



# **HYDROMATIC**<sup>®</sup> SKHS SERIES SUBMERSIBLE HIGH HEAD SEWAGE EJECTOR PUMP

# SKHS SERIES

## Submersible High Head Sewage Ejector Pump

### Available Horsepower

- 1/2, 1, 1-1/2, 2

### Features

- The Hydromatic® submersible SKHS series pump is specifically designed to meet the demands of wastewater and sewage handling in residential and commercial building applications. The SKHS powerful motor is available in 1/2, 1, 1-1/2, or 2 horsepower motors. The SKHS series pump is standard 2 inch NPT discharge with 3 inch discharge optional.
- The Hydromatic SKHS50 can handle capacities up to 140 gallons per minute and heads to 45 feet, while the SKHS100 handles capacities up to 140 gallons per minute and heads to 58 feet. The Hydromatic SKHS150 can handle capacities up to 140 gallons per minute and heads to 70 feet, while the Hydromatic SKHS200 handles capacities up to 140 gallons per minute and heads to 80 feet. The Hydromatic SKHS series feature a heavy duty cast iron construction that provides durability in rugged applications, as well as assisting in dissipating heat from the motor, for cooler operation.
- The SKHS series non-clogging, two-vane, semi-open cast iron impeller, which is threaded to a stainless steel shaft, handles applications involving higher capacities and heads; and is capable of handling up to 2 inch spherical solids and lint. The Hydromatic SKHS series also features a precision carbon and ceramic-faced mechanical shaft seal that is extensively lapped, providing for a long, leakproof life.
- The Hydromatic SKHS series pumps have an oil-filled motor that 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.

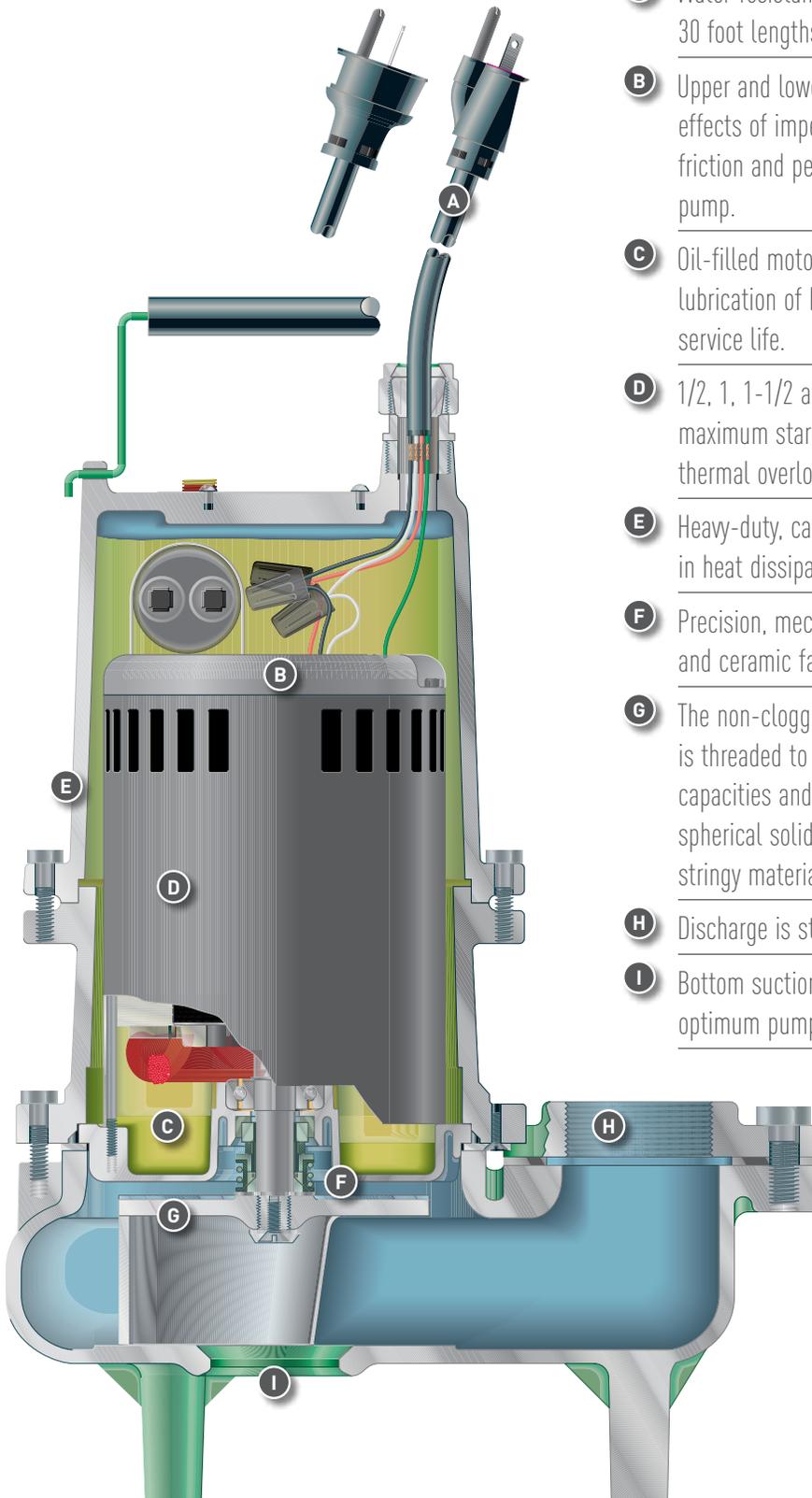
- In addition, to protect against overheating, single-phase motor windings contain an automatic reset thermal overload; three phase motors require a magnetic starter with overload protection located in the accessory control panel.



