

# S40HT SERIES

High Temperature 4/10 HP  
Submersible Sump Pumps



**T**HE MYERS S40HT SUBMERSIBLE HIGH TEMPERATURE 4/10 HP SUMP PUMP IS DESIGNED FOR HOT WATER APPLICATIONS UP TO 195°F. The S40HT series is all cast iron construction with stainless steel fasteners. High temperature pumping applications include boiler blowdown pits, condensate pits and hot water transfer. The S40HT offers a cast iron vortex impeller which can pass a full 3/4" spherical solid. The S40HT is available in an automatic model with a piggyback mechanical float switch or a manual model for use with external controls. For more information, call your Myers distributor or the Myers Ashland, Ohio sales office at 419-289-6898.

## ADVANTAGES BY DESIGN

### DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE.

- Oil-filled motor for maximum heat dissipation and continuous bearing lubrication.
- Overload protected, shaded pole motor eliminates starting switches and relays which are prone to fail.
- Heavy cast iron motor housing and volute case dissipate heat, allow motor to run cooler for extended life.

### THE S40HT IS ENGINEERED FOR MANY YEARS OF MAINTENANCE-FREE OPERATION.

- Wide angle, mercury-free, high temperature mechanical float switch for maximum draw down. (Automatic piggyback models only).
- Automatic pump model can be operated manually by unplugging piggyback switch and plugging pump directly into outlet.
- Cast iron vortex impeller passes a full 3/4" solid.

## PRODUCT CAPABILITIES

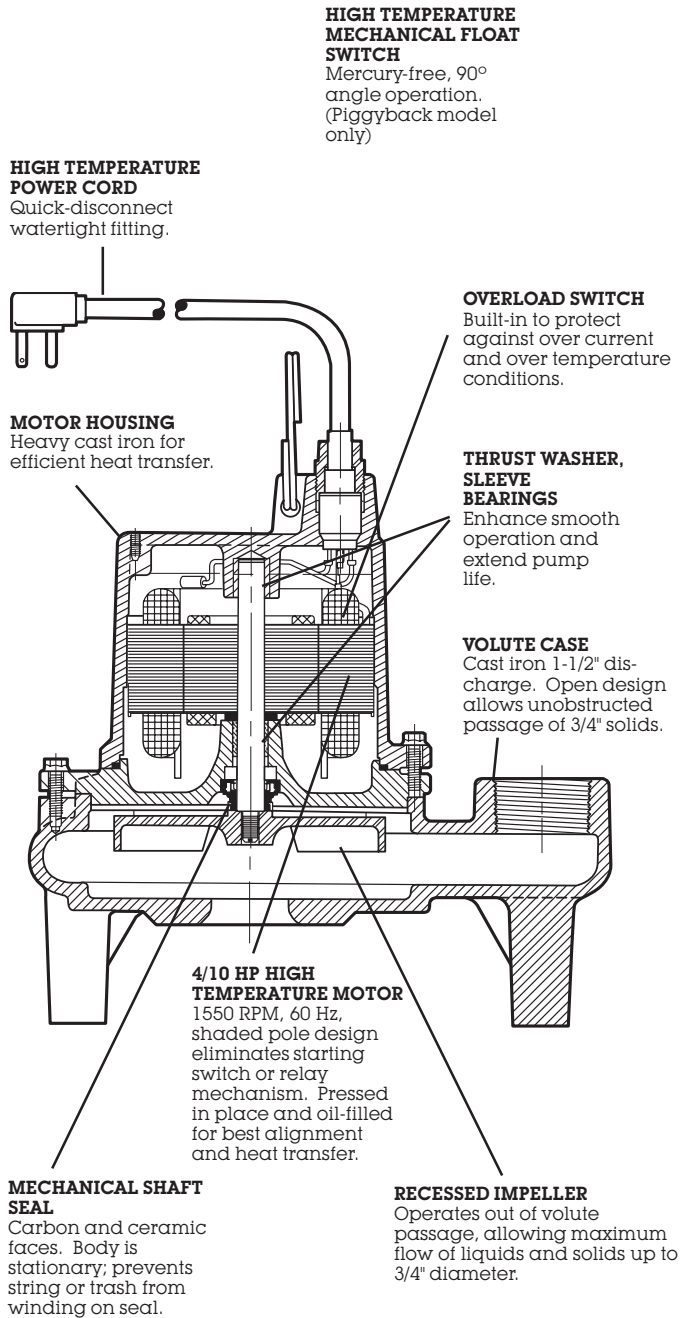
Capacities To	52 gpm	197 lpm
Heads To	23 ft.	7.0 m
Max. Spherical Solids	3/4 in.	19 mm
Liquids Handling	High temperature liquids	
Liquid Temp.	up to 195°F	up to 90°C
Motor Electrical Data	4/10 hp, 1550 rpm shaded pole, oil-filled 115 volts, 12.0 amps, 1 ph, 60 hz Class F Winding	
Third Party Approvals	CSA	
Acceptable pH Range	6 - 9	
Specific Gravity	.9 - 1.1	
Viscosity	28 - 35 SSU	
Discharge, NPT	1-1/2 in.	50.8 mm
Min. Sump Dia.	Simplex 24 in.	60.1 cm
	Duplex 36 in.	91.4 cm

