Aquaclean

Aqueous Water Cleaning Systems.

Aqueous water cleaning systems produce from 0.14 to 2.85 m^3/hr of high purity water for applications such as printed circuit board defluxing and cleaning, stencil cleaning and high quality metal component rinsing. The systems incorporate a range of mixed bed and carbon cylinders that are capable of operating at temperatures up to 70°C.

Deionisation Resin

- All units use a mixture of strong base regenerable ion-exchange resin, which has been selected for the removal of all major ionic impurities.

Activated Carbon

- A specially selected and conditioned activated carbon media is used. This media effectively reduces organic levels and colour within the rinse water. The cylinder is usually exchanged with every other change of the deioniser cylinder.

Cylinder range

- The pressure vessels are constructed from a seamless GRP, polyethylene composite. Special internal components allow for operation at up to 70°C at reduced pressures.

Meters

- Various meters are available using either mains or battery power, providing readouts between 1 and 18 MΩ/cm resistivity. For use at high temperatures, a temperature compensated version is available.

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System Dimensions & Performances

Aquaclean Model	Maximum Flow /ΔP		Minimum Flow /ΔP		Maximum Operating Pressure		Maximum Temperature	Dimensions			Capacity
	l/h	psi	l/h	psi	psi	bar	°C	Height mm	Diameter mm	Weight kg	Output m^3 mg/l impurities
Deionisation Resin											
AQ1D	600	8.0	140	1.0	70	4.8	70	710	185	18	163
AQ2D	1000	10.0	225	1.0	70	4.8	70	1000	200	25	360
AQ5D	1800	15.0	400	1.0	70	4.8	70	1000	263	48	640
AQ9D	1875	12.5	625	2.5	90	6.0	70	1195	320	60	1000
AQ10D	2835	30.0	940	7.5	90	6.0	70	1600	320	115	1500
Activated Carbon											
AQ1C	600	7.0	140	1.0	70	4.8	70	710	185	18	Change carbon every other deioniser change unless otherwise recommended
AQ2C	1000	7.0	225	1.0	70	4.8	70	1000	200	25	
AQ5C	1800	10.0	400	1.0	70	4.8	70	1000	263	48	
AQ9C	1875	6.0	625	0.5	90	6.0	70	1195	320	60	
AQ10C	2835	15.0	940	2.0	90	6.0	70	1600	320	115	

Treated Water Quality

Aquaclean Model	Conductivity	Resistivity	Silica	Carbon Dioxide	Trace Dissolved Metals	Residual Solids	Average pH
	µS/cm	MΩ-cm	mg/l	mg/l	mg/l	mg/l	
Aquaclean	1.0 - 0.1	1.0 - 10	◂0.5	◂0.5	◂0.001	◂0.5	Neutral

Material Specifications

Vessel	MDPE lined composite plastic
Internals	CPVC and Polypropylene
Top Adapter	GRP and Noryl plastic

Notes

- For operation at temperatures above 50°C, feed pressure should not exceed 3.4 bar
- To maximise cylinder capacity and efficiency a pre-rinse of town mains or softened water should be maintained
- Maximum flow rates above assume use in a recirculation mode
- All capacity guidelines above are to a 1µS/cm endpoint

Typical system configuration consists of recirculation pump, carbon cylinder, deionisation cylinder and final filtration. The pump is fed from the rinse tank and the treated water returns to the tank via a resistivity meter to monitor water quality. To maximise cylinder capacity it is essential that an intermediate potable water rinse with continuous flow to drain or frequent refill is used prior to the pure water rinse. Cylinder capacity will also be improved by minimising drag-out between rinse stages.

For higher flow rates or other processes, consult your local Veolia Water Technologies representative.

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