

GENERAL INFORMATION

SPECIFICATIONS

CROSS-REFERENCE

INSTALLATION DRAWINGS

3A. SUBMERSIBLE EFFLUENT PUMPS

PUMP SERIES:

STEP-SS (.5 & 1HP)

STEP-DS (.5 & 1HP)

EHV412 (1/2HP)

EHV512 (1/2HP)

EH-L (.5, 1.0 & 1.5HP)

EH-DS (.5, 1.0 & 1.5HP)

EH-HT (.5 & 1.5HP)

BP (1/3HP)

BP-HT (1/3 HP)

EP52X (1/2HP)

EP72X (3/4HP)

SE (4/10HP)

SP33 (1/3HP)

SP50 (1/2HP)

SP75X (3/4HP)

SP33VFAL (1/3HP)

SP33HTX (1/3HP)

SP33EHT (1/3HP)



WARNING:

CANCER AND REPRODUCTIVE HARM -
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Submersible Effluent Pumps

*Previous Models		*Previous Models		Current Models		
MODEL	P/N	MODEL	P/N	MODEL	P/N	PAGE NO.
				STEP512SS	105045	1 - 3
				STEP512SSA	105045A	1 - 3
				STEP522SS	105046	1 - 3
				STEP532SS	105047	1 - 3
				STEP542SS	105048	1 - 3
				STEP552SS	105049	1 - 3
				STEP1022SS	105054	1 - 3
				STEP1022SSA	105054A	1 - 3
				STEP1032SS	105055	1 - 3
				STEP1042SS	105056	1 - 3
				STEP1052SS	105057	1 - 3
		STEP512L	084810V	STEP512DS	105040	4 - 6
STEP52	84054	STEP522L	084810	STEP522DS	105041	4 - 6
		STEP532L	089332	STEP592DS	105042	4 - 6
		STEP542L	089333	STEP542DS	105043	4 - 6
		STEP552L	089334	STEP552DS	105044	4 - 6
STEP	84053	STEP1022L	084811	STEP1022DS	105050	4 - 6
		STEP1032L	089335	STEP1092DS	105051	4 - 6
		STEP1042L	089336	STEP1042DS	105052	4 - 6
		STEP1052L	089337	STEP1052DS	105053	4 - 6
		BP314	093221	BP314	096727	23 - 25
		BP314A	093222	BP314A	096728	23 - 25
		BP314AU	093223	BP314AU	096729	23 - 25
				BP314VF	100834	23 - 25
		BP314BR	093227	BP314BR	096732	23 - 25
		BP314ABR	093228	BP314ABR	096733	23 - 25
		BP314AUBR	093229	BP314AUBR	096734	23 - 25
				BP314VFBR	100835	23 - 25
		BP324	093233	BP324	096730	23 - 25
		BP324A	093234			
		BP324AU	093235	BP324AU	096731	23 - 25
		BP324BR	093239	BP324BR	096735	23 - 25
		BP324ABR	093240			
		BP324AUBR	093241	BP324AUBR	096736	23 - 25
		BP314HT	093224	BP314HT	096737	26 - 28
		BP314HTA	093225	BP314HTA	096738	26 - 28
		BP314HTAU	093226	BP314HTAU	096739	26 - 28
		BP314HTBR	093230	BP314HTBR	096742	26 - 28
		BP314HTABR	093231	BP314HTABR	096743	26 - 28
		BP314HTAUBR	093232	BP314HTAUBR	096744	26 - 28
		BP324HT	093236	BP324HT	096740	26 - 28
		BP324HTA	093237			
		BP324HTAU	093238	BP324HTAU	096741	26 - 28
		BP324HTBR	093242	BP324HTBR	096745	26 - 28
		BP324HTABR	093243			
		BP324HTAUBR	093244	BP324HTAUBR	096746	26 - 28

Previous Models are Discontinued. Consult Factory for current replacement if not shown.

Cross-Reference Chart

Engineered Pump

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Submersible Effluent Pumps

*Previous Models		*Previous Models		Current Models		
MODEL	P/N	MODEL	P/N	MODEL	P/N	PAGE NO.
		SE411	068701	SE411	096747	35 - 37
		SE411A	082215	SE411A	096748	35 - 37
		SE411AU	093193	SE411AU	096749	35 - 37
				SE411VF	100836	35 - 37
		SE421	082089	SE421	096750	35 - 37
		SE421A	093194			
		SE421AU	093195	SE421AU	096751	35 - 37
		EH512L	084815	EH512L	105058	14 - 16
		EH522L	084816	EH522L	105059	14 - 16
		EH532L	084817	EH592L	105060	14 - 16
		EH542L	084818	EH542L	105061	14 - 16
		EH552L	088619	EH552L	105062	14 - 16
		EH1022L	084819	EH1022L	105068	14 - 16
		EH1032L	084820	EH1092L	105069	14 - 16
		EH1042L	084821	EH1042L	105070	14 - 16
		EH1052L	088620	EH1052L	105071	14 - 16
				EH1522L	105076	14 - 16
				EH1592L	105077	14 - 16
				EH1542L	105078	14 - 16
				EH1552L	105079	14 - 16
				EH512DS	105063	17 - 19
				EH522DS	105064	17 - 19
				EH592DS	105065	17 - 19
				EH542DS	105066	17 - 19
				EH552DS	105067	17 - 19
				EH1022DS	105072	17 - 19
				EH1092DS	105073	17 - 19
				EH1042DS	105074	17 - 19
				EH1052DS	105075	17 - 19
				EH1522DS	105080	17 - 19
				EH1592DS	105081	17 - 19
				EH1542DS	105082	17 - 19
				EH1552DS	105083	17 - 19
				EH512HT	105084	20 - 22
				EH522HT	105085	20 - 22
				EH1522HT	105093	20 - 22
				EH1592HT	105094	20 - 22
				EH1542HT	105095	20 - 22
				EHV412	101298	7 - 9
				EHV412A	103542	7 - 9
		EHV412X	101299			
		EHV412AX	101301			
		EHV412VFX	101303			
				EHV412VF	101300	7 - 9
				EHV412AT	103543	7 - 9
				EHV412	101298G	7 - 9

Previous Models are Discontinued. Consult Factory for current replacement if not shown.

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Submersible Effluent Pumps

*Previous Models		*Previous Models		Current Models		
MODEL	P/N	MODEL	P/N	MODEL	P/N	PAGE NO.
E202	62607	E2022L	084812	STEP1022SS	105054	1 - 3
2EH-51H	.5HP/115/1	EHH512L	088567	EH512L	105058	14 - 16
2EH-52H	.5HP/230/1	EHH522L	088568	EH522L	105059	14 - 16
2EH411	.4HP/115/1	EHH412L	088558	EH512L	105058	14 - 16
2EH412	.4HP/230/1	EHH422L	088559	EH522L	105059	14 - 16
2EH413	.4HP/230/3	EHH432L	088560	EH592L	105060	14 - 16
2EH414	.4HP/460/3	EHH442L	088561	EH542L	105061	14 - 16
2EH415	.4HP/575/3	EHH452L	088562	EH552L	105062	14 - 16
2EH1012	1.0HP/230/1	EHH1022L	088563	EH1022L	105068	14 - 16
2EH1013	1.0HP/230/3	EHH1032L	088564	EH1092L	105069	14 - 16
2EH1014	1.0HP/460/3	EHH1042L	088565	EH1042L	105070	14 - 16
2EH1015	1.0HP/575/3	EHH1052L	088566	EH1052L	105071	14 - 16
2H51	.5HP/115/1	H512L	088621	STEP512SS	105045	1 - 3
2H52	.5HP/230/1	H522L	088622	STEP522SS	105046	1 - 3
2H53	.5HP/230/3	H532L	088623	STEP532SS	105047	1 - 3
2H54	.5HP/460/3	H542L	088624	STEP542SS	105048	1 - 3
2H55	.5HP/575/3	H552L	088625	STEP552SS	105049	1 - 3
2H102	1.0HP/230/1	H1022L	088626	STEP1022SS	105054	1 - 3
2H103	1.0HP/230/3	H1032L	088627	STEP1032SS	105055	1 - 3
2H104	1.0HP/460/3	H1042L	088628	STEP1042SS	105056	1 - 3
2H105	1.0HP/575/3	H1052L	088629	STEP1052SS	105057	1 - 3
2E51	.5HP/115/1	E512L	088610	EH512L	105058	14 - 16
2E52	.5HP/230/1	E522L	088611	EH522L	105059	14 - 16
2E53	.5HP/230/3	E532L	088612	EH592L	105060	14 - 16
2E54	.5HP/460/3	E542L	088613	EH542L	105061	14 - 16
2E55	.5HP/575/3	E552L	088614	EH552L	105062	14 - 16
2E102	1.0HP/230/1	E1022L	088615	EH1022L	105068	14 - 16
2E103	1.0HP/230/3	E1032L	088616	EH1092L	105069	14 - 16
2E104	1.0HP/460/3	E1042L	088617	EH1042L	105070	14 - 16
2E105	1.0HP/575/3	E1052L	088618	EH1052L	105071	14 - 16
SPRINT II	N0202-3503J-001	SPRINT II-512L	N0202-3503J-001	EH512L	105058	14 - 16
SPRINT II	N0202-3A03J-001	SPRINT II-502L	N0202-3A03J-001			
SPRINT II	N0202-3F03J-001	SPRINT II-522L	N0202-3F03J-001	EH522L	105059	14 - 16
SPRINT II	N0202-3K03J-001	SPRINT II-562L	N0202-3K03J-001	EH592L	105060	14 - 16
SPRINT II	N0202-3P03J-001	SPRINT II-532L	N0202-3P03J-001	EH592L	105060	14 - 16
SPRINT II	N0202-3U03J-001	SPRINT II-542L	N0202-3U03J-001	EH542L	105061	14 - 16
SPRINT II	N0202-3#03J-001	SPRINT II-552L	N0202-3#03J-001	EH552L	105062	14 - 16
				EHV512	143984	11 - 13
				EHV512A	143985	11 - 13
				EHV512	144668	11 - 13
				EHV512A	144669	11 - 13
SPRINT II	N0202-5A04C-001	SPRINT II-1002L	N0202-5A04C-001			
SPRINT II	N0202-5F04C-001	SPRINT II-1022L	N0202-5F04C-001	EH1022L	105068	13 - 15
SPRINT II	N0202-5K04C-001	SPRINT II-1062L	N0202-5K04C-001	EH1092L	105069	13 - 15
SPRINT II	N0202-5P04C-001	SPRINT II-1032L	N0202-5P04C-001	EH1092L	105069	13 - 15

Previous Models are Discontinued. Consult Factory for current replacement if not shown.

Cross-Reference Chart

Engineered Pump

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Submersible Effluent Pumps

*Previous Models		*Previous Models		Current Models		
MODEL	P/N	MODEL	P/N	MODEL	P/N	PAGE NO.
SPRINT II	N0202-5U04C-001	SPRINT II-1042L	N0202-5U04C-001	EH1042L	105070	13 - 15
SPRINT II	N0202-5#04C-001	SPRINT II-1052L	N0202-5#04C-001	EH1052L	105071	13 - 15
SPRINT II	N0222-3503J-001	SPRINT IIA-512L	093213			
SPRINT II	N0222-3A03J-001	SPRINT IIA-502L	-----			
SPRINT II	N0222-3F03J-001	SPRINT IIA-522L	093215			
SPRINT II	N0202-3503J-002	SPRINT II-512HT	N0202-3503J-002	EH512HT	105084	19 - 21
SPRINT II	N0202-3A03J-002	SPRINT II-502HT	N0202-3A03J-002			
SPRINT II	N0202-3F03J-002	SPRINT II-522HT	N0202-3F03J-002	EH522HT	105085	19 - 21
SPRINT II	N0202-3K03J-002	SPRINT II-562HT	N0202-3K03J-002			
SPRINT II	N0202-3P03J-002	SPRINT II-532HT	N0202-3P03J-002			
SPRINT II	N0202-3U03J-002	SPRINT II-542HT	N0202-3U03J-002			
SPRINT II	N0202-3#03J-002	SPRINT II-552HT	N0202-3#03J-002			
SPRINT II	N0202-5A04C-002	SPRINT II-1002HT	N0202-5A04C-002			
SPRINT II	N0202-5F04C-002	SPRINT II-1022HT	N0202-5F04C-002	EH1522HT	105093	19 - 21
SPRINT II	N0202-5K04C-002	SPRINT II-1062HT	N0202-5K04C-002	EH1592HT	105094	19 - 21
SPRINT II	N0202-5P04C-002	SPRINT II-1032HT	N0202-5P04C-002	EH1592HT	105094	19 - 21
SPRINT II	N0202-5U04C-002	SPRINT II-1042HT	N0202-5U04C-002	EH1542HT	105095	19 - 21
SPRINT II	N0202-5#04C-002	SPRINT II-1052HT	N0202-5#04C-002			
SPRINT II	N0222-3503J-002	SPRINT IIA-512HT	093214			
SPRINT II	N0222-3A03J-002	SPRINT IIA-502HT	-----			
SPRINT II	N0222-3F03J-002	SPRINT IIA-522HT	093216			
		BP33	100945	SP33	112547	38 - 39
		BP33X	100945A	SP33X	112548	38 - 39
		BP33A	100946	SP33A	112549	38 - 39
		BP33AX	100946A	SP33AX	112550	38 - 39
		BP33VF	100947	SP33VF	112551	38 - 39
		BP33VFX	100947A	SP33VFX	112552	38 - 39
				SP33D	118371	38 - 39
				SP33HTX	113667	50 - 52
				SP33VFAL	112914	47 - 49
				SP33EHT	113667A	53 - 55
				SP33EHTA	113667B	53 - 55
		BP50	100948			
		BP50X	100948A	SP50X	112875	41 - 43
		BP50A	100949			
		BP50AX	100949A	SP50AX	112877	41 - 43
		BP50VF	103605			
		BP50VFX	103605A	SP50VFX	112879	41 - 43
				SP75X	115368	44 - 46
				SP75AX	115369	44 - 46
				SP75VFX	115370	44 - 46
				EP52X	119330	29 - 31
				EP52AX	119411	29 - 31
				EP52VFX	119412	29 - 31
				EP72X	119331	32 - 34
				EP72AX	119413	32 - 34
				EP72VFX	119414	32 - 34

Previous Models are Discontinued. Consult Factory for current replacement if not shown.

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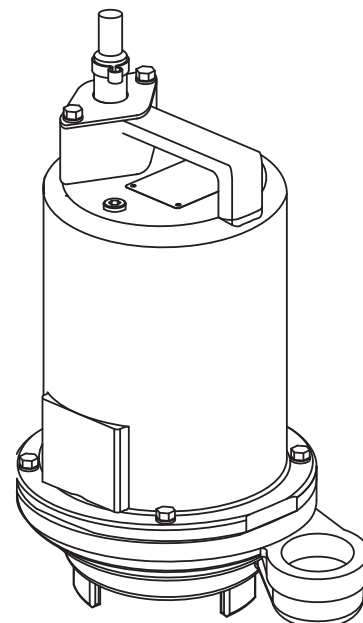
Submersible Effluent Pumps

Specifications:

DISCHARGE	2" NPT, Female, Vertical
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER: Design	Single Vane, Enclosed
Material	Polypropylene with stainless steel insert
SHAFT	416 Stainless Steel
SQUARE RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Single Mechanical
Material	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	20 ft. (6.1m) Cord with plug on 120 volt & 240 volt, 1 phase. Quick connect custom molded for sealing and strain relief
UPPER BEARING	Single Row, Ball, Oil lubricated
LOWER BEARING	Single Row, Ball, Oil lubricated
MOTOR: Design	NEMA L -Single Phase, NEMA B -Three Phase Torque Curve, Oil Filled, Squirrel Cage Induction
Insulation	Class B
SINGLE PHASE	Permanent Split Capacitor (PSC) Includes Overload Protection in Motor
THREE PHASE	200-240/480 is Tri-Voltage. 600V. Requires Overload Protection to be included in control panel
LEVEL CONTROL	"A" - Wide Angle, PVC, Mechanical, Pipe Mounted, 20 ft. (6.1m) cord with Piggy-Back Plug
OPTIONAL EQUIPMENT	Seal Material, Impeller Trims, Additional cord, Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay in control panel).

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel
Seal Kit PN	130176
Service Kit PN	130172



Series: STEP-SS

.5 & 1HP, 3450RPM, 60Hz

Sample Specifications: Section 3 Page 2.

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.



WARNING:

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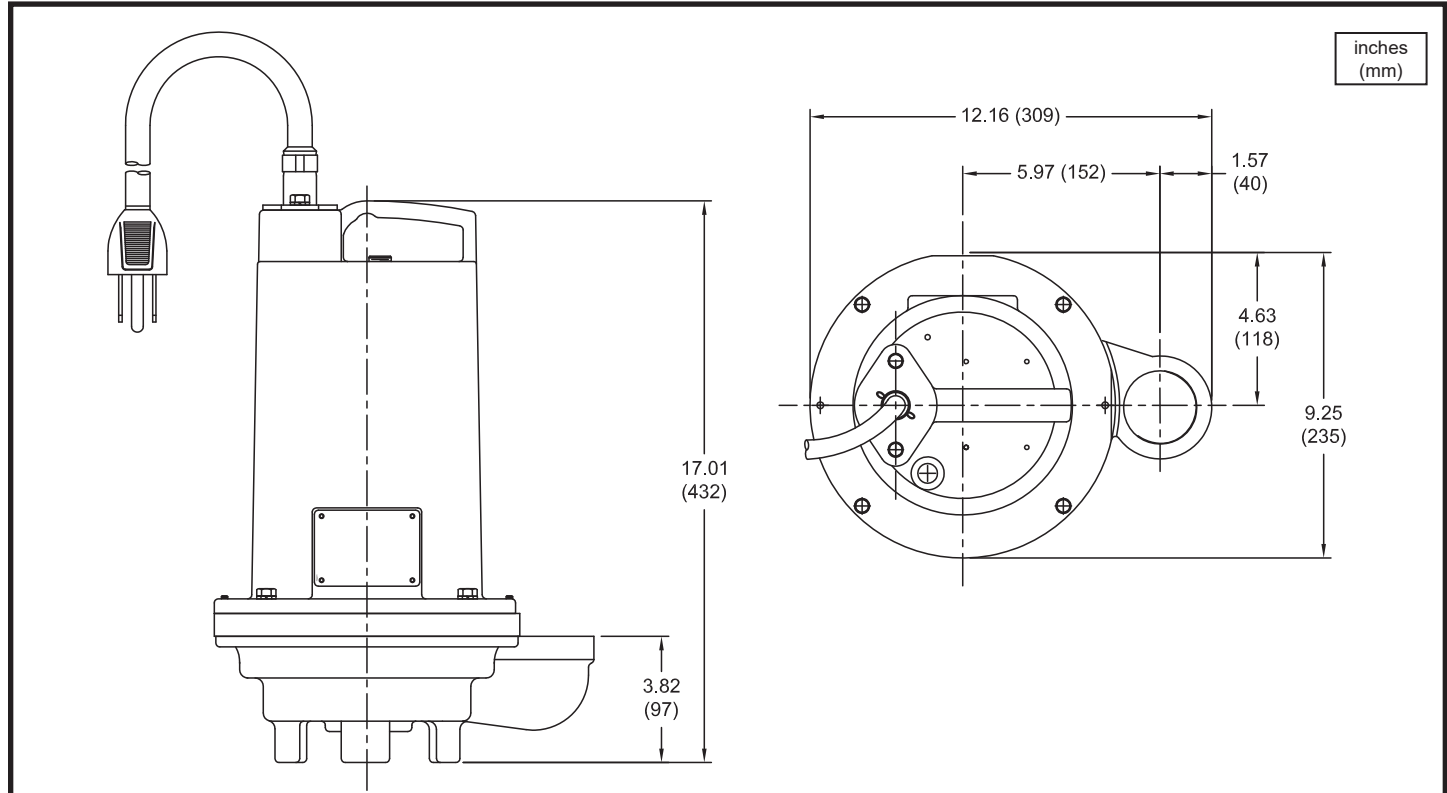
Series STEP-SS

3/4" Spherical Solids Handling
Single Seal

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Submersible Effluent Pumps



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)
STEP512SS	105045	0.5	120/1	60	3450	G	11.9	24.6	14/3	SJTOW	0.375 (9.5)
STEP512SSA	105045A	0.5	120/1	60	3450	G	11.9	24.6	14/3	SJTOW	0.375 (9.5)
STEP522SS	105046	0.5	240/1	60	3450	E	5.1	10.2	14/3	SOW	0.530 (13.5)
STEP592SS	105047	0.5	200/240/3	60	3450	P/R	4.5/4.5	19.9/18.4	14/4	SOW	0.570 (14.5)
STEP542SS	105048	0.5	480/3	60	3450	R	2.2	9.1	14/4	SOW	0.570 (14.5)
STEP552SS	105049	0.5	600/3	60	3450	T	1.8	8.7	14/4	SOW	0.570 (14.5)
STEP1022SS	105054	1.0	240/1	60	3450	F	8.3	21.8	14/3	SOW	0.530 (13.5)
STEP1092SS	105055	1.0	200/240/3	60	3450	H/J	5.9/5.6	19.9/18.4	14/4	SOW	0.570 (14.5)
STEP1042SS	105056	1.0	480/3	60	3450	J	2.8	9.1	14/4	SOW	0.570 (14.5)
STEP1052SS	105057	1.0	600/3	60	3450	L	2.2	8.7	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, .530 (13.5mm) O.D.

IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) 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.

