

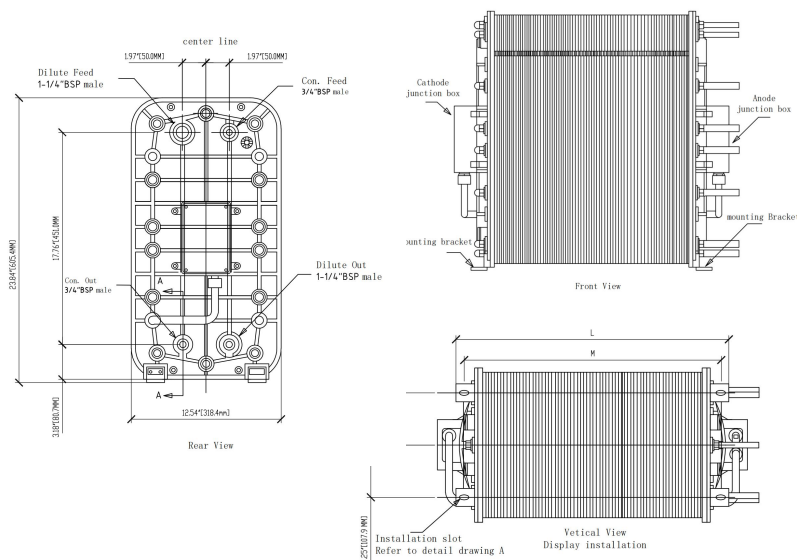


Introducing Iontech DN Series Continuous Electrodeionization (EDI) Modules for Industrial Applications

IONTECH INDUSTRIAL CEDI MODULE

The Iontech DN modules with improved chlorine tolerance are specifically designed for a wide range of industrial deionized water applications and markets, including solar, boiler makeup water for power plants, water for hydrocarbon and chemical processing (HPI/CPI) and other high purity needs.

Iontech EDI modules provide a constant flow of high purity water without the need for downtime or chemical regeneration like conventional deionization methods.



QUALITY ASSURANCE STANDARDS

Each module is factory tested to meet strict industry standards and is manufactured in an ISO 9001 and ISO 14000 quality and environmental management system.



DN SERIES FEATURES

- Wide range of flow from 3.5 m³/h to 10.0 m³/h per module
- Significantly lower operating costs than conventional ion exchange
- Generates mixed-bed quality deionized water without the use of chemicals
- Continuous production instead of batch, with consistent quality
- Double O-ring seal guarantees leak-free operation
- No need for acid/caustic, neutralization system or exchangeable DI tanks
- Resin filled concentrate for optimal performance and ease of operation
- Continuous operation

OPERATING ENVIRONMENT

Installation should be indoors with no direct sunlight and should have a maximum ambient temperature of 45°C.

FEED WATER SPECIFICATIONS

Feed Water Source	2-stage RO
Feed Water Conductivity	< 10 $\mu\text{S/cm}$
Silica (SiO_2)	< 1 ppm
Fe、Mn、 S^{2-}	< 0.01 ppm
Total Chlorine (as Cl_2)	< 0.02 ppm
Total Hardness (as CaCO_3)	< 1.0 ppm
Dissolved Organics (TOC as C)	< 0.5 ppm
pH	4 - 11
Temperature	5 - 45°C
Inlet Pressure	< 100 psi

TYPICAL MODULE PERFORMANCE

Operating Parameters

Recovery	90 – 95%
Pressure Drop Range at Nominal Flow	30 - 43 psi (2.1 - 3.0bar)

Product Water Quality

Product Resistivity	Minimum Flow > 17 $\Omega\text{-cm}$ Maximum Flow > 7 $\Omega\text{-cm}$
Silica(SiO_2) Removal	90–99%, depending on feed conditions

† Performance based on maximum Feed Water Conductivity (10 $\mu\text{S/cm}$).

PHYSICAL SPECIFICATIONS

Item Number	Installation dimensions	
	L	M
DN 500	865mm	750 mm
DN 750	1010mm	905 mm

DN FLOW RANGE AND WEIGHTS

Model Number	Nominal Flow m^3/h	Flow range m^3/h	DC Voltage V	DC Current A	Shipping Weight KG
DN 500	5.0	2.55 - 7.67	0-500	0-6	153
DN 750	7.50	3.50 - 11.50	0-500	0-6	200

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