



PX PowerTrain

System

The PX PowerTrain™ line of pre-engineered energy recovery solutions combine Energy Recovery's award-winning PX® Pressure Exchanger® (PX) devices with frame support and ancillary equipment into a compact, ready to install high-performance energy recovery device (ERD) array package for your seawater reverse osmosis (SWRO) train. Designed by Energy Recovery's technical experts, the PX PowerTrain combines optimized flow paths with our core PX technology to streamline ERD array installation while maintaining industry-leading quality standards.

Each PX PowerTrain model is designed according to Energy Recovery's strict guidelines for PX operation and performance optimization. Each model accommodates a wide range of system conditions to accommodate fluctuations in operating parameters and production demand, which provides unmatched flexibility in a compact, ready-to-install package.

These pre-engineered designs, optimized for various SWRO train capacities, allow you to save time and resources through the purchase of one product from a single trusted supplier and streamlined installation with just four connection points.

The PX PowerTrain can be combined with Energy Recovery's SWRO pumps for an end-to-end pumping and ERD solution.

PX PowerTrain BENEFITS


- When coupled with our SWRO pumps, a complete end-to-end ERD solution
- Pre-designed ERD and frame support for ease of installation
- Designed according to Energy Recovery guidelines to ensure optimal PX operation
- Work with a single trusted supplier from design to installation

Product FEATURES

- Includes our award winning PX Pressure Exchanger technology
- Train production capacity ranges from 3,000 to 13,000 cubic meters per day (CMD)
- On-site commissioning support available
- Compact and rugged structural support for PX Pressure Exchanger
- 3D models available for easy integration into plant design



THE PX POWERTRAIN PRODUCT LINE

Model	Flow Capacity	Nominal SWRO Train Capacity*	Manifold Size	Material	Design Layout	
PX PT1200	m3/h: 182 – 273	CMD: 4,000	LP: 8 inch DN200	LP: Polypropylene	Train	
	GPM: 800 – 1200	MGD: 1.05	HP: 8 inch DN200	HP: Superduplex	U-flow	
PX PT1500	m3/h: 227 – 340	CMD: 5,000	LP: 8 inch DN200	LP: Polypropylene	Train	
	GPM: 1000 – 1500	MGD: 1.32	HP: 8 inch DN200	HP: Superduplex	U-flow	
PX PT1800	m3/h: 273 – 410	CMD: 6,000	LP: 10 inch DN250	LP: Polypropylene	Train	
	GPM: 1200 – 1800	MGD: 1.58	HP: 10 inch DN250	HP: Superduplex	U-flow	
PX PT2400	m3/h: 363 – 545	CMD: 8,000	LP: 10 inch DN250	LP: Polypropylene	Cell	
	GPM: 1600 – 2400	MGD: 2.11	HP: 10 inch DN250	HP: Superduplex	U-flow	
PX PT3000	m3/h: 455 – 682	CMD: 10,000	LP: 12 inch DN300	LP: Polypropylene	Cell	
	GPM: 2000 – 3000	MGD: 2.64	HP: 10 inch DN250	HP: Superduplex	U-flow	

* Based on PX system mid flow and 43% recovery rate



<<< **OPTIONAL VPXP CIRCULATION PUMP**

For more information on our products please visit energyrecovery.com