

Hydraulic Pressure Booster (HPB™)

Operating Parameters

Model *	HPB-350	
Liquid	Seawater, Brackish water, Fresh Water	
Pump Operating Ambient Temp	33 - 158 °F	0.6 - 70.0 °C
Maximum Storage Temp	185 °F	85.0 °C
Minimum Pump-Side Flow	771 gpm	175 m³/h
Maximum Pump-Side Flow **	2003 gpm	455 m³/h
Maximum Operating Pressure	1200 psi	83 bar
Nominal Vibration	≤3.8mm/sec RMS	≤0.15"/sec RMS
Nominal Sound	<85 bBA	
Brine Outlet Pressure	Varies upon design	
Filtration Requirement	20 microns	

* Subject to international patent applications

** Range may vary

Performance

Maximum Boost Pressure	Contact FEDCO for specific data
Standard Efficiency	Up to 76%
Optional High Efficiency Unit	Up to 79%
Brine/Feed Mixing	None

Materials

Rotor	Super Duplex SS S31803 ASTM A276/479
Bearings	Non-metallic
Casing (Inlet/Discharge)	Super Duplex SS ASTM A995-13 6A
Fasteners	316 SS S31600 ASTM A193/A320/F593
O-Rings	Buna N®
Diffuser	Super Duplex SS S32750 ASTM A890
Eye Bolts	316 SS S31600 ASTM A193/A320/F593
Baseplate	Carbon Steel - Painted ASTM A36
Crating/Packaging	Export-Wood

Miscellaneous

Foundation	Per FEDCO supporting docs
Nozzle Loading	Per FEDCO supporting docs
Pipe Flushing	Per FEDCO supporting docs
Instrumentation Requirements	Per FEDCO supporting docs
Membrane Cleaning	Per FEDCO supporting docs
Check Valve Location	Per FEDCO supporting docs
Aux Valve Actuator	Manual or FEDCO supply

Packaging/ Crating

Protective Covers	Standard	
Export Crating	Standard	
Additional Shipping Options	Available per customer requirements	
Unit Weight (Dry)	300 lbs	136.1 kg

Hydraulic Design

Turbine	Impeller and turbine vanes are custom designed and machined for optimal efficiency at design conditions.
Pump	Impeller vanes and diffuser ring are built to customer specifications.
Brine Control	Integral variable area auxiliary nozzle.

Fittings

Pipe Joints	Feed Inlet/ Outlet 4" Cut Groove Brine Inlet/ Outlet 4" Cut Groove
-------------	---

Bearings

Radial	Sleeve, product lubricated
Thrust	Hydrostatic/ hydrodynamic type Rotor-Flo™ design
Cooling	Product fluid
Lubrication	Product fluid

Testing and Inspection

Performance Test	Standard
* Hydraulic Institute (HI) Hydrostatic & Centrifugal Pump Testing Standards	
Hydrostatic Test	Standard
* Hydraulic Institute (HI) Hydrostatic & Centrifugal Pump Testing Standards	
Rotor Balance Certificate	Standard
Visual/ Dimension Check	Optional
Witness Test	Optional
Certified Test Data	Optional
Material Certificates	Optional

* General Code Groups, Associations, Laboratories, and Approval Bodies include the American Society for Testing and Materials (ASTM), the International Organization for Standardization (ISO), and the NSF International.



LENNTECH
WATER TREATMENT SOLUTIONS

info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289

NOTE: All numeric values are based on performance norms. Specific performance data is included with each individual unit. FEDCO reserves the right to make specification changes at any time without prior notice. Please contact your FEDCO representative for information. email: sales@fedco-usa.com

The information, date and drawings in this proposal are strictly confidential and for the use of the Fluid Equipment Development Company, LLC ("FEDCO") and its intended recipient(s) only. The information is not to be disclosed or distributed to any other party(ies) without expressed prior written permission of FEDCO.