

# select neptune ultimate

## reliable water purification system, consistently delivering ultrapure water for laboratories



The Select Neptune Ultimate provides a high flow of guaranteed 18.2MΩcm ultrapure water for analytical and life science laboratory applications.

The Select Neptune Ultimate utilises a number of proven technologies to produce ultra-pure, 18.2MΩ.cm water on-demand, including:

- Ion exchange cartridges incorporating monospherical, semiconductor grade mixed bed deionising resin with a low TOC leaching profile and a high activity organic absorption media
- Sub-micron and ultrafilter to remove particles, bacteria and endotoxins
- 185nm or photo-oxidising UV to cleave organic compounds into smaller charged ionic species that can be removed by ion exchange
- 254nm UV to reduce bacteria by more than 99%.



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## compact water purification system, developed for pure water laboratory tasks

### additional features

Our Select Neptune Ultimate is compact, robust, simple to use and easy to maintain. Other features of the Select Neptune Ultimate include:

- Space-saving, bench top or wall mounted systems
- Dispense rate up to 2l/min
- Optional external storage tanks up to 100 litres
- Installation kit and all consumables included for first year's operation
- LCD colour touch screen panel
- Visual and audible alarms included
- USB port to download event data and upload software dates
- Semi-automatic clean cycle
- TOC monitoring
- Point of use 0.2µm filtration

### technical specifications

Unit Specification	
Width (mm)	310
Depth (mm)	560
Height (mm)	750
Max shipping weight (kg)	21
Max working weight (kg)	29
Installation requirements	
Power	Single Phase, 110-230V, +/- 10%, 50/60 Hz
Feed water	< 20µS/cm
Maximum TDS (ppm)	< 14
Minimum inlet pressure - psi (bar)	5 (0.34)
Maximum inlet pressure - psi (bar)	20 (1.38)
Feed water temperature	1-35°C

### System Specification

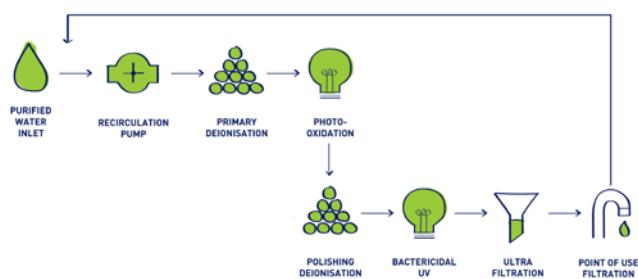
Display panel	LCD – Colour touch screen
Internal filtration	Ultrafiltration
Point of use	0.2µm
UV lamp	185nm & 254nm
Recirculation pump	✓
Ultrapure polishing cartridges	✓
Dispense modes	Latched - hold - volumetric
Dispense flow rate	up to 2.0 l/min

### Treated Water Specification

Inorganics	18.2MΩ.cm
pH*	Neutral
Bacteria	< 0.1cfu/ml
Organics – TOC (ppb)	< 1
Particles	Ultrafiltration
Endotoxins	< 0.001EU/ml
DNases	< 4pg/µl
RNases	< 0.01ng/ml

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

### Select Neptune Ultimate Process Flow



### contact

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