

PX-120B



The Most Cost Effective Decision You Can Make.

Finally, there is an energy recovery system efficient enough for low-pressure brackish water and tap water RO systems with operating pressures of up to 400 psi.

ERI's PX-B technology is the most efficient reverse osmosis energy recovery device available. Using the principle of positive displacement to transfer energy from the reject stream directly to the feed stream, the PX-120B has a real net transfer efficiency up to 91%.

The PX-120B can save you up to 35% on energy expenses, reduce your cost of operations and update your plant to be more environmentally beneficial. Unlimited flow rates can be accommodated by arranging multiple units in parallel.

The product is extremely reliable with virtually no wear and no scheduled maintenance requirements. Victaulic® grooved connections allow for easy installation, and a seamless system retrofit or expansion. The PX model is the first and only positive displacement unit to have been simplified down to one moving part.

ERI is the industry leader in ultra-high efficiency positive displacement technology. There are more ERI units installed worldwide than any other high efficiency energy recovery device. ERI's technology has set the new international standard for energy efficiency.



Contact ERI for more information

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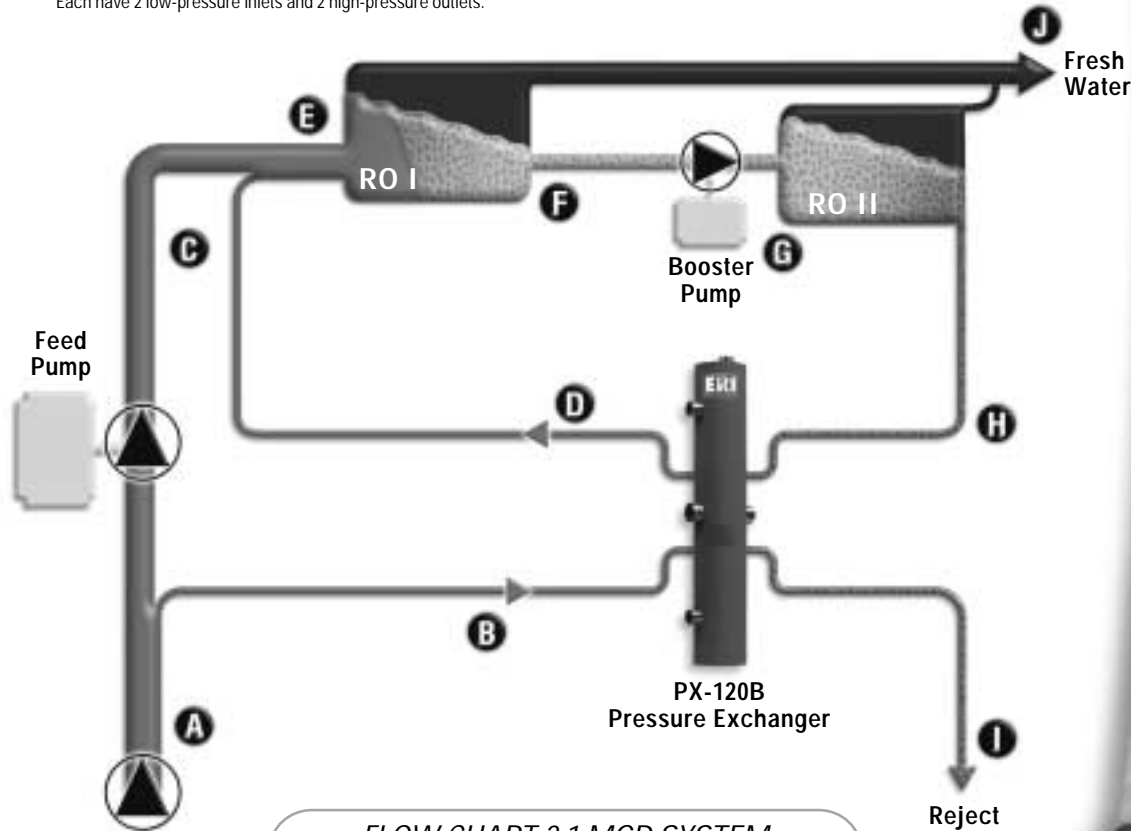
Standard Features

- Aluminum Oxide Ceramic and PVC internal components
- FRP pressure vessel housing for maximum 400 psi system pressure
- 316SS Fittings
- Victaulic® grooved connections for easy installation

Specifications

Model	gpm (m3/hr)	Interface Connections Diameters in inches				Overall Dimensions inches	Dry Weight pounds
		LP In	LP Out	HP In	HP Out		
PX-15B	10-15 (2.3-3.4)	1.5	1.5	1	1	6 x 9 x 29.5	37
PX-25B	15-25 (3.4-5.7)	1.5	1.5	1	1	6 x 9 x 29.5	37
PX-40B	25-40 (5.7-9.1)	1.5	1.5	1	1	6 x 9 x 29.5	37
PX-60B	40-60 (9.1-13.6)	1.5	1.5	1	1	6 x 9 x 29.5	37
PX-90B	60-90 (13.6-20.4)	1.5*	2	2	1.5*	6 x 9 x 39.5	90
PX-120B	90-120 (20.4-27.3)	1.5*	2	2	1.5*	6 x 9 x 39.5	90
PX-140B	120-140 (27.3-31.8)	1.5*	2	2	1.5*	6 x 9 x 39.5	90
PX-150B	140-150 (31.8-34.1)	1.5*	2	2	1.5*	6 x 9 x 39.5	90

*Each have 2 low-pressure inlets and 2 high-pressure outlets.



FLOW CHART 2.1 MGD SYSTEM

	A	B	C	D	E	F	G	H	I	J
Flow (gpm)	2000	490	1510	490	2000	1000	1000	500	500	1500
Pressure (psi)	20	20	175	175	175	155	210	190	5	0

A combination of a PX and a booster pump increases second pass productivity and product quality, while saving 12-35% on energy costs.



THE NEW STANDARD

Up to **91%**

EFFICIENCY

Simple ROI Analysis

	Std	ERI
Feed pump efficiency	83%	83%
Feed pump motor efficiency	94%	94%
Feed pump power, kW	172.9	130.3
Boost pump efficiency	80%	80%
Booster pump motor efficiency	94%	94%
Booster pump power, kW	23.2	31.8
kWh/1000 gal	2.19	1.82

Annual Savings @ 0.06/kWh

US\$ 17,500.00/year

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