

# MEMBRANE DECARBONATOR

CO<sub>2</sub> REMOVAL  
WITHOUT CHEMICALS



WITH

**Liqui-Cel**<sup>®</sup>  
MEMBRANE CONTACTORS

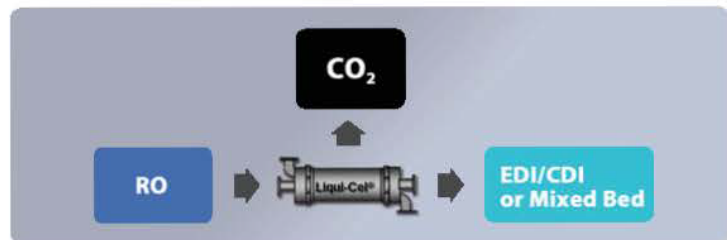
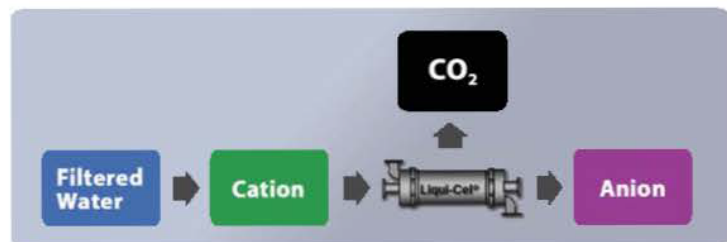
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## Simple, High Efficiency Decarbonation For Small Water Deionization Systems

- ▶ Cut Resin Regeneration Frequency
- ▶ Reduce Chemical Use
- ▶ Improve Water Quality in EDI/CDI Systems
- ▶ Low Operating Costs
- ▶ Easy Setup
- ▶ Quick Payback



Dimensions: 51cm (20") W x 69cm (27") D x 163cm (64") H  
Weight: 87kg (190lbs.)



### ANNUAL DI WATER SYSTEM REGENERATION COST COMPARISON

	NaOH <sup>1</sup> Use (ton)	HCl <sup>2</sup> Use (ton)	Service <sup>3</sup> Water Use (m <sup>3</sup> )	ANNUAL OPERATING COST
Without Membrane Decarbonator	28	17	4,725	\$24,698
With Membrane Decarbonator	21	14	3,710	\$19,068
<b>Savings up to</b>				<b>\$5,630</b>

All units are in metric.

System Design: 10m<sup>3</sup>/hr (44gpm) regenerated 1 time/day

1) NaOH Cost: USD \$330/ton 2) HCl Cost: USD \$260/ton 3) Filtered Water Cost: \$2.10 per m<sup>3</sup>  
Includes rinsing water and chemical dilution water



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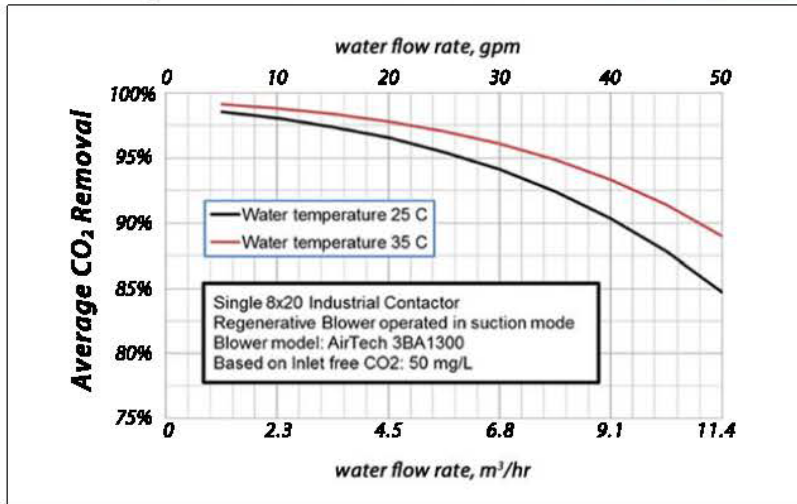
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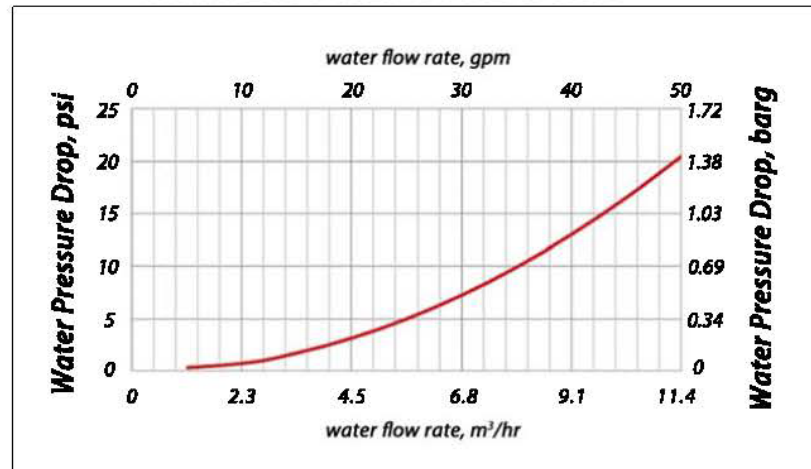


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## CO<sub>2</sub> REMOVAL PERFORMANCE



## SYSTEM PRESSURE DROP



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