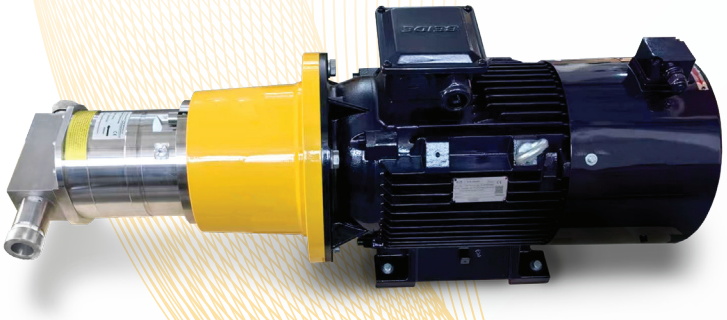
CPXP™ AXIAL PISTON PUMP

Compact. Durable. Efficient.



The CPXP axial piston pump is a positive displacement pump purpose-built for high pressure and corrosive environments. Designed with a compact footprint and robust Super Duplex construction, it is the ideal pumping solution for small to mid-scale reverse osmosis (RO) systems in both water and wastewater treatment.

KEY FEATURES AND BENEFITS

- **Compact and lightweight:** Perfect for space-constrained installations, such as marine and hospitality applications, and containerized or modular RO systems
- **Durable materials:** Super Duplex Stainless Steel and advanced polymers for high reliability
- **Low maintenance:** Lubricated by pumped fluid and reduced downtime due to longer service intervals
- **High efficiency:** Designed for superior performance across a wide range of flow rates
- **Quiet and reliable:** Proven design ensures stable operation without the need for pulsation dampeners
- **Ideal for PX® and turbocharger pairing:** The perfect complement to the PX® Pressure Exchanger® and turbocharger energy recovery devices, delivering maximum efficiency and cost savings

FLOW RANGE

- **Small:** 0.35–3.5 m³/h (1.5–15.4 gpm)
- **Medium:** 3.5–22.0 m³/h (15.4–96.9 gpm)
- **Large:** 22.0–36.0 m³/h (96.9–158.5 gpm)

PRESSURE RANGE

- Works for discharge pressures from 20-83 bar (290-1200psi)

COMPACT POWER, BUILT TO LAST

The CPXP pump is ideal for any application where space is limited and high performance is valued. Built from Super Duplex Stainless Steel and advanced polymers, the pump resists corrosion even under harsh feedwater conditions.

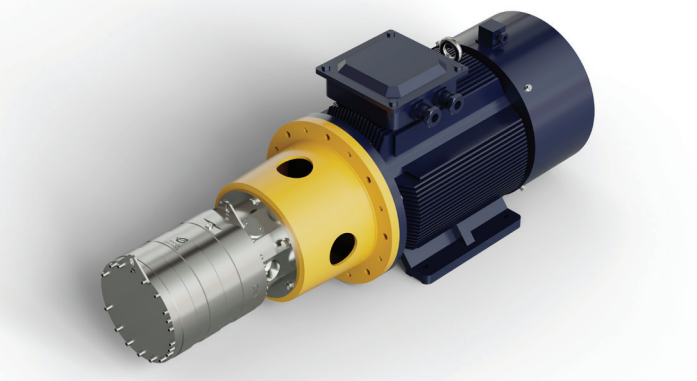
DESIGNED FOR SIMPLICITY

The CPXP pump eliminates oil lubrication, reducing contamination risk and maintenance needs. Its self-lubricating piston design enables long operating intervals, requiring low maintenance for reliable operation. CPXP pumps can also be easily installed in parallel to achieve higher flow rates.

Fast and Easy Repair: If part replacement is needed, standard inspection is quick and parts are easily replaceable, minimizing downtime. Shaft alignment is not required and we also support first time installation.

RELIABILITY YOU CAN COUNT ON

Energy Recovery's CPXP pumps undergo rigorous quality control, including destructive raw material testing, functional performance testing, and final reliability checks. Certified to ISO 9001:2015 standards, each pump is built to deliver consistent, dependable performance.



IDEAL FOR PAIRING WITH PX® PRESSURE EXCHANGER® AND TURBOCHARGER

Pairing the CPXP with our PX Pressure Exchanger or turbocharger creates a high efficiency pumping and energy recovery solution, which reduces the overall specific energy consumption of the RO system. This pairing reduces both operating and capital costs of small to mid-sized RO systems.

Energy Recovery (Nasdaq: ERII) designs and manufactures world-class energy-saving technology for critical infrastructure that communities rely on every day, driving a more resilient and sustainable future. Grounded in more than 30 years of leadership in the desalination industry, today we use our proprietary pressure exchanger technology to help customers in multiple industries improve their operations and lower their emissions. Headquartered in the San Francisco Bay Area, we operate manufacturing and R&D facilities throughout California, with sales and on-site technical support available globally. For more information, please visit www.energyrecovery.com.

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