



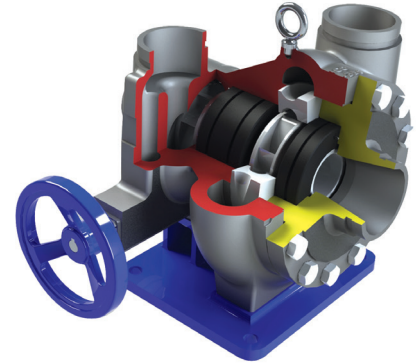
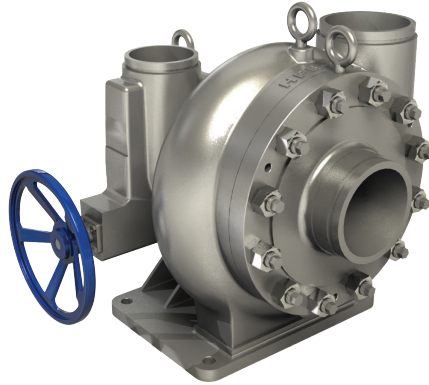
Making fluid energy work for you™



Hydraulic Pressure Booster - Turbocharger ERD

Benefits:

- ✓ Fully Custom Engineered
- ✓ Self Regulating Energy Recovery
- ✓ Compact Footprint
- ✓ Resilient Design
- ✓ Reduces Total Cost of Water



Model	Flow Rate	Pressure Rating
HPB™	10-2800 m³/h	<83 Bar
HPB Boosted™	20-2800 m³/h	<83 bar

Turbocharge your RO

- Efficient, Reliable Energy Recovery up to 124 bar
- Reduce Footprint, Energy, and Capex Inputs Requirements
- Reduce pump and motor requirements

Unlock Optimal Designs

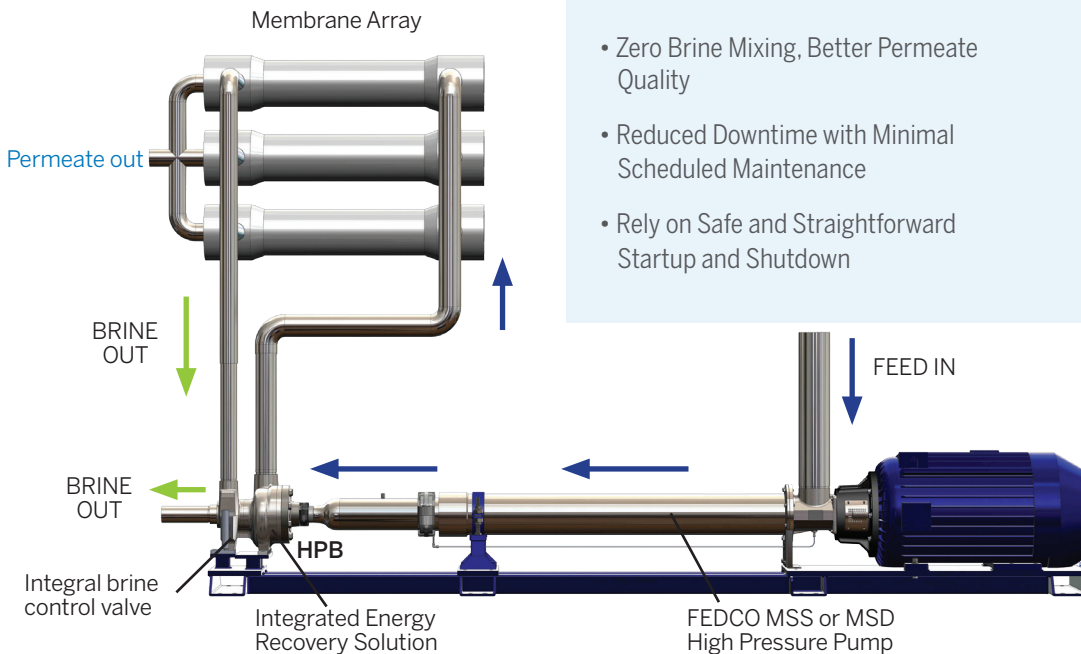
- Custom Engineered for Better RO System Performance
- Enables Simple RO Configurations with No Feed Splitting
- Increase Duty Points with Self Regulating Energy Recovery

Built for Resilience

- Zero Brine Mixing, Better Permeate Quality
- Reduced Downtime with Minimal Scheduled Maintenance
- Rely on Safe and Straightforward Startup and Shutdown

Get Up and Running—Fast

- Short Lead Times
- Simple Installation and Minimal Operator Training
- Rapid Commissioning



Global Service and Support

- Spare parts delivered fast
- Installation and commissioning
- Operator training
- Technical assistance
- On-site or off-site service
- Loaner rotor program

Innovative Technology

- Fully custom engineered products
- One piece rotor
- CFD optimized multi-vane diffuser
- Rotor Flo™ patented lubrication
- No external tubing or auxiliary equipment
- Super Duplex Construction



83+%
EFFICIENCY

FEDCO HPB-2800 model can handle flows in excess of 1,600 m³/h, shown with flange and actuator options.



Whether it is field operating log sheet data or precision test stand data, the HPB displays the highest average efficiency of any turbocharger ERD. Fully machined rotors, and CFD optimized hydraulic design makes the difference.

Hydraulic Pressure Booster Turbocharger Energy Recovery Device (ERD)

OPERATING ENVELOPE

Capacities: 5-3460 m³/h (22-15,234 gpm)

Pressure: <124 bar (1800 psi)

Liquid: Seawater, brackish water, potable water, concentrate (20 microns)

Temperature: Up to 40 degrees C

MATERIALS

Casing: Duplex SS, Super Duplex SS

Rotor: Duplex SS, Super Duplex SS

Bearings: Non-metallic

Pipe Connections: Grooved End

3 Year Warranty

OPTIONS

Flanged Connections

High Pressure Option

Automated Brine Control

*Contact FEDCO for your custom option requirements

REVERSE OSMOSIS APPLICATIONS

Seawater and Brackish Water	Marine
Industrial/Municipal	Oil & Gas
Interstage Pressure Boosting	Produced Water
Hotels/Islands/Resorts	Water Reuse

RETROFITS

Contact FEDCO to upgrade your existing reverse osmosis desalination plant to state-of-the-art pumps and energy recovery devices.

FEDCO has a broad range of feed pumps, booster pumps, and energy recovery devices for seawater and brackish water reverse osmosis applications.



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