### Construction Materials

Motor Housing	cast iron, Class 30, ASTM A48
Impeller	cast iron, Class 20
Impeller Type	recessed, vortex
Volute	cast iron, Class 30, ASTM A48
Power Cord	20 ft., 16/3 SJOOW/SJOOW-A
Mechanical Shaft Seal	carbon and ceramic
Fasteners	300 Series SST

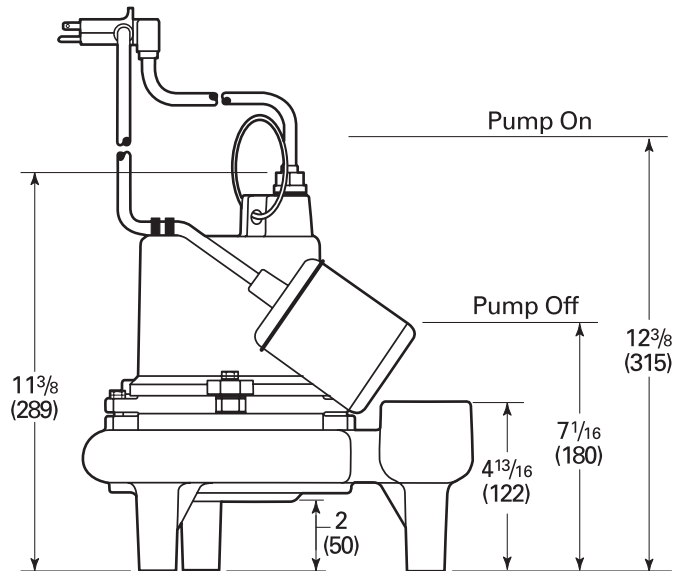
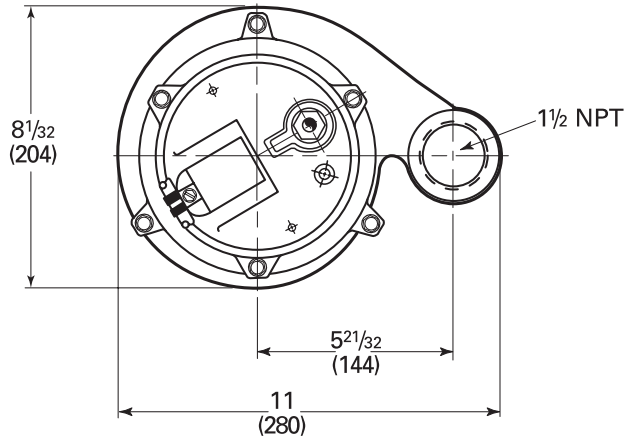
WHERE INNOVATION MEETS TRADITION

