

# 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 18M $\Omega$ .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 1-10M $\Omega$ .cm (Type-II) and 18.2M $\Omega$ .cm (Type-I)
- Remote Dispense Pod (Optional)
- Energy saving intelligent stand-by mode
- Dispense rate of up to 2 litres/min
- 0.2 $\mu$ m point of use bacterial filter
- Water quality parameters, TOC, M $\Omega$ .cm,  $^{\circ}$ 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.



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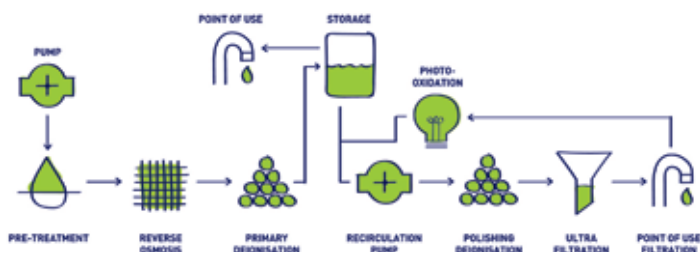
## common select features

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



## contact

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## 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             | 1-35°C                                    |     |
| Product outputs*                   |   |     |
| @ 10°C (l/hr)                      | 3.6 / 7.2 / 14.4                          | 30  |
| @ 25°C (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

