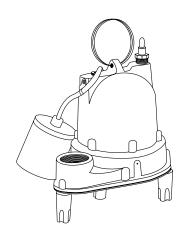
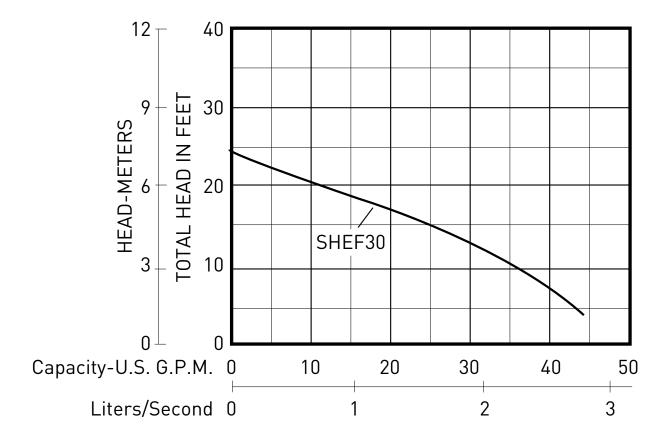
## SHEF30 SUBMERSIBLE HIGH HEAD EFFLUENT

Wholesale Products Page: 6350-1

Dated: January 2001

RPM: **1550** Discharge: **1 ½**" Solids: **¾**"





The curves reflect maximum performance characteristics without exceeding full load (Nameplate) horsepower. All pumps have a service factor of 1.2. Operation is recommended in the bounded area with operational point within the curve limit. Performance curves are based on actual tests with clear water at 70° F. and 1280 feet site elevation.



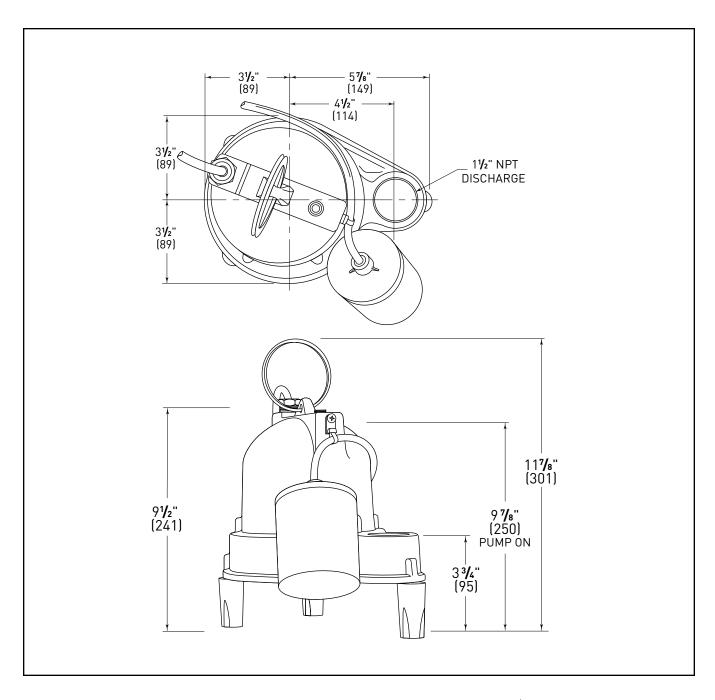
Conditions of Service:

GPM:\_\_\_\_\_ TDH:\_\_\_\_

## SHEF30 SUBMERSIBLE HIGH HEAD EFFLUENT

Wholesale Products Page: 6350-2

Dated: January 2001



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. We reserve the right to make revisions to our product (s) and the product (s) specifications without notice.



# SHEF30 SUBMERSIBLE HIGH HEAD EFFLUENT

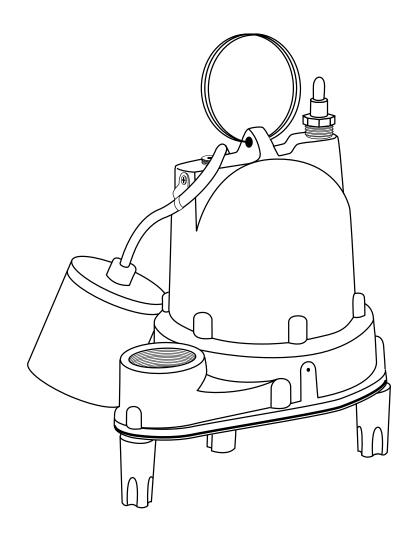
Wholesale Products Page: 6350-3

Dated: January 2001

## **MODEL: SHEF30**

R.P.M.	1550
MOTOR TYPE	SHADED POLE WITH THERMAL OVERLOAD, OIL FILLED
MOTOR PROTECTION	AUTOMATIC RESET / OVERLOAD PROTECTED

HP	VOLTAGE	PHASE	NEC CODE	SERVICE FACTOR	FULL LOAD AMPS
1/3	115	1	<del>-</del>	1	8.0





# **HYDROMATIC®**

## SHEF30 SUBMERSIBLE HIGH HEAD EFFLUENT

Wholesale Products Page: 6350-4

Dated: January 2001

### **MODEL: SHEF30**

## **Physical Data**

DISCHARGE SIZE	1 ½" NPT
SOLIDS SIZE	3/4"
IMPELLER TYPE	VORTEX
CABLE LENGTH	20' STANDARD
PAINT	PAINTED DARK GREEN, WATER REDUCIBLE ENAMEL, ONE COAT, AIR DRIED.

