

WAPOL

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/h



Pharma



Cosmetics



Food



Beverage



Power



General
Industry



✓ 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

HYDREX™ CHEMICALS

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

💧 APPLICATIONS

- High pressure boiler feed
- Industrial process water
- Suitable for power, HPI/CPI, food & beverage, electronics markets

ASSOCIATED SERVICES

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





System Operating Parameters

Model	Unit	24-01	30-01	24-02	30-02
Number of Membrane Modules	-	1	1	2	2
Nominal Feed Flowrate	m ³ /h	2.80	3.40	3.40	6.80
Permeate Nominal Flowrate	m ³ /h	1.4 - 4.2	1.7 - 5.1	2.8 - 8.4	3.4 - 10.2
Recovery	%	90-95	90-95	90-95	90-95
Pressure Loss at Maximum Flow	bar	1.7 - 2.5	1.7 - 2.5	1.7 - 2.5	1.7 - 2.5

Model	Unit	30-03	30-04	30-06	30-08
Number of Membrane Modules	-	3	4	6	8
Nominal Feed Flowrate	m ³ /h	10.20	13.60	20.40	27.20
Permeate Nominal Flowrate	m ³ /h	5.1 - 15.3	6.8 - 20.4	10.2 - 30.6	13.6 - 40.8
Recovery	%	90-95	90-95	90-95	90-95
Pressure Loss at Maximum Flow	bar	1.7 - 2.5	1.7 - 2.5	1.7 - 2.5	1.7 - 2.5

System Dimensions

Model	Unit	24-01	30-01	24-02	30-02
Total Installed Length	m	1.30	1.30	1.30	1.30
Total Installed Width	m	0.60	0.60	1.06	1.06
Total Installed Height	m	1.80	1.80	1.90	1.90
Operating Weight	kg	270	280	530	565

Model	Unit	30-03	30-04	30-06	30-08
Total Installed Length	m	2.15	2.15	3.40	3.40
Total Installed Width	m	1.60	1.60	1.60	1.60
Total Installed Height	m	2.14	2.14	2.14	2.14
Operating Weight	kg	950	1130	1900	2350

Pipes Connections

Model	Unit	24-01	30-01	24-02	30-02
Regeneration Water Inlet	DN	25	25	40	40
Outlet	DN	25	25	40	40
Drain	DN	15	15	20	20

Model	Unit	30-03	30-04	30-06	30-08
Regeneration Water Inlet	DN	50	50	80	80
Outlet	DN	50	50	80	80
Drain	DN	25	25	40	40





Feed water Requirements

Parameter	Unit	Value
Maximum supply pressure	barg	7
Max inlet Conductivity	µS/cm	<20
Maximum water temperature	°C	30
Max inlet Silica	mg/l	<1
Max inlet Iron Fe ³⁺	mg/l	<0.01
Max inlet Manganese Mn ²⁺	mg/l	<0.01
Max inlet Total Chlorine	mg/l	<0.02
Max inlet Total Hardness	mg/l CaCO ₃	<1
Max inlet TOC	mg/l	<0.5
Operating pH range	-	4 - 11

Environmental Conditions

Parameter	Unit	Value
Minimum ambient temperature	°C	5
Maximum ambient temperature	°C	40
Maximum humidity	%	90

Materials of Construction

Skid	Welded structural carbon steel
Pipework	uPVC 5 (other materials upon request: PPH, PVDF, SS)
Control Cabinet	Epoxy painted carbon steel

Power Requirements

Parameter	Unit	Value
Voltage	V	230V ⁽¹⁾ 400V ⁽²⁾
Frequency	Hz	50
Phases	-	1 ⁽¹⁾ 3 ⁽²⁾

⁽¹⁾ for one module | ⁽²⁾ for other models

Typical Treated Water Specifications and Performances

Parameter	Unit	Value
Maximum Conductivity ⁽³⁾	-	1

⁽³⁾ Equivalent including CO₂