

# MYERS® S40HT

The Myers® S40HT high-temp submersible pump is designed for hot water applications up to 195°F. The all cast iron construction and oil-filled motor with continuous bearing lubrication will ensure years of extended service. The non-clog vortex impeller will pass a full 3/4" solid. Automatic piggyback operation, but can be operated manually by plugging directly into outlet.

## APPLICATIONS

Boiler blow-down, condensate pits, hot water transfer

## SPECIFICATIONS

**Capacities** – 52 GPM (197 LPM)  
**Shut-off Head** – 23' (7 m)  
**Operation** – On: 12.38" (314 mm)  
                     Off: 7.06" (179 mm)  
**Operation** – Manual or automatic  
**Solids Handling** – 3/4"  
**Liquids Handling** – High temperature liquids  
**Intermittent Liquid Temperature** –  
 Up to 195°F (90°C)  
**Motor/Electrical Data** – 4/10 HP, shaded pole, oil-filled, Class B windings, 115V, 12A, 1Ø, 60Hz  
**Acceptable pH Range** – 6-9  
**Housing** – Heavy cast iron  
**Power Cord** – 20' 16/3, SJ00W, SJ00W-A  
**Discharge, NPT** – 1-1/2" (38 mm)  
**Min. Sump Diameter** –  
 Simplex: 24" (60.1 cm)  
 Duplex: 36" (91.4 cm)



## FEATURES

### Heavy Duty Design

All cast iron construction provides durable, dependable service in the harshest conditions.

### High-heat Performance

Designed for hot water applications up to 195°F (90°C)

### Cool Running

Oil-filled motor for bearing lubrication and maximum heat dissipation

### Overload Protection

Shaded pole motor eliminates failure-prone starting switches and relays

### Dual Operation

Wide-angle, mercury-free float switch or manual operation by plugging directly into outlet

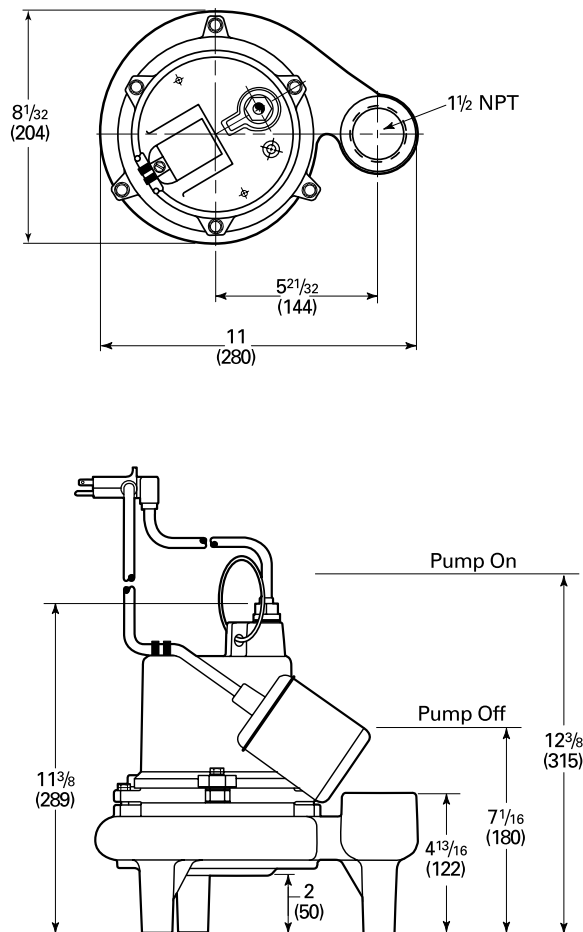
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## ORDERING INFORMATION

