC (l/hr)	6 / 12 / 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	0.2µm
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	< 0.2µm	-
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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