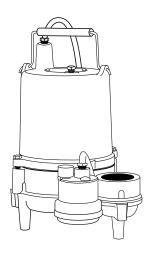
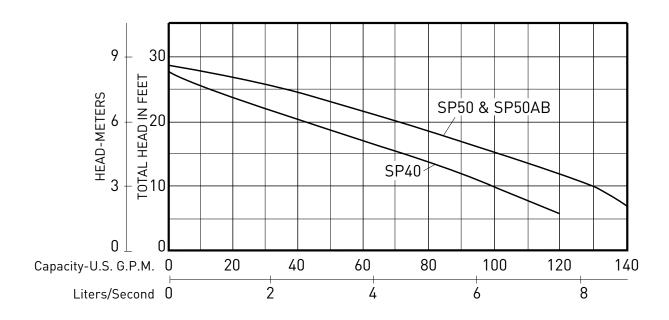
SP40 SUBMERSIBLE SEWAGE EJECTOR

Wholesale Products Page: 6140-1

Dated: January 2001

RPM: **1750** Discharge: **2"** Solids: **1 1/4"**





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.



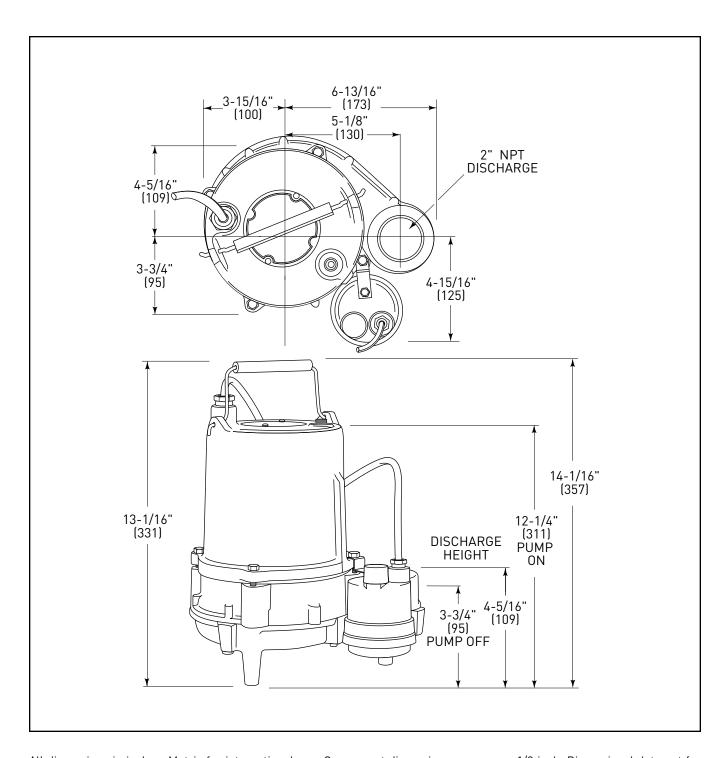
Conditions of Service:

GPM:_____ TDH:____

SP40 SUBMERSIBLE SEWAGE EJECTOR

Wholesale Products Page: 6140-2

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.



SP40 SUBMERSIBLE SEWAGE EJECTOR

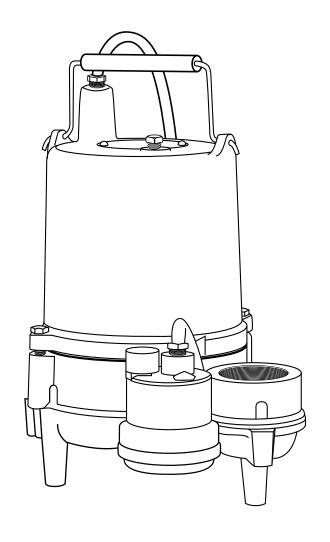
Wholesale Products Page: 6140-3

Dated: January 2001

MODEL: SP40

R.P.M.	1750
MOTOR TYPE	OIL FILLED WITH AUTOMATIC RESET THERMAL OVERLOAD
GENERAL INSULATION CLASS	Α
MOTOR PROTECTION	AUTOMATIC RESET / THERMAL OVERLOAD

HP	VOLTAGE	PHASE	NEC CODE	SERVICE FACTOR	FULL LOAD AMPS
4/10	115	1	-	1	9.5
	230				4.7





SP40 SUBMERSIBLE SEWAGE EJECTOR

Wholesale Products Page: 6140-4

Dated: January 2001

MODEL: SP40 Physical Data

DISCHARGE SIZE	2" NPT
SOLIDS SIZE	1/4"
IMPELLER TYPE	NON CLOG
CABLE LENGTH	10' STANDARD 20' OPTIONAL
PAINT	PAINTED AFTER ASSEMBLY, 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
S OF TION	MOTOR HOUSING	CAST IRON
	CASING	CAST IRON
AL9	IMPELLER	THERMOPLASTIC
ERI STR	MOTOR SHAFT	STEEL
MATERIALS	HARDWARE	STAINLESS STEEL
	"0" RINGS	BUNA-N
MECHA	ANICAL SEALS	
	Standard:	CARBON / CERAMIC
UPPER BEARING		SINGLE ROW-BALL
LOWER BEARING		SINGLE ROW-BALL



SPECIFICATION DATA

SP40 SUBMERSIBLE SEWAGE EJECTOR

capability, amp rating, and design impeller diameter.

Wholesale Products Page: 6140-5 Dated: January 2001

MODEL: SP40

1	∩1	GENERAL

2.01

3.01

Contractor shall furnish all labo (Qty.) submersible centrifugal sethis specification is the SP40. The manufactured by Hydromatic Pu	ewage ejector p le pump furnisl	nump(s) as speci	ified herein. The pu	ımp model covered in
DESIGN CONDITIONS				
Each pump shall be rated at RPM.	H.P.,	volts,	phase,	hertz and operate
OPERATING CONDITIONS				
The pump shall deliver	_ U.S. GPM/LP	S at feet/meters	TDH, and handle	a inch solid.

The curve submitted for approval shall state, in addition to head and capacity performance, solid handling

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 sewage and 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 split phase or capacitor start with centrifugal switch. 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 radial and lower thrust bearing shall be required. These shall be heavy duty single row ball bearings which are permanently and continuously lubricated and cooled by the dielectric oil which fills the motor housing. The motor shaft shall be stainless steel and sealed from the pumped liquid with a carbon ceramic mechanical seal.



SPECIFICATION DATA

SP40 SUBMERSIBLE SEWAGE EJECTOR

Wholesale Products Page: 6140-6 Dated: January 2001

7.01 **IMPELLER**

The Impeller shall be high capacity, two vane, non-clog design with 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 PRESSURE SWITCH

The Single Phase SP40 pump is furnished with a pressure diaphragm switch that features 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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