

IT-DS Series INDUSTRIAL CONTINUOUS ELECTRODEIONIZATION (EDI) MODULES

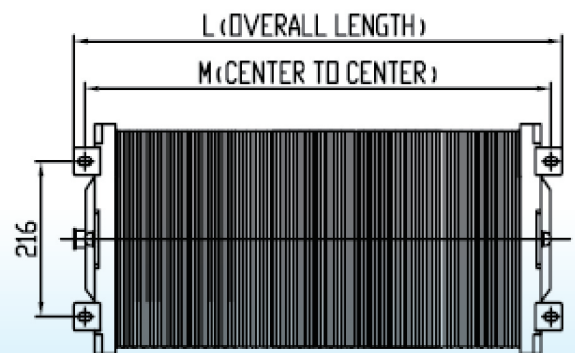
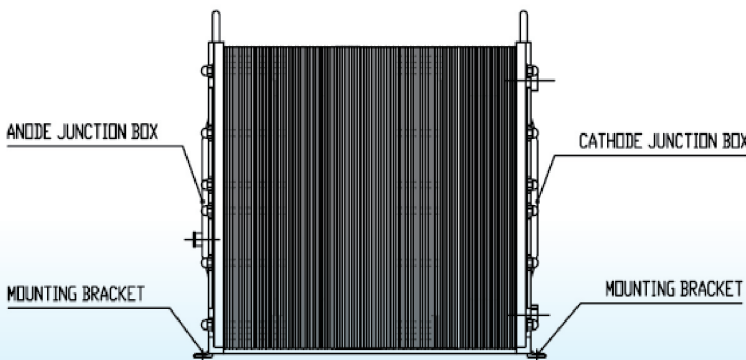
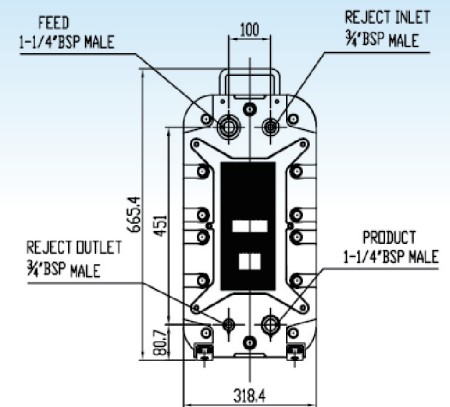
CONTINUOUS PRODUCTION, WITHOUT USE OF CHEMICALS

The IT-DS series industrial modules generate mixed bed deionized water through electrodeionization and are specifically designed for industrial applications. Ionpure modules consistently deliver maximum reliability and superior performance for power, general electronics and laboratory applications without regeneration downtime.



IT- DS SERIES FEATURES

- Double O-ring seal guarantees leak-free operation
- Generate mixed-bed quality deionized water without the use of chemicals
- Continuous production instead of batch, with consistent quality
- No need for acid/caustic, neutralization system or exchangeable DI tanks
- Superior electrical isolation
- 100 psi (7 bar), 113°F (45°C) continuous operation



OPERATING ENVIRONMENT

Installation should be indoors with no direct sunlight and should have a maximum ambient room temperature of 113°F (45°C).

QUALITY ASSURANCE STANDARDS

CE marked. Each module is factory tested to meet strict industry standards and is manufactured in an ISO 9001 and ISO 2000 quality and environmental management system.

Physical Specifications

Item Number	Dimensions	
	L	M
IT-DS-05S	179mm (7.05 in)	147mm (5.79 in)
IT-DS-10S	268 mm (10.56 in)	236mm (9.30 in)
IT-DS-20S	386 mm (15.20 in)	354mm (13.94 in)
IT-DS-30S	563 mm (22.17 in)	531mm (20.91 in)
IT-DS-50S	778 mm (30.63 in)	746mm (29.37 in)

Maximum Feed Water Specifications

Feed Water Source	RO permeate
Feed Water Conductivity Equivalent, including CO ₂	< 40 µS/cm
Silica (SiO ₂)	< 1 ppm
Iron (as Fe, Mn, S)	< 0.01 ppm
Maximum Total Chlorine (as Cl)	< 0.02 ppm
Total Hardness (as CaCO ₃)	< 1.0 ppm
Dissolved Organics (TOC as C)	< 0.5 ppm
pH	4 - 11
Temperature	41-113°F (5 - 45°C)
Inlet Pressure	< 100 psi (7 bar)

Module Performance

Operating Parameters	
Recovery	90 – 95%
Pressure Drop Range at Nominal Flow	20 - 30 psi (1.4 - 2.1 bar)
Product Water Quality	
Product Resistivity	>16MΩ·cm
Silica (SiO ₂) Removal	90 – 99% (depending on feed conditions)

FLOW AND PHYSICAL SPECIFICATIONS

Model Number	Product Flow range m ³ /h (gpm)	Product Flow Normal.m ³ /h (gpm)	DC Voltage V	DC Amperage A	Shipping Weight kg (lbs.)	Operating Weight kg (lbs.)
IT-DS-05	0.22-0.67 (1.0-3.0)	0.44 (2.0)	0-55	0-6	73 (161)	50 (111)
IT-DS-10	0.55-1.65 (2.5-7.5)	1.10 (5.0)	0-135	0-6	96 (211)	73 (161)
IT-DS-20	1.10-3.10 (4.5-13.5)	2.00 (9.0)	0-240	0-6	105 (231)	82 (181)
IT-DS-30	1.70-5.10 (7.5-22.5)	3.30 (15.0)	0-320	0-6	118 (261)	96 (211)
IT-DS-50	2.55-7.7 (11.3-33.8)	5.10 (22.5)	0-400	0-6	153 (336)	129 (284)