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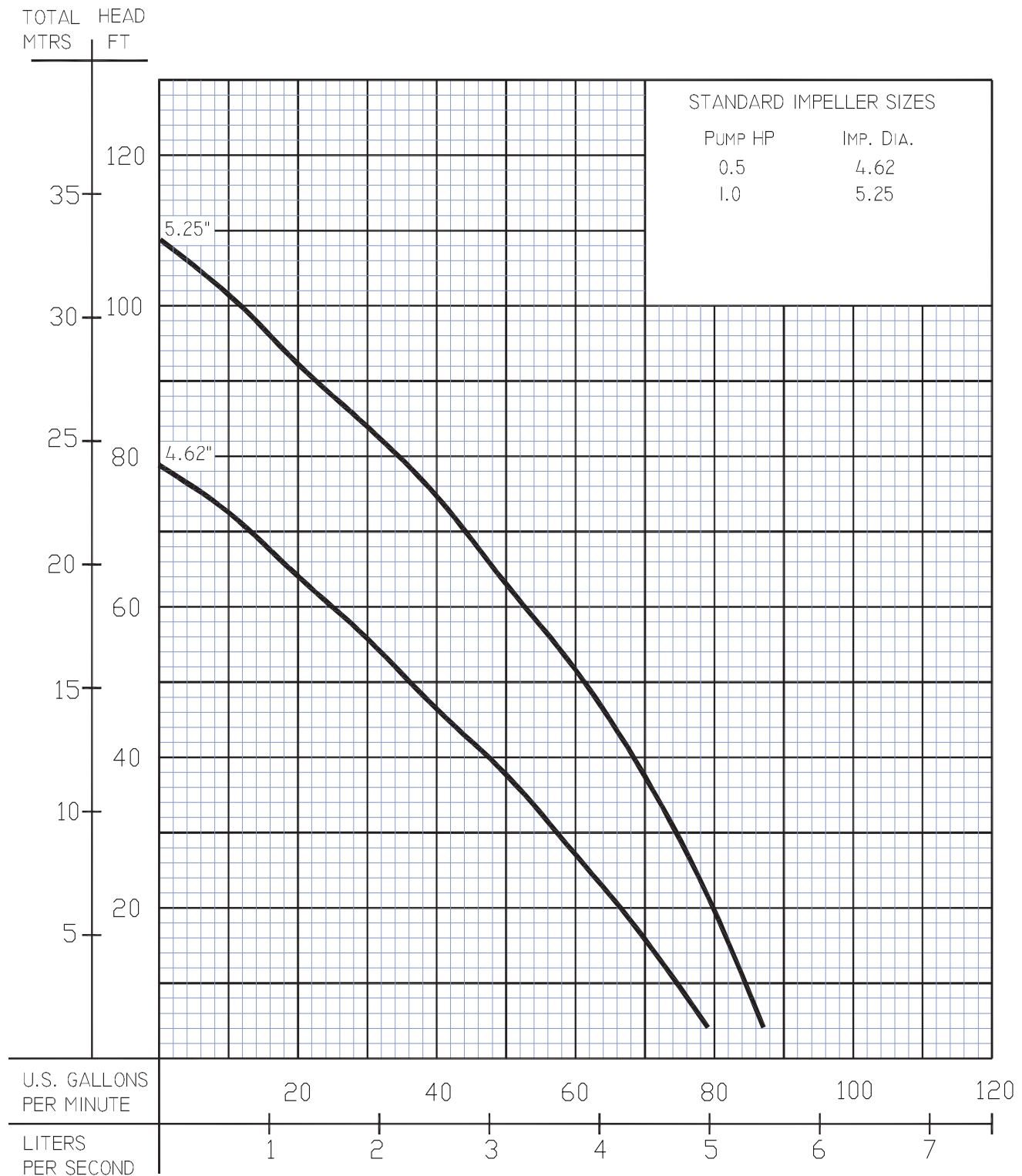
CRANE®

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PUMPS & SYSTEMS

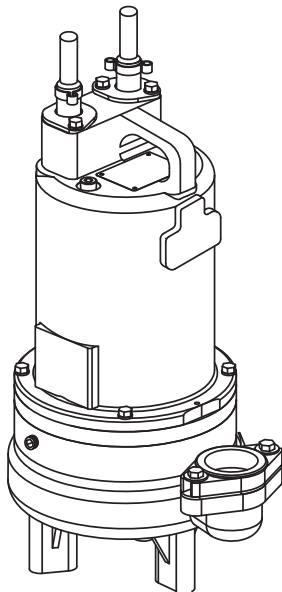
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Submersible Effluent Pumps



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

Submersible Effluent Pumps



Specifications:

DISCHARGE	2" NPT, Female, Vertical
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER: Design	Single Vane, Enclosed
Material	Polypropylene with stainless steel insert Dynamically Balanced, ISO G6.3
SHAFT	416 Stainless Steel
SQUARE RINGS.....	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Tandem Mechanical, Oil Filled reservoir
Material	Carbon/Ceramic/Buna-N Hardware -300 Series Stainless
CORD ENTRY	20 ft. (6.1m) Cord with plug on 120 volt & 240 volt, 1 phase. Quick connect custom molded for sealing and strain relief
UPPER BEARING.....	Single Row, Ball, Oil lubricated
LOWER BEARING.....	Single Row, Ball, Oil lubricated
MOTOR: Design	NEMA L -Single Phase, NEMA B -Three Phase Torque Curve, Oil Filled, Squirrel Cage Induction
Insulation.....	Class B
SINGLE PHASE.....	Permanent Split Capacitor (PSC) Includes Overload Protection in Motor
THREE PHASE	200-240/480 is Tri-Voltage. 600V. Requires Overload Protection to be included in control panel
OPTIONAL EQUIPMENT.....	Seal Material, Impeller Trims, Additional cord, Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay in control panel), Normally Open Moisture Sensors with cord (Requires relay in control panel).

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel
Seal Kit PN	130176
Service Kit PN.....	130172

Series: STEP-DS
.5 & 1HP, 3450RPM, 60Hz

Sample Specifications: Section 3 Page 3.

DESCRIPTION:

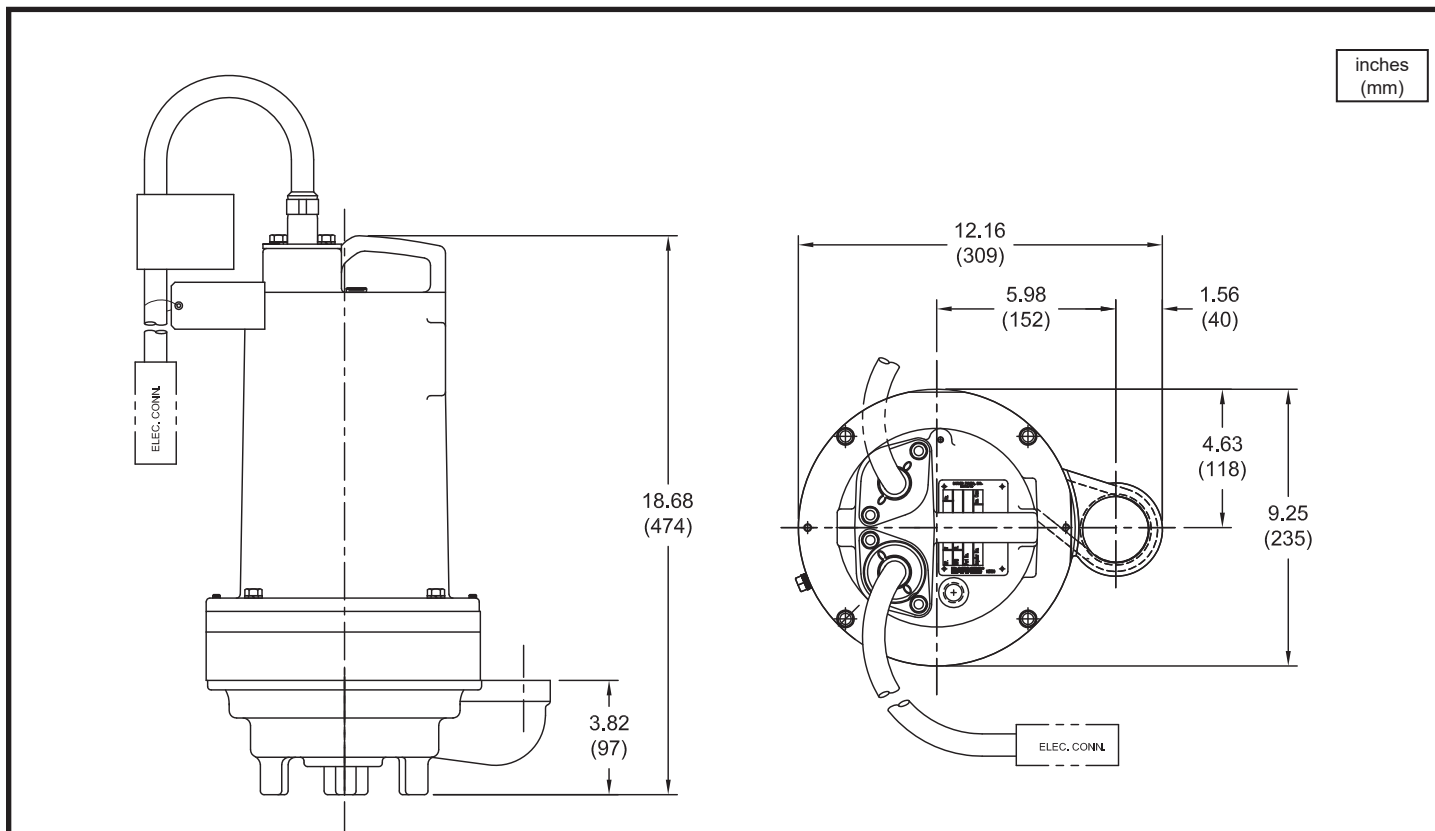
PUMP IS DESIGNED FOR HANDLING SEWAGE
EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT
APPLICATIONS.



WARNING:
CANCER AND REPRODUCTIVE HARM -
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Submersible Effluent Pumps



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)
STEP512DS	105040	0.5	120/1	60	3450	G	11.9	24.6	14/3	SJTOW	0.375 (9.5)
STEP522DS	105041	0.5	240/1	60	3450	E	5.1	10.2	14/3	SOW	0.530 (13.5)
STEP592DS	105042	0.5	200/240/3	60	3450	P/R	4.5/4.5	19.9/18.4	14/4	SOW	0.570 (14.5)
STEP542DS	105043	0.5	480/3	60	3450	R	2.2	9.1	14/4	SOW	0.570 (14.5)
STEP552DS	105044	0.5	600/3	60	3450	T	1.8	8.7	14/4	SOW	0.570 (14.5)
STEP1022DS	105050	1.0	240/1	60	3450	F	8.3	21.8	14/3	SOW	0.530 (13.5)
STEP1092DS	105051	1.0	200/240/3	60	3450	H/J	5.9/5.6	19.9/18.4	14/4	SOW	0.570 (14.5)
STEP1042DS	105052	1.0	480/3	60	3450	J	2.8	9.1	14/4	SOW	0.570 (14.5)
STEP1052DS	105053	1.0	600/3	60	3450	L	2.2	8.7	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, .530 (13.5mm) O.D.

OPTIONAL - Moisture sensor cord is 18/5 SOW, 0.470 (11.9mm) O.D.

OPTIONAL - Moisture and Temperature sensor cord for 3 phase models is 18/5 SOW, 0.470 (11.9mm) 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.

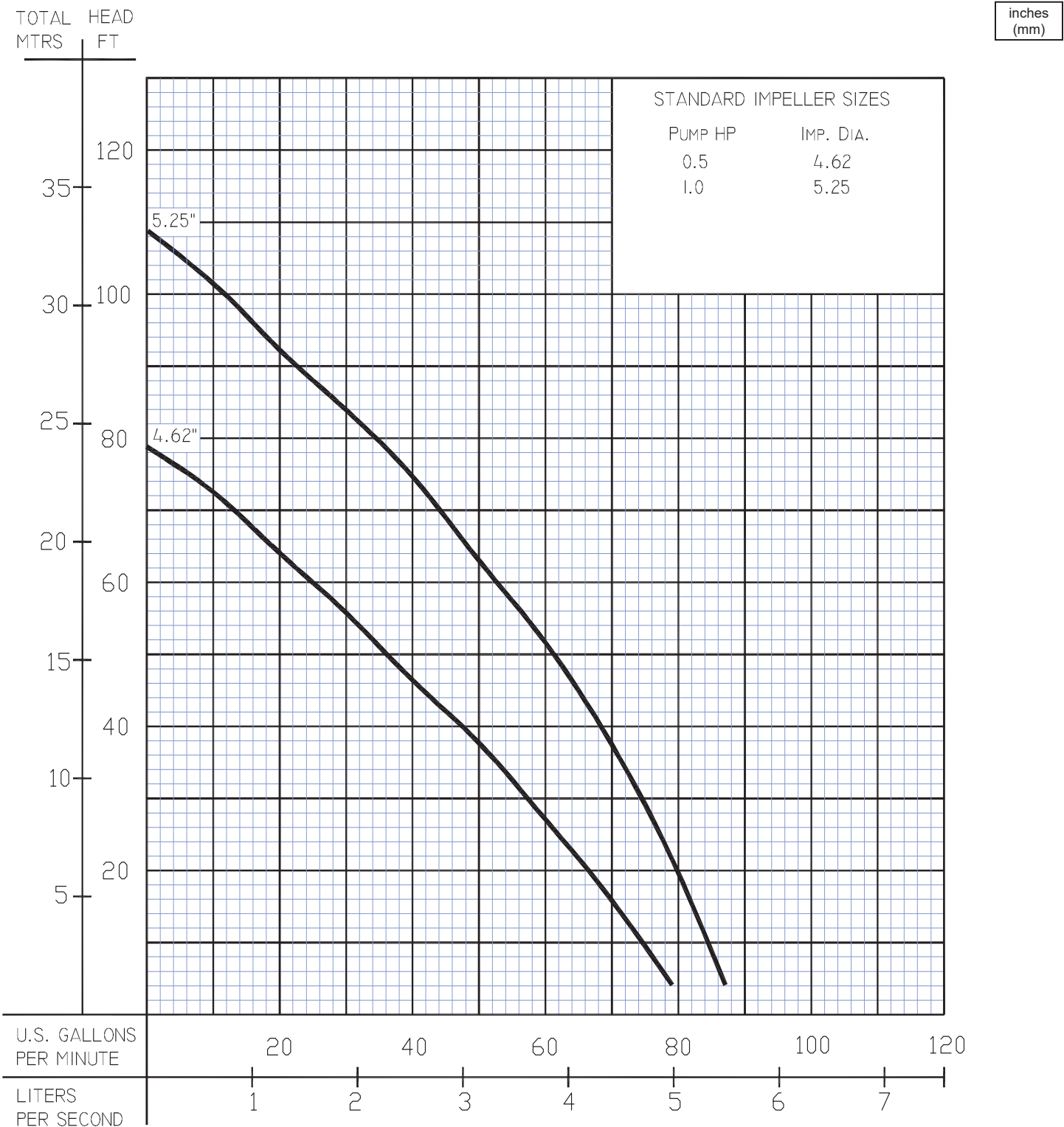
Series STEP-DS

Performance Curve
.5 & 1HP, 3450RPM, 60Hz



www.cranepumps.com

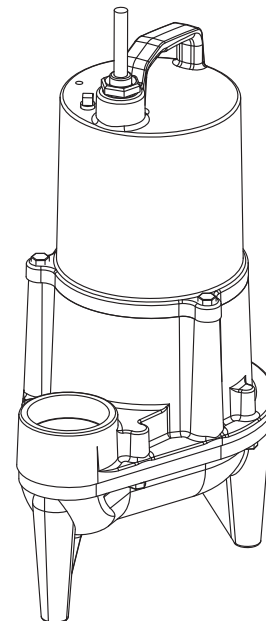
Submersible Effluent Pumps



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

Specifications:

DISCHARGE	2" NPT, Female, Vertical
LIQUID TEMPERATURE	77°F (25°C) Continuous
MOTOR HOUSING	Cast Iron
PUMP BODY	Cast Iron
IMPELLER: <i>Design</i>	Multi-Vane, Vortex
<i>Material</i>	Cast Iron
SHAFT	420 Stainless Steel
O-RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: <i>Design</i>	Single Mechanical, Oil Filled Reservoir
<i>Material</i>	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	20 ft. (6m) Cord with plug and pressure Grommet for sealing and strain relief
UPPER BEARING.....	Single Row, Ball
LOWER BEARING.....	Single Row, Ball
MOTOR: <i>Design</i>	Oil Filled
<i>Insulation</i>	Class B
SINGLE PHASE.....	Permanent Split Capacitor (PSC) Includes Overload Protection in Motor
LEVEL CONTROL:	
EHV412.....	None
EHV412A	Wide Angle, Mechanical, 20 ft (6m) cord Pipe Mounted
EHV412VF	Vertical Float, PVC, Snap Action
EHV412AT	Wide Angle, Mechanical, 20 ft (6m) cord Pump Mounted
RECOMMENDED:	
Accessories	Break Away Fitting (BAF) Check Valve Control Panel



Series: EHV412 .5HP, 3450RPM, 60Hz

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.



WARNING:
CANCER AND REPRODUCTIVE HARM -
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Series EHV412

3/4" Spherical Solids Handling
Manual & Automatic

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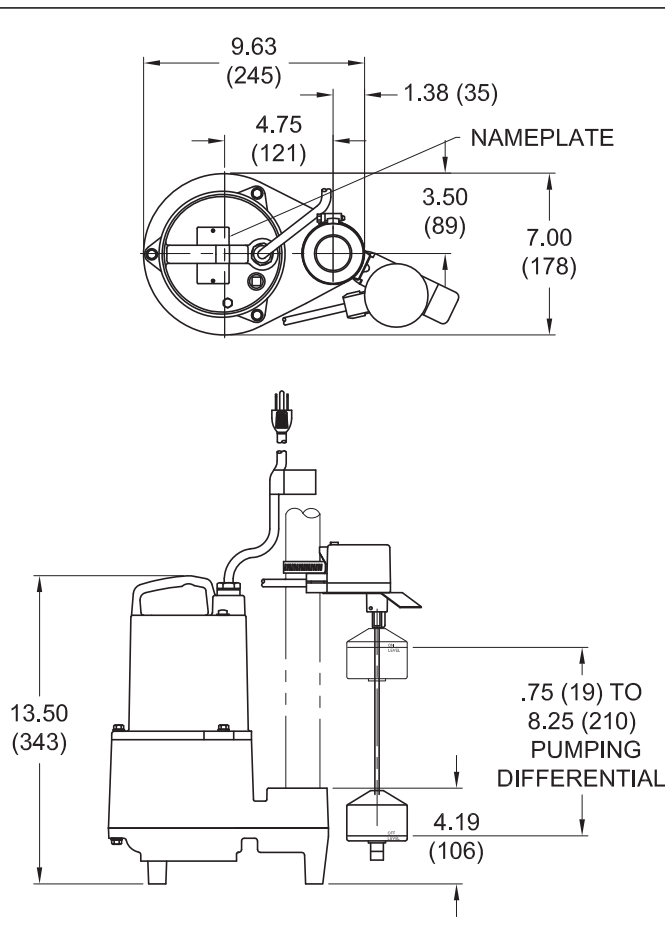
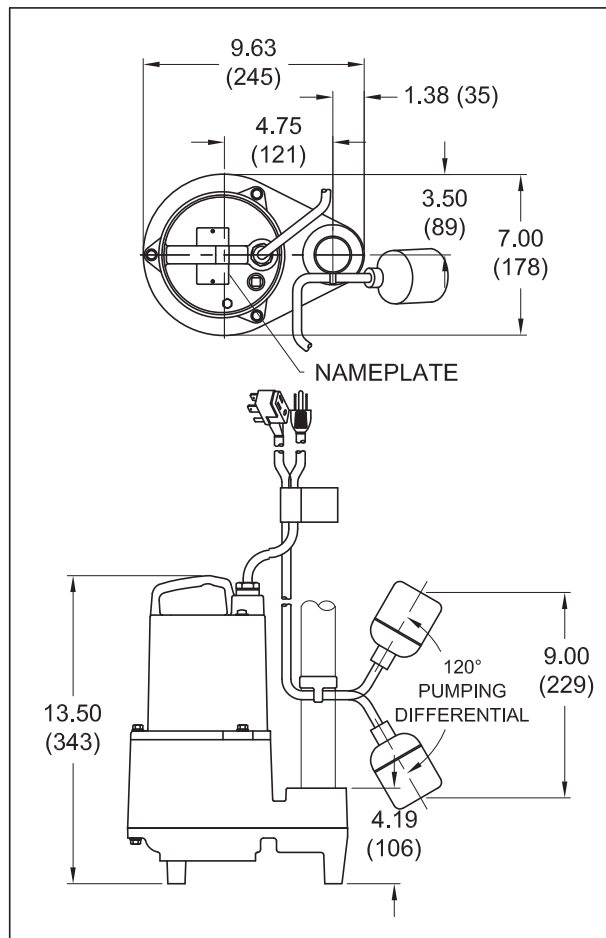
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Submersible Effluent Pumps

EHV412A
EHV412 (Less Float)
EHV412AT (Attached to Motor Housing)

EHV412VF

inches
(mm)



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
EHV412	101298	0.5	115/1	60	3450	H	6.4	19.6	20 ft. (6m)	14/3	SJTOW
EHV412A	103542	0.5	115/1	60	3450	H	6.4	19.6	20 ft. (6m)	14/3	SJTOW
EHV412VF	101300	0.5	115/1	60	3450	H	6.4	19.6	20 ft. (6m)	14/3	SJTOW
EHV412AT	103543	0.5	115/1	60	3450	H	6.4	19.6	20 ft. (6m)	14/3	SJTOW
EHV412	101298G	0.5	115/1	60	3450	H	6.4	19.6	30 ft. (9m)	14/3	SJTOW

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.

SECTION 3A
PAGE 8
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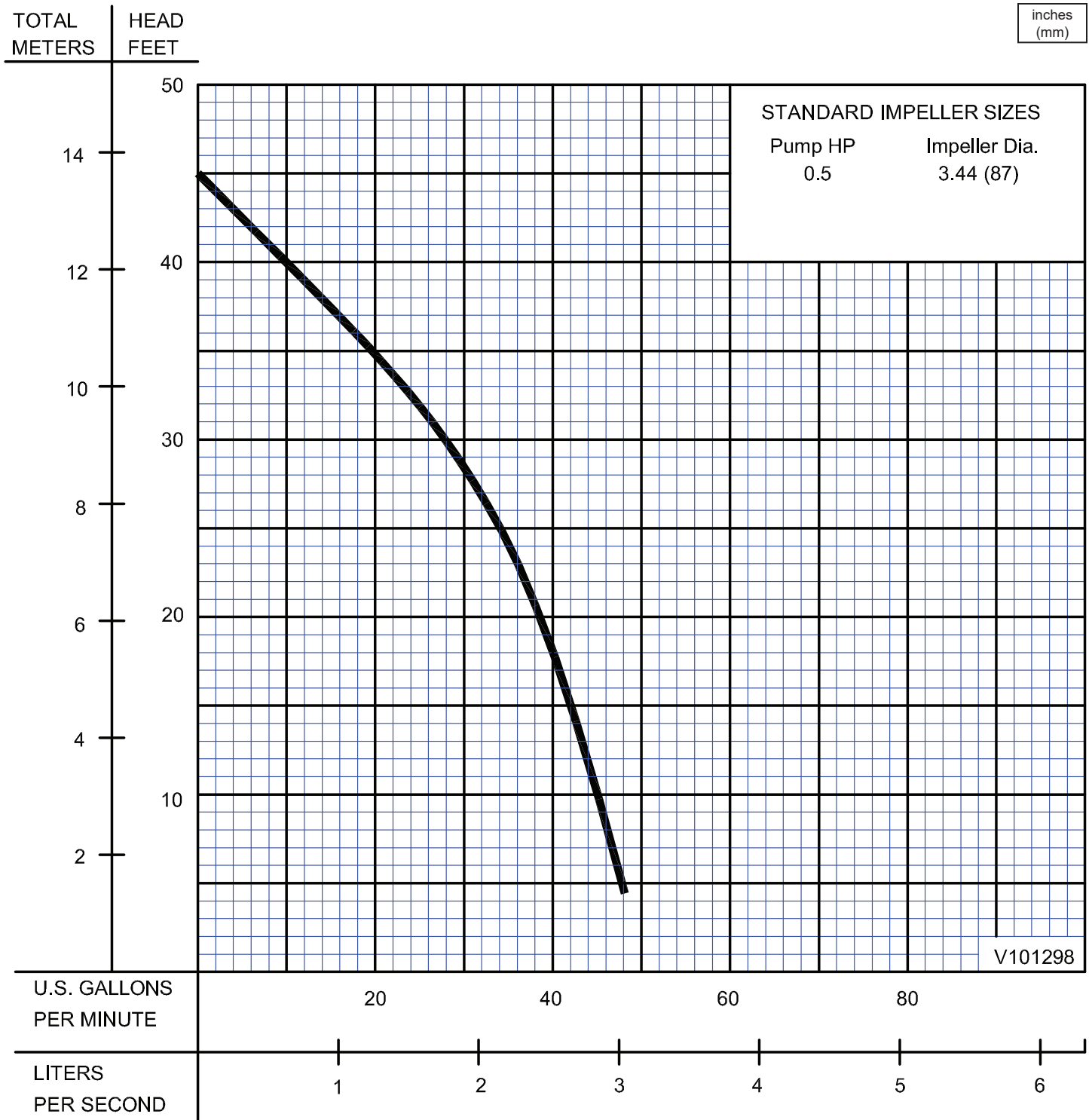
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Submersible Effluent Pumps



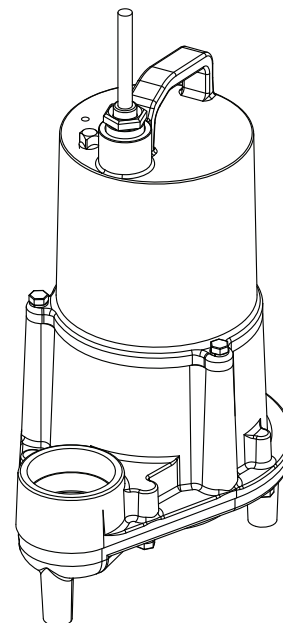
Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

Submersible Effluent Pumps

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Specifications:

DISCHARGE	2" NPT, Female, Vertical
LIQUID TEMPERATURE	104°F (40°C) Continuous
MOTOR HOUSING	Cast Iron
PUMP BODY	Cast Iron
IMPELLER: <i>Design</i>	Multi-Vane, Vortex
<i>Material</i>	Cast Iron
SHAFT	420 Stainless Steel
O-RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: <i>Design</i>	Single Mechanical, Oil Filled Reservoir
<i>Material</i>	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	10 ft. (3m) Cord with pressure Grommet for sealing and strain relief
UPPER BEARING.....	Single Row, Ball
LOWER BEARING.....	Single Row, Ball
MOTOR: <i>Design</i>	Oil Filled
<i>Insulation</i>	Class B
SINGLE PHASE.....	Permanent Split Capacitor (PSC) Includes Overload Protection in Motor
LEVEL CONTROL:	
SEV412.....	None
SEV412A.....	Wide Angle, Mechanical, 20 ft (6m) cord Pipe Mounted
RECOMMENDED:	
Accessories	Break Away Fitting (BAF) Check Valve Control Panel



Series: EHV512 .5HP, 3450RPM, 60Hz

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.