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## Benefits

- A** Water-resistant power cord with molded plug is available in 20 or 30 foot lengths.
- B** Upper and lower bearings support motor shaft, minimizing the effects of impeller thrust loads. This design results in minimum friction and perfect alignment of rotor, for longer service from pump.
- C** Oil-filled motor provides superior cooling and permanent lubrication of bearings, minimizing maintenance and extending service life.
- D** 1/2, 1, 1-1/2 and 2 horsepower capacitor start motors provide maximum starting torque. Motor windings contain automatic thermal overload protection (1 $\emptyset$ ).
- E** Heavy-duty, cast iron construction provides long life and assists in heat dissipation for cooler motor operation.
- F** Precision, mechanical shaft seal is extensively lapped, carbon and ceramic faced for a long leak-proof life.
- G** The non-clogging, two-vane, semi-open cast iron impeller, which is threaded to a stainless steel shaft, operates with higher capacities and heads, capability of passing 2 inch diameter spherical solids. Pump-out vanes on back of impeller prevent stringy materials from binding impeller or shaft.
- H** Discharge is standard 2 inch NPT (3 inch is optional).
- I** Bottom suction inlet has no screen to become clogged, providing optimum pump performance and minimal maintenance.



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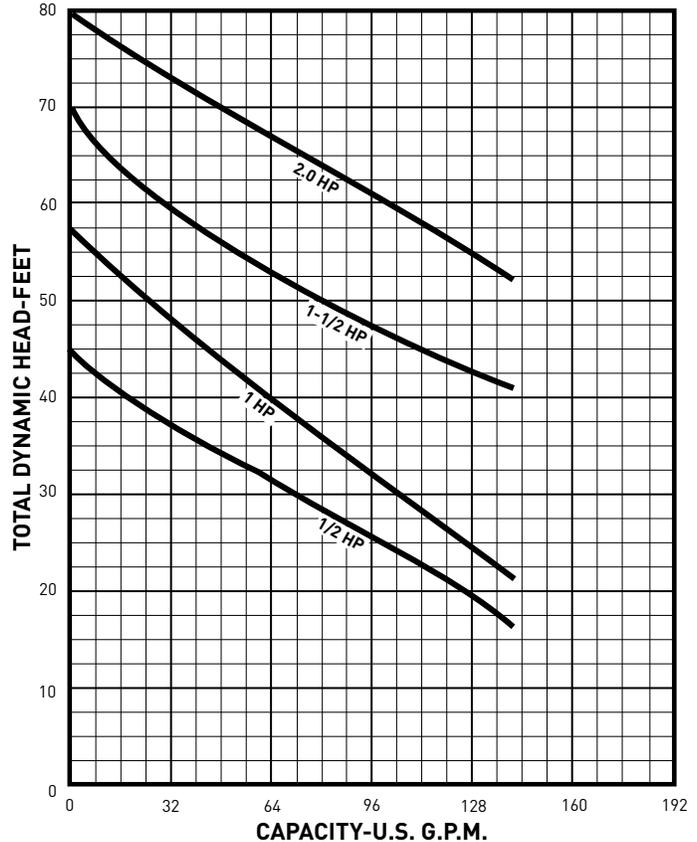
