



IONTECH® IT-DS50-S

IT-DS05-S features

- ⦿ Patented new Ion-exchange membrane
- ⦿ Improved Ion-exchange capacity
- ⦿ Improved mechanical strength
- ⦿ Lowest electrical resistance on the market
- ⦿ High quality industrial finish
- ⦿ Solid industrial product and concentrate connections
- ⦿ High exchange capacity EDI module
- ⦿ 7 bar (100 psi), 45 °C (113 °F) continuous operation
- ⦿ Module repair service

Typical Applications

- ⦿ Power Industry
- ⦿ Hydrocarbon and Chemical Process Industry (HPI/CPI)
- ⦿ Food and Beverage
- ⦿ Semiconductor and Electronics Industry
- ⦿ Pharmaceutical
- ⦿ Laboratory

Description and Use

Specially designed for industrial applications, Iontech® EDI modules can easily produce ultrapure water of consistent Ultra Pure quality, and will not be interrupted by regeneration. It is widely used in electric power, electronics, food and beverage industry and laboratories.

IT-DS50-S Module Specifications

Shipping weight	170	kg
Operating weight	148	kg
Dimensions approx (h x w x d)	665 x 320 x 778	mm
Flowrates min / nom / max	2,6 / 5,1/ 7,6	m ³ /h

Typical Performance

Product Resistivity**	> 16	MOhm•cm
Silica (SiO ₂) Removal	90 - 99	%

(Depending on feedwater conditions)

Operating Parameters

Recovery	90 - 95	%
Maximum Feed Pressure	7	bar
DC Voltage*	0 - 400	VDC
DC Amperage	0 - 6	Amp
Pressure Drop Range at Nominal Flow	1,4 - 2,1	bar

Maximum Feedwater Specifications

Feedwater source	RO permeate	
Feedwater conductivity equivalent, including CO ₂ and Silica	< 40	µS/cm
Temperature min to max	5 to 45	°C
Inlet pressure	1,4 - 7	bar
Maximum free chlorine (as Cl)	< 0,02	ppm
Iron (as Fe)	< 0,01	ppm
Manganese (as Mn)	< 0,01	ppm
Sulfide (S ²⁻)	< 0,01	ppm
Total hardness (as CaCO ₃)	< 1,0	ppm
Dissolved organics (TOC as C)	< 0,5	ppm
Silica (SiO ₂)	< 1,0	ppm
pH	4 - 11	

Quality Assurance

- ⦿ GB/T19001-2016/ISO9001:2015
- ⦿ Each module is factory tested to meet strict industry standards

* Actual performance may be determined on a projection from Iontech.

**Performance based on maximum Feed Water Conductivity Equivalent (40 µS/cm)