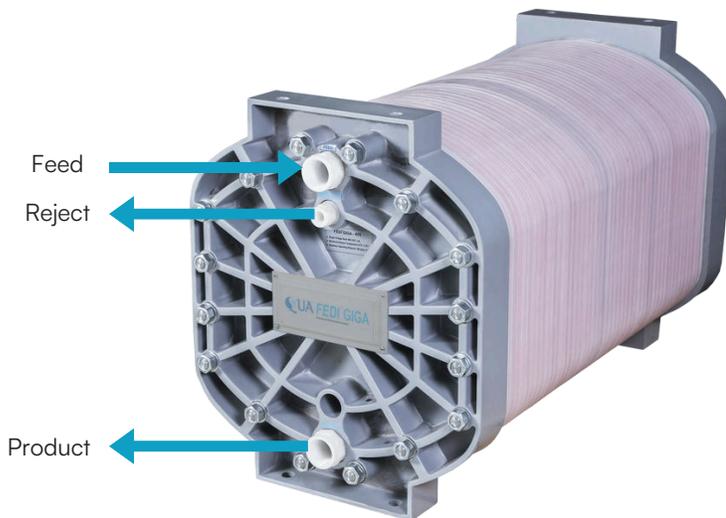


FEDI[®]GIGA

Low Footprint, High Flow



The QUA FEDI[®] GIGA is a next-generation fractional electrodeionization technology that is designed to produce ultrapure water with a high flow capacity while requiring a low footprint. It can minimize associated piping and instruments due to its unique port design feature that is one inlet and two outlet ports. It is the first electrodeionization stack with three ports - Feed, Product & Reject.



FEDI GIGA Specifications – STACK FLOWS

Parameter	Unit	30X	45X
Typical Product Flow	m ³ /hr gpm	8* 35	12* 53
Maximum Product Flow	m ³ /hr gpm	10 44	15 66
Minimum Product Flow	m ³ /hr gpm	6 27	9 40
Maximum Reject Flow	m ³ /hr gpm	0.9 4	1.5 6.6
Minimum Reject Flow#	m ³ /hr gpm	0.32 1.41	0.50 2.20

*Flow should be kept within these ranges for optimal performance

*Depending upon feed water hardness, to be confirmed by FEDI Engineering Tool

#Under specific feed conditions, refer to FEDI engineering tool

FEDI GIGA Specifications – FEED WATER

Parameter	Unit	Specification
Feed Conductivity Equivalent (FCE) (with CO₂) *	μS/cm	<40
pH		6-9
Silica (Reactive)	ppm	< 1.0
Total Hardness as CaCO₃	ppm	< 1.0
TOC	ppm	< 0.5
Heavy Metals (Fe, Mn, etc)	ppm	< 0.01
Free Chlorine as Cl₂	ppm	< 0.05
Feed Water SDI		< 1.0

*Feed Conductivity Equivalent, FCE, (μS/cm) = Feed water conductivity (μS/cm) + ppm CO₂ x 2.83 + ppm SiO₂ x 2.0

FEATURES

- High flow per stack - up to 15 m³/hr (66 gpm)
- Minimum ports — Feed, Product & Reject
- Minimum piping & instrumentation
- Single voltage operation
- Ultra-pure water quality up to 18.2 MΩ.cm
- Silica and Boron removal up to 99%
- Low footprint
- CE Certified **CE**

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FEDI GIGA PRODUCT WATER SPECIFICATIONS

Parameter	Unit	Specification
Product Resistivity	M Ω .cm	Up to 18
Silica (SiO ₂) Reduction	%	Upto 99*
Boron Reduction	%	Upto 99*

*Under specific feed conditions, refer to FEDI engineering tool

FEDI GIGA ELECTRICAL OPERATION

Parameter	Unit	30X	45X
Voltage Typical	VDC	250	350
Voltage Maximum	VDC	500	600
Current Typical	AMP	9	
Current Maximum	AMP	12	

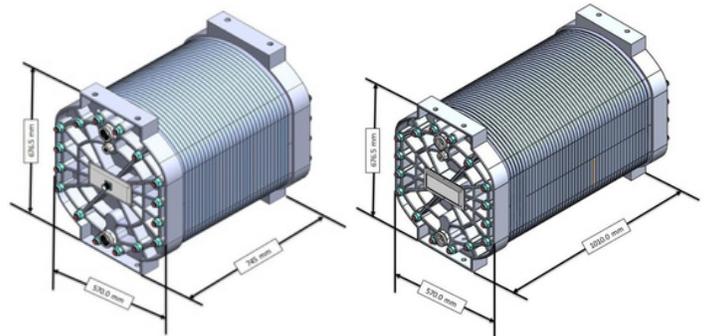
FEDI GIGA STACK DIMENSIONS

Parameter	Unit	30X	45X
Weight (Per Stack)	Kg Lbs	280 617	350 772
Shipping Weight (Per Stack)	Kg Lbs	380 838	450 992
Length	mm inch	745 29.03	1010 39.8
Width	mm inch	570 22.44	570 22.44
Height	mm inch	676.5 26.63	676.5 26.63

FEDI GIGA OPERATING CONDITIONS

Parameter	Unit	30X/45X
Recovery	%	Up to 95*
Feed Water Temperature	°C °F	5 - 40 41 - 104
Pressure Drop (Feed to Product) @ Typical Flow	bar psi	1.4 - 2.0 20 - 30
Recommended Operating Pressure	bar psi	< 4.8 < 70
Maximum Feed Pressure	bar psi	7 100

* Under specific feed conditions, refer to FEDI engineering tool



FEDI GIGA (30X)

FEDI GIGA (45X)



FEDI GIGA PORTS