## Pump Characteristics

Pump/Motor Unit	Submersible						
Model	SKHS50						
Manual Models	M1	M7	M2	M6	M3	M4	M5
Horsepower	1/2						
Full Load Amps	14.2	9.2	8.3	6.6	6.0	3.0	2.4
Motor Type	Cap Start					3Ø	
Model	SKHS100						
Manual Models	—	M7	M2	M6	M3	M4	M5
Horsepower	1						
Full Load Amps	—	12.6	11.4	8.8	8.0	4.0	3.2
Model	SKHS150						
Manual Models	—	M7	M2	M6	M3	M4	M5
Horsepower	1-1/2						
Full Load Amps	—	15.3	13.9	8.5	7.6	3.9	3.1
Motor Type	Cap Start					3Ø	
Model	SKHS200						
Manual Models	—	M7	—	M6	M3	M4	M5
Horsepower	2						
Full Load Amps	—	18	—	10.4	9.2	4.6	3.7
Motor Type	Cap Start					3Ø	
R.P.M.	3450						
Phase Ø	1			3			
Voltage	115	200	230	2080	230	460	575
Hertz	60						
Operation	Intermittent						
Temperature	140°F Ambient						
NEMA Design	Class B						
Insulation	A						
Discharge Size	2" NPT std. (3" opt.)						
Solids Handling	2"						
Unit Weight	71 lbs.						
Power Cord	14/3, STWA, 1Ø, 20' std. • 18/4, STWA, 3Ø, 20' std.						

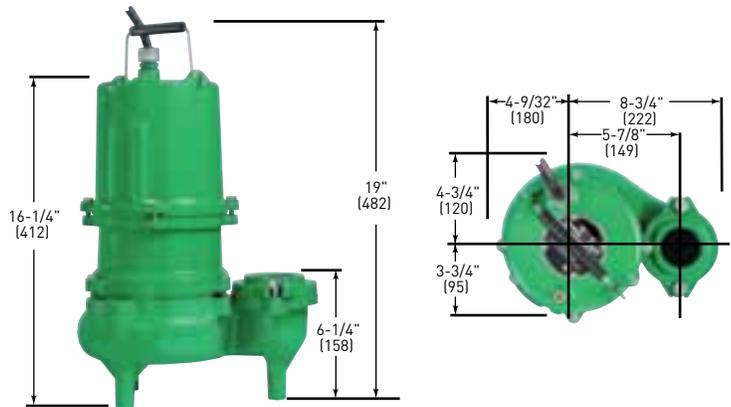
## Materials of Construction

Part Name	Material
Handle	Steel
Lubricating Oil	Dielectric Oil
Motor Housing	Cast Iron
Pump Volute	Cast Iron
Shaft	Stainless Steel
Mechanical Shaft Seal	Seal Faces: Carbon/Ceramic Seal Body: Stainless Steel Spring: Stainless Steel Bellows: Buna-N
Impeller	Cast Iron
Upper Bearing	Single Row Ball Bearing
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.



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