

# HYDROMATIC® SP50 SUBMERSIBLE SEWAGE EJECTOR PUMP





## sp50 Submersible Sewage Ejector Pump

### **Applications**

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



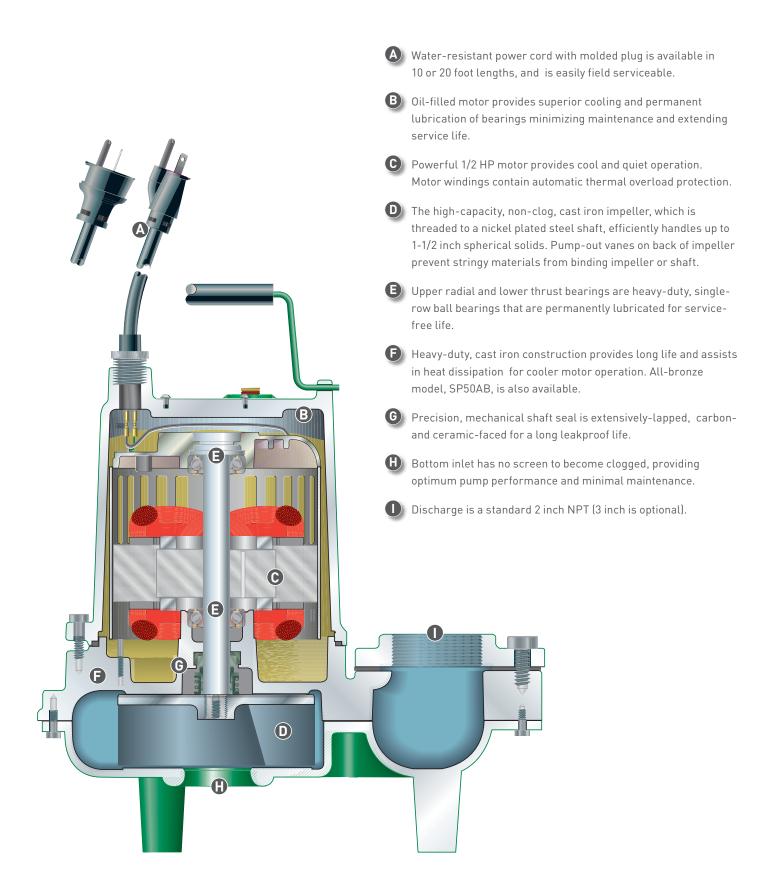
The Hydromatic SP50 submersible pump is specifically designed to meet the demands of handling wastewater and sewage in residential and commercial building applications. The 2 inch NPT discharge pump (3 inch discharge optional) is available with a powerful 1/2 horsepower motor, in both automatic and manual 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



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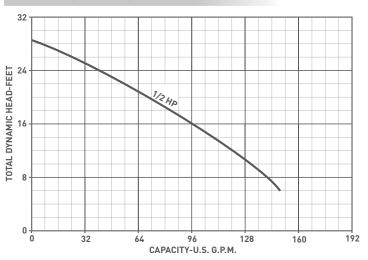
#### **PUMP CHARACTERISTICS**

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' std. (20' optional) 16/4, STWA, 3ø 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 Shaft Seal	Seal Faces: Carbon/Ceramic Seal Body: Brass Spring: Stainless Steel 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

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