



HYDROMATIC[®] SHEF45 SUBMERSIBLE HIGH HEAD EFFLUENT PUMP

SHEF45

Submersible High Head Effluent Pump

Applications:

- Septic Tank Effluent
- High Head Sump
- Dewatering

The HYDROMATIC® SHEF45 submersible pump is specifically designed to meet the demands of residential septic tank effluent or sump applications. The 2 inch NPT discharge pump features an energy-efficient 1/2 horsepower motor, manual version. The SHEF45 can handle capacities up to 87 gallons per minute and heads to 44 feet.

The SHEF45 features a heavy-duty cast iron construction that provides durability for a long service life, as well as dissipating heat from the motor for cooler operation. All fasteners are stainless steel for corrosion resistance. The pump's semiopen, nonclog design impeller passes 3/4" (spherical) solids and is made from cast iron that provides the toughness to withstand the impact of solid materials. The inlet area is raised off the bottom of the septic tank or sump basin by the pump's 1-1/2" high legs constructed of cast iron material for maximum strength.

The SHEF45'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.

SHEF45 Features:

- 1/2 HP
- 115V or 230V available (1Ø)
- 2" discharge
- 3/4" solids handling
- Capacities to 87 GPM
- Heads to 44 feet
- Manual model

*Switch can be ordered separately

Switch Ordering #MWAPS-1-20 for 115V

Switch Ordering #MWAPS-2-20 for 230V



SHEF45

The SHEF45 is a completely submersible pump for use in residential septic tank effluent pumping applications and is available in a manual configuration.

- High quality cast iron construction of pump volute, motor housing, impeller and seal housing provides long life.
- Water resistant power cord has a compression fit connection and an epoxy potting for double protection against water entry. Twenty foot cord with molded plug is standard.
- Oil-filled motor provides superior cooling and permanent lubrication of bearings, minimizing maintenance and extending service life.
- Start capacitor.
- Upper radial and lower thrust bearings are heavy-duty, single-row ball bearings that are permanently lubricated for service-free life.
- PSC motors provide maximum starting torque. Motor windings contain automatic thermal overload protection (1 \emptyset).
- Mechanical shaft seal is carbon and ceramic-faced for long leakproof life.
- Discharge is standard 2" NPT.
- 1-1/2" cast iron legs raise pump's inlet from bottom of septic tank pump chamber.
- Nonclog base with strainer-free inlet capable of passing 3/4" diameter spherical solids simultaneously.
- Cast iron, nonclog impeller passes 3/4" spherical solids.



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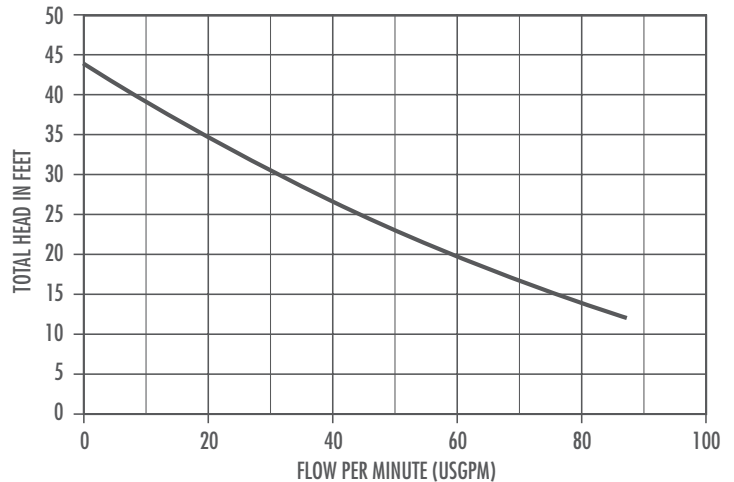
PUMP CHARACTERISTICS

| | | |
|-----------------|---|-----|
| Pump/Motor Unit | Submersible | |
| Manual Model | M1 | M2 |
| Horsepower | 1/2 | |
| Full Load Amps | 8.6 | 4.3 |
| Motor Type | PSC | |
| R.P.M. | 3450 | |
| Phase Ø | 1 Ø | |
| Voltage | 115 | 230 |
| Hertz | 60 | |
| Temperature | 140°F Max Fluid Temp. | |
| Insulation | Class B | |
| Discharge Size | 2" NPT std. | |
| Solids Handling | 3/4" | |
| Unit Weight | 58 lbs. (26.3) | |
| Power Cord | 115V, SJTW-A; 230V, 1Ø, 16/3 SWT-A; Cord 20' std. | |

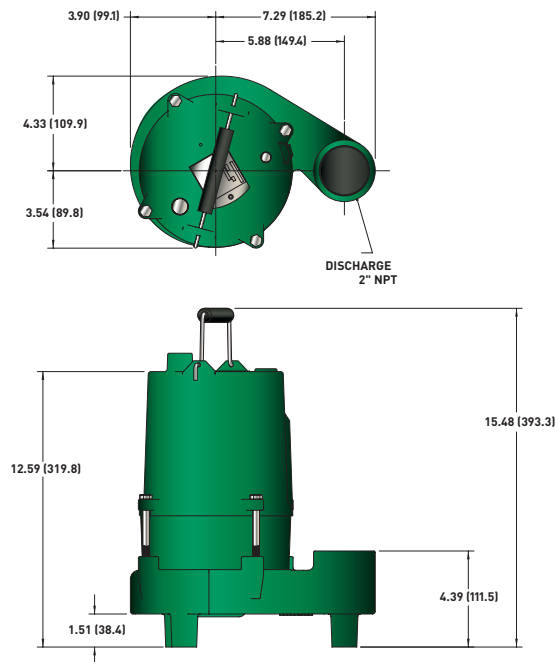
MATERIALS OF CONSTRUCTION

| | |
|-----------------------|--|
| Handle | Stainless Steel |
| Lubricating Oil | Dielectric Oil |
| Motor Housing | Cast Iron |
| Pump Casing | Cast Iron |
| Shaft | Stainless Steel |
| Mechanical Shaft Seal | Seal Faces: Carbon/Ceramic Spring: Stainless Steel Bellows: Buna-N |
| Impeller | Cast Iron |
| Upper Bearing | Single Row Ball Bearing |
| Lower Bearing | Single Row Ball Bearing |
| Fasteners | Stainless Steel |
| Legs | Cast Iron |

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