

SPECIFICATION SHEET

Low Pressure Drive(LPS) Pump

MODEL LPS-200

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* | 100m ³ /h |
| MAXIMUM FLOW* | 750 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 70.5% |

| 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.