


**Water
Treatment**

Electrodeionization

TEDI 1H

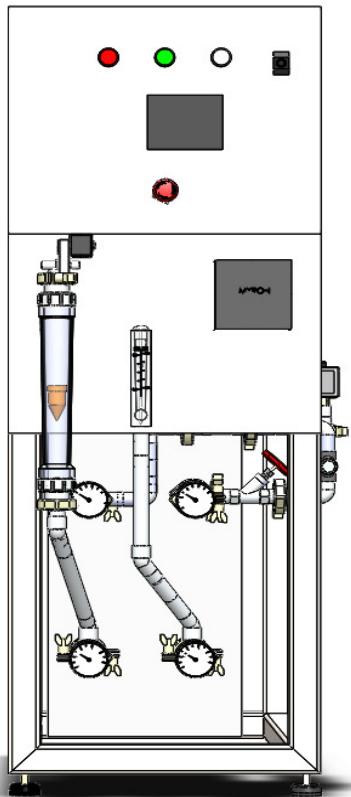
Series TEDI 1H

Electrodeionization unit (suitable for hot sanitization)

100 – 2000 lt/hr

Applications :

- Heat and power plants (boiler water)
- Pharmaceutical industry (process water)
- Electronics industry (process and rinse water)
- Hospitals and laboratories (process water)
- Chemical industry (process water)
- Cosmetics industry



Design Parameters

Inlet Conductivity	<10 µS/cm
pH	5 – 9.5
Total Hardness	< 1 ppm CaCO ₃
Max inlet water temperature	< 45°C
Pretreatment	Single or double pass RO
Pressure drop	2-3 bar
Maximum operating pressure	5 bar

Basic Equipment

- Module EDI
- Product flowmeter
- Drain flowmeter
- Flow/pressure regulating valves
- Pressure gauges at inlet- outlet EDI
- Pressure switch EDI
- 3 way quality valve of product water
- Resistivity meter

Electrical & control panel (contains EDI DC power supply)

- Automation with PLC SIEMENS S7-1200
- Touch screen 4,3" equiped with :
 - ✓ Built in Ethernet port
 - ✓ 1 port COM / 1 expansion COM port
 - ✓ USB port Host/Client

Materials of Construction

- Stainless steel frame 304
- Piping : stainless steel 316L

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Special Features

- Continuous operation
- Low operational cost
- No hazardous chemicals for regeneration
- High product water resistivity up to 18 MΩ
- High recovery($\geq 90\%$)
- **Hot sanitization up to 85°C**
- Triclamp fittings

Technical Specifications – Dimensions

Model	Production		Recovery	Weight (Kg)	Installed Power (kw)	Voltage of operation (AC)
	lt/h					
TEDI 11H	100 – 200		$\geq 90\%$	38	1	230VAC , 50/60 Hz
TEDI 12H	300 – 500		$\geq 90\%$	47	2	230VAC , 50/60 Hz
TEDI 13H	600 - 1000		$\geq 90\%$	50	2	230VAC , 50/60 Hz
TEDI 14H	1300 - 2000		$\geq 90\%$	60	3	230VAC , 50/60 Hz

Model	Connections (DN)			Dimensions (mm)		
	Inlet (triclamp connection)	Outlet (triclamp connection)	Drain(triclamp connection)	Length (mm)	Width (mm)	Height (mm)
TEDI 11H	DN15	DN15	DN15	600	540	1500
TEDI 12H	DN15	DN15	DN15	600	540	1500
TEDI 13H	DN20	DN15	DN15	600	540	1500
TEDI 14H	DN25	DN20	DN20	600	540	1500