



IONTECH® IT-HI INSTANT HOT WATER SANITIZABLE CONTINUOUS ELECTRODEIONIZATION (CEDI) MODULES

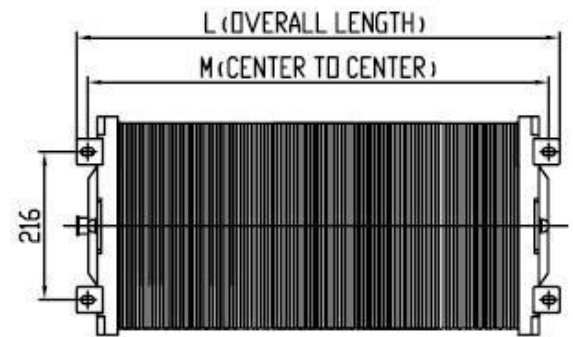
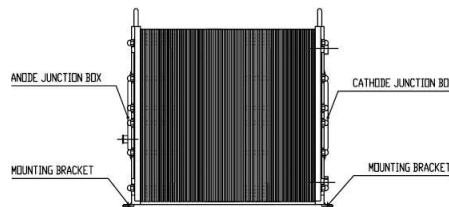
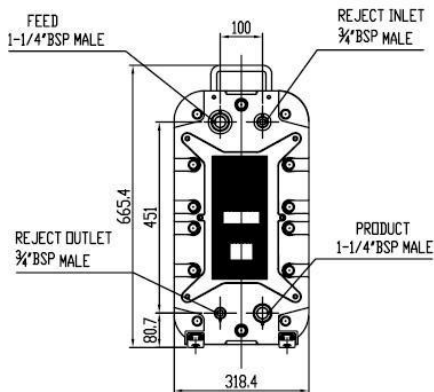
IONTECH IT-HI MODULE

Hot water sanitization has been shown to be more effective than chemical sanitization for controlling microbial growth, primarily in the pharmaceutical and biotechnology industries and other applications where chemical-free, instant hot water sanitization is desired.

IT-HI modules are capable of continuous operation up to 140°F (60°C) allowing these modules to provide high quality water, in higher temperature applications than typical CEDI, such as steam generation in power applications, without regeneration downtime. Ease of operation, maximum reliability and low operating costs are signature features of IONTECH modules.

IT-HI Series Features

- Hot water sanitizable at 185°F/85°C ± 5°C
- Continuous operation up to 140°F (60°C)
- Patented technology for instant hot water capability – no ramp up/down required
- Higher sanitization pressure 30 psi/2.0 bar
- Double O-ring seal guarantees leak-free operation
- Proven performance after 150+ sanitizations
- Concentrate recirculation and brine injection not required
- Wetted materials of construction comply with FDA requirements



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

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

Physical Specifications

Item Number	Dimensions		
	L	H	W
IT-DS05Hi-S	11.81" (300.0 mm)	23.84" (605.5 mm)	12.54" (318.5 mm)
IT-DS10Hi-S	15.29" (388.6 mm)	23.84" (605.5 mm)	12.54" (318.5 mm)
IT-DS20Hi-S	19.91" (505.7 mm)	23.84" (605.5 mm)	12.54" (318.5 mm)
IT-DS30Hi-S	27.42" (696.5 mm)	23.84" (605.5 mm)	12.54" (318.5 mm)
IT-DS50Hi-S	35.72" (907.3 mm)	23.84" (605.5 mm)	12.54" (318.5 mm)

ORDERING DETAILS

IT-HI Series Modules

Model Number	Product Flow min. gpm (m ³ /hr)	Product Flow nominal gpm (m ³ /hr)	Product Flow max. gpm (m ³ /hr)	Shipping Weight* lbs (kg)	Operating Weight lbs (kg)
IT- DS05Hi-S	1.0 (0.22)	2.0 (0.44)	3.0 (0.67)	140 (64)	79 (36)
IT- DS10Hi-S	2.5 (0.55)	5.0 (1.1)	7.5 (1.65)	180 (82)	122 (55)
IT- DS20Hi-S	4.5 (1.1)	9.0 (2.0)	13.5 (3.1)	215 (98)	161 (73)
IT- DS30Hi-S	7.5 (1.65)	15.0 (3.3)	22.5 (5.11)	286 (130)	238 (108)
IT- DS50Hi-S	11.3 (2.55)	22.5 (5.1)	33.8 (7.67)	431 (196)	325 (148)

Feed Water Specifications

Feed Water Conductivity Equivalent, including CO₂ and Silica < 40 µS/cm

Temperature 41 - 140° F (5 - 60° C)

Inlet Pressure ≤ 100psi (6.9 bar)

Maximum Total Chlorine (as Cl₂) < 0.02 ppm

Iron (as Fe) < 0.01 ppm

Manganese (as Mn) < 0.01 ppm

Sulfide (S) < 0.01 ppm

pH 4 - 11

Total Hardness (as CaCO₃) < 1.0 ppm

Dissolved Organics (TOC as C) < 0.5 ppm

Silica (SiO₂) < 1.0 ppm

Typical Module Performance

Operating Parameters

Typical Recovery 90 - 95%

Maximum Feed Pressure 100 psi (6.9 bar)

DC Voltage* 0 - 600

DC Amperage 0 - 10

Pressure Drop Range at Nominal Flow 20 - 30 psi (1.4 - 2.1 bar)

Maximum Feed Temperature 140°F (60°C)

Typical Product Water Quality

Product Conductivity < 0.1 µS/cm

Silica (SiO₂) Removal 90 - 99%, depending on feed water

Note: Actual performance may be determined using the IP-Pro projection software available from IONTECH.
* Voltage required depends on module size



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