



## IONTECH® IT-ED45-HT

### IT-ED45-HT features

Patented new Ion-exchange membrane

- ⦿ Hot water sanitizable at 85 °C ± 5 °C
- ⦿ Continuous operation up to 6,9 bar (100 psi), 60 °C (140 °F)
- ⦿ No temperature ramp up/down required
- ⦿ Allowable Sanitization pressure 2.0 bar
- ⦿ 150+ sanitization cycles
- ⦿ Double O-ring, leak-free operation guaranteed
- ⦿ Sanitary Tri-Clamp product and concentrate connections
- ⦿ Module repair service

### Description and Use

Specially designed for pharmaceutical and biotechnology applications, Iontech® high-temperature EDI modules will easily produce ultrapure water of consistent Ultra Pure quality up to 60 °C and can be heat sanitized at 85 °C to prevent bacterial growth. Iontech® IT-HT series EDI modules are the solution for applications where chemical-free, instant ultrapure water at high temperatures is required.

### IT-ED45-HT 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 <sup>3</sup> /h

### Typical Performance

Product Resistivity**	< 0,10	μS/cm
Silica (SiO <sub>2</sub> ) Removal	90 - 99	%

(Depending on feedwater conditions)

### Operating Parameters

Recovery	90 - 95	%
Maximum Feed Pressure	6,9	bar
DC Voltage*	0 - 400	VDC
DC Amperage	0 - 6	Amp
Pressure Drop Range at Nominal Flow	1,4 - 2,1	bar

### Typical Applications

- ⦿ Food and Beverage
- ⦿ Pharmaceutical
- ⦿ Laboratory

### Maximum Feedwater Specifications

Feedwater source	RO permeate	
Feedwater conductivity equivalent, including CO <sub>2</sub> and Silica	< 40	μS/cm
Temperature min to max	5 to 60	°C
Inlet pressure	1,4 - 7	bar
Free chlorine (as Cl <sub>2</sub> )	< 0,02	ppm
Iron (as Fe)	< 0,01	ppm
Manganese (as Mn)	< 0,01	ppm
Sulfide (S <sup>2-</sup> )	< 0,01	ppm
Total hardness (as CaCO <sub>3</sub> )	< 1,0	ppm
Dissolved organics (TOC as C)	< 0,5	ppm
Silica (SiO <sub>2</sub> )	< 1,0	ppm
pH	4 - 11	

### Quality Assurance

- ⦿ CE marked
- ⦿ Each module is factory tested to meet strict industry standards
- ⦿ Wetted materials comply with FDA requirements

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

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