



HYDROMATIC[®] SHEF40 SUBMERSIBLE HIGH HEAD EFFLUENT PUMP

SHEF40

Submersible High Head Effluent Pump

Applications

- Septic Tank Effluent
- High Head Sump
- Dewatering

The Hydromatic SHEF40 submersible pump is specifically designed to meet the demands of residential high head septic tank effluent or sump applications. The 1-1/2 inch NPT discharge pump features an energy efficient 4/10 horsepower motor, 115 or 230 volts, and is available in both automatic and manual configurations. The SHEF40 can handle capacities up to 70 gallons per minute and heads to 36 feet.

The SHEF40 features a heavy-duty cast iron construction that provides durability for a long service life, as well as dissipates heat from the motor for cooler operation. All fasteners are stainless steel for corrosion resistance. The pump's semi-open, non-clog design impeller passes 3/4" (spherical) solids and is made from a super tough engineered plastic that provides the highest level of corrosion resistance and the toughness to withstand the impact of solid materials. The impeller, molded to a bronze insert, also features pump-out vanes to preclude material from building up around the shaft and seal. The pump's unique (patent pending) non-clog design baseplate has an electrostatically applied polyester coating for corrosion resistance and provides a strainer-free inlet capable of passing two (2), 3/4" (spherical) solids simultaneously. The inlet area is raised off the bottom of the septic tank or sump basin by the pump's 2" high legs constructed of engineered thermoplastic material for maximum corrosion resistance.

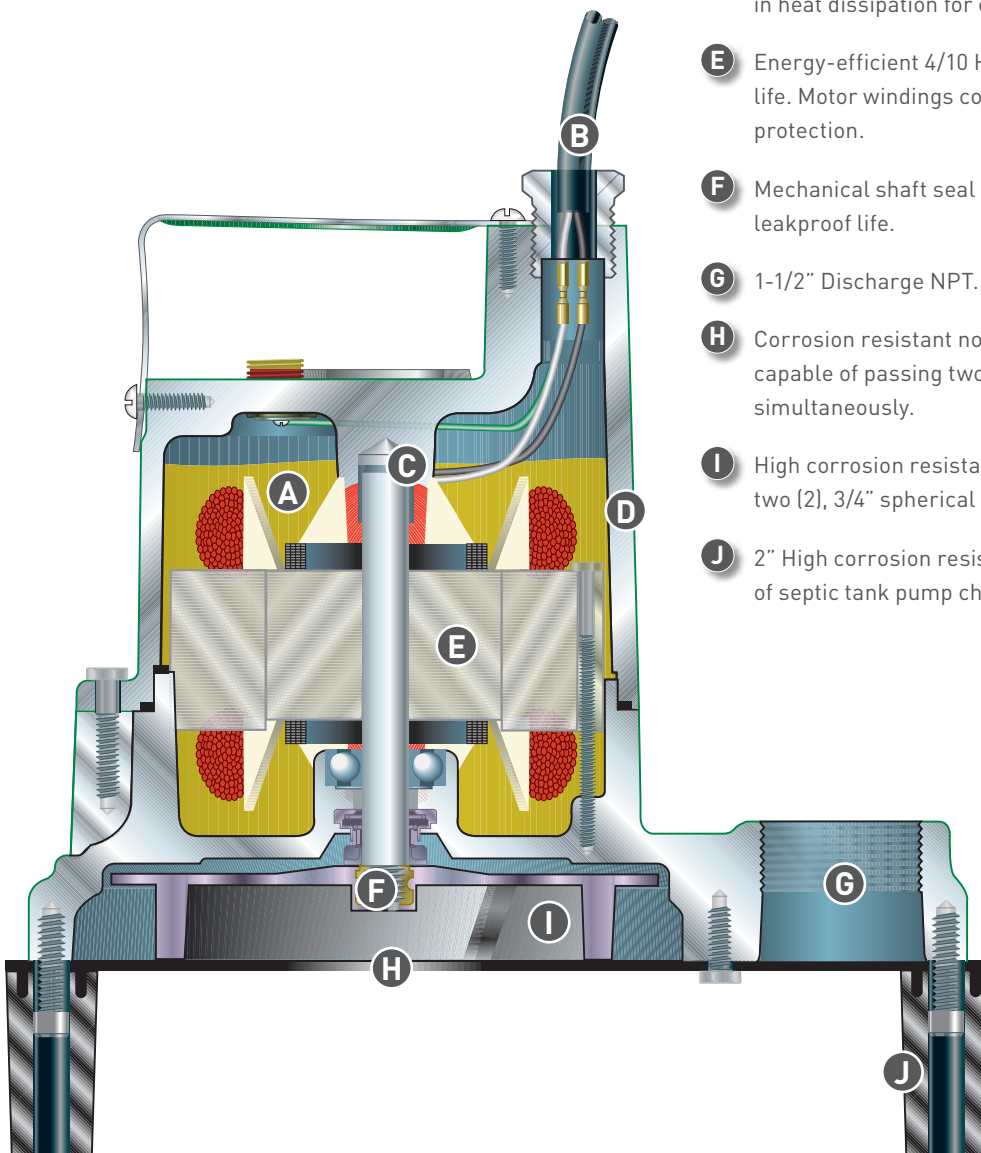
The SHEF40's oil filled motor provides superior cooling characteristics, allowing the motor to run cool and quiet. The oil-filled design also provides permanent lubrication of the shaft bearings, minimizing maintenance and extending the service life of the pump. The oil-filled motor design allows for even heat dissipation. The windings feature a built-in thermal overload that resets automatically.