### **Temperature**

MAXIMUM LIQUID	140°F
MAXIMUM STATOR	-
OIL FLASH POINT	-

### **Technical Data**

POWER CORD TYPE		SJTW
OF FION	MOTOR HOUSING	CAST IRON
	CASING	CAST IRON
MATERIALS (	IMPELLER	THERMOPLASTIC
ERI STR	MOTOR SHAFT	STEEL
HARDWA	HARDWARE	STAINLESS STEEL
	"0" RINGS	BUNA-N
MECHANICAL SEALS		
	Standard:	CARBON / CERAMIC
UPPER BEARING		N/A
LOWER BEARING		SINGLE ROW-BALL



## **HYDROMATIC®**

### **SPECIFICATION DATA**

## SHEF30 SUBMERSIBLE HIGH HEAD EFFLUENT

Wholesale Products Page: 6350-5

Dated: January 2001

### **MODEL: SHEF30**

1	.01	GENERAL
- 1	. U I	GENERAL

DECICAL COMPITIONS
as manufactured by Hydromatic Pumps.
this specification is the SHEF30. The pump furnished for this application shall be MODEL
(Qty.) submersible centrifugal high head effluent pump(s) as specified herein. The pump model covered in
Contractor shall furnish all labor, materials, equipment and incidentals required to provide

## 2.01 **DESIGN CONDITIONS**

Each pump s	shall be rated	<sub>.</sub> H.P.,	volts,	phase,	hertz and	operate
at	RPM.					

#### 3.01 OPERATING CONDITIONS

The pump shall deliver	U.S. GPM/LPS at feet/meters TDH, and handle a	_inch solid.
The curve submitted for approval	shall state, in addition to head and capacity performance, s	solid handling
capability, amp rating, and desigr	impeller diameter.	

#### 4.01 **CONSTRUCTION**

Each pump shall be of the sealed submersible type, incorporating features normally found in pumps furnished for the residential market.

These features include:

- 1. The pump volute, motor, and seal housing shall be high quality gray cast iron, ASTM A-48, Class 30.
- 2. The pump inlet shall be open and clear, without screening to provide access for effluent and septic tank solids.
- 3. All external mating parts shall be machined and Buna N, O-Ring sealed.
- 4. All fasteners exposed to the pumped liquid shall be 300 series stainless steel.
- 5. All power cords shall be water resistant UL or CSA approved, with double insulation, and sized as a function of Amp. draw.

#### 5.01 MOTOR AND SHAFT

The stator, rotor and bearings shall be mounted in a sealed submersible type housing. Single phase motors shall be shaded pole (SHEF30). Three phase motors shall be Polyphase. Full Load and Locked Rotor Amps as well as Start and Run winding resistance shall be tabulated for each pump.

### 6.01 BEARINGS, SHAFT AND MECHANICAL SEAL

An upper bushing and lower thrust bearing shall be required. The upper bearing shall be Cast Iron (SHEF30), while the lower bearing is a single row ball. The bearings will be permanently and continuously lubricated and cooled by the dielectric oil which fills the motor housing. The motor shaft shall be corrosion resistant steel and sealed from the pumped liquid with a carbon ceramic mechanical seal.



## **HYDROMATIC®**

## **SPECIFICATION DATA**

## SHEF30 SUBMERSIBLE HIGH HEAD EFFLUENT

Wholesale Products Page: 6350-6

Dated: January 2001

### 7.01 **IMPELLER**

The Impeller in the SHEF30 shall be thermoplastic, eight vane, vortex design with three pump out vanes on the back side. These vanes wash out grit and stringy material that will damage the shaft and mechanical seal.

#### 8.01 **AUTOMATIC CONTROL**

All single phase pumps should be capable of automatic operation.

#### 9.01 FLOAT SWITCH

The SHEF30 pump is supplied with a tilt sensitive wide-angle float switch which is sealed in a non-corrosive PVC enclosure. The switch is UL listed for water and sewage and CSA certified. The float switch shall also be fitted with a piggy-back plug that allows the pump to be operated manually without removal from the sump.

#### 10.01 **PAINTING**

All cast iron parts shall be painted before assembly with a water reducible alkyd air dried enamel. The paint shall be applied in one coat with a minimum thickness of 3 to 4 mils.

#### 11.01 **TESTING**

All pumps shall be individually tested to include the following:

- 1. The pump and power cord shall be visually inspected for imperfections, cuts or nicks.
- 2. The pump shall have a ground continuity check and the motor chamber shall be Hi-potted to test for moisture content and/or insulation defects.
- 3. The motor and volute housing shall be pressurized and a 10 second air leak decay test run.
- 4. Oil is added, and the pump is run. Voltage and current are monitored visually, electronically, and the tester listens for any noise or malfunction.



USA

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