

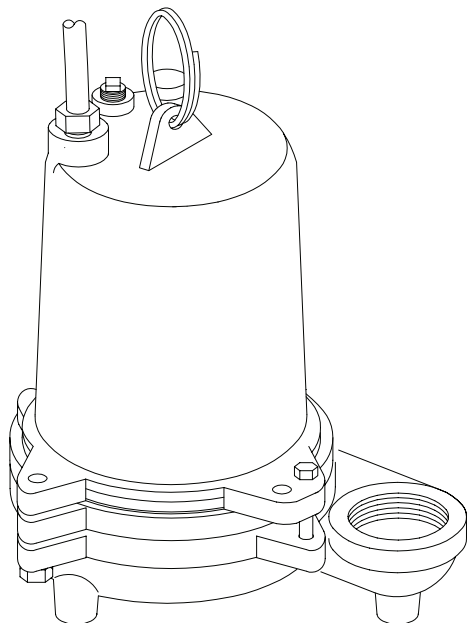
Series BP-HT

High Temperature - 3/4" Spherical Solids Handling
Manual & Automatic - Submersible

BARNES®

www.cranepumps.com

Submersible Effluent Pumps



Series: BP314HT & BP324HT
1/3HP, 1750RPM, 60Hz,
Cast Iron & Bronze



DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN **HIGH TEMPERATURE** SEPTIC TANK/EFFLUENT APPLICATIONS.

Specifications:

DISCHARGE	2" NPT, Female, Vertical
LIQUID TEMPERATURE	200°F (93°C) Continuous
VOLUTE	(BP) Cast Iron, (BP-BR) Bronze
MOTOR HOUSING	(BP) Cast Iron, (BP-BR) Bronze
SEAL PLATE	(BP) Cast Iron, (BP-BR) Bronze
IMPELLER: <i>Design</i>	2 Vane open, Dynamically Balanced, ISO G6.3
<i>Material</i>	Bronze 81-3-7-9
SHAFT	416 Stainless Steel
SQUARE RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: <i>Design</i>	Single Mechanical, Oil-Filled Reservoir, Secondary Exclusion Seal
<i>Material</i>	Carbon/Ceramic/Buna-N
CORD ENTRY	15 ft. (5m) Quick Disconnect Cord with plug On 115 volt, Pressure Grommet for sealing and strain relief
UPPER BEARING	Single Row, Ball, Oil Lubricated
LOWER BEARING	Single Row, Ball, Oil Lubricated
MOTOR, SINGLE PHASE	Permanent Split Capacitor (PSC). Oil Filled. Includes Overload Protection in Motor
<i>Insulation</i>	Class B
LEVEL CONTROLS	"A" - High Temperature, Wide Angle, Mechanical, N/O, 15 ft (5m) cord with Piggy-Back Plug, "AU" - High Temperature, Wide Angle, Polypropylene, Mechanical, N/O Integral to pump. ON and OFF points are adjustable
OPTIONAL EQUIPMENT	Seal Material, Additional Cable
RECOMMENDED:	
<i>Accessories</i>	Break Away Fitting (BAF) Check Valve Control Panel
<i>Seal Kit PN</i>	085202
<i>Service Kit PN</i>	085201