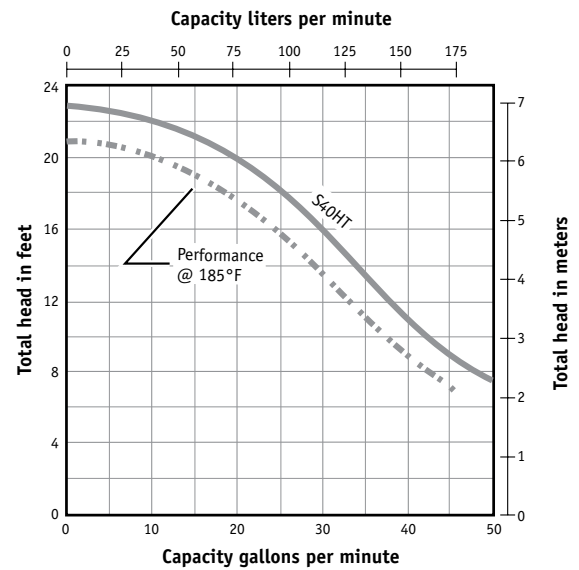
Catalog Number	HP	Volts	Phase/ Cycles	Amps	Discharge Size	Switch Type	Cord Length	Approx. Wt. Lbs.
S40HT-11P	4/10	115	1/60	12	1-1/2"	Tethered Automatic*	20'	42
S40HT-11	4/10	115	1/60	12	1-1/2"	Manual	20'	39

\*Piggyback

## DIMENSIONS



## PUMP PERFORMANCE



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## SPECIFICATIONS

**Sump Pumps** – Pump(s) shall be F. E. Myers S40HT series sump pumps selected in accordance with the following design criteria:

Number of Pumps:	_____
Primary Design Flow:	_____
Primary Design Head:	_____
Minimum Shut-off Head:	_____
Motor Horsepower:	4/10
Motor Speed:	1550 RPM
Electrical:	115 Volts, 1Ø, 60 Hz

**Pump** – The pump shall be designed to handle liquids with temperatures to 190°F and be capable of passing 3/4 inch spherical solids.

**Motor** – The pump motor shall be of the submersible type rated 4/10 hp at 1550 RPM and shall be for 115 volts, single phase, 60 cycles. Single phase motor shall be of the shaded pole type with no relays or starting switches. Stator winding shall be of the open type with Class B insulation rated for 130°C maximum operating temperature. The winding housing shall be filled with clean dielectric oil to lubricate bearings and seals, and transfer heat from the windings to the outer shell. The motor winding assembly shall be pressed into the stator housing for best alignment and heat transfer.

The motor shall be capable of operating over the full range of the performance curve without overloading the motor and causing any objectionable noise or vibration. The motor shall have two bearings to support the rotor; an upper sleeve bearing to accommodate radial loads and a lower sleeve bearing with thrust pad to take thrust and radial loads.

A heat sensor thermostat and overload shall be attached to the top end of the motor windings and shall be wired in series with the windings to stop the motor if the motor winding temperature reaches 266°F. The overload thermostat shall reset automatically when the motor cools to a safe operating temperature.

**Power Cord** – The motor power cord shall be 20 feet SJ00W 105°C type. The cord shall have a molded compression grommet to insulate electrical connections. The grommet shall thread into the motor housing to provide a positive seal and to prevent leaking of liquid into the motor housing. The sealing grommet shall provide strain relief for the power cord assembly.

**Optional Control Switch** – The effluent pump shall be controlled by an optional piggyback float switch. The float switch shall be of a non-mercury type and be capable of directly controlling the pump motor without the need for an external control panel. The control cord shall be SJ00W 105°C type.

**Shaft Seal** – The motor shall be protected by a rotating mechanical shaft seal. The seals shall have carbon and ceramic seal faces lapped to a tolerance of one light band. Metal parts and springs for seals shall be 300 series stainless steel.

**Pump Impeller** – The pump impeller shall be of the recessed vortex type. The impeller shall be constructed of thermoplastic.

**Motor Castings** – The motor housing castings shall be of high tensile strength Class 30 gray cast iron. Castings shall be treated with phosphate and chromate rinse and painted with a high quality air dry alkyd enamel for corrosion protection.

**Pump Case** – The pump case shall be a high efficiency volute design capable of passing 3/4 inch spherical solids. The pump volute shall be constructed of Class 30 gray cast iron.

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USA  
293 WRIGHT STREET, DELAVAN, WI 53115 WWW.FEMEYERS.COM  
PH: 888-987-8677 ORDERS FAX: 800-426-9446

CANADA  
269 TRILLIUM DRIVE, KITCHENER, ONTARIO, CANADA N2G 4W5  
PH: 519-606-5484 ORDERS FAX: 800-426-9446

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