



**Water
Treatment**



Electrodeionization



TED 1

TEDI 1 Series

Electrodeionization unit

100 – 2000 lt/hr



- 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 CaCO3
Max inlet water temperature	35°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
- Piping waitings for easy CIP plugging

Electrical & control panel

(contains EDI DC power supply)

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

Materials of Construction

- Stainless frame 304
- PVC piping , PN16 atm

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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($\geq 90\%$)

Technical Specifications – Dimensions

Model	Production		Recovery%	Weight (Kg)	Installed Power (kw)	Voltage of operation (AC)
	lt/h					
TEDI 11	100 - 200		$\geq 90\%$	28	1	230VAC , 50/60 Hz
TEDI 12	300 - 500		$\geq 90\%$	37	2	230VAC , 50/60 Hz
TEDI 13	600 - 1000		$\geq 90\%$	40	2	230VAC , 50/60 Hz
TEDI 14	1300 - 2000		$\geq 90\%$	50	3	230VAC , 50/60 Hz

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