Automatic models feature an easily adjustable wide-angle float switch, incorporating a unique piggyback plug arrangement. This plug allows for simple conversion to manual operation by removing the switch plug and inserting the pump's motor plug into the electrical outlet. This feature provides an easy way to periodically cycle the pump to ensure it is operating properly.

The SHEF40 is a completely submersible pump for use in residential septic tank effluent pumping applications and is available in automatic and manual configurations. Automatic models feature a wide-angle float switch with piggyback plug-in arrangement. Switch is adjustable, easy to service and allows for simple conversion to manual operation.



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- A** Oil-filled motor provides superior cooling and permanent lubrication of bearings, minimizing maintenance and extending service life.
- B** Water resistant power cord with molded plug is available in 20' & 30' lengths and is easily field serviceable. Unique four point cable entry provides superior protection against leakage.
- C** Lower ball and upper bronze-sleeve bearings support motor shaft, minimizing the effects of impeller loads. This design results in minimum friction and perfect alignment of rotor, for longer service.
- D** Heavy-duty, cast iron construction provides long life and assists in heat dissipation for cooler motor operation.
- E** Energy-efficient 4/10 HP motor runs cool and quiet for long life. Motor windings contain automatic reset, thermal overload protection.
- F** Mechanical shaft seal is carbon- and ceramic-faced for long leakproof life.
- G** 1-1/2" Discharge NPT.
- H** Corrosion resistant non-clog base with strainer-free inlet capable of passing two (2), 3/4" diameter spherical solids simultaneously.
- I** High corrosion resistant, semi-open non-clog impeller passes two (2), 3/4" spherical solids.
- J** 2" High corrosion resistant legs raise pump's inlet from bottom of septic tank pump chamber.

Piggyback Switch Plug



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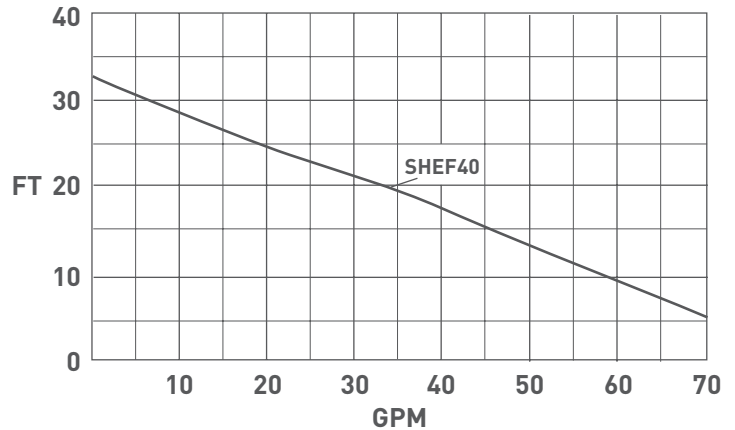
PUMP CHARACTERISTICS

| | | |
|------------------|----------------------------------------|----------|
| Pump/Motor Unit | Submersible | |
| Manual Models | SHEF40M1 | SHEF40M2 |
| Automatic Models | SHEF40A1 | SHEF40A2 |
| Horsepower | 4/10 | |
| Full Load Amps | 12 | 6.5 |
| Motor Type | Shaded Pole (4 Pole) | |
| R.P.M. | 1550 | |
| Phase | 1Ø | |
| Voltage | 115 | 230 |
| Hertz | 60 | |
| Temperature | 120°F Max. Fluid Temp. | |
| NEMA Design | A | |
| Insulation | Class B | |
| Discharge Size | 1 1/2" NPT | |
| Solids Handling | 3/4" | |
| Weight | 28 lbs. | |
| Power Cord | 18/3, SJTW, 20' std. (30' optional) | |

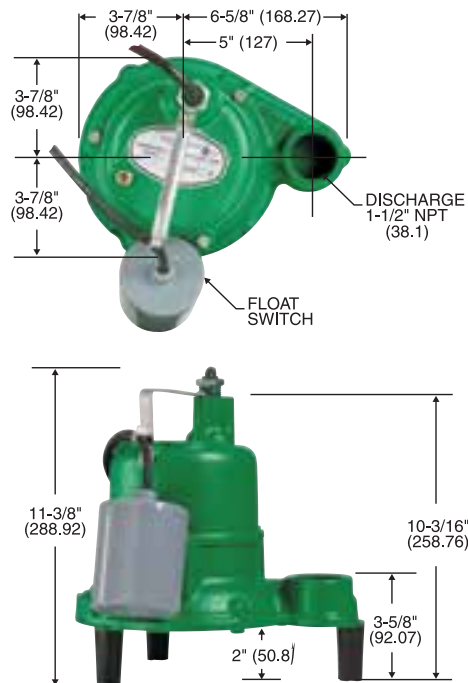
MATERIALS OF CONSTRUCTION

| | |
|-----------------------|-------------------------------------------------------------------------------------------------------|
| Handle | Stainless Steel |
| Lubricating Oil | Dielectric Oil |
| Motor Housing | Cast Iron |
| Pump Casing | Cast Iron |
| Shaft | Steel |
| Mechanical Shaft Seal | Seal Faces: Carbon/Ceramic Seal Body: Anodized Steel Spring: Stainless Steel Bellows: Buna-N |
| Impeller | Engineered Thermoplastic |
| Upper Bearing | Bronze Sleeve Bearing |
| Lower Bearing | Single Row Ball Bearing |
| Bottom Plate | Polyester Coated Steel |
| Fasteners | Stainless Steel |
| Legs | Engineered Thermoplastic |

PERFORMANCE DATA



DIMENSIONAL DATA



All dimensions in inches. 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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