

SPECIFICATION SHEET

Low Pressure Drive(LPS) Pump

MODEL LPS-160

for Reverse Osmosis Desalination

HYDRAULIC DESIGN	
PUMP	Vertical or horizontal multi-stage centrifugal pump with barrel-flanged joint construction.

OPERATING PARAMETERS	
LIQUID	Seawater, brine, Brackish, Process
OPERATING TEMPERATURE	0.6 - 70.0° C
MAXIMUM STORAGE TEMPERATURE	85° C
MINIMUM FLOW*	80m ³ /h
MAXIMUM FLOW*	579 m ³ /h (with maximum of 3 modules)
MAXIMUM OPERATING PRESSURE	35.0 bar
FILTRATION REQUIREMENT	20 microns

*Range may vary. Custom hydraulic passages are built to customer specifications.

PERFORMANCE	
PEAK EFFICIENCY	Up to 72.5%

MATERIALS	
SHAFT	Duplex 2205 one-piece construction machined from bar stock S31803 ASTM A276/479
SHELL	316 SS S31600 ASTM A312
SHELL BOLTING	316 SS S31600 A193/A320/F593
INLET/DISCHARGE	316 SS S31600 ASTM 351-CF3M
IMPELLERS	Passivated and electropolished 316 SS S31600 ASTM 276/479 (Duplex 2205 Option S31803 ASTM A890)
DIFFUSER	Passivated and electropolished 316 SS S31600 ASTM 276/479
MOTOR ADAPTOR	316 SS S31600 ASTM 351-CF3M
MOTOR COUPLING	Flexible disc coupling (Horizontal Mount) - FNC treated Carbon Steel S45C ASTM 1045 Duplex 2205 S31803 ASTM A276/479 (Vertical Mount Drop Out Type)
MECHANICAL SEAL	316 Carbon silicon carbide Buna N FITS ISO DIN/ANSI TYPE 2100
COUPLING GUARD	316L S31603 ASTM 276/479
BEARING DRAIN LINE TUBING	Duplex 2205 SA789-11a ASTM A789-10 /Duplex 2507 S32750 ASTM A276/479
PUMP LEVELING FOOT (Horizontal Mount) / BASE(Vertical Mount)	Powder coated carbon steel A36 ASTM A570/A
O-RING	BUNA

FITTINGS		
TURBINE PIPE JOINTS (Grooved-style couplings)	Brine Inlet	6"
	Brine Outlet	6"
EYE BOLTS	Motor only	

DRIVE	
MOTOR	Available per customer specific requirements NEMA FRAME STANDARD, IEC AVAILABLE
VARIABLE FREQUENCY DRIVE	Available per customer specific requirements

BEARINGS	
RADIAL	Sleeve (lubricated by product)
THRUST	FEDCO Water Bearing™ Product Lubricated Hydrostatic/Hydrodynamic type
COOLING	Product provides cooling to all bearings
LUBRICATION	Product lubricated (no user lubrication required)

TESTING AND INSPECTION	
PERFORMANCE TEST	Standard
HYDROSTATIC TEST **Hydraulic Institute (HI) Hydrostatic and Centrifugal Pump Testing Standards	Standard
VISUAL/DIMENSION CHECK	Optional
WITNESS TEST	Optional
CERTIFIED TEST DATA	Optional
MATERIAL CERTIFICATES	Optional
VIBRATION TEST	Optional

SHIPPING	
PROTECTIVE COVERS/EXPORT CRATING	Standard
ADDITIONAL SHIPPING OPTIONS	Available per customer requirements
ESTIMATED UNIT WEIGHT	Contact FEDCO

OUTLINE	
OUTLINE DIMENSIONS	Each LPS model is custom designed to specific customer requirements. Contact FEDCO.



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

**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.