

# HYDROMATIC® SP50 SUBMERSIBLE SEWAGE EJECTOR PUMP





## sp50 Submersible Sewage Ejector Pump

### **Applications**

- Continuous Duty Rated
- Residential Sewage
- High-Capacity Sump
- Septic Tank Effluent



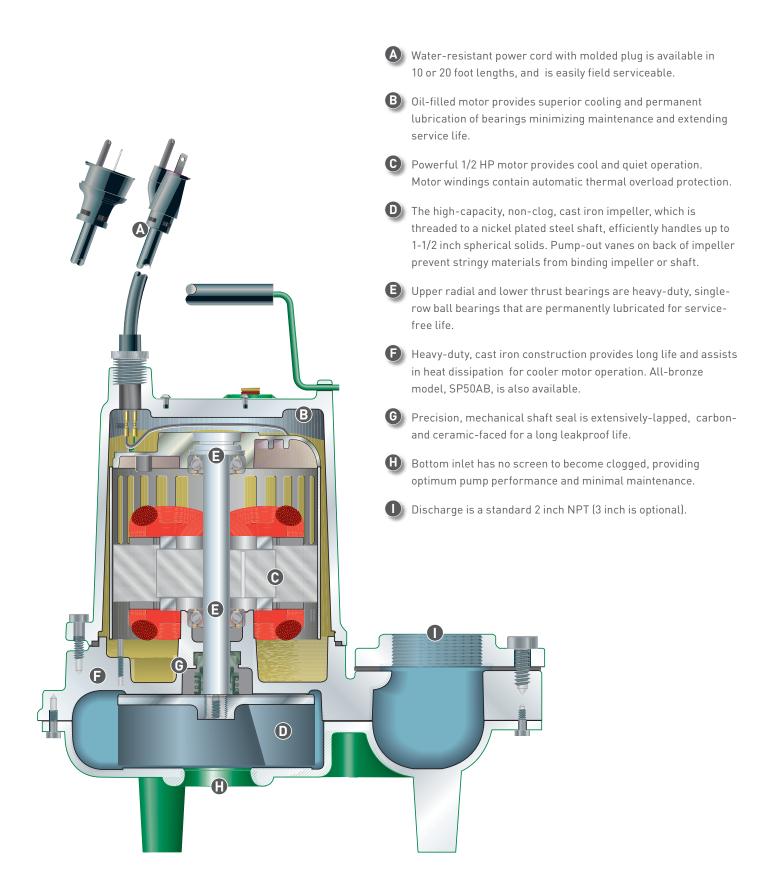
The Hydromatic SP50 submersible pump is specifically designed to meet the demands of handling wastewater and sewage in residential and commercial building applications. The 2 inch NPT discharge pump (3 inch discharge optional) is available with a powerful 1/2 horsepower motor, in both automatic and manual configurations; and can handle capacities up to 150 gallons per minute and heads to 29 feet.

The SP50 features a heavy-duty cast iron construction that provides durability in rugged applications, as well as assists in dissipating heat from the motor, for cooler operation. It is also available in an all bronze model. The pump's non-clog, non-corrosive, cast iron impeller, which is threaded to a nickel plated steel shaft, provides long life even in demanding applications; and is capable of handling spherical solids up to 1-1/2 inches and lint. The SP50 also features precision, carbon and ceramic-faced mechanical shaft seals that are extensively lapped, providing for a long, leakproof life.

The SP50's oil-filled motor provides superior cooling characteristics, allowing the motor to run cool and quiet for years. This oil-filled design also provides permanent lubrication of the shaft bearings, minimizing maintenance and extending the service life of the pump. In addition, to protect against overheating, the motor windings contain an automatic reset thermal overload (1  $\emptyset$ ).

Water level is controlled on automatic models by Hydromatic's proven diaphragm type pressure switch, which is sealed in a water tight thermoplastic housing. Double diaphragm construction provides added protection by preventing liquid or foreign matter from entering switch.

## SP50



## SP50

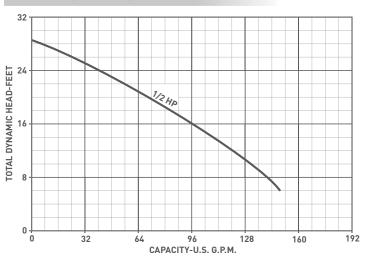
#### **PUMP CHARACTERISTICS**

| Pump/Motor Unit    | Submersible   |     |     |     |     |     |     |  |
|--------------------|---|-----|-----|-----|-----|-----|-----|--|
| Manual Models      | M1  | M7  | M2  | M6  | M3  | M4  | M5  |  |
| Automatic Models   | A1  | -   | A2  | -   | -   | -   | -   |  |
| Automatic All Brz. | AB1   | -   | -   | -   | -   | -   | -   |  |
| Horsepower         | 1/2   |     |     |     |     |     |     |  |
| Full Load Amps     | 12.0  | 5.7 | 6.0 | 4.1 | 3.5 | 1.9 | 1.4 |  |
| Motor Type         | Split-Phase Three-Phase   |     |     |     |     |     |     |  |
| R.P.M.             | 1750  |     |     |     |     |     |     |  |
| Phase Ø            | 1   |     |     |     | 3   |     |     |  |
| Voltage            | 115   | 200 | 230 | 200 | 230 | 460 | 575 |  |
| Hertz              | 60  |     |     |     |     |     |     |  |
| Temperature        | 140°F Ambient   |     |     |     |     |     |     |  |
| NEMA Design        | А   |     |     |     |     |     |     |  |
| Insulation         | Class B   |     |     |     |     |     |     |  |
| Discharge Size     | 2" NPT std. (3" opt.)   |     |     |     |     |     |     |  |
| Solids Handling    | 1-1/2"  |     |     |     |     |     |     |  |
| Unit Weight        | 70 lbs. (SP50AB1 77 lbs.)   |     |     |     |     |     |     |  |
| Power Cord         | 16/3, STWA, 1ø 115V, 230V=10'<br>std. (20' optional) 16/4, STWA, 3ø<br>200V, 230V, 460V, or 575V = 20' std. |     |     |     |     |     |     |  |

#### MATERIALS OF CONSTRUCTION

| Handle                   | Steel  |  |  |
|--------------------------|--|--|--|
| Lubricating Oil          | Dielectric Oil   |  |  |
| Motor Housing            | Cast Iron*   |  |  |
| Pump Casing              | Cast Iron*   |  |  |
| Shaft                    | Nickel Plated Steel  |  |  |
| Mechanical<br>Shaft Seal | Seal Faces: Carbon/Ceramic<br>Seal Body: Brass<br>Spring: Stainless Steel<br>Bellows: Buna-N |  |  |
| Impeller                 | Cast Iron  |  |  |
| Upper Bearing            | Bronze Sleeve  |  |  |
| Lower Bearing            | Single Row Ball Bearing  |  |  |
| Fastener                 | Stainless Steel  |  |  |

PERFORMANCE DATA



**DIMENSIONAL DATA** 





All dimensions in inches. Metric for international use. Component dimensions may vary  $\pm 1/8$  inch. Dimensional data not for construction purpose unless certified. Dimensions and weights are approximate. On/ Off level adjustable.



USA

293 WRIGHT STREET, DELAVAN, WI 53115 WWW.HYDROMATIC.COM PH: 888-957-8677 ORDERS FAX: 800-426-9446 CANADA 269 TRILLIUM DRIVE, KITCHENER, ONTARIO, CANADA N2G 4W5 PH: 519-896-2163 ORDERS FAX: 519-896-6337

Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.