**Myers**<sup>®</sup>  
Pentair Water

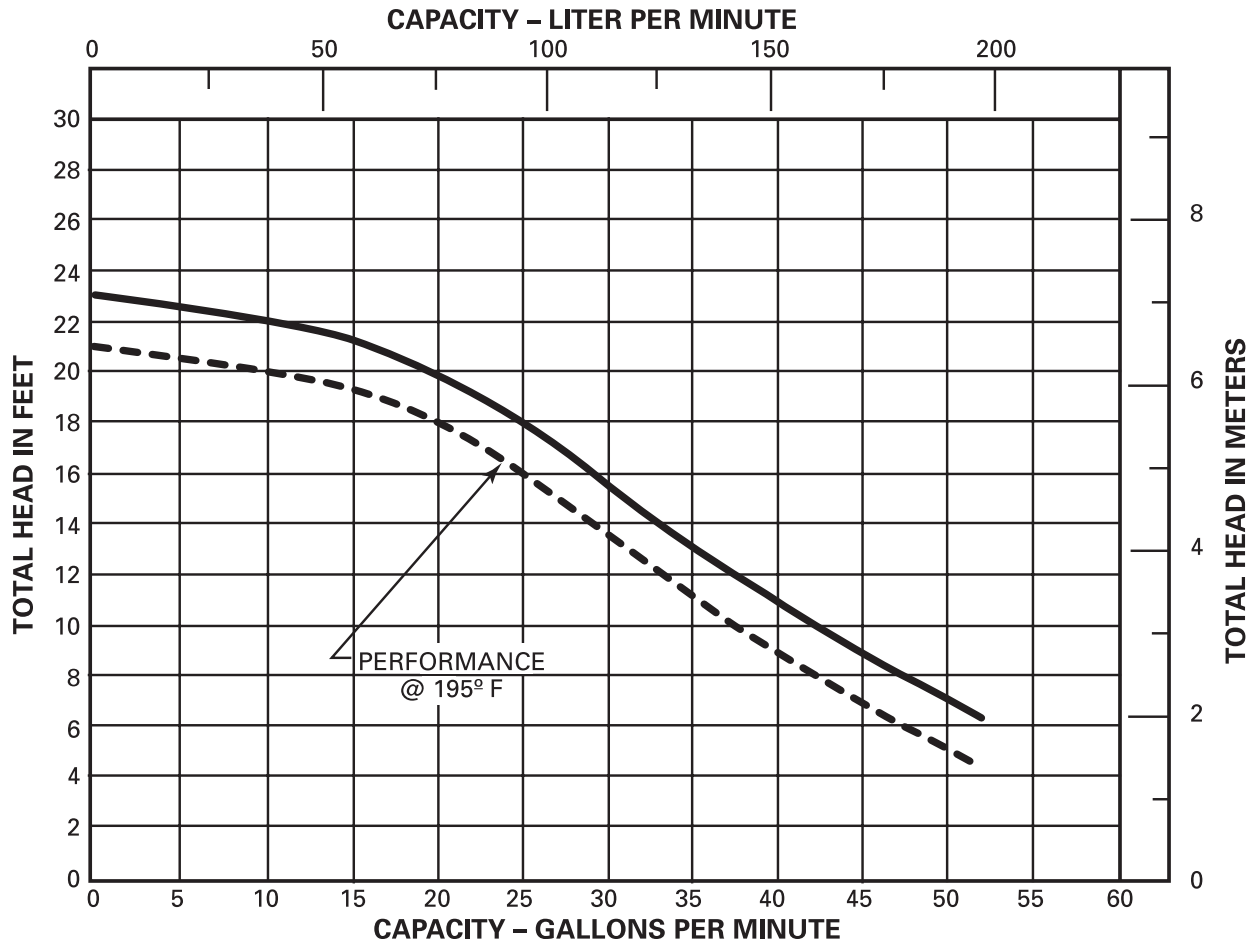


## DIMENSIONS

(dimensions in mm)



# PUMP PERFORMANCE



# S40HT SERIES

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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, 1 Ph, 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 SJOOW 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 the mechanical, 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 SJOOW 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 cast iron.

**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.

**FASTENERS** - All exposed fasteners shall be of 300 series stainless steel.