



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 ³ /h

Typical Performance

Product Resistivity**	< 0,10	μS/cm
Silica (SiO ₂) 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 ₂ and Silica	< 40	μS/cm
Temperature min to max	5 to 60	°C
Inlet pressure	1,4 - 7	bar
Free chlorine (as Cl ₂)	< 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

- 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)