

# integra l

## pure water systems for centralised distribution of laboratory water



Our Integra L units have been designed to provide a broad spectrum of purified water for laboratory applications. Each unit is designed to feed a laboratory suite with several outlets using a ring main to provide a continuous supply. The water is stored in an integral 250 litre stainless steel tank. Two units are available: The Integra L<sup>H</sup> for hard feed water and Integra L<sup>S</sup> for soft feed water.

### Additional features

- Single compact unit which purifies, stores and distributes lab water
- Produces up to 600 l/hr
- Provides ASTM Type I, II or III water and BS EN ISO grade 1,2 or 3 water
- Utilises reverse osmosis technology, in conjunction with activated carbon and particulate filtration as part of the first stage of purification
- Integrated data logging for performance traceability equipped as standard
- Delivered factory tested for ease of installation
- LCD screen display for ease of operation.



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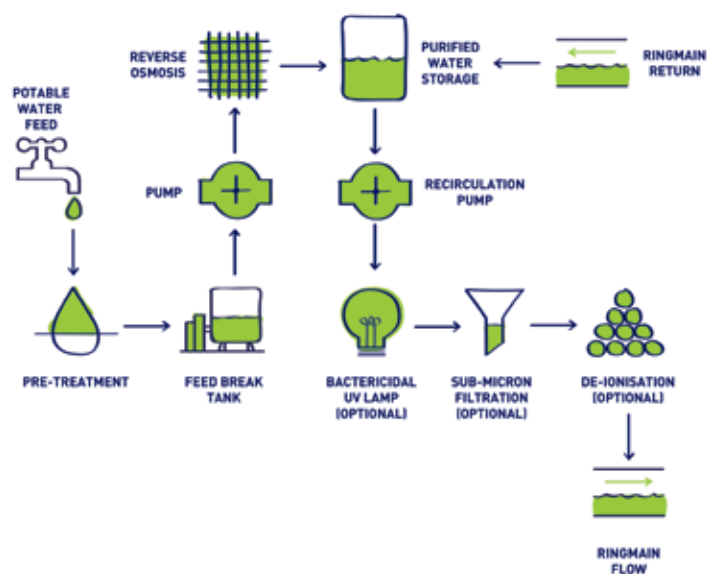
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## integra l features

Our Integra range is ideal for laboratories requiring greater daily volumes of purified water with several points of use. Our Integra HP and Integra L systems deliver laboratory grade deionised water from 60-600 litres per hour, while our Integra 200E system is a low energy, self-contained unit utilising the latest low energy reverse osmosis membranes and electro-deionisation technology.

To provide higher grades of purified water the basic Integra L units can be supplemented by the addition of optional polishing packs comprising of stand-alone exchangeable cylinders. For applications requiring high quality water with enhanced bacterial specification, UV disinfection and 0.2µm filtration is available in an optional BIO pack.

## Integra L Process Flow



## contact

SUEZ Water Purification Systems Limited

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Errors and Omissions excluded. SUEZ reserves the right to change the specification in accordance with our program of continual improvement.

## technical specifications

Unit Specification	
Width (mm)	1000
Depth (mm)	750
Height (mm)	1800
Max shipping weight (kg)	310
Max working weight (kg)	550
Installation Requirements	
Power	Single Phase, 230V, +/- 10%, 50 Hz
Feedwater	Potable*
Maximum TDS (ppm)	1000
Minimum inlet pressure - psi (bar)	15 (1)
Maximum inlet pressure - psi (bar)	90 (6.2)
Feedwater temperature	1-35°C
Flowrate	-
Free chlorine	Must be dechlorinated

\* Softened feed water required for 600 l/hr (Integra L<sup>S</sup>). Integra L<sup>H</sup> can operate on hard water up to 400ppm as CaCO<sub>3</sub>

System Specification	
Pure water storage	250 litres
Display panel	LCD screen
Pre-treatment	5µm pre-filter
Reverse osmosis	Low energy membranes
Deionisation	Optional Di packs*
Micro filtration	Optional 0.2µm**
UV lamp	Optional 254nm**
Purified water make-up flowrate @ 10°C	200 - 600 l/hr***
Purified water distribution	Up to 3000 l/hr
Carbon dioxide degassing	-
TOC reduction	Optional*

\* 10, 15, 18MΩ.cm polishing deionisation packs available including activated carbon for TOC reduction

\*\* Included in BioPack

\*\*\* Softened feed water required for 600 l/hr (Integra L<sup>S</sup>). Integra L<sup>H</sup> can operate on hard water up to 400ppm as CaCO<sub>3</sub>

Treated Water Specification	
Conductivity	< 30µs/cm*
Bacteria	> 99% rejection**
Organics – TOC (ppb)	< 50***
Particles	0.2µm**
Endotoxins	0.25EU/ml**

\* For enhanced inorganic and organic quality the unit can be fitted with either 10,15 or 18MΩ.cm polishing deionisers packs.

\*\* Optional 'BioPack' will provide purified water with a total viable count of <1cfu/ml, endotoxin level <0.25EU/ml and particles <0.2µm

\*\*\* Typical level, depends on feedwater