WARNING:
CANCER AND REPRODUCTIVE HARM -
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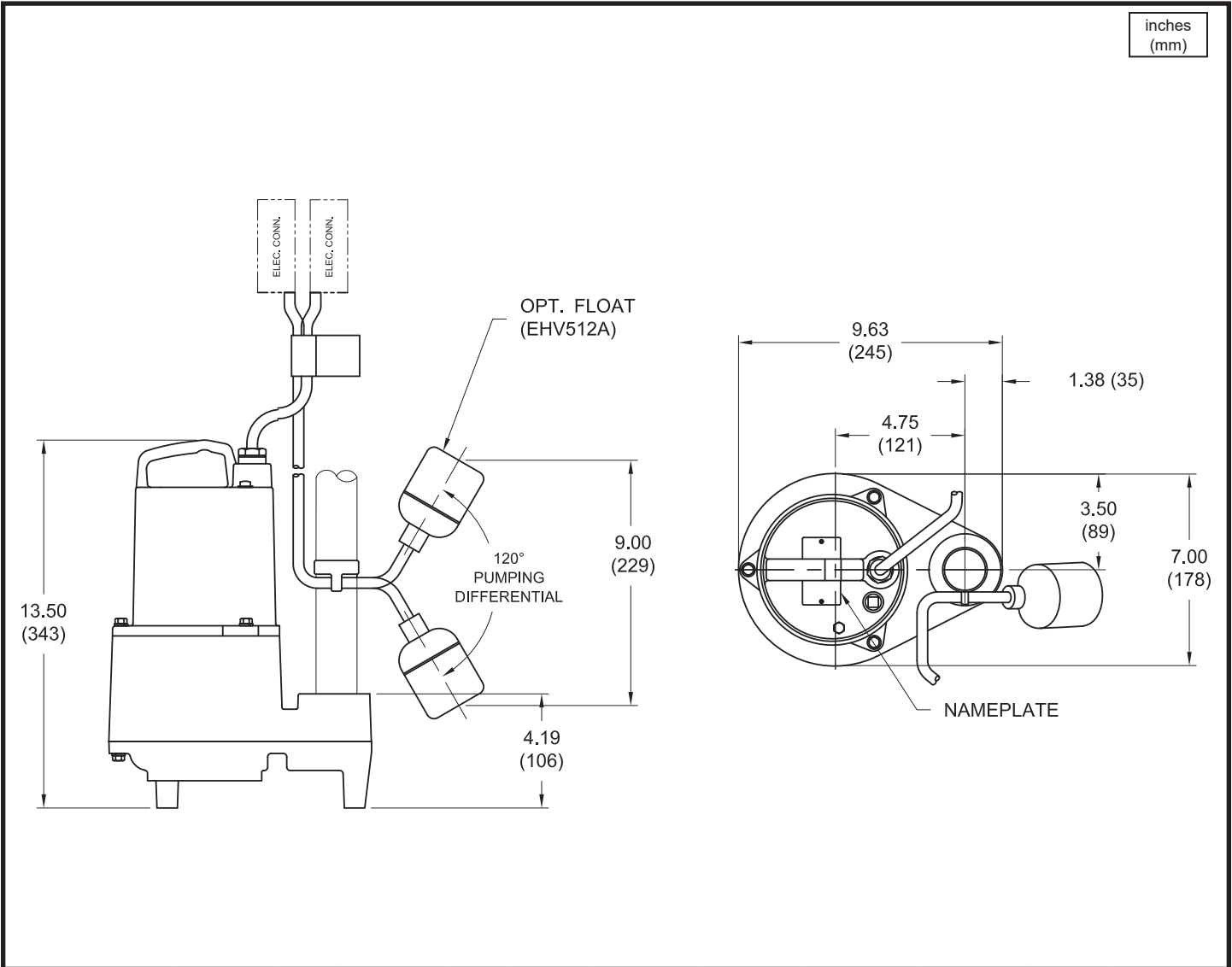
Series EHV512

3/4" Spherical Solids Handling
Manual & Automatic



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Submersible Effluent Pumps



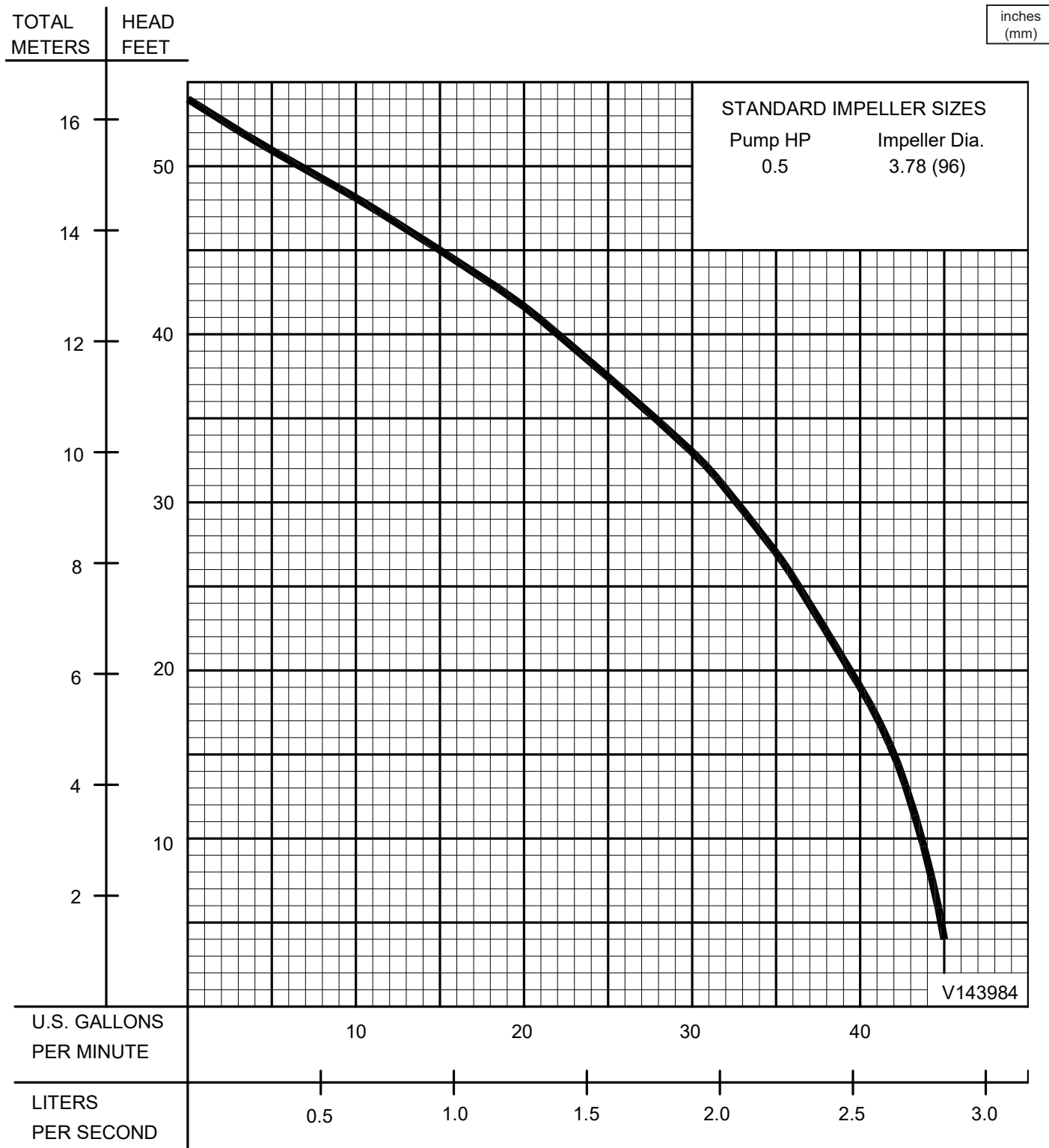
MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
EHV512	143984	0.5	115/1	60	3450	H	10	19.6	10 ft. (3m)	14/3	SJTOW
EHV512A	143985	0.5	115/1	60	3450	H	10	19.6	10 ft. (3m)	14/3	SJTOW
EHV512	144668	0.5	115/1	60	3450	H	10	19.6	20 ft. (6m)	14/3	SJTOW
EHV512A	144669	0.5	115/1	60	3450	H	10	19.6	20 ft. (6m)	14/3	SJTOW

NOTE: 'A' Suffix has float option.

IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) 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.

Submersible Effluent Pumps



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

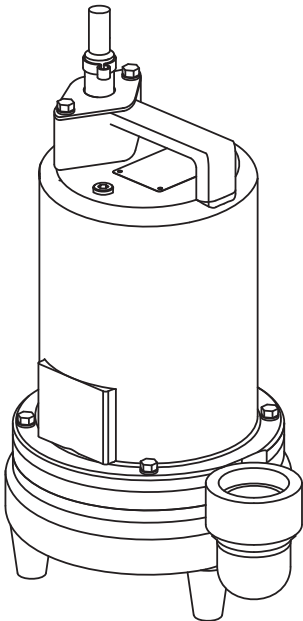
Series EH-L

3/4" Spherical Solids Handling
Single Seal



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Submersible Effluent Pumps



Specifications:

DISCHARGE	2" NPT, Female, Vertical
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER: Design	3 Vane, open, with pump out vanes on back side. Dynamically balanced, ISO G6.3
Material	Polypropylene with stainless steel insert
SHAFT	416 Stainless Steel
SQUARE RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Single Mechanical
Material	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	20 ft. (6m) Cord with plug on 120 volt & .5HP, 240 volt, 1 phase. Quick connect, custom molded for sealing and strain relief
UPPER BEARING	Single Row, Ball, Oil lubricated
LOWER BEARING	Single Row, Ball, Oil lubricated
MOTOR: Design	NEMA L -Single Phase, NEMA B -Three phase Torque Curve, Oil Filled, Squirrel Cage Induction
Insulation	Class B
SINGLE PHASE	Permanent Split Capacitor (PSC) Includes Overload Protection in Motor
THREE PHASE	200-240/480 is Tri-Voltage. 600V. Requires Overload Protection to be included in control panel
OPTIONAL EQUIPMENT	Seal Material, Impeller Trims, Additional cord, Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay in control panel).

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel
Seal Kit PN	130180
Service Kit PN	130207

Series: EH-L
.5, 1.0 & 1.5HP, 3450RPM,
60Hz

Sample Specifications: Section 3 Page 4.

DESCRIPTION:

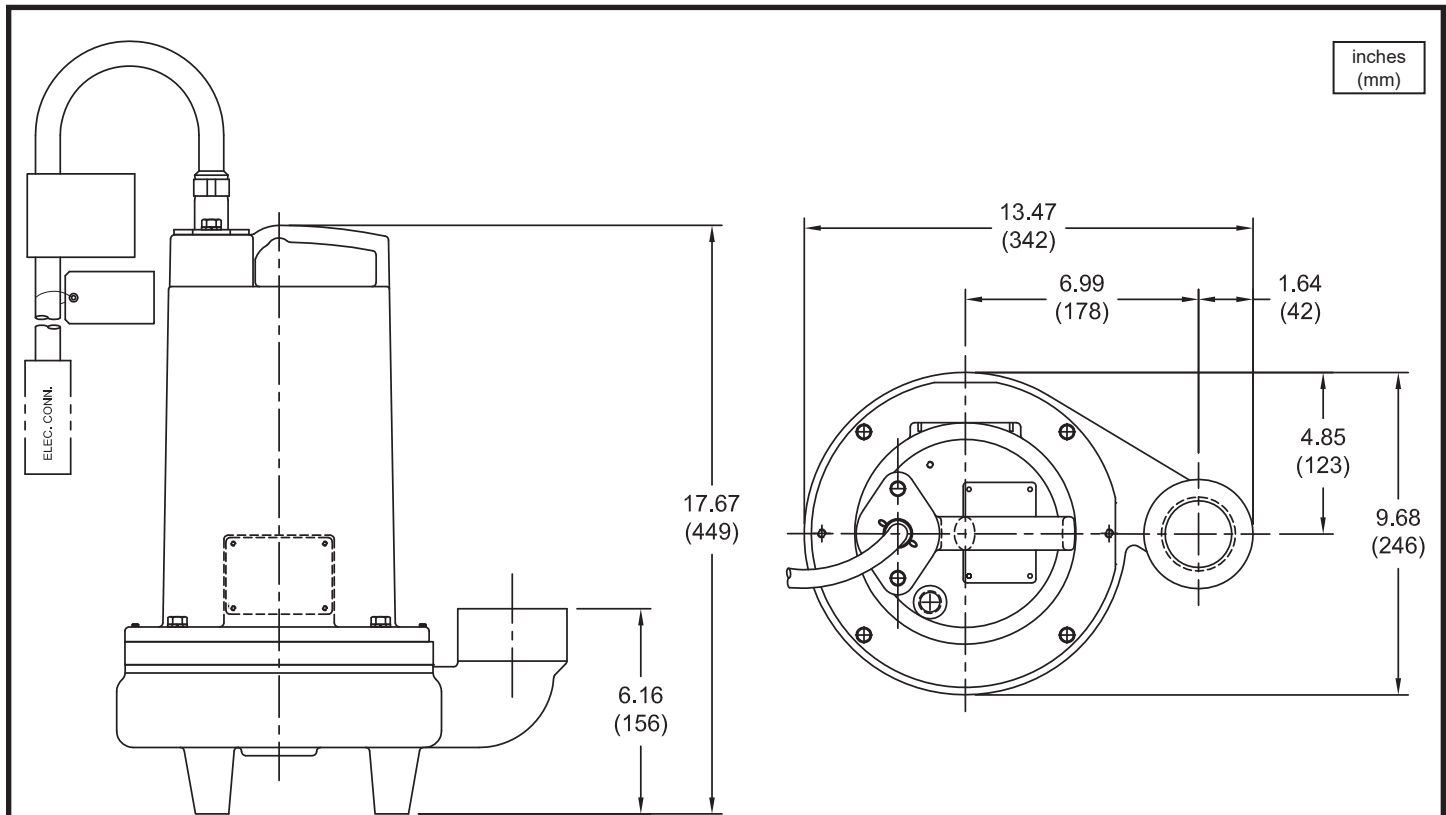
PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.



WARNING:
CANCER AND REPRODUCTIVE HARM -
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Submersible Effluent Pumps



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)
EH512L	105058	0.5	120/1	60	3450	G	11.4	24.6	14/3	SJTOW	0.375 (9.5)
EH522L	105059	0.5	240/1	60	3450	E	4.9	10.2	14/3	SOW	0.530 (13.5)
EH592L	105060	0.5	200/240/3	60	3450	P/R	4.2/4.5	19.9/18.4	14/4	SOW	0.570 (14.5)
EH542L	105061	0.5	480/3	60	3450	R	2.2	9.1	14/4	SOW	0.570 (14.5)
EH552L	105062	0.5	600/3	60	3450	T	1.7	8.7	14/4	SOW	0.570 (14.5)
EH1022L	105068	1.0	240/1	60	3450	F	8.1	21.8	14/3	SOW	0.530 (13.5)
EH1092L	105069	1.0	200/240/3	60	3450	H/J	8.1/6.2	19.9/18.4	14/4	SOW	0.570 (14.5)
EH1042L	105070	1.0	480/3	60	3450	J	3.1	9.1	14/4	SOW	0.570 (14.5)
EH1052L	105071	1.0	600/3	60	3450	L	2.8	8.7	14/4	SOW	0.570 (14.5)
EH1522L	105076	1.5	240/1	60	3450	E	10.9	30.6	14/3	SOW	0.530 (13.5)
EH1592L	105077	1.5	200/240/3	60	3450	H/F	7.8/7.0	29.2/18.7	14/4	SOW	0.570 (14.5)
EH1542L	105078	1.5	480/3	60	3450	K	3.5	14.6	14/4	SOW	0.570 (14.5)
EH1552L	105079	1.5	600/3	60	3450	K	2.7	11.6	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, .530 (13.5mm) O.D.

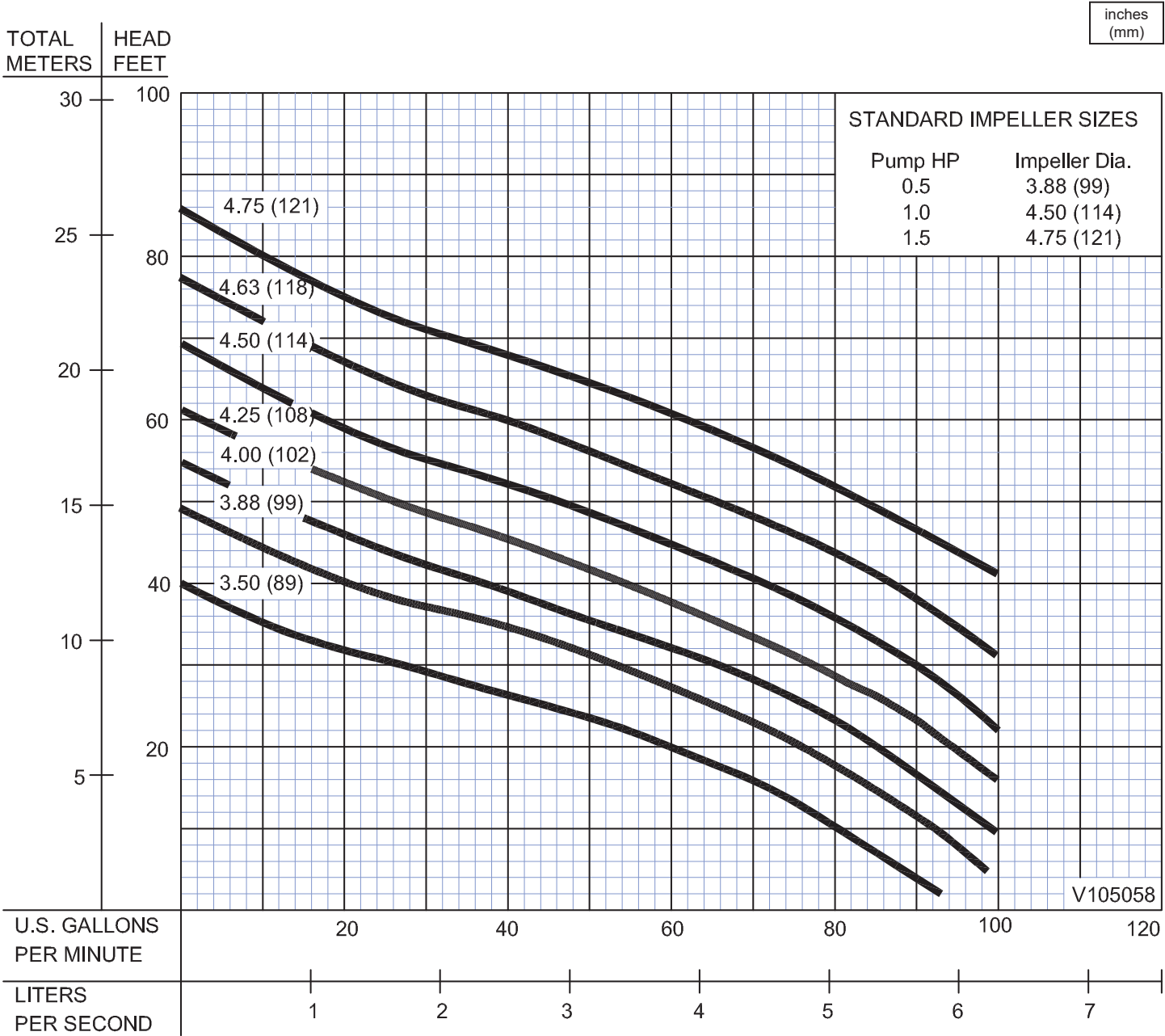
IMPORTANT !

- 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.

Series EH-L

Performance Curve
.5, 1.0 & 1.5HP, 3450RPM, 60Hz

Submersible Effluent Pumps



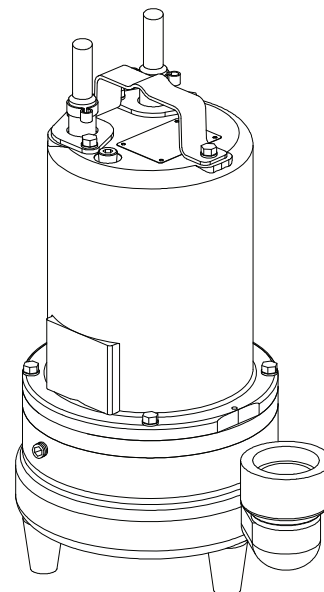
Submersible Effluent Pumps

Specifications:

DISCHARGE	2" NPT, Female, Vertical
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER: Design	3 Vane, open, with pump out vanes on back side. Dynamically balanced, ISO G6.3
Material	Polypropylene with stainless steel insert
SHAFT	416 Stainless Steel
SQUARE RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Tandem Mechanical, Oil-Filled reservoir
Material	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	20 ft. (6m) Cord with plug on 120 volt & .5HP, 240 volt, 1 phase. Quick connect, custom molded for sealing and strain relief
UPPER BEARING	Single Row, Ball, Oil lubricated
LOWER BEARING	Single Row, Ball, Oil lubricated
MOTOR: Design	NEMA L -Single Phase, NEMA B -Three phase Torque Curve, Oil Filled, Squirrel Cage Induction
Insulation	Class B
SINGLE PHASE	Permanent Split Capacitor (PSC) Includes Overload Protection in Motor
THREE PHASE	200-240/480 is Tri-Voltage. 600V. Requires Overload Protection to be included in control panel
OPTIONAL EQUIPMENT	Seal Material, Impeller Trims, Additional cord, Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay in control panel), Normally Open Moisture Sensors with cord (Requires Relay in control panel).

