

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^H for hard feed water and Integra L^S 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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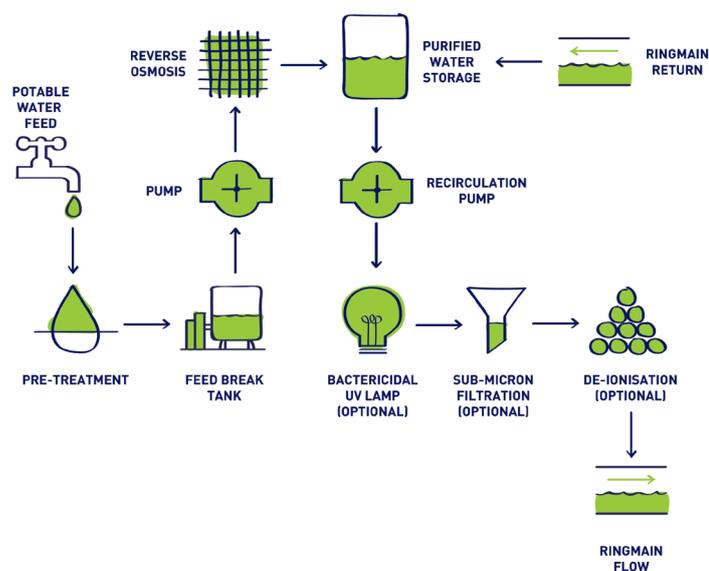
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integra l features

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

Water Purification Systems

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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 L³). Integra L^H can operate on hard water up to 400ppm as CaCO₃

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 L³). Integra L^H can operate on hard water up to 400ppm as CaCO₃

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

