PX POWERTRAIN SYSTEM

The PX PowerTrain™ pre-engineered energy recovery solution combines Energy Recovery's trusted 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.

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 starting from 3000 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 GPM: 1000 – 1500	CMD: 4,000 MGD: 1.05	LP: 8 inch DN200 HP: 8 inch DN200	LP: Polypropylene HP: Superduplex	Train U-flow	
PX PT1500	m³/h: 227 – 340 GPM: 1000 – 1500	CMD: 5,000 MGD: 1.32	LP: 8 inch DN200 HP: 8 inch DN200	LP: Polypropylene HP: Superduplex	Train U-flow	
PX PT1800	m³/h: 273 – 410 GPM: 1200 – 1800	CMD: 6,000 MGD: 1.58	LP: 10 inch DN250 HP: 10 inch DN250	LP: Polypropylene HP: Superduplex	Train U-flow	
PX PT2400	m³/h: 363 – 545 GPM: 1600 – 2400	CMD: 8,000 MGD: 2.11	LP: 10 inch DN250 HP: 10 inch DN250	LP: Polypropylene HP: Superduplex	Cell U-flow	
PX PT3000	m³/h: 455 – 682 GPM: 2000 – 3000	CMD: 10,000 MGD: 2.64	LP: 12 inch DN300 HP: 10 inch DN250	LP: Polypropylene HP: Superduplex	Cell 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**

energy recovery®

April 2025