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel
Seal Kit PN	130176
Service Kit PN	130172



Series: EH-DS .5, 1.0 & 1.5HP, 3450RPM, 60Hz

Sample Specifications: Section 3 Page 5.

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.



WARNING:

CANCER AND REPRODUCTIVE HARM -
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Series EH-DS

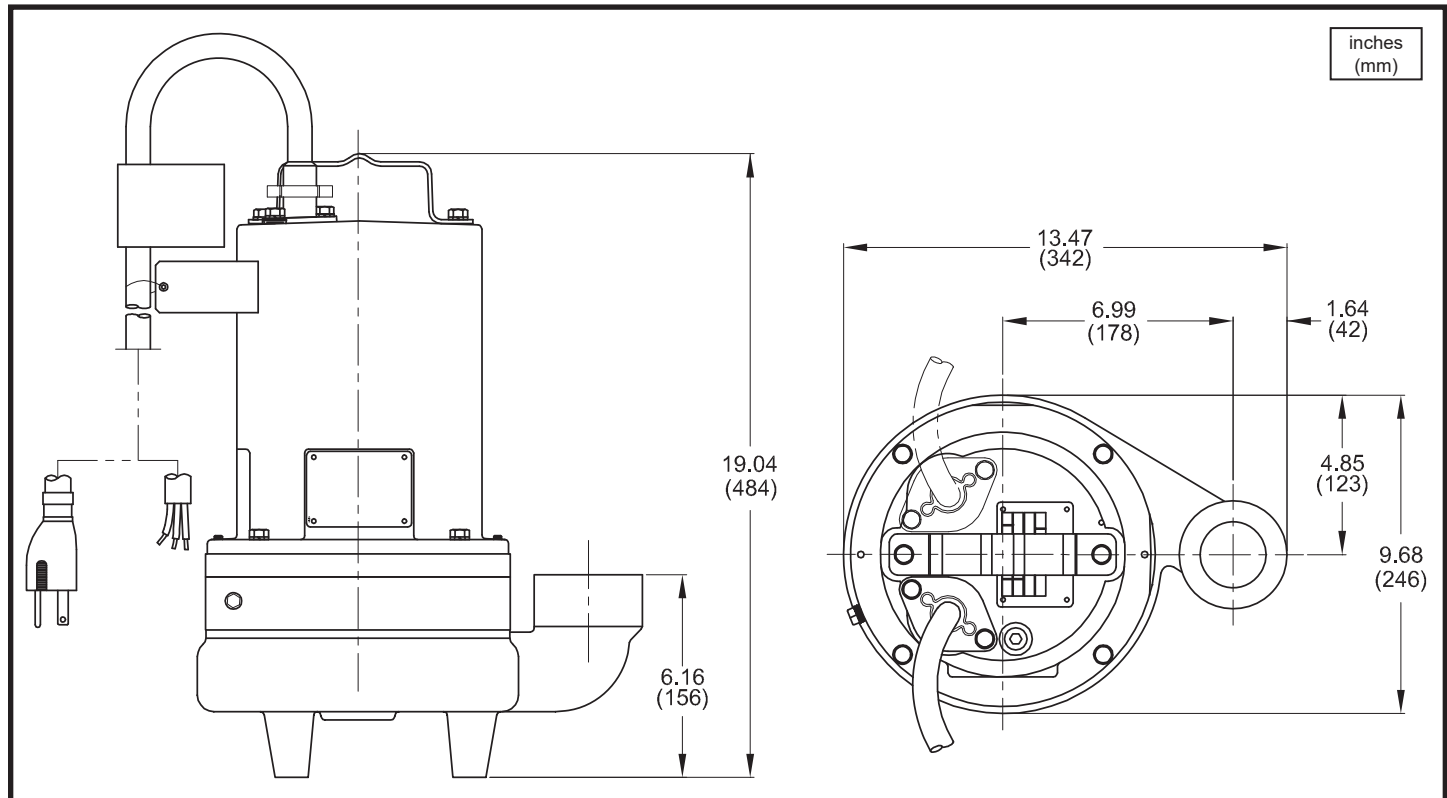
3/4" Spherical Solids Handling

Double Seal

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Submersible Effluent Pumps



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)
EH512DS	105063	0.5	120/1	60	3450	G	11.4	24.6	14/3	SJTOW	0.375 (9.5)
EH522DS	105064	0.5	240/1	60	3450	E	4.9	10.2	14/3	SOW	0.530 (13.5)
EH592DS	105065	0.5	200/240/3	60	3450	P/R	4.2/4.5	19.9/18.4	14/4	SOW	0.570 (14.5)
EH542DS	105066	0.5	480/3	60	3450	R	2.2	9.1	14/4	SOW	0.570 (14.5)
EH552DS	105067	0.5	600/3	60	3450	T	1.7	8.7	14/4	SOW	0.570 (14.5)
EH1022DS	105072	1.0	240/1	60	3450	F	8.1	21.8	14/3	SOW	0.530 (13.5)
EH1092DS	105073	1.0	200/240/3	60	3450	H/J	8.1/6.2	19.9/18.4	14/4	SOW	0.570 (14.5)
EH1042DS	105074	1.0	480/3	60	3450	J	3.1	9.1	14/4	SOW	0.570 (14.5)
EH1052DS	105075	1.0	600/3	60	3450	L	2.8	8.7	14/4	SOW	0.570 (14.5)
EH1522DS	105080	1.5	240/1	60	3450	E	10.9	30.6	14/3	SOW	0.530 (13.5)
EH1592DS	105081	1.5	200/240/3	60	3450	H/F	7.8/7.0	29.2/18.7	14/4	SOW	0.570 (14.5)
EH1542DS	105082	1.5	480/3	60	3450	K	3.5	14.6	14/4	SOW	0.570 (14.5)
EH1552DS	105083	1.5	600/3	60	3450	K	2.7	11.6	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, .530 (13.5mm) O.D.

OPTIONAL - Moisture sensor cord is 18/5 SOW, 0.470 (11.9mm) O.D.

OPTIONAL - Moisture and Temperature sensor cord for 3 phase models is 18/5 SOW, 0.470 (11.9mm) 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.

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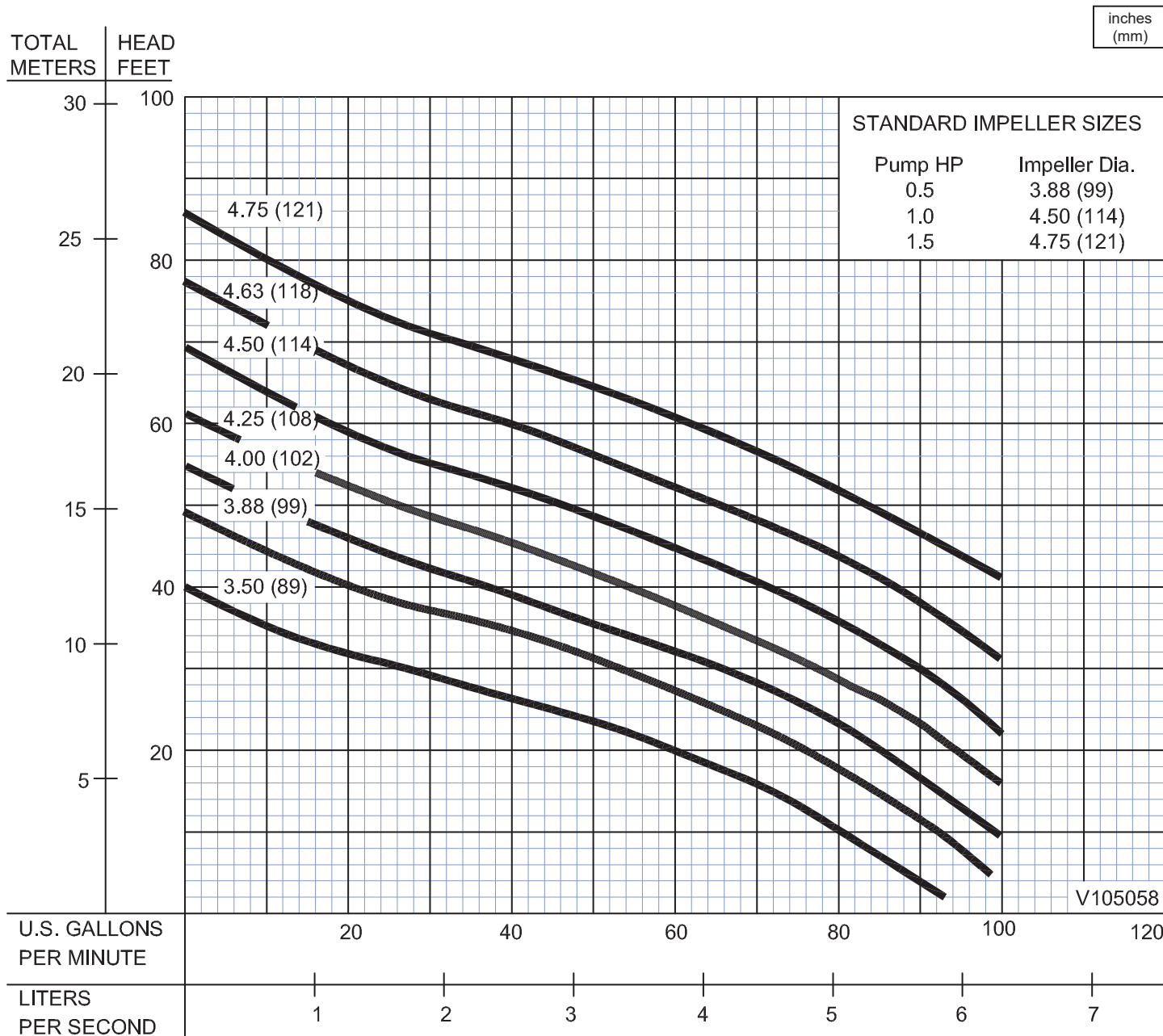
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Submersible Effluent Pumps

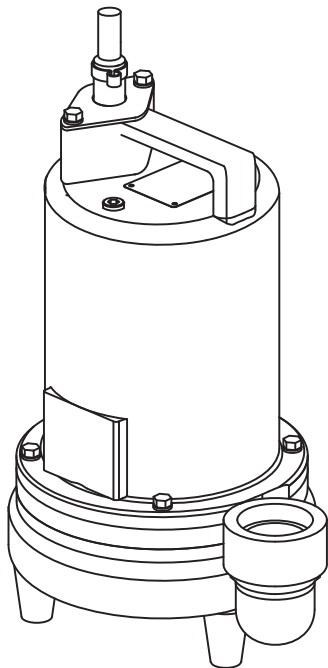


Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

Series EH-HT

3/4" Spherical Solids Handling
High Temperature, Single Seal

Submersible Effluent Pumps



Series: EH-HT
.5 & 1.5HP, 3450RPM,
60Hz

Sample Specifications: Section 3 Page 6.

DESCRIPTION:

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



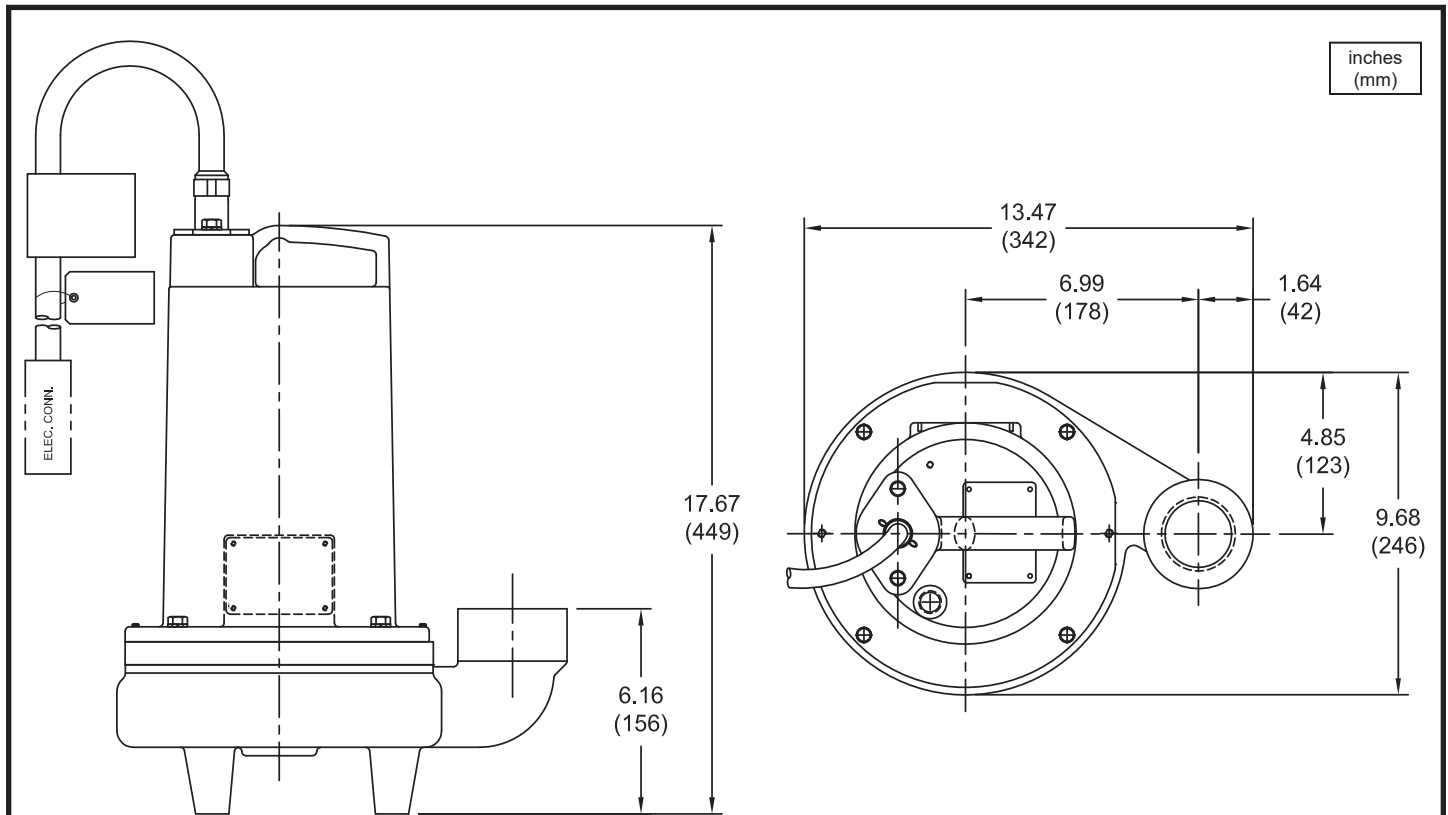
WARNING:
CANCER AND REPRODUCTIVE HARM -
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Specifications:

DISCHARGE	2" NPT, Female, Vertical
LIQUID TEMPERATURE	200°F (93°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER: Design	3 Vane, open, with pump out vanes on back side. Dynamically balanced, ISO G6.3
Material	Cast Iron ASTM A-48, Class 30
SHAFT	416 Stainless Steel
SQUARE RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Single Mechanical
Material	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	20 ft. (6m) Cord with plug on 120 volt & .5HP, 240 volt, 1 phase. Quick connect, custom molded for sealing and strain relief
UPPER BEARING	Single Row, Ball, Oil lubricated
LOWER BEARING	Single Row, Ball, Oil lubricated
MOTOR: Design	NEMA L -Single Phase, NEMA B -Three phase Torque Curve, Oil Filled, Squirrel Cage Induction
Insulation	Class F
SINGLE PHASE:	
.5HP, 120Volt	Split Phase. Includes overload protection in motor
.5HP, 240Volt	Capacitor Start, Induction Run Includes Overload Protection in Motor
1.5HP	Permanent Split Capacitor (PSC) Includes Overload Protection in Motor
THREE PHASE	200-240/480 is Tri-Voltage. 600V. Requires Overload Protection to be included in control panel
OPTIONAL EQUIPMENT	Seal Material, Impeller Trims, Additional cord, Normally Closed Temperature Sensors with cord for 3 phase pumps (Requires relay in control panel).
RECOMMENDED:	
Accessories	Break Away Fitting (BAF) Check Valve Control Panel
Seal Kit PN	130180
Service Kit PN	130207



Submersible Effluent Pumps



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)
EH512HT	105084	0.5	120/1	60	3450	M	10.6	47.9	14/3	SOW	0.530 (13.5)
EH522HT	105085	0.5	240/1	60	3450	K	5.3	18.5	14/3	SOW	0.530 (13.5)
EH1522HT	105093	1.5	240/1	60	3450	E	9.0	30.6	14/3	SOW	0.530 (13.5)
EH1592HT	105094	1.5	200/240/3	60	3450	H/F	7.8/7.0	29.2/18.7	14/4	SOW	0.570 (14.5)
EH1542HT	105095	1.5	480/3	60	3450	K	3.5	14.6	14/4	SOW	0.570 (14.5)

OPTIONAL - Temperature sensor cord for 3 phase models is 14/3 SOW, .530 (13.5mm) O.D.

IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) 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.
- 3.) MUST USE A **HIGH TEMPERATURE** WIDE ANGLE LEVEL CONTROL IN HIGH TEMPERATURE APPLICATIONS.

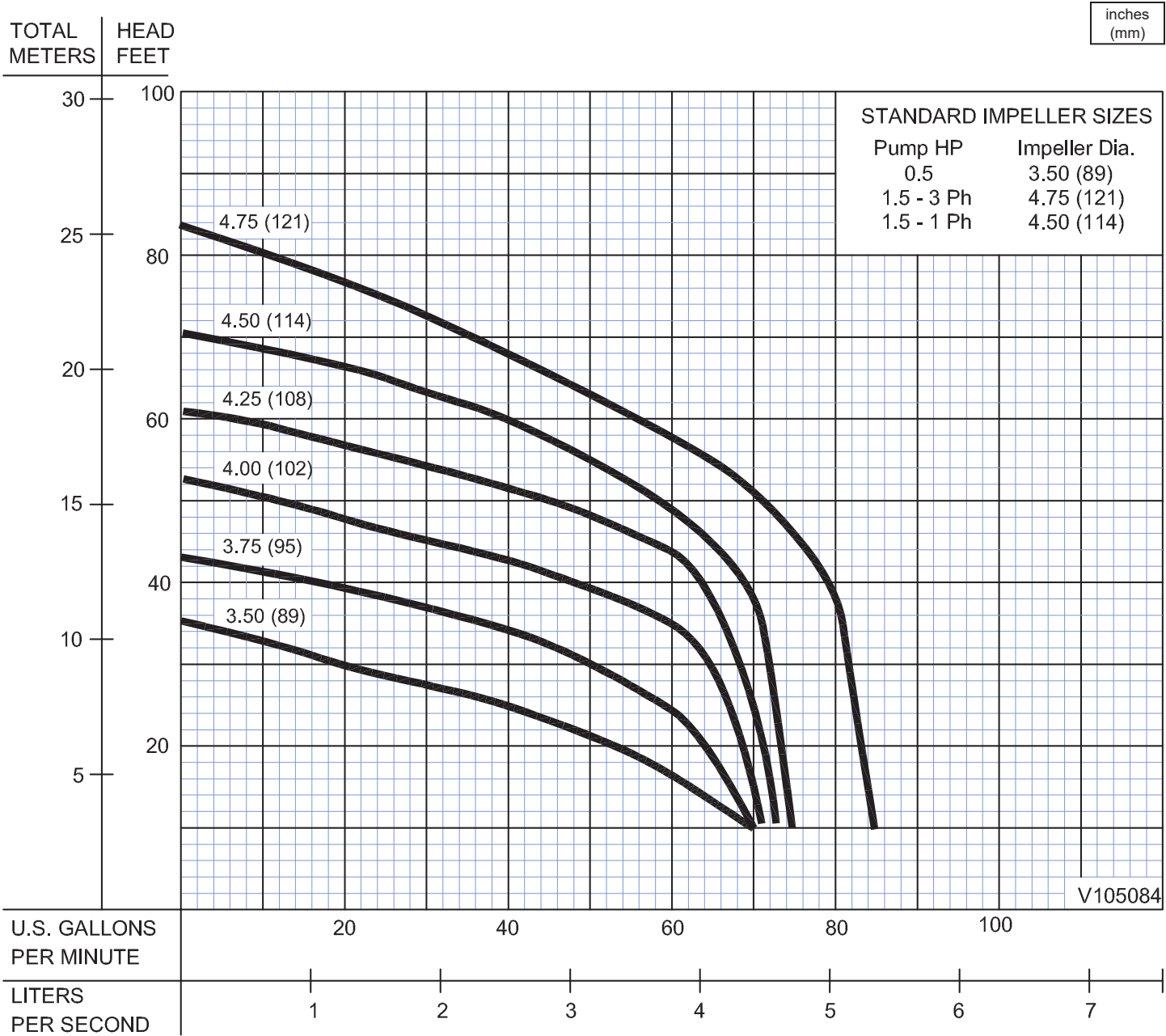
Series EH-HT

Performance Curve
.5 & 1.5HP, 3450RPM, 60Hz



www.cranepumps.com

Submersible Effluent Pumps

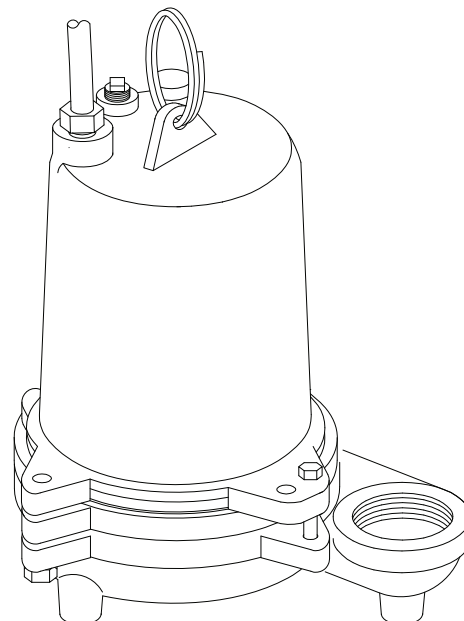


Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

Submersible Effluent Pumps

Specifications:

DISCHARGE	2" NPT, Female, Vertical
LIQUID TEMPERATURE	
BP314	77°F (25°C) Continuous
BP324	104°F (40°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: Design	2 Vane open, Dynamically Balanced, ISO G6.3
Material	(BP) Polypropylene with stainless insert (BP-BR) Bronze 81-3-7-9
SHAFT	416 Stainless Steel
SQUARE RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Single Mechanical, Oil-Filled Reservoir, Secondary Exclusion Seal
Material	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
Insulation	Class B
LEVEL CONTROLS	"A" - Wide Angle, PVC, Mechanical, 15 ft (5m) cord with Piggy-Back Plug, N/O "AU" - Wide Angle, Polypropylene, Mechanical, N/O, Integral to pump. ON and OFF points are adjustable "VF" - Vertical Float, PVC, Snap Action, 15 ft (5m) cord, with Piggy-Back plug. OFF point ONLY is adjustable
OPTIONAL EQUIPMENT	Seal Material, Additional Cable, Bronze Impeller
RECOMMENDED:	
Accessories	Break Away Fitting (BAF) Check Valve Control Panel
Seal Kit PN	085202
Service Kit PN	085201



Series: BP314 & BP324 1/3HP, 1750RPM, 60Hz

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.



WARNING:
CANCER AND REPRODUCTIVE HARM -
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Series BP

3/4" Spherical Solids Handling
Manual & Automatic, Cast Iron & Bronze

BARNES®

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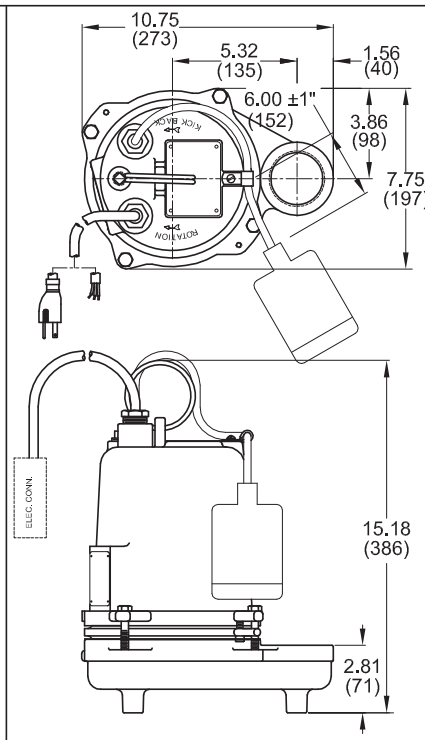
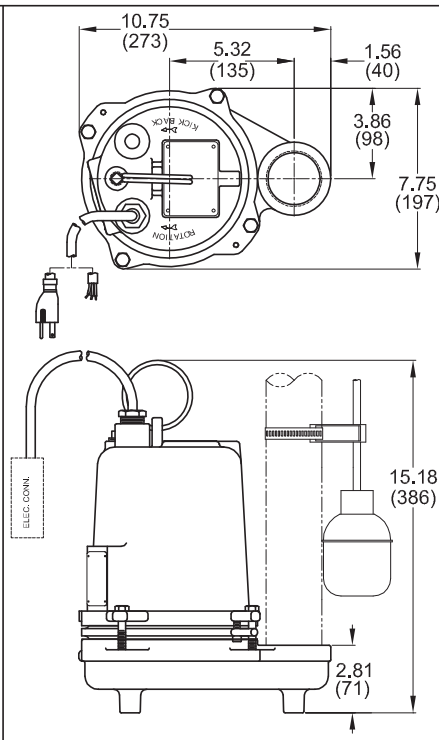
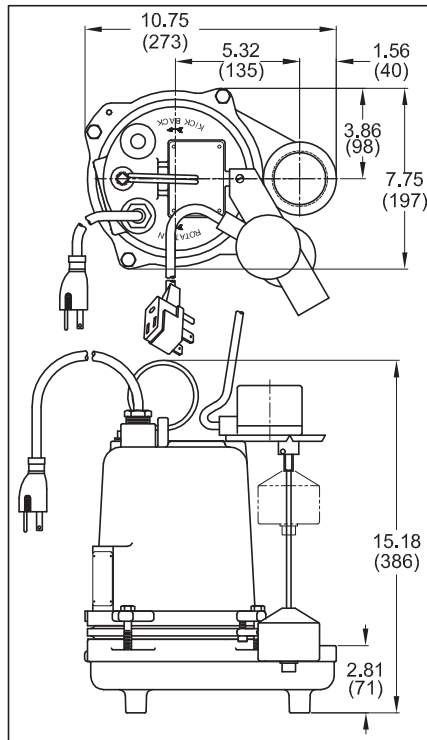
Submersible Effluent Pumps

BP314VF, BP314VFBR

BP314A, BP314ABR,
BP314. BP314BR, BP324, BP324BR (Less Float)

BP314AU, BP314AUBR
BP324AU, BP324AUBR

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)
BP314	096727	1/3	115/1	60	1750	A	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314A	096728	1/3	115/1	60	1750	A	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314AU	096729	1/3	115/1	60	1750	A	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314VF	100834	1/3	115/1	60	1750	A	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314BR	096732	1/3	115/1	60	1750	A	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314ABR	096733	1/3	115/1	60	1750	A	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314AUBR	096734	1/3	115/1	60	1750	A	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP314VFBR	100835	1/3	115/1	60	1750	A	8.0	19.0	14/3	SJTOW	0.375 (9.5)
BP324	096730	1/3	230/1	60	1750	A	5.4	13.0	14/3	SJTOW	0.375 (9.5)
BP324AU	096731	1/3	230/1	60	1750	A	5.4	13.0	14/3	SJTOW	0.375 (9.5)
BP324BR	096735	1/3	230/1	60	1750	A	5.4	13.0	14/3	SJTOW	0.375 (9.5)
BP324AUBR	096736	1/3	230/1	60	1750	A	5.4	13.0	14/3	SJTOW	0.375 (9.5)

Mechanical Switch on BP-A, cord 16/2, SJOW, Piggy-Back Plug.

Mechanical Switch on BP-AU, cord 14/2, SJOW

Vertical Switch on BP-VF, cord 16/2, SJOW, Piggy-Back Plug

IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) 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.

SECTION 3A
PAGE 24
DATE 9/19

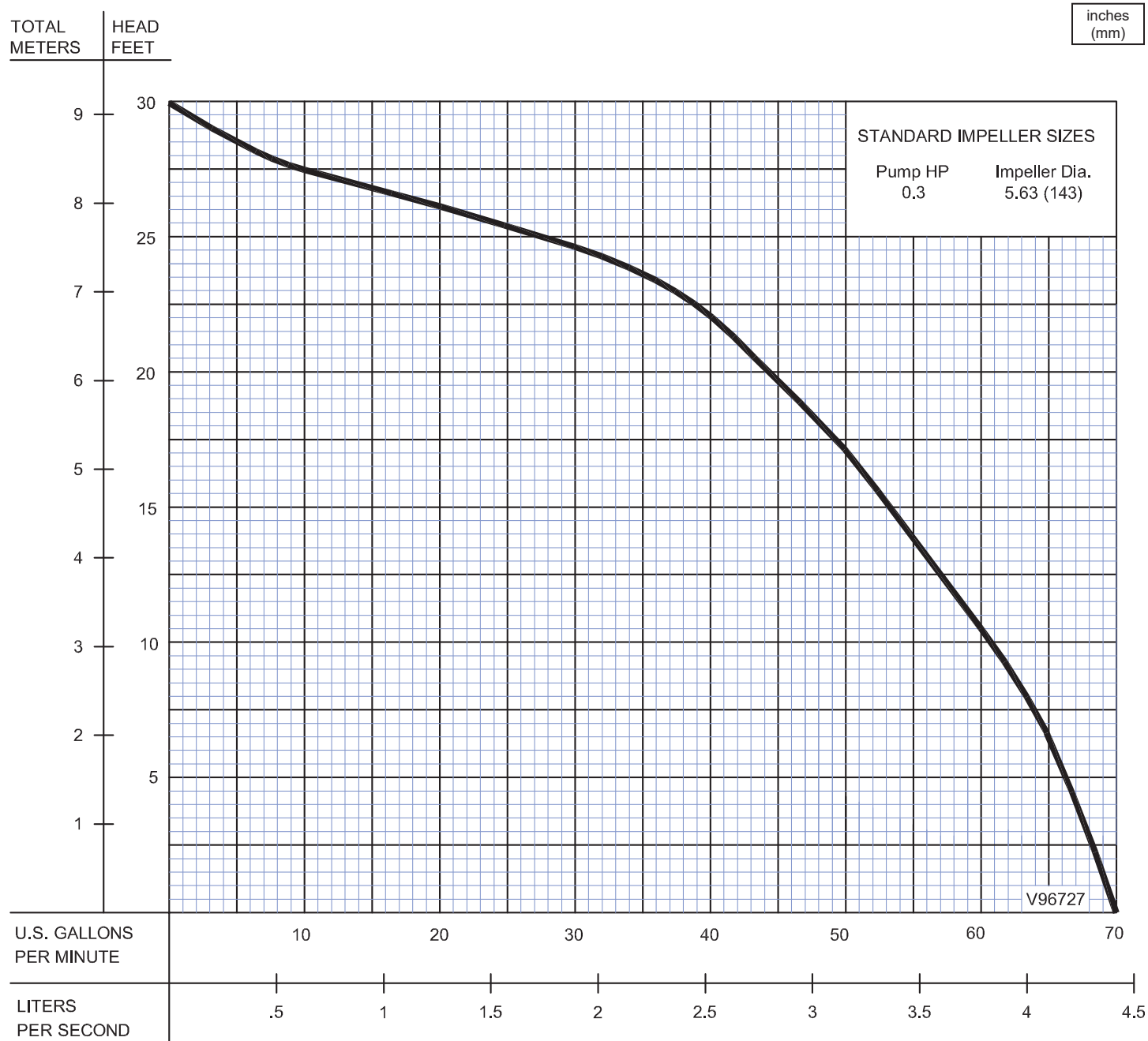
CRANE®

A Crane Co. Company

PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Submersible Effluent Pumps

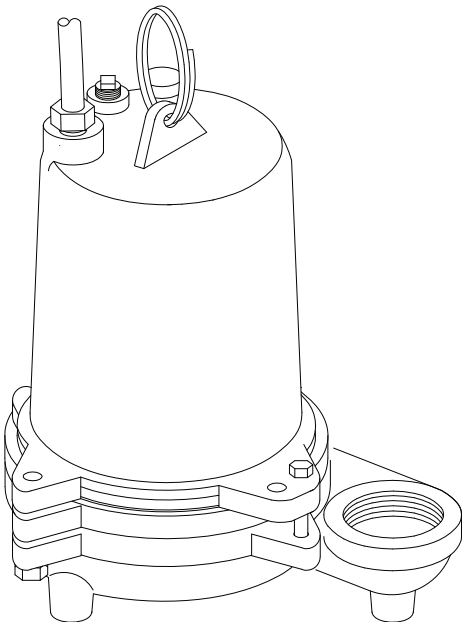


Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

Series BP-HT

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

Submersible Effluent Pumps



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: Design	2 Vane open, Dynamically Balanced, ISO G6.3
Material	Bronze 81-3-7-9
SHAFT	.416 Stainless Steel
SQUARE RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Single Mechanical, Oil-Filled Reservoir, Secondary Exclusion Seal
Material	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
Insulation	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:	
Accessories	Break Away Fitting (BAF) Check Valve Control Panel
Seal Kit PN	085202
Service Kit PN	085201

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.



WARNING:
CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV



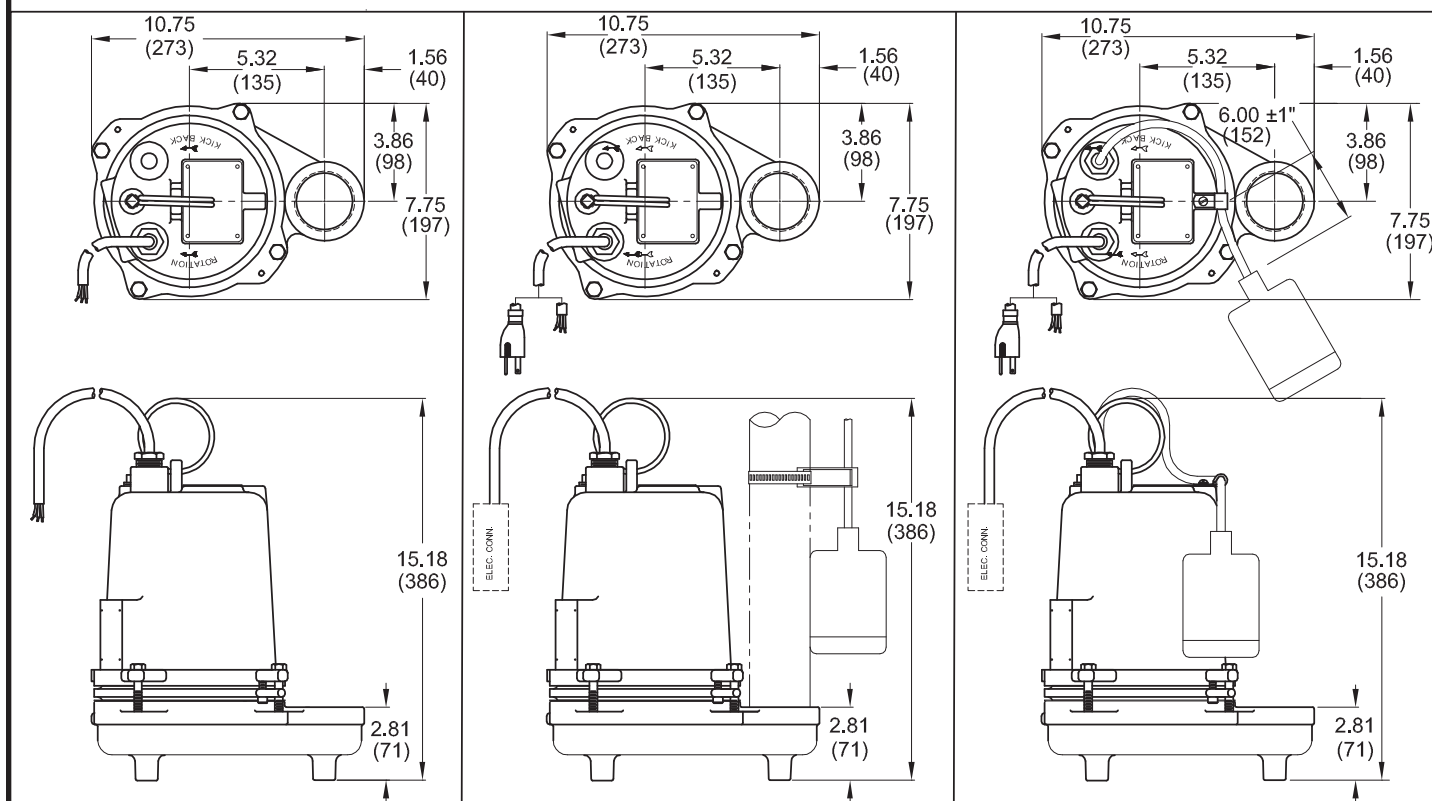
Submersible Effluent Pumps

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	5.4	13.0	14/3	SOOW	0.560 (14.2)
BP324HTAU	096741	1/3	230/1	60	1750	A	5.4	13.0	14/3	SOOW	0.560 (14.2)
BP324HTBR	096745	1/3	230/1	60	1750	A	5.4	13.0	14/3	SOOW	0.560 (14.2)
BP324HTAUBR	096746	1/3	230/1	60	1750	A	5.4	13.0	14/3	SOOW	0.560 (14.2)

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

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

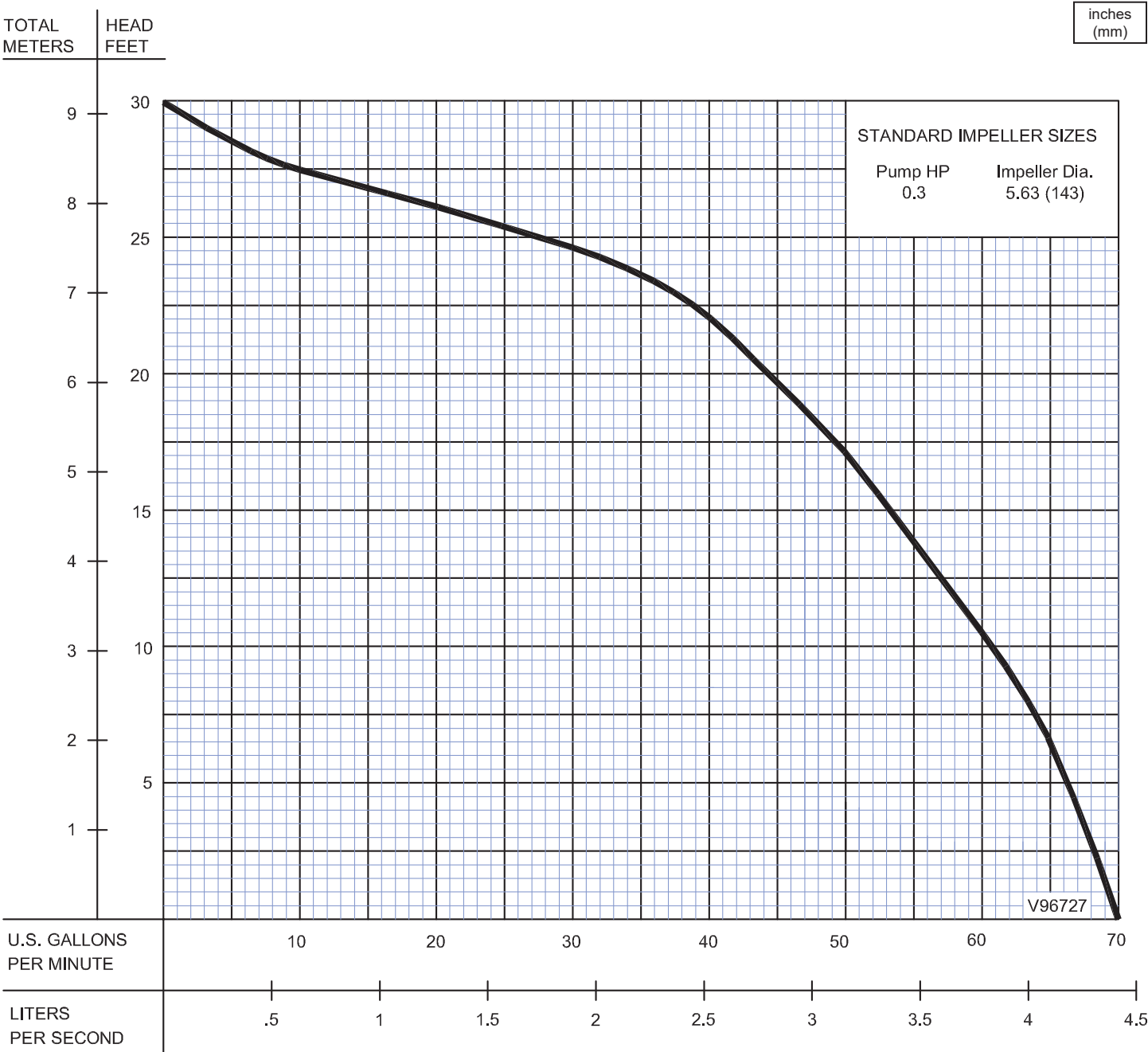
IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) 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.
- 3.) 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



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

Submersible Effluent Pumps

Specifications:

DISCHARGE 1½" NPT, Female, Vertical
LIQUID TEMPERATURE 104°F (40°C) Continuous
MOTOR HOUSING Cast Iron
BODY & STRAINER Thermoplastic
IMPELLER: Design 10 Vane vortex, with pump out vanes on
back side. Balanced, ISO G6.3

MaterialCast Iron

SHAFT Stainless Steel

O-RINGSBuna-N

HARDWARE 300 Series Stainless Steel

PAINT Air Dry Enamel

SEAL: *Design*Single Mechanical, Type 21

Material Carbon/Ceramic/Buna-N

Hardware - 300 Series Stainless

CORD ENTRY20 ft. (6m) Quick connect cord with plug and pressure Grommet for sealing and strain relief

UPPER BEARING.....Single Row, Ball, Oil Lubricated

LOWER BEARING.....Single Row, Ball, Oil Lubricated

MOTOR: *Design*Oil Filled

Insulation.....Class B

SINGLE PHASE.....Permanent Split Capacitor (PSC).
Includes thermal overload protection in
motor

LEVEL CONTROL

EP52X.....None

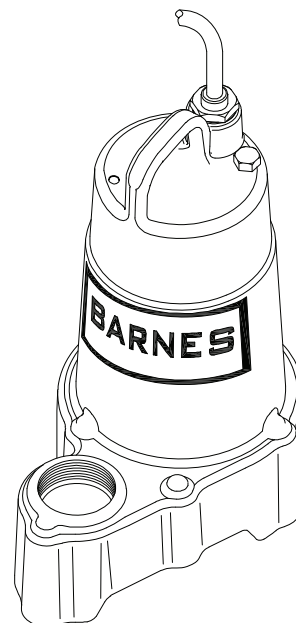
EP52AXWide angle, Mechanical, 20 ft. (6m) cord
with Piggy-Back plug

EP52VFX Vertical float, PVC, snap action, 20 ft (6m)
cord with Piggy-Back plug

MINIMUM SUMP DIA:

EP52AX18" (457mm)

EP52X & EP52VXF 12" (305mm)



Series: EP52X
1/2HP, 3450RPM, 60Hz

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.



WARNING:

CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV



Series EP52X

3/4" Spherical Solids Handling
Manual & Automatic



www.cranepumps.com

Submersible Effluent Pumps

Model: EP52X

13.00 (330.2)
3.56 (90)
8.52 (216)
1.70 (43)
3.87 (98)
3.28 (83)
1.85 (47)
6.23 (158)
1-1/2 (38) N.P.T. DISCHARGE

Model: EP52VFX

ON
4.36 (114)
OFF
3.92 (99)
9.01 (229)

Model: EP52AX

120° PUMPING DIFFERENTIAL
9.00 (229)

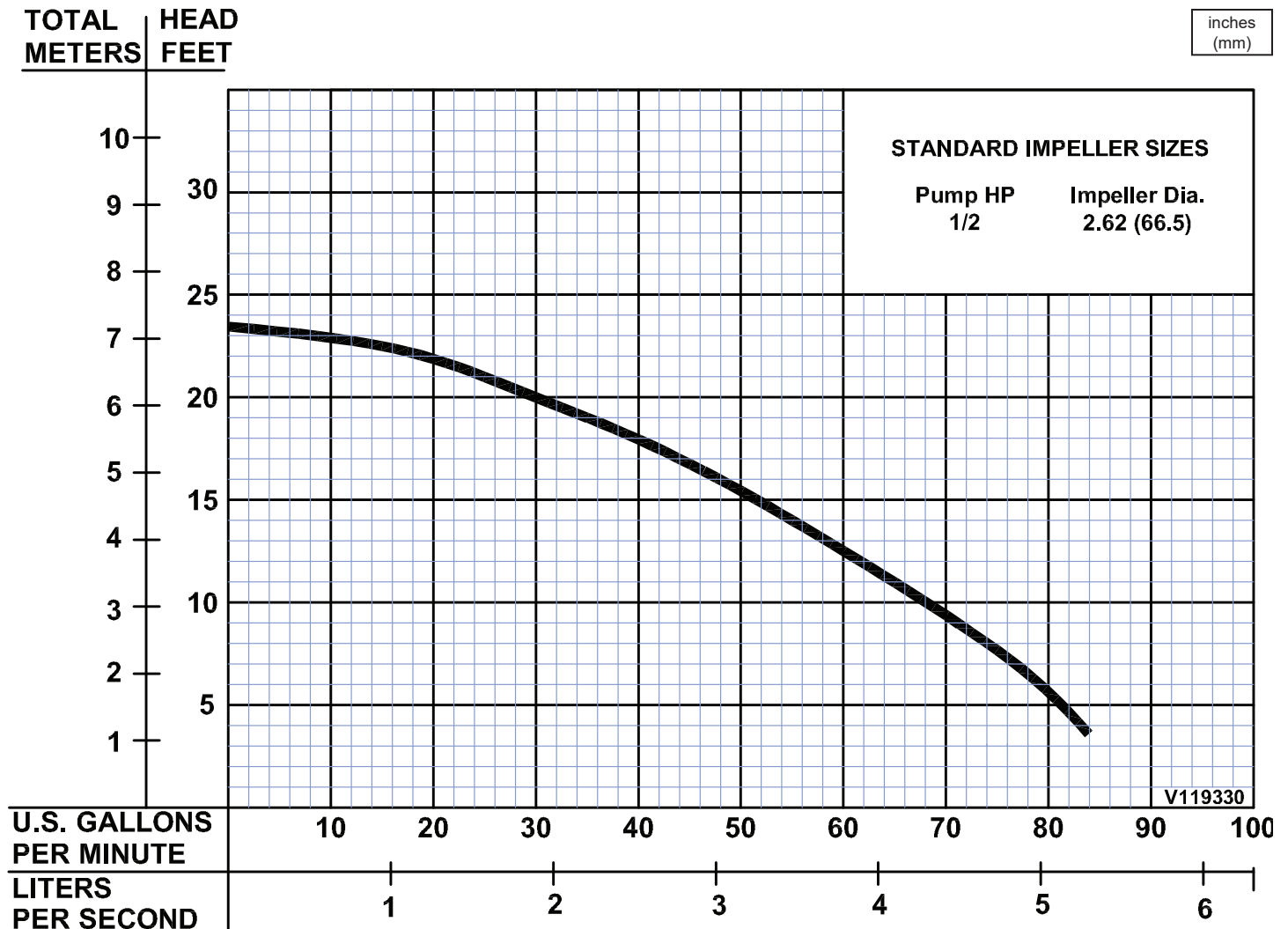
MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
EP52X	119330	1/2	240/1	60	3450	D	3.4	20 ft. (6m)	16/3	SJTOW
EP52AX	119411	1/2	240/1	60	3450	D	3.4	20 ft. (6m)	16/3	SJTOW
EP52VFX	119412	1/2	240/1	60	3450	D	3.4	20 ft. (6m)	16/3	SJTOW

IMPORTANT !

1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.

2.) 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.

Submersible Effluent Pumps



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

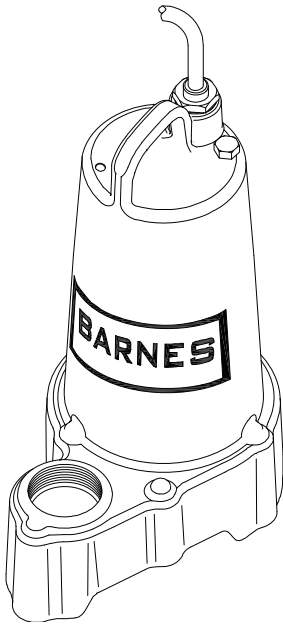
Series EP72X

3/4" Spherical Solids Handling
Manual & Automatic



www.cranepumps.com

Submersible Effluent Pumps



Specifications:

DISCHARGE	1½" NPT, Female, Vertical
LIQUID TEMPERATURE	104°F (40°C) Continuous
MOTOR HOUSING	Cast Iron
BODY & STRAINER	Thermoplastic
IMPELLER: Design	10 Vane vortex, with pump out vanes on back side. Balanced, ISO G6.3
Material	Cast Iron
SHAFT	Stainless Steel
O-RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Single Mechanical, Type 21
Material	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	20 ft. (6m) Quick connect cord with plug and pressure grommet for sealing and strain relief
UPPER BEARING.....	Single Row, Ball, Oil Lubricated
LOWER BEARING.....	Single Row, Ball, Oil Lubricated
MOTOR: Design	Oil Filled
Insulation.....	Class B
SINGLE PHASE.....	Permanent Split Capacitor (PSC). Includes thermal overload protection in motor
LEVEL CONTROL	
EP72X.....	None
EP72AX	Wide angle, Mechanical, 20 ft. (6m) cord with Piggy-Back plug
EP72VFX	Vertical float, PVC, snap action, 20 ft. (6m) cord with Piggy-Back plug
MINIMUM SUMP DIA:	
EP72AX	18" (457mm)
EP72X & EP72VXF	12" (305mm)

Series: EP72X
3/4HP, 3450RPM, 60Hz

DESCRIPTION:

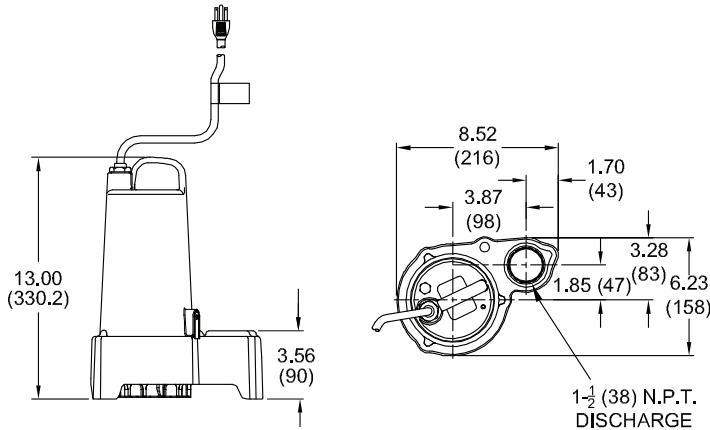
PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.



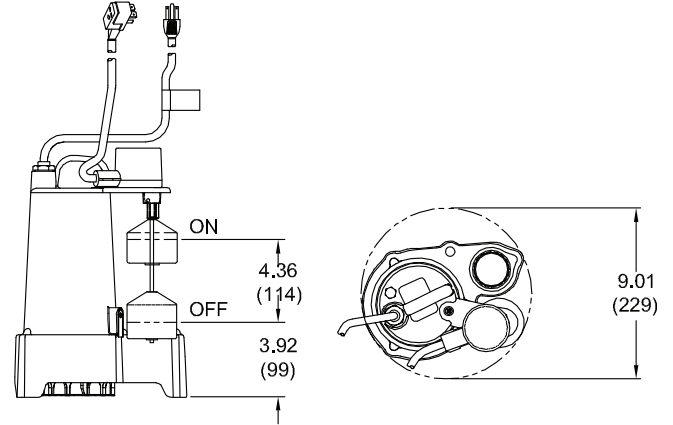
WARNING:
CANCER AND REPRODUCTIVE HARM -
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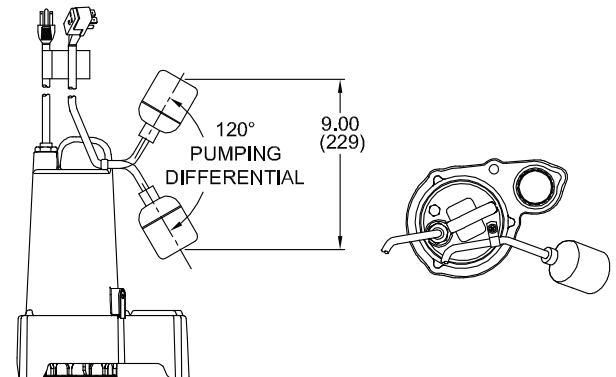
Model: EP72X



Model: EP72VFX



Model: EP72AX



MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
EP72X	119331	3/4	240/1	60	3450	A	4.3	20 ft. (6m)	16/3	SJTOW
EP72AX	119413	3/4	240/1	60	3450	A	4.3	20 ft. (6m)	16/3	SJTOW
EP72VFX	119414	3/4	240/1	60	3450	A	4.3	20 ft. (6m)	16/3	SJTOW

IMPORTANT !

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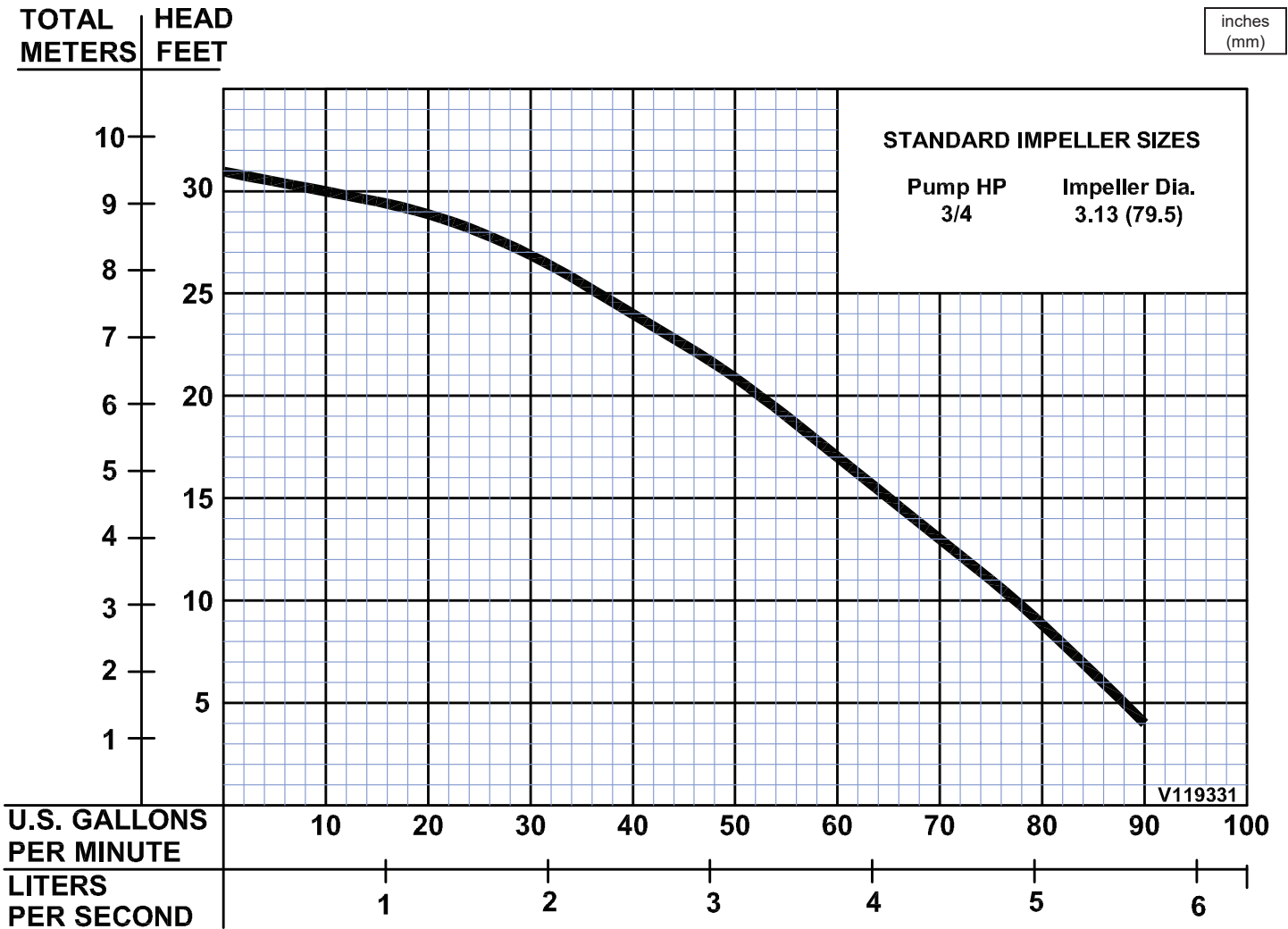
Series EP72X

Performance Curve
3/4HP, 3450RPM, 60Hz



www.cranepumps.com

Submersible Effluent Pumps



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

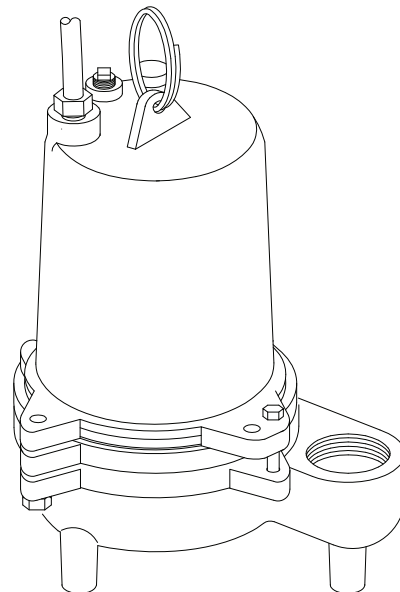
Submersible Effluent Pumps

Specifications:

DISCHARGE	2" NPT, Female, Vertical
LIQUID TEMPERATURE	SE411: 77°F (25°C) Continuous SE421: 104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER: <i>Design</i>	2 Vane, Open with pump out vanes on back side Dynamically Balanced, ISO G6.3
<i>Material</i>	Cast Iron ASTM A-48, Class 30
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
Hardware -	300 Series Stainless
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: <i>Design</i>	NEMA L Torque Curve, Oil Filled, Squirrel Cage Induction
<i>Insulation</i>	Class B
SINGLE PHASE.....	Permanent Split Capacitor (PSC) Includes Overload Protection in Motor
LEVEL CONTROL	"A" - Wide Angle, PVC, Mechanical, 15 ft (5m) cord with Piggy-Back Plug, N/O "AU"- Wide Angle, Polypropylene, Mechanical, N/O Integral to pump. ON and OFF Points are adjustable "VF" - Vertical Float, PVC, Snap Action, 15 ft (5m) cord, with Piggy-Back plug. OFF point ONLY is adjustable
OPTIONAL EQUIPMENT	Seal Material, Additional Cord

RECOMMENDED:

Accessories	Break Away Fitting (BAF)
	Check Valve
	Control Panel
Seal Kit PN	085202
Service Kit PN.....	085201



Series: SE (SE411 & SE421) .4HP, 1750RPM, 60Hz

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE
EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT
APPLICATIONS.



WARNING:

CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV



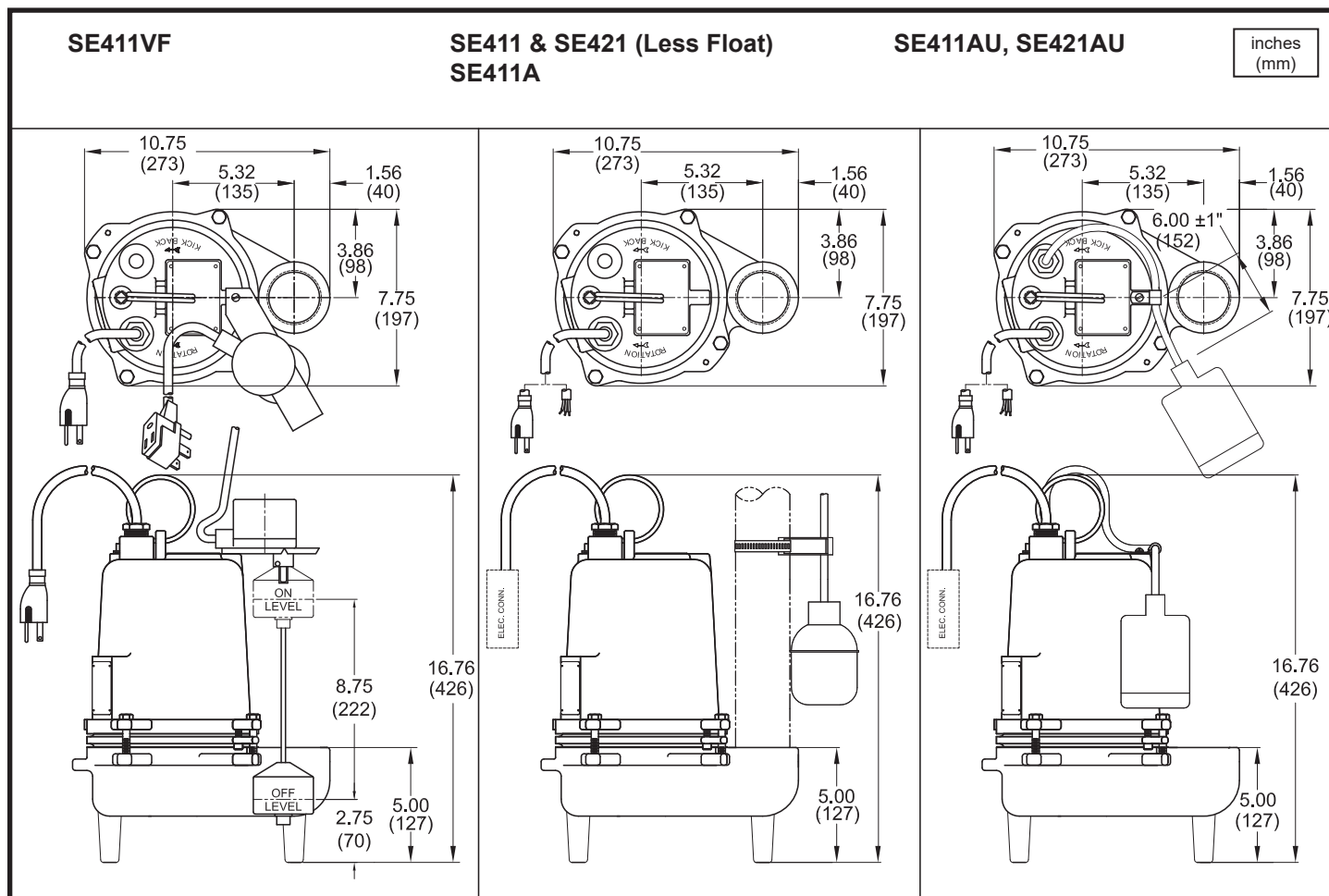
Series SE

2" Spherical Solids Handling
Manual & Automatic

BARNES®

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Submersible Effluent Pumps



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)
SE411	096747	0.4	115	1 / 60	1750	C	12.0	19.0	14/3	SJTOW	0.375 (9.5)
SE411A	096748	0.4	115	1 / 60	1750	C	12.0	19.0	14/3	SJTOW	0.375 (9.5)
SE411AU	096749	0.4	115	1 / 60	1750	C	12.0	19.0	14/3	SJTOW	0.375 (9.5)
SE411VF	100836	0.4	115	1 / 60	1750	C	12.0	19.0	14/3	SJTOW	0.375 (9.5)
SE421	096750	0.4	230	1 / 60	1750	C	6.2	13.0	14/3	SJTOW	0.375 (9.5)
SE421AU	096751	0.4	230	1 / 60	1750	C	6.2	13.0	14/3	SJTOW	0.375 (9.5)

Mechanical Switch on SE-A, cord 16/2, SJOW, Piggy-Back Plug
 Mechanical Switch on SE-AU, cord 14/2, SJOW, 0.370 (9.4mm) O.D.
 Vertical Switch on SE-VF, cord 16/2, SJOW, 0.320 (8.1mm) O.D. Piggy-Back Plug

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.

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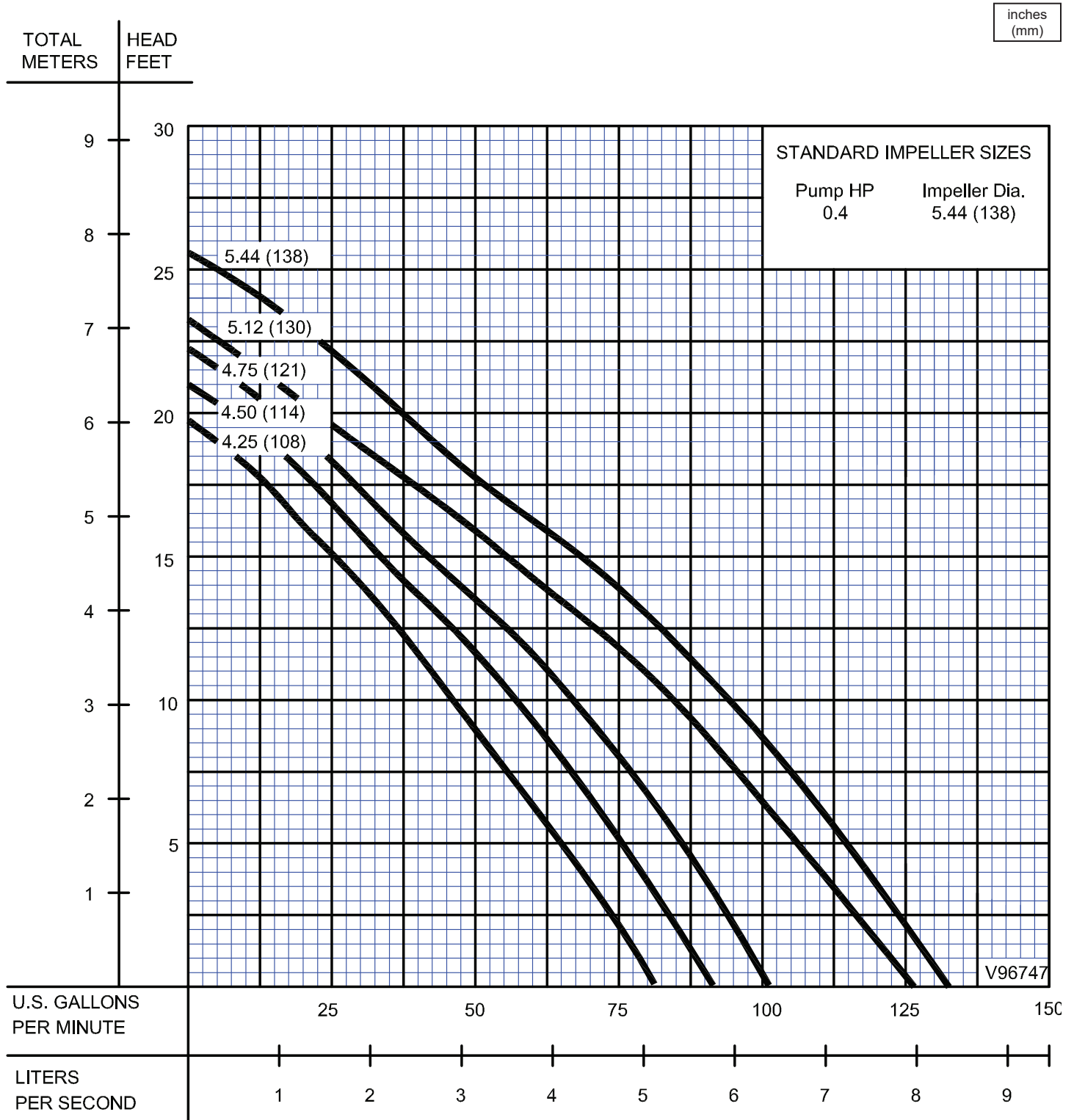
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Submersible Effluent Pumps



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

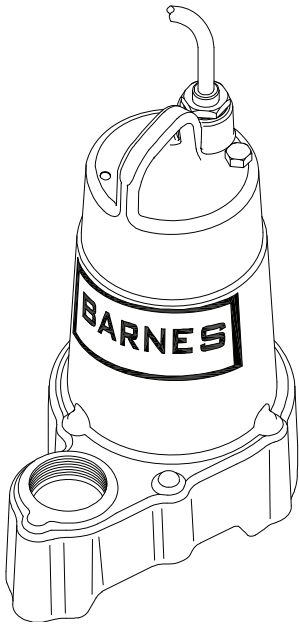
Series SP33

1/2" Spherical Solids Handling
Manual & Automatic, Sump/Effluent



www.cranepumps.com

Submersible Effluent Pumps



Specifications:

DISCHARGE	1½" NPT, Female, Vertical
LIQUID TEMPERATURE	104°F (40°C) Continuous
MOTOR HOUSING	Cast Iron
PUMP BODY & STRAINER	Thermoplastic
IMPELLER: Design	10 Vane vortex, with pump out vanes on back side. Balanced, ISO G6.3
Material	Cast Iron
SHAFT	Stainless Steel
O-RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Single Mechanical, Type 21
Material	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	10 ft. (3m) or 20 ft. (6m) Cord with plug and Pressure Grommet for sealing and strain relief
UPPER BEARING.....	Single Row, Ball, Oil Lubricated
LOWER BEARING.....	Single Row, Ball, Oil Lubricated
MOTOR: Design	Oil Filled
Insulation.....	Class B
SINGLE PHASE.....	Permanent Split Capacitor (PSC). Includes thermal overload protection in motor
LEVEL CONTROL:	
SP33	None
SP33A.....	Wide Angle, Mechanical, 10 ft (3m) cord or 20 ft (6m) cord
SP33VF.....	Vertical Float, PVC, Snap Action, 10 ft (3m) cord or 20 ft. (6m) cord
SP33D	Diaphragm switch, pressure operated, Snap Action, normally open, 10 Ft. (3m) cord
MINIMUM SUMP DIA:	
SP33A.....	18" (457mm)
SP33, SP33VF	
SP33D.....	11" (279mm)

Series: SP33
1/3HP, 3450RPM, 60Hz

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.



WARNING:
CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV



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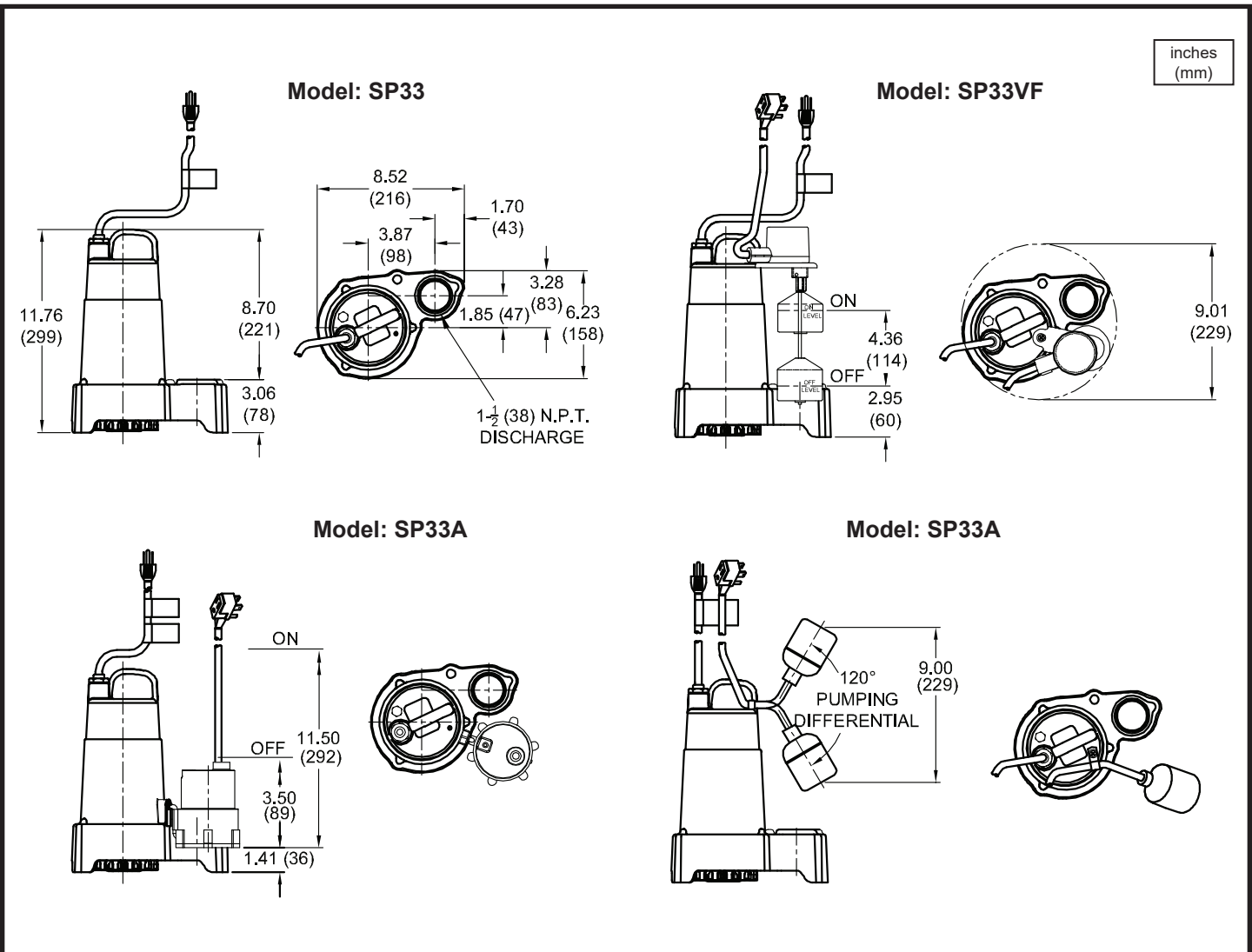


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Submersible Effluent Pumps

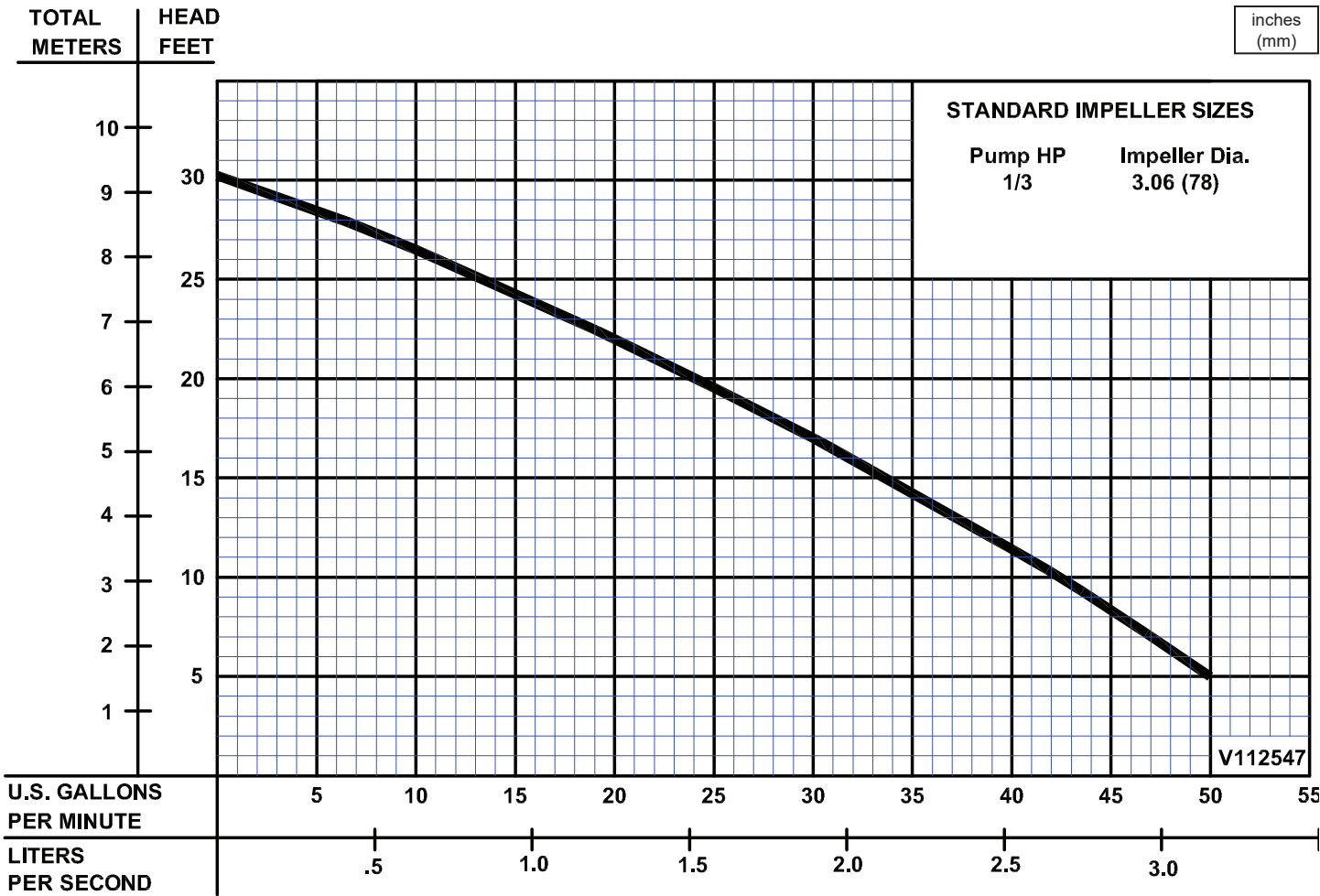


MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SP33	112547	1/3	120/1	60	3450	B	5.8	10 ft. (3m)	18/3	SJTOW
SP33X	112548	1/3	120/1	60	3450	B	5.8	20 ft. (6m)	18/3	SJTOW
SP33A	112549	1/3	120/1	60	3450	B	5.8	10 ft. (3m)	18/3	SJTOW
SP33AX	112550	1/3	120/1	60	3450	B	5.8	20 ft. (6m)	18/3	SJTOW
SP33VF	112551	1/3	120/1	60	3450	B	5.8	10 ft. (3m)	18/3	SJTOW
SP33VFX	112552	1/3	120/1	60	3450	B	5.8	20 ft. (6m)	18/3	SJTOW
SP33D	118371	1/3	120/1	60	3450	B	5.8	10 ft. (3m)	18/3	SJTOW

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.

Submersible Effluent Pumps

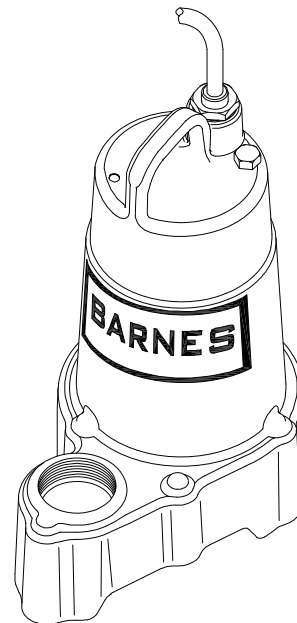


Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

Submersible Effluent Pumps

Specifications:

DISCHARGE	1½" NPT, Female, Vertical
LIQUID TEMPERATURE	104°F (40°C) Continuous
MOTOR HOUSING	Cast Iron
PUMP STRAINER	Thermoplastic
IMPELLER: Design	10 Vane vortex, with pump out vanes on back side. Balanced, ISO G6.3
Material	Cast Iron
SHAFT	Stainless Steel
O-RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Single Mechanical, Type 21
Material	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	20 ft. (6m) Cord with plug and pressure Grommet for sealing and strain relief
UPPER BEARING	Single Row, Ball, Oil Lubricated
LOWER BEARING	Single Row, Ball, Oil Lubricated
MOTOR: Design	Oil Filled
Insulation	Class B
SINGLE PHASE	Permanent Split Capacitor (PSC). Includes thermal overload protection in motor
LEVEL CONTROL	
SP50X	None
SP50AX	Wide angle, Mechanical, 20 ft. (6m) cord
SP50VFX	Vertical float, PVC, snap action, 20 ft (6m) cord
MINIMUM SUMP DIA:	
SP50AX	18" (457mm)
SP50X & SP50VXF	12" (305mm)



Series: SP50 1/2HP, 3450RPM, 60Hz

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.



WARNING:
CANCER AND REPRODUCTIVE HARM -
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Series SP50

1/2" Spherical Solids Handling
Manual & Automatic, Sump/Effluent



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Submersible Effluent Pumps

Model: SP50X

11.76 (299)
8.70 (221)
3.06 (78)
8.52 (216)
3.87 (98)
1.70 (43)
3.28 (83)
1.85 (47)
6.23 (158)
1-1/2 (38) N.P.T. DISCHARGE

Model: SP50VFX

ON
OFF
4.36 (114)
2.95 (60)
9.01 (229)

Model: SP50AX

120° PUMPING DIFFERENTIAL
9.00 (229)

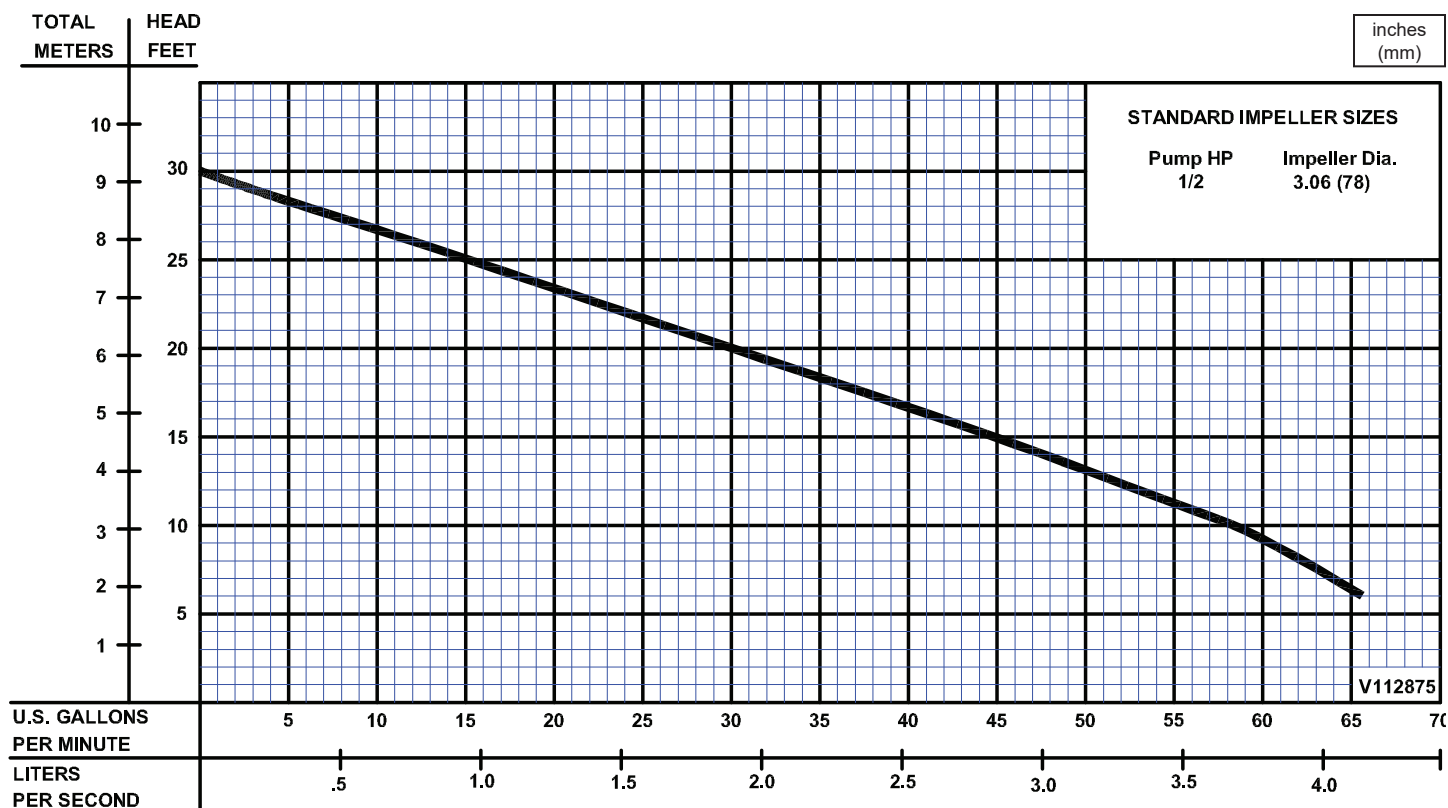
MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SP50X	112875	1/2	120/1	60	3450	A	6.8	20 ft. (6m)	18/3	SJTOW
SP50AX	112877	1/2	120/1	60	3450	A	6.8	20 ft. (6m)	18/3	SJTOW
SP50VFX	112879	1/2	120/1	60	3450	A	6.8	20 ft. (6m)	18/3	SJTOW

IMPORTANT !

1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.

2.) 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.

Submersible Effluent Pumps



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

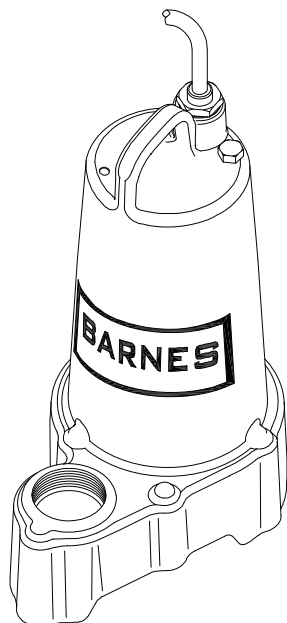
Series SP75

1/2" Spherical Solids Handling
Manual & Automatic, Sump/Effluent

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Submersible Effluent Pumps



Series: SP75 3/4HP, 3450RPM, 60Hz

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.

Specifications:

DISCHARGE	1½" NPT, Female, Vertical
LIQUID TEMPERATURE	104°F (40°C) Continuous
MOTOR HOUSING	Cast Iron
PUMP STRAINER	Thermoplastic
IMPELLER: <i>Design</i>	10 Vane vortex, with pump out vanes on back side. Balanced, ISO G6.3
<i>Material</i>	Cast Iron
SHAFT	Stainless Steel
O-RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: <i>Design</i>	Single Mechanical, Type 21
<i>Material</i>	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	20 ft. (6m) Cord with plug and pressure Grommet for sealing and strain relief
UPPER BEARING.....	Single Row, Ball, Oil Lubricated
LOWER BEARING.....	Single Row, Ball, Oil Lubricated
MOTOR: <i>Design</i>	Oil Filled
<i>Insulation</i>	Class B
SINGLE PHASE.....	Permanent Split Capacitor (PSC). Includes thermal overload protection in motor
LEVEL CONTROL	
SP75X.....	None
SP75AX	Wide angle, Mechanical, 20 ft. (6m) cord
SP75VFX	Vertical float, PVC, snap action, 20 ft. (6m) cord
MINIMUM SUMP DIA:	
SP75AX	18" (457mm)
SP75X & SP75VXF	12" (305mm)



WARNING:
CANCER AND REPRODUCTIVE HARM -
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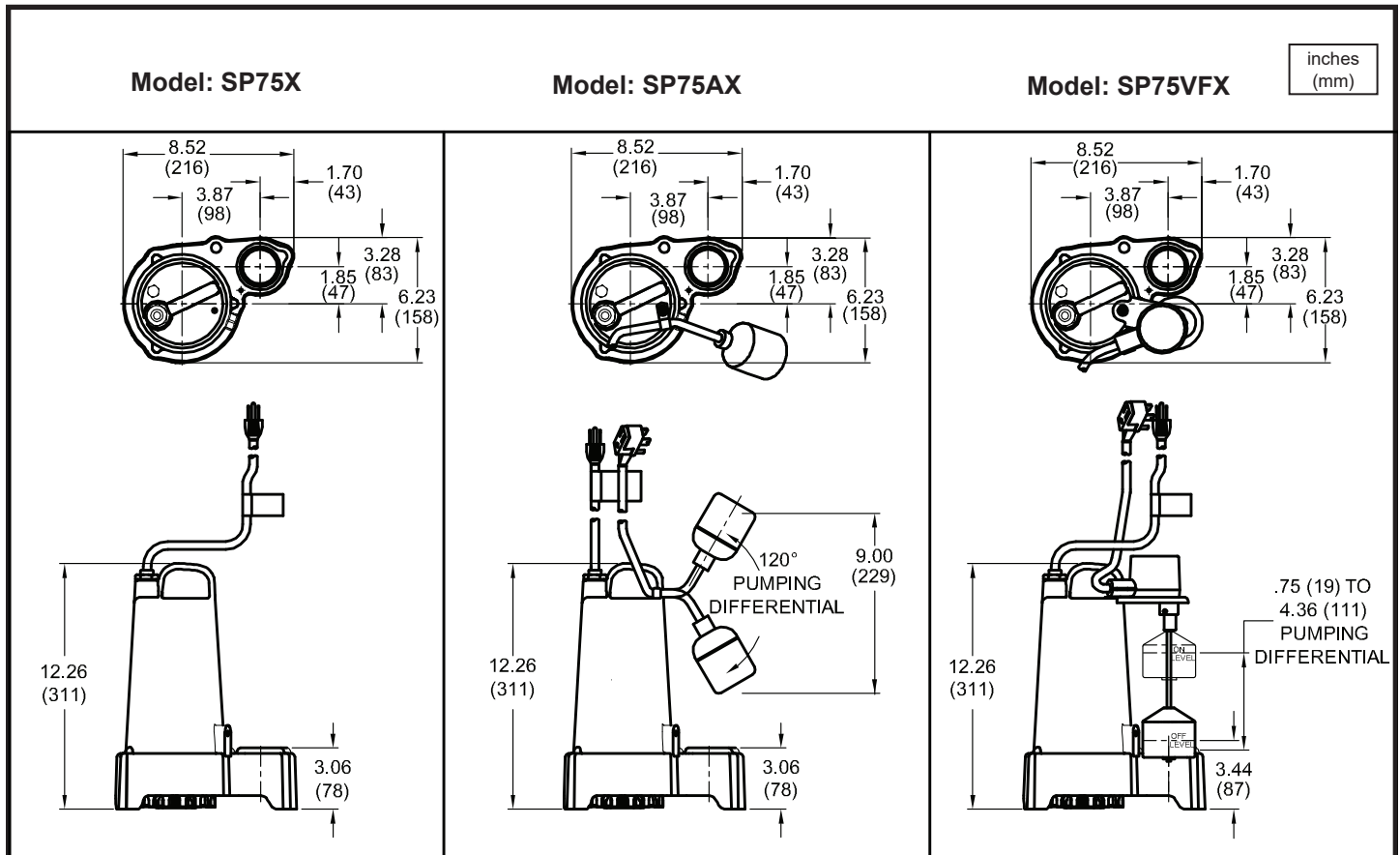
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MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SP75X	115368	3/4	120/1	60	3450	H	9.8	20 ft. (6m)	18/3	SJTOW
SP75AX	115369	3/4	120/1	60	3450	H	9.8	20 ft. (6m)	18/3	SJTOW
SP75VFX	115370	3/4	120/1	60	3450	H	9.8	20 ft. (6m)	18/3	SJTOW

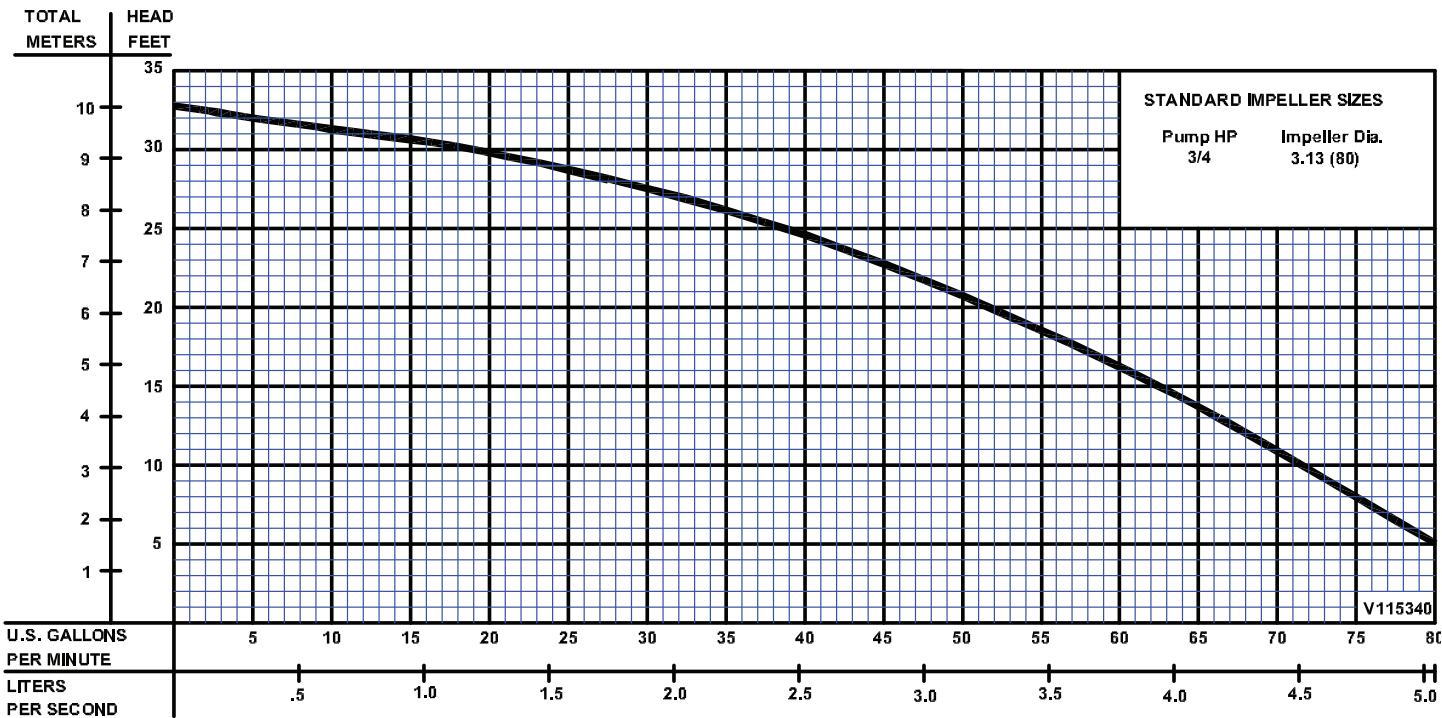
IMPORTANT !

