



## LENNTECH

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### RALEX® EDI STACK MPure™ 36

#### **APPLICATION:**

MPure™ electrodeionization (EDI) stacks are used for the production of high purity water for the power, semiconductor and chemical industry.

EDI produces high purity water continuously without the use of hazardous regeneration chemicals required for a mixed bed process.

#### **DESCRIPTION:**

MPure™ stacks are building on MEGA's ion-exchange membrane manufacturing capability and extensive electroseparation experience. All stacks include RALEX® ion exchange membranes developed by MEGA.

The novel MPure<sup>TM</sup> stack produces 16 to 18 M $\Omega$ -cm product water quality at very high recovery. These stacks are designed to replace mixed bed ion exchange at flow rates from 5 to 500 m<sup>3</sup>/h (20 to 2000 gpm) and beyond.

#### **FEATURES:**

- Stack interconnection capability for low cost system construction
- High flow rate blocks, flows up to 45 m³/h (200 gpm) per block
- High deionization with recovery up to 97.5 %
- Robust design: no internal or external leaks
- Small footprint: ideal for operation inside containers
- Voltage stability
- Effective replacement for competing EDI technology
- Complete OEM engineering package



MPure™ 36 stack











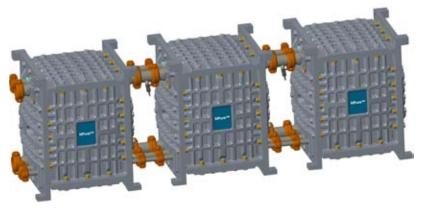


Physical Specifications		
Number of cell pairs		36
Dimensions (W×H×D)		582×802×697 mm (22.9×31.6×27.4 inch)
Shipping weight		330 kg (728 lbs)
Operating weight		350 kg (772 lbs)
Hydraulic Connections	D	2½" (73 mm) victaulic
	С	1¼" (42.4 mm) victaulic
	E	³¼" (29.6 mm) victaulic

Typical Performance			
Flow nominal	10 m <sup>3</sup> /h (44 gpm)		
Flow maximum	15 m³/h (66 gpm)		
Flow minimum	5 m³/h (22 gpm)		
Concentrate flow	> 0.3 m <sup>3</sup> /h (> 1.3 gpm)		
Electrode flow	> 0.1 m <sup>3</sup> /h (> 0.4 gpm)		
Recovery	< 97.5 %		
Feed pressure	< 7 bar (< 102 psi)		
Pressure drop D at nominal flow	1.3–2.3 bar (19–33 psi)		
Pressure difference D>C	> 0.3 bar (> 4 psi)		
Temperature	5-40 °C (41-104 °F)		
Current	< 16 A		
Voltage	< 300 V		
Product water quality	> 16 MΩ·cm*		
Silica removal	> 96 %		

Feed Water Limitation			
< 25 ppm as CaCO <sub>3</sub>			
RO permeate or better			
< 0.01 ppm Cl <sub>2</sub>			
N.D.			
< 0.01 ppm			
< 0.01 ppm H <sub>2</sub> S			
N.D.			
< 0.1 NTU			
< 1			
4–10			
< 1 ppm as CaCO <sub>3</sub>			
< 0.5 ppm TOC			
< 1.0 ppm SiO <sub>2</sub>			

<sup>\*</sup> Actual performance will depend on site conditions. Please use MEGA's software to determine actual performance.



Block of MPure™ 36 stacks

#### **AUTHORISED PARTNER**

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