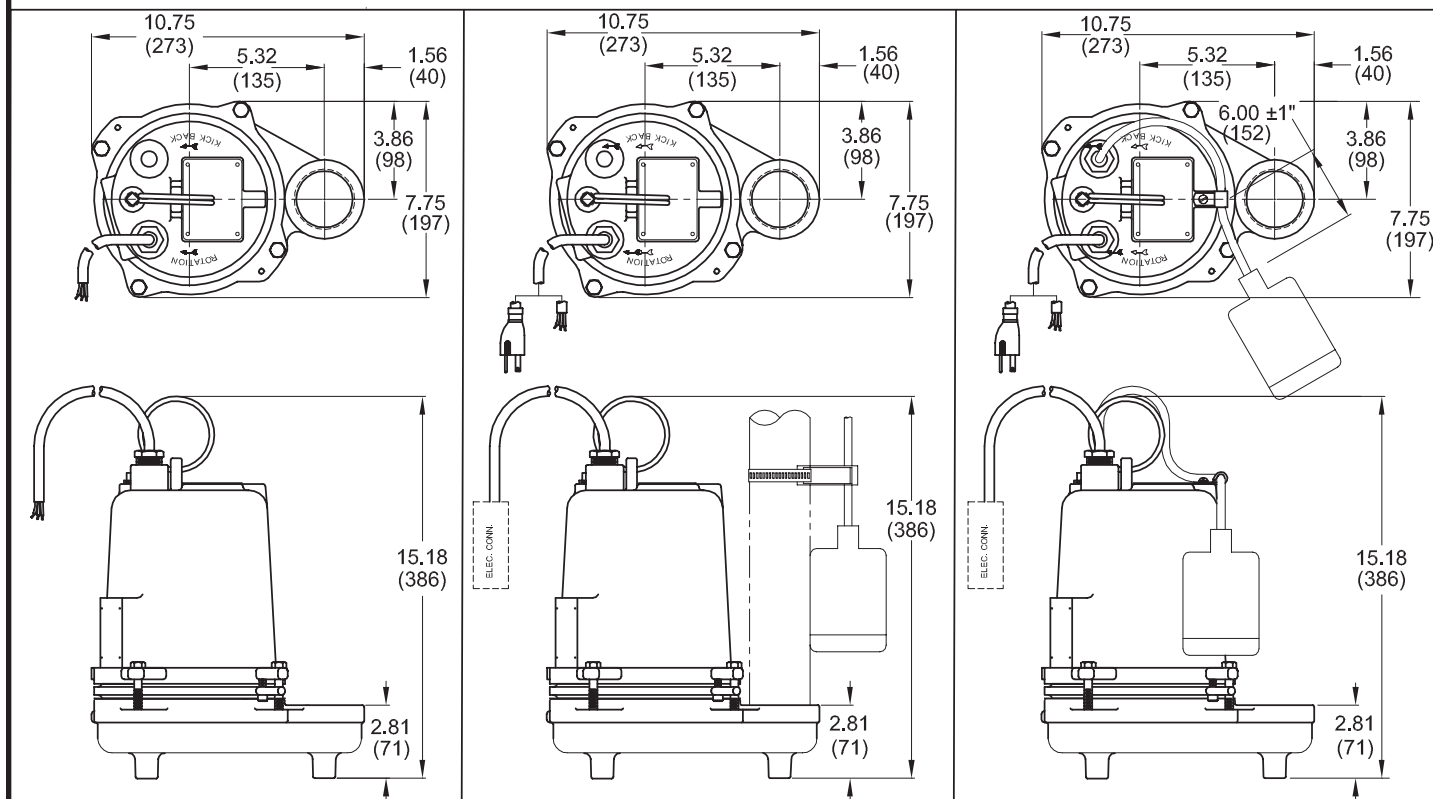
Submersible Effluent Pumps

BP314HT, BP314HTBR
BP324HT, BP324HTBR

BP314HTA, BP314HTABR

BP314HTAU, BP314HTAUBR
BP324HTAU, BP324HTAUBR

inches
(mm)



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
BP314HT	096737	1/3	115/1	60	1750	A	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTA	096738	1/3	115/1	60	1750	A	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTAU	096739	1/3	115/1	60	1750	A	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTBR	096742	1/3	115/1	60	1750	A	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTABR	096743	1/3	115/1	60	1750	A	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP314HTAUBR	096744	1/3	115/1	60	1750	A	8.0	19.0	14/3	SOOW	0.560 (14.2)
BP324HT	096740	1/3	230/1	60	1750	A	4.0	13.0	14/3	SOOW	0.560 (14.2)
BP324HTAU	096741	1/3	230/1	60	1750	A	4.0	13.0	14/3	SOOW	0.560 (14.2)
BP324HTBR	096745	1/3	230/1	60	1750	A	4.0	13.0	14/3	SOOW	0.560 (14.2)
BP324HTAUBR	096746	1/3	230/1	60	1750	A	4.0	13.0	14/3	SOOW	0.560 (14.2)

Mechanical Switch on BP314HTA, cord 14/2, SJOOW, 0.370 (9.4MM) O.D., Piggy-Back Plug.

Mechanical Switch on BP314HTAU & BP324HTAU, cord 14/2, SJOOW, 0.370 (9.4MM) O.D.

