



PX Q Series

Quiet design. Leading PX[®] Pressure Exchanger[®] performance. Now available in more capacities.

For over 20 years, we've enhanced our PX technology to meet rapidly evolving customer needs. We're taking the next step with an expanded PX Q Series, which delivers minimal noise levels alongside the best-in-class performance and efficiency that customers expect from our flagship PX product line. The Q220, Q180 and Q140 models join the Q300 and Q260 to serve a broader range of plant sizes. A vital component of a Sea Water Reverse Osmosis (SWRO) system, the PX enables the most cost-efficient process for seawater desalination.

PX Q Series BENEFITS

QUIET OPERATION

Less than 79 decibels¹ with no pressure pulsations

PERFORMANCE

Best in class performance of any PX product line

HIGHEST UPTIME

Most reliable ERD in the market (99.8% uptime)

LONG LIFE

Industry leading 5-year standard warranty, 25-year design life

ROBUST DESIGN

No controls, no electronics, zero scheduled maintenance

AUDIBLE IMPROVEMENT

Operational sound levels below 79 decibels to enhance the working environment and safety of water treatment plants

REDUCED MIXING

Further reduction in fluid mixing² from an already negligible level, resulting in lower membrane feed salinity and pressure and increasing desalination system performance

INDUSTRY LEADING EFFICIENCY

Unparalleled efficiency for energy recovery devices, up to 98%; a core benefit of all PX products

¹1000 PSI 15 PSI BP, mid flow, ISO 3744

²Compared to standard PX models

THE PX Q SERIES PROMISE

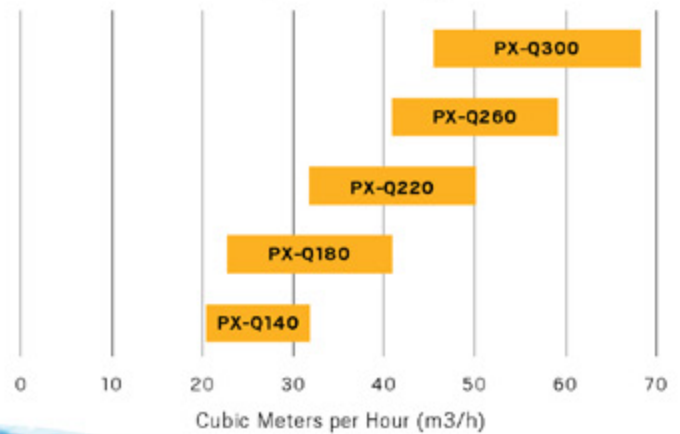
Resorts, cruise ships and manufacturers increasingly use in-house water treatment systems to ensure access to high quality potable water bringing desalination systems into the heart of densely populated areas. With operational sound levels below 79 decibels, the PX Q Series improves the environment for nearby guests and workers by helping to keep desalination facilities discrete. The PX also delivers industry-leading uptime and energy savings, meaning crucial resources can be allocated elsewhere.



THE PX Q SERIES MODELS AND COVERAGE

The PX's modular design means flexibility. Our PX technology is found in desalination plants of all sizes, from small capacity mobile marine applications to many of the world's largest municipal water treatment plants. PX units can be deployed in parallel arrays to accommodate any plant capacity.

PX Q Series Flow Range



HOW THE PX PRESSURE EXCHANGER WORKS

The PX directly applies hydraulic energy from the high pressure reject stream of SWRO processes to incoming low pressure seawater. With only one moving part driven by fluid pressure and a direct fluid to fluid energy transfer, nearly all unused hydraulic energy is recirculated in the SWRO process minimizing the overall energy necessary to desalinate seawater. High strength, abrasion resistant and corrosion proof alumina ceramic internals provide a 25-year design life.

Energy Recovery's groundbreaking PX Pressure Exchanger is the most widely used energy recovery device in the world. With over 19,000 installations across seven continents, our technology saves customers \$1.9 billion (USD) annually.