

# 24r™

## Deionisation Systems



24r™ deionisation systems typically produce water with a conductivity of less than 25µS/cm.

Flow rates from **60 to 400 l/hr.**

### Features & Benefits

- Cost effective capital and running costs for deionised water production
- Robust skid and stand design for long life and reliability
- Optimized flow:size ratio; space saving and efficient
- Pre-assembled, skid mounted system; reduces installation costs and ensures rapid start-up time
- Safe operation, with no mains electrical connections
- Battery operated conductivity meter for system quality control and operation
- Non-return valves and break tanks can be fitted if required
- Manually regenerated

### Applications

- Laboratories
- Metal finishing and surface treatment
- PCB and semiconductor rinsing
- Toiletries and cosmetics
- Chemical dilution
- Battery top-up

### Related Services

Local after-sales service and support teams offer preventative and corrective maintenance programs to ensure the long-term, efficient operation of installed plant.

# 24r™

## System Performance

<b>Model</b>		
Maximum Flow	l/hr	400
Minimum Flow	l/hr	60
Optimum Flow for Maximum Capacity	l/hr	200
Regeneration Time	hours	1.5
Pressure Loss at Maximum Flow	bar	2.2
Pressure Loss at Optimum Flow	bar	0.5
Maximum Flow to Drain During Regeneration	l/hr	700
Effluent Volume per Regeneration	l	400
Chemical Usage per Regeneration		
HCl (32%)	l	3.5
NaOH (30%)	l	2.7
Output per Regeneration (100 mg/l Total Anion Load as CaCO <sub>3</sub> Inc. CO <sub>2</sub> & SiO <sub>2</sub> )	m <sup>3</sup>	5

## System Dimensions, Weights & Connections

<b>Model</b>		
Height	mm	1050
Depth	mm	360
Width	mm	430
Recommended Headroom	mm	500
Approx. Service Weight	kg	60
Pipe Connections*		
Inlet (with 1.5m tubing)	inches	3/8
Outlet (with 1.5m tubing)	inches	3/8
Drain (with 4m tubing)	inches	1/2

\*3/8" male BSP connections also supplied

## Treated Water Quality

	TDS mg/l	Conductivity µS/cm
24r™	<10	<25

## Material Specifications

Pressure Vessels	Composite plastic
Pipework	PVC
Skid	Epoxy coated mild steel
Control Valves	Manually operated ball type

## Feed Water Supply Quality

Potable water free from organic contamination, chlorine and suspended solids.

Supply Pressure: min. 1.5 bar max. 6 bar

Temperature: min. 5°C max. 30°C

## Electrical Supply

Battery required - 9V PP3 or equivalent.

**For higher flow rate applications consult your local Veolia Water Solutions & Technologies company, details below.**

In keeping with the progressive nature of the company, we reserve the right to amend details without notice.

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Visit our website:  
[www.veoliawaterst.com](http://www.veoliawaterst.com)