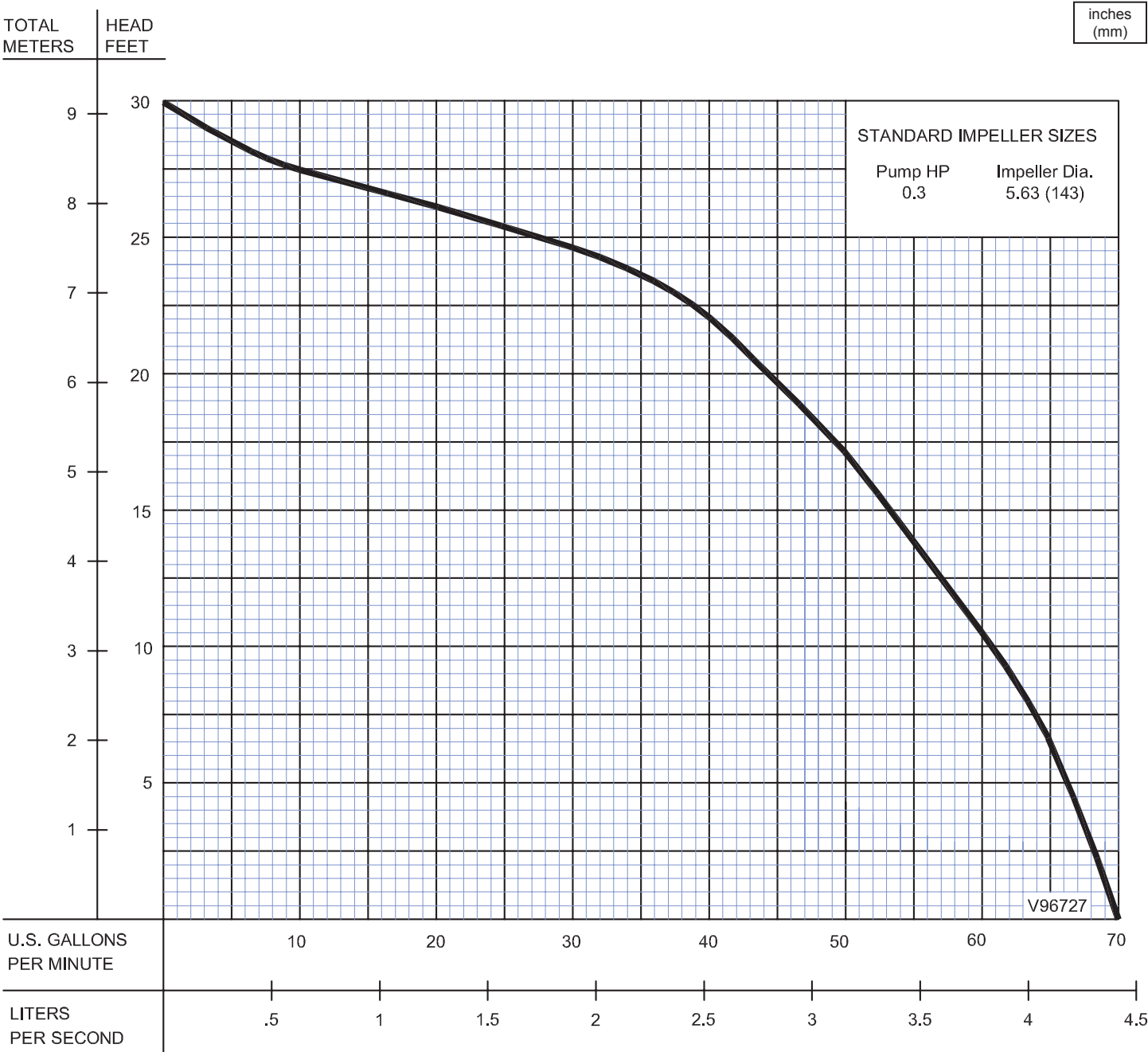
IMPORTANT !

- PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- MUST USE A **HIGH TEMPERATURE** WIDE ANGLE LEVEL CONTROL IN HIGH TEMPERATURE APPLICATIONS.

Series BP-HT

Performance Curve
1/3HP, 1750RPM, 60Hz

Submersible Effluent Pumps



STANDARD IMPELLER SIZES

Pump HP

0.3

Impeller Dia.

5.63 (143)

V96727

U.S. GALLONS PER MINUTE

10

20

30

40

50

60

70

LITERS PER SECOND

.5

1

1.5

2

2.5

3

3.5

4

4.5

Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance