

CEDI Systems

Continuous Electrodeionisation

CEDI systems polish reverse osmosis permeate to produce high purity water of up to 18 MΩ.cm.

Flow rates from 1.4 to 40.8 m³/hr



Features & Benefits

- Chemical free operation, no regeneration downtime; continuous flow, consistent water quality
- Skid-mounted, standardised systems; short lead-times, quick installation and start-up
- Up to 8 CEDI modules per skid; flexibility, high flow rates

CEDI Modules

- Double o-ring seal; leak-free operation
- Completely filled concentrating compartments; no need for recirculation pump and brine injection
- Plate-and-frame arrangement gives even distribution of fluid and current flow; improves performance and module longevity

Applications

- Power
- HPI/CPI
- High pressure boiler feed
- Industrial process water
- Food & Beverage industry
- Electronics

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.

Hydrex® Chemicals

Hydrex® 5000 water treatment chemicals from Veolia Water Technologies should be used for optimised operation.

Performance

Model		24-01	30-01	24-02	30-02	30-03	30-04	30-06	30-08
No. of Modules		1	1	2	2	3	4	6	8
Flow Rates	m ³ /h	1.4 - 4.2	1.7 - 5.1	2.8 - 8.4	3.4 - 10.2	5.1 - 15.3	6.8 - 20.4	10.2 - 30.6	13.6 - 40.8
Nominal Flow Rate	m ³ /h	2.8	3.4	5.6	6.8	10.2	13.6	20.4	27.2
Recovery	%	90-95	90-95	90-95	90-95	90-95	90-95	90-95	90-95
Max. Pressure Drop*	bar	1.7 - 2.4	1.7 - 2.4	1.7 - 2.4	1.7 - 2.4	1.7 - 2.4	1.7 - 2.4	1.7 - 2.4	1.7 - 2.4

*At nominal flow rate

Dimensions

Model		24-01	30-01	24-02	30-02	30-03	30-04	30-06	30-08
Weight	kg	250	260	500	525	900	1050	1800	2100
Width	mm	600	600	1060	1060	1440	1440	1440	1440
Height	mm	1800	1800	1900	1900	2030	2030	2030	2030
Depth	mm	1300	1300	1300	1300	2550	2550	3400	3400
Connections									
Feed Water Inlet	DN	25	25	40	40	50	50	80	80
Product Outlet	DN	25	25	40	40	50	50	80	80
Reject Outlet	DN	15	15	20	20	25	25	40	40

Material Specifications

Pipework	uPVC*
Skid	Welded structural carbon steel
Sample Valves	¼" PP ball valve

*Other materials upon request: PPH, PVDF, SS

Feed Water Supply Quality

Feed Water Source		RO Permeate
Conductivity*	µS/cm	<40
Silica	ppm	<1
Iron, Manganese, Hydrogen Sulfide	ppm	<0.01
Total Chlorine	ppm as Cl ₂	<0.02
Hardness	ppm as CaCO ₃	<1
Dissolved Organics (TOC)	ppm as C	<0.5
Operating pH range		4 - 11
Max. Feed Temp.	°C	45
Max. Feed Pressure	bar	7

*Equivalent including CO₂

Electrical Supply

Models with one module: 230V / 1 / 50Hz standard

Other models: 400V / 3 / 50Hz standard

Visit our website: www.veoliawatertechnologies.com/cedilx/en/

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

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