

Cylinders

High Purity Water.

Veolia Water Technologies' range of cylinders produce from 0.14 to 4.72 m³/hr of high purity water for a wide range of process water and general manufacturing applications. Often incorporated into centralised water purification systems or used in conjunction with deionisation or reverse osmosis equipment, they will sufficiently remove a wide range of impurities from both raw and deionised water supplies.

Standard Deionisation Resin

- These Deionisers are designed for use as primary mixed bed units for the removal of all major ionic impurities.

Activated Carbon

- These systems will effectively control organic carbon levels (TOC) and reduce chlorine, colour, taste and odour in an ultra-pure or process water system.

Nuclear Grade Resin

- Highly regenerated new resin, will remove trace ionic impurities from water down to sub-parts-per-billion levels, to produce ultra-pure water with a resistivity better than 18MΩ-cm at 25°C. Its main application is a polisher to further purify Deionised water.

'Hipex' Grade Resin

- 'Hipex' resin is used as a Deionised water polisher to produce a treated water resistivity of >18MΩ-cm and a TOC level of <10ppb as C.

Adsorb

- Adsorb reduces the level of colloidal and heavy metal impurities, greatly increasing the life of the pre-filters used to protect reverse osmosis membranes.

Carbon Dioxide Absorption Cylinders

- Carbon Dioxide absorption cylinders are designed to remove CO₂ from the air passing into purified water tanks to prevent degradation of the conductivity of the water due to CO₂ absorption

Organic Scavenging

- Specially selected anion resins remove naturally occurring organic compounds, e.g. humic and fulvic acids, to protect deionisation and reverse osmosis systems from organic fouling.

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System Performance

Model	Minimum Flow /ΔP		Maximum Flow /ΔP		Maximum Operating Pressure		Maximum Operating Temperature	Capacity Guidelines	Dimensions		
	l/h	psi	l/h	psi	psi	bar	°C	Output m ³ mg/l impurities	Height mm	Diameter mm	Weight kg

100 Series

C118 Standard DI (Strong)	140	5.0	420	10	70	4.8	35	163	710	185	18
C119 Standard DI (Weak)	140	5.0	420	10	70	4.8	35	336	710	185	18
C140 Nuclear Grade Resin	140	5.0	630	10	70	4.8	35	306	710	185	18
C160 Activated Carbon	140	5.0	420	10	70	4.8	35	144*	710	185	18
C168 Adsorb	140	5.0	350	10	70	4.8	35**	710	185	18	0.45
C170 'Hipex' Resin	140	5.0	700	10	70	4.8	35	306	710	185	18

200 Series

C124 Standard DI (Strong)	220	5.0	660	12	70	4.8	35	360	1000	200	25
C224 Standard DI (Weak)	220	5.0	660	12	70	4.8	35	625	1000	200	25
C240 Nuclear Grade Resin	220	5.0	990	20	70	4.8	35	675	1000	200	25
C250 Organic Scavenging	220	5.0	530	15	70	4.8	35	22	1000	200	25
C260 Activated Carbon	220	5.0	660	11.5	70	4.8	35	270*	1000	200	25
C268 Adsorb	220	5.0	440	15	70	4.8	35**	1000	200	25	0.45
C270 'Hipex' Resin	220	5.0	1100	25	70	4.8	35	675	1000	200	25

500 Series

C510 Standard DI (Strong)	400	5.0	1200	30	70	4.8	35	640	1000	263	48
C500 Standard DI (Weak)	400	5.0	1200	30	70	4.8	35	1290	1000	263	48
C540 Nuclear Grade Resin	400	5.0	1800	60	70	4.8	35	1200	1000	263	48
C550 Organic Scavenging	400	5.0	960	20	70	4.8	35	35	1000	263	48
C560 Activated Carbon	400	5.0	1200	25	70	4.8	35	500*	1000	263	48
C568 Adsorb	400	5.0	800	20	70	4.8	35**	1000	263	48	0.45
C570 'Hipex' Resin	400	5.0	1800	60	70	4.8	35	1200	1000	263	48

900 Series

C910 Standard DI (Strong)	620	2.5	1860	12.5	90	6.0	35	1000	1195	320	60
C900 Standard DI (Weak)	620	2.5	1860	12.5	90	6.0	35	1875	1195	320	60
C940 Nuclear Grade Resin	620	2.5	2800	10.0	90	6.0	35	1875	1195	320	60
C950 Organic Scavenging	620	7.5	1240	5.0	90	6.0	35	53	1195	320	60
C960 Activated Carbon	620	0.5	2800	6.0	90	6.0	35	750*	1195	320	60
C968 Adsorb	620	5.0	1240	10.0	90	6.0	35**	1195	320	60	0.45
C970 'Hipex' Resin	620	2.5	3100	12.5	90	6.0	35	1875	1195	320	60

1000 Series

C1010 Standard DI (Strong)	940	7.5	2835	30	90	6.0	35	1500	1600	320	115
C1000 Standard DI (Weak)	940	7.5	2835	30	90	6.0	35	2820	1600	320	115
C1040 Nuclear Grade Resin	940	2.5	4250	22	90	6.0	35	2820	1600	320	115
C1050 Organic Scavenging	940	5.0	2250	7	90	6.0	35	84	1600	320	115
C1060 Activated Carbon	940	2.0	4250	15	90	6.0	35	1130*	1600	320	115
C1068 Adsorb	940	7.0	1880	10	90	6.0	35**	1600	320	115	0.45
C1070 'Hipex' Resin	940	2.5	4725	25	90	6.0	35	2820	1600	320	115
C1080 Carbon Dioxide	15000	N/A	20000	N/A	Atmospheric	Atmospheric	35	47000**	1600	320	115

Note: * Application dependent. ** Site tests required to establish capacity.

Treated Water Quality

	Conductivity	Resistivity	Silica	Carbon Dioxide	Trace Dissolved Metals	Residual Solids	Average pH
	µS/cm	MΩ-cm	mg/l	mg/l	mg/l	mg/l	
Standard Deionisation (Strong)	1.0 - 0.1	1.0 - 10	<0.5	<0.5	<0.001	<0.5	Neutral
Standard Deionisation (Weak)	10 - 50	0.02 - 0.1	Not removed	Not removed	< 0.005	<10	4 - 7
Nuclear Grade Resin	1.0 - 0.055	10 - 18	< 0.01	< 0.01	< 0.001	<0.1	Neutral
'Hipex' Resin	1.0 - 0.055	10 - 18	< 0.01	< 0.01	< 0.001	<0.1	Neutral

Material Specifications

Vessels	ABS & GRP composite
Internals	uPVC & ABS Plastic
Top Adapter	ABS Plastic

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

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