



FRACTIONAL ELECTRODEIONIZATION FEDI-2HF MEGA SPECIFICATIONS

FEDI® stacks are designed to produce high purity water up to 18 MΩ.m using a patented process with double sets of electrodes per stack. FEDI® replaces mixed bed technology and produces pure water continuously without the use of regeneration chemicals. Applications include the semiconductor, power, food & beverage and pharmaceutical industry.



Features FEDI-2HF

The stacks are designed for operation after double pass reverse osmosis. The stack has ability to produce high purity water with high flow rate using “Split Flow EDI” technology.

- High stack flow up to 17 m³/hr (75 gpm)
- No concentrate recirculation
- High recovery
- Meets water specifications for high pressure boilers and turbines

Stack Flows:

Parameters	Unit	30X
Typical Product Flow	m ³ /hr gpm	13.6 60
Maximum Product Flow	m ³ /hr gpm	17 75
Minimum Product Flow	m ³ /hr gpm	9 40
Max. Concentrate Flow (Conc. -1 + Conc. -2)	m ³ /hr gpm	1 4.4
Electrode Rinse Flow	m ³ /hr gpm	0.2 0.88

Electrical Single Voltage Operation:

Parameters		Unit	30X
Voltage	Typical	VDC	175
Voltage	Maximum	VDC	400
Current 1/Current 2 Typical		Amp.	8
Current 1/Current 2 Maximum		Amp.	12

Operating Conditions:

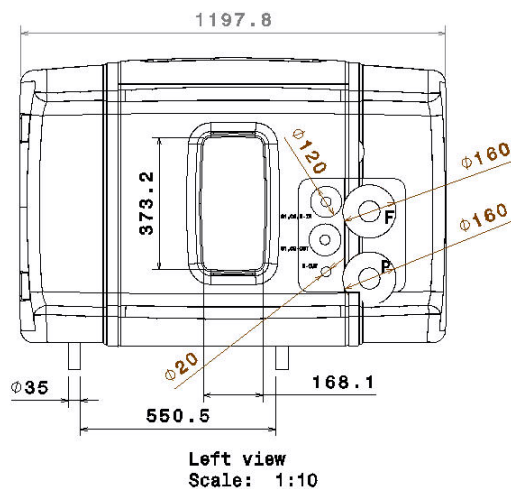
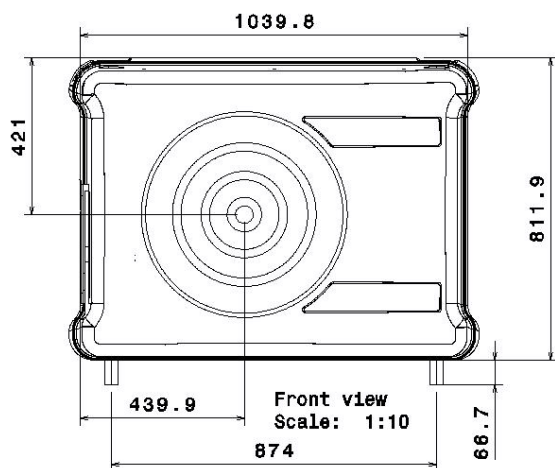
Parameters	Unit	30X
Recovery	%	up to 95
Feedwater Temperature	°C °F	10 – 40 50 – 100
Pressure Drop (Feed to Product) @ Typical Flow	bar psi	1.4 – 2.1 30 -40
Max. Operating Pressure	bar psi	6.9 100

Feedwater Specifications:

Parameters	Unit	Specifications
Feed Conductivity Equivalent (FCE) (Including CO ₂) *	μS/cm	< 20
pH		6 – 10
Silica (reactive)	ppm	< 0.2
Total Hardness as CaCO ₃	ppm	< 0.2
TOC	ppm	< 0.5
Heavy Metals (Fe, Mn etc.)	ppm	< 0.01
Free Chlorine as Cl ₂	ppm	< 0.05
Feedwater SDI		<1.0

* Feed Conductivity Equivalent, FCE, (μS/cm) = Feedwater conductivity (μS/cm) + ppm CO₂ x 2.83 + ppm SiO₂ x 2.08.

FEDI-2HF MEGA DRAWINGS



All measurements shown are in mm

Product Water Specifications:

Parameters	Unit	Specifications
Product Resistivity	MΩ.cm	10-16
Silica (reactive)	ppb	<10 - 50

Weight & Dimensions:

Parameters	Unit	30X
Weight (per Stack)	kg	300
	lbs	660
Shipping Weight (per Stack)	kg	390
	lbs	858
Length	mm	1040
	inch	40.94
Width	mm	1098
	inch	43.23
Height	mm	812
	inch	31.97

The above information provides the general characteristics and description of FEDI® stack. We believe that the above information is correct as of this printing. However, the content of this datasheet might be subject to changes with further development of the product. Make sure FEDI® stacks are operated according to Operation and Maintenance guidelines. Contact us for assistance in selection of FEDI® stacks for your application.

For additional information and local contacts: sales@quagroup.com or www.quagroup.com