- 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.

Series SP75
Performance Curve
3/4HP, 3450RPM, 60Hz

Submersible Effluent Pumps

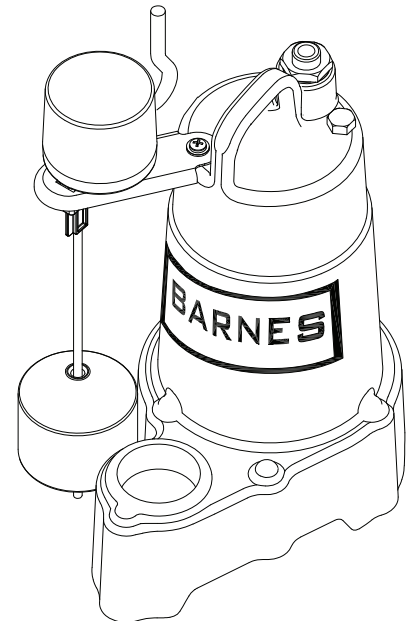
inches
(mm)



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

Specifications:

DISCHARGE	1½" NPT, Female, Vertical
LIQUID TEMPERATURE	104°F (40°C) Continuous
MOTOR HOUSING	Cast Iron
PUMP STRAINER	Thermoplastic
IMPELLER: <i>Design</i>	10 Vane vortex, with pump out vanes on back side. Balanced, ISO G6.3
<i>Material</i>	Cast Iron
SHAFT	Stainless Steel
O-RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: <i>Design</i>	Single Mechanical, Type 21
<i>Material</i>	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	10 ft. (3m) or 20 ft. (6m) Cord with plug and Pressure grommet for sealing and strain relief
UPPER BEARING.....	Single Row, Ball, Oil Lubricated
LOWER BEARING.....	Single Row, Ball, Oil Lubricated
MOTOR: <i>Design</i>	Oil Filled
<i>Insulation</i>	Class B
SINGLE PHASE.....	Permanent Split Capacitor (PSC). Includes thermal overload protection in motor
LEVEL CONTROL	Vertical float, PVC, snap action, 10 ft (3m) or 20 ft. (6m) cord and integrated battery operated alarm (P/N: 124886) w/ 6 ft.(1.8m) cord. (See Section D page 10 for Alarm)
MINIMUM SUMP DIA	12" (305mm)



Series: SP33VFAL 1/3HP, 3450RPM, 60Hz

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT APPLICATIONS.



WARNING:

CANCER AND REPRODUCTIVE HARM -
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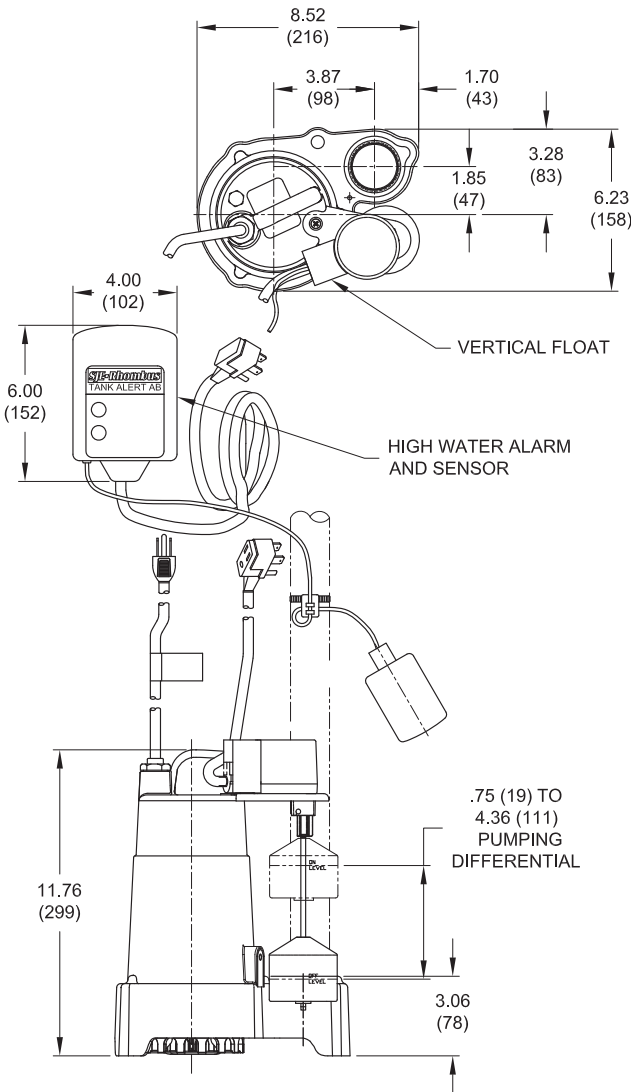
Series SP33VFAL

1/2" Spherical Solids Handling
Automatic w/Alarm, Sump/Effluent



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Submersible Effluent Pumps

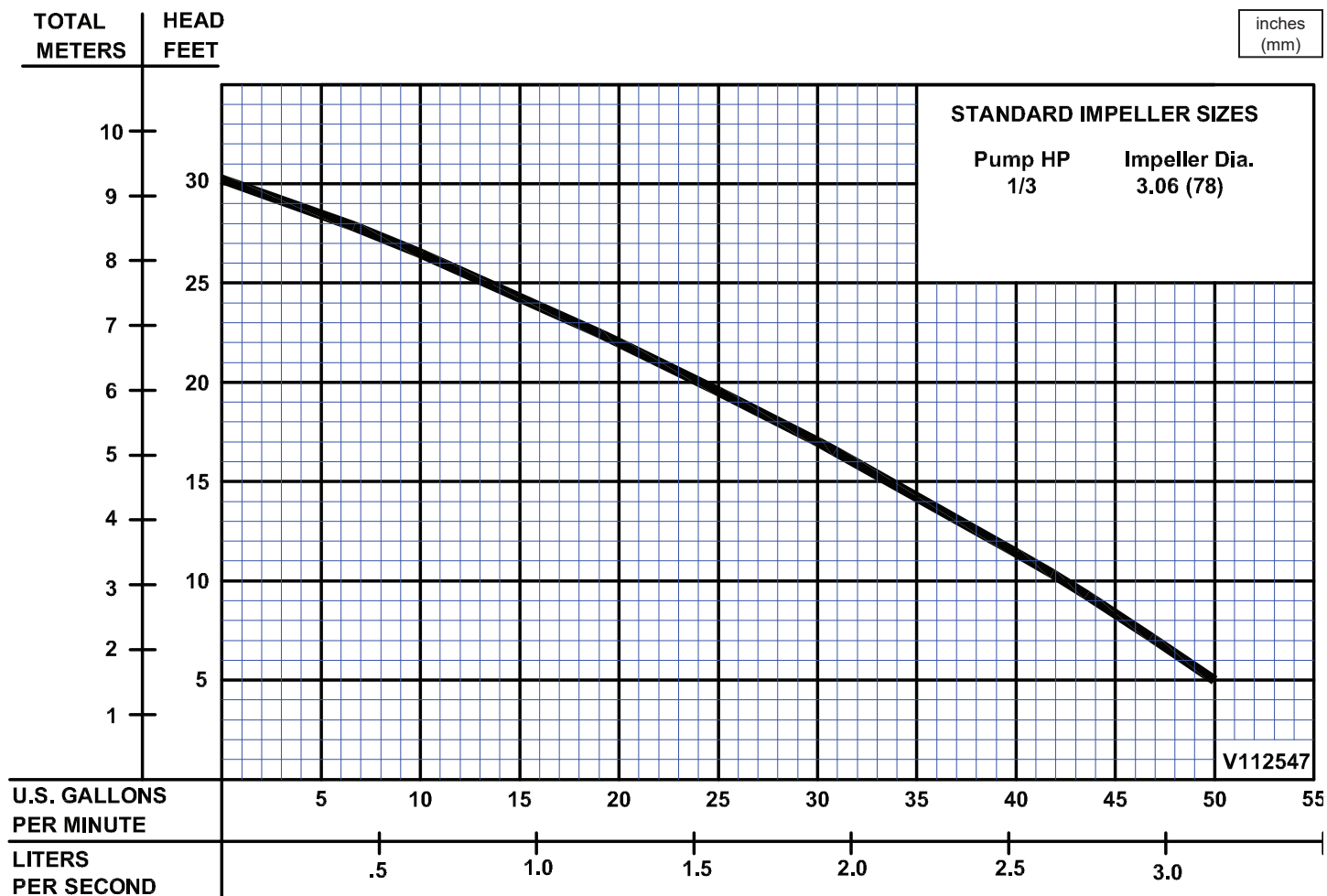


MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SP33VFAL	112914	1/3	120/1	60	3450	B	5.8	10 ft. (3m)	18/3	SJTOW

IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) 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.

Submersible Effluent Pumps



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

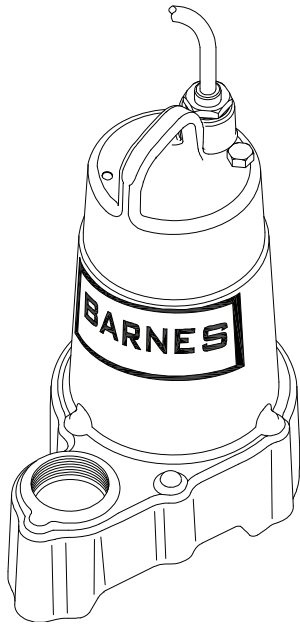
Series SP33HTX

1/2" Spherical Solids Handling, Sump/Effluent
Manual, High Temperature

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Submersible Effluent Pumps



Specifications:

DISCHARGE	1½" NPT, Female, Vertical
LIQUID TEMPERATURE	185°F (85°C) Continuous, Fully Submerged
MOTOR HOUSING	Cast Iron
PUMP STRAINER	Stainless
IMPELLER: Design	10 Vane vortex, with pump out vanes on back side. Balanced, ISO G6.3
Material	Cast Iron
SHAFT	Stainless Steel
O-RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: Design	Single Mechanical, Type 21
Material	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
CORD ENTRY	20 ft. (6m) Cord with plug and Pressure Grommet for sealing and strain relief
UPPER BEARING.....	Single Row, Ball, Oil Lubricated
LOWER BEARING.....	Single Row, Ball, Oil Lubricated
MOTOR: Design	Oil Filled
Insulation.....	Class B
SINGLE PHASE.....	Permanent Split Capacitor (PSC). Includes thermal overload protection in motor
MINIMUM SUMP DIA:	
SP33HT	12" (305mm)

Series: SP33HTX
1/3HP, 3450RPM, 60Hz

DESCRIPTION:

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



WARNING:
CANCER AND REPRODUCTIVE HARM -
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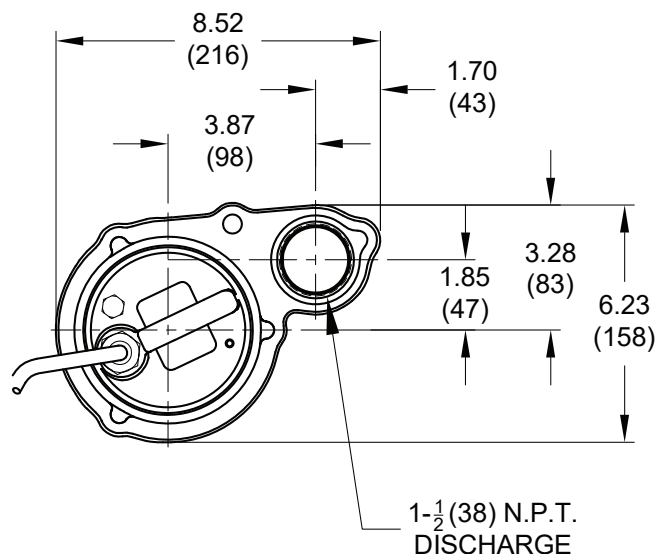
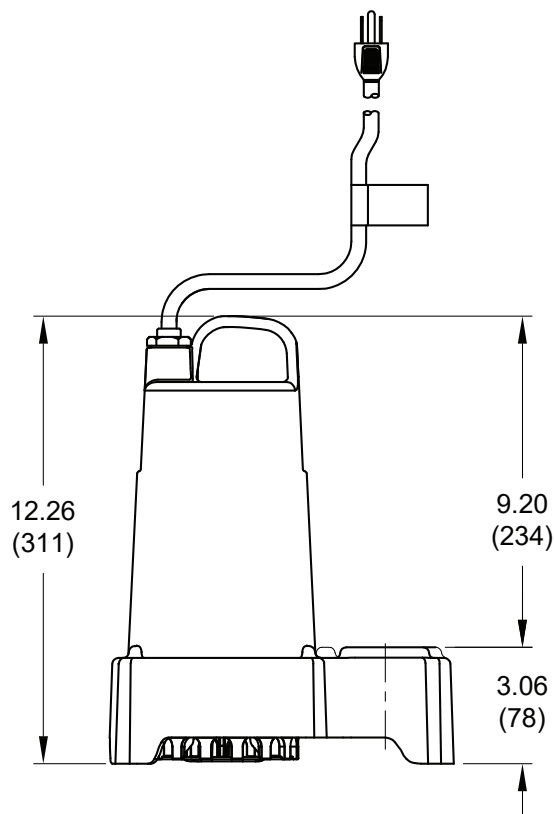
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PUMPS & SYSTEMS

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inches
(mm)

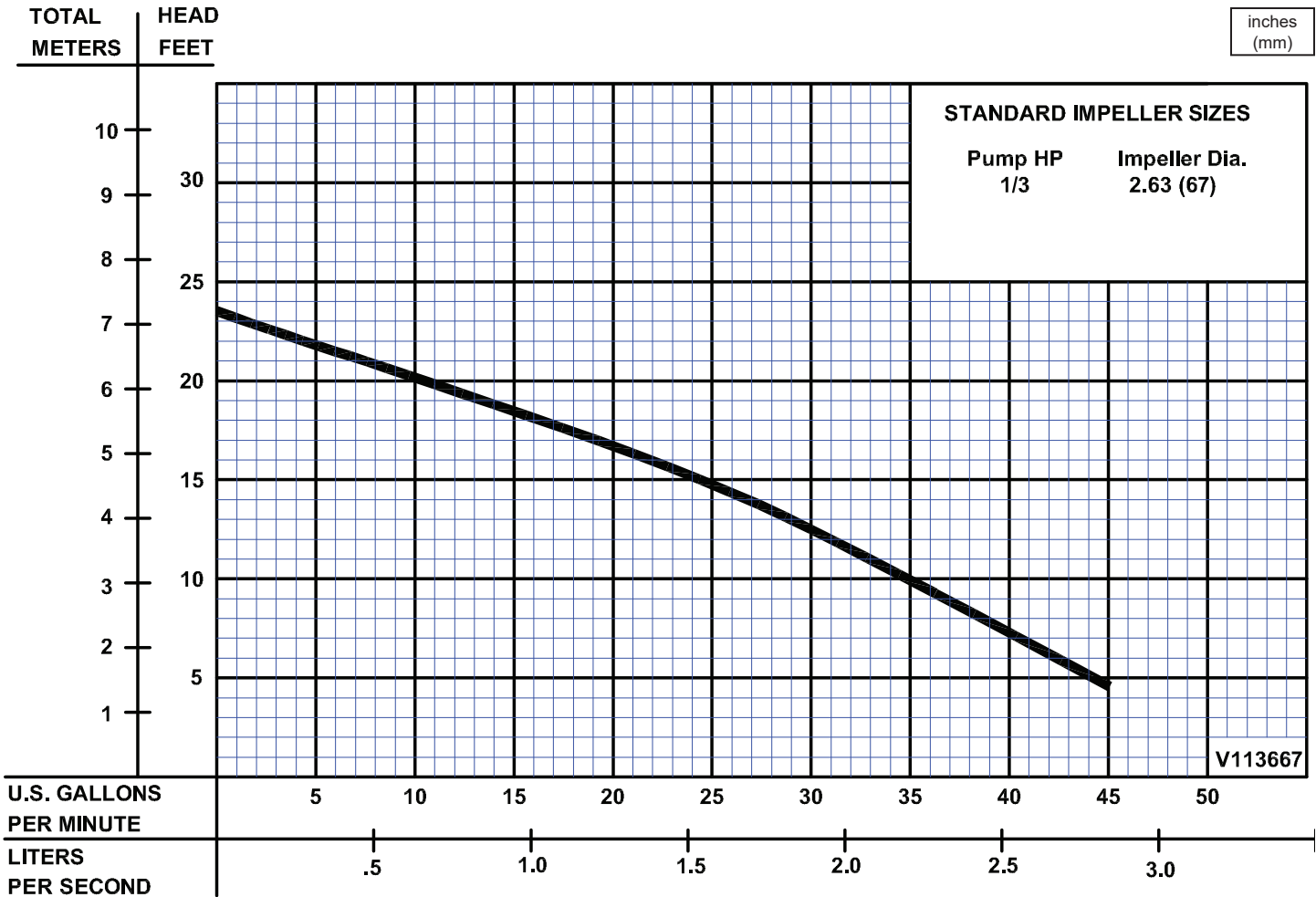


MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SP33HTX	113667	1/3	120/1	60	3450	B	4.1	20 ft. (6m)	18/3	SJTOW

IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) 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.
- 3.) MUST USE A **HIGH TEMPERATURE** WIDE ANGLE LEVEL CONTROL IN HIGH TEMPERATURE APPLICATIONS.

Submersible Effluent Pumps

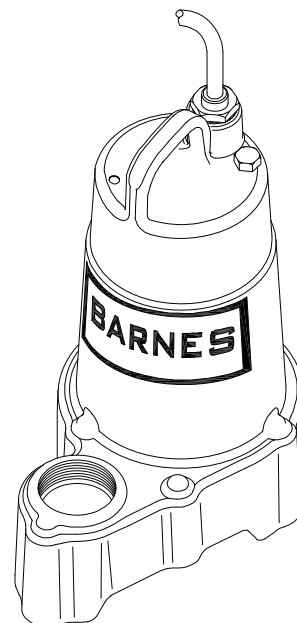


Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

Submersible Effluent Pumps

Specifications:

DISCHARGE	1½" NPT, Female, Vertical
LIQUID TEMPERATURE	221°F (105°C) Continuous, Fully Submerged
MOTOR HOUSING	Cast Iron
PUMP STRAINER	Stainless
IMPELLER: <i>Design</i>	10 Vane vortex, with pump out vanes on back side. Balanced, ISO G6.3
<i>Material</i>	Cast Iron
SHAFT	Stainless Steel
O-RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
PAINT	Air Dry Enamel
SEAL: <i>Design</i>	Single Mechanical, Type 21
<i>Material</i>	Carbon/Ceramic/Buna-N Hardware -300 Series Stainless
CORD ENTRY	25 ft. (7.6m) Cord with plug and Pressure Grommet for sealing and strain relief
UPPER BEARING.....	Single Row, Ball, Oil Lubricated
LOWER BEARING.....	Single Row, Ball, Oil Lubricated
<i>MOTOR: Design</i> ...	Oil Filled
SINGLE PHASE.....	Permanent Split Capacitor (PSC). Includes thermal overload protection in motor
LEVEL CONTROL:	
SP33EHT	None
SP33EHTA.....	Wide Angle, Mechanical Float
MINIMUM SUMP DIA:	
SP33EHT	12" (305mm)
NOTE.....	GFCI Compatible to Comply with NEC 210.8 (A)



Series: SP33EHT 1/3HP, 3450RPM, 60Hz

DESCRIPTION:

PUMP IS DESIGNED FOR HANDLING SEWAGE
EFFLUENT IN TYPICAL SEPTIC TANK/EFFLUENT
APPLICATIONS.



WARNING:
CANCER AND REPRODUCTIVE HARM -
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Series SP33EHT

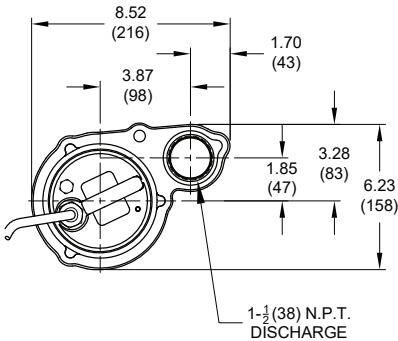
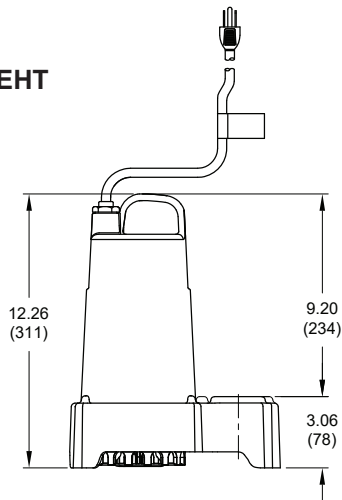
Extra High Temperature - 1/2" Spherical Solids Handling
Manual & Automatic, Submersible Sump /Effluent



www.cranepumps.com

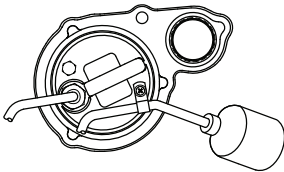
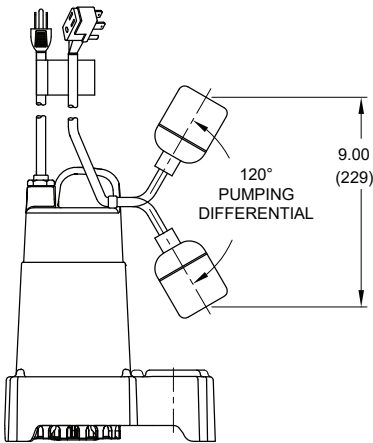
Submersible Effluent Pumps

Model: SP33EHT



inches
(mm)

Model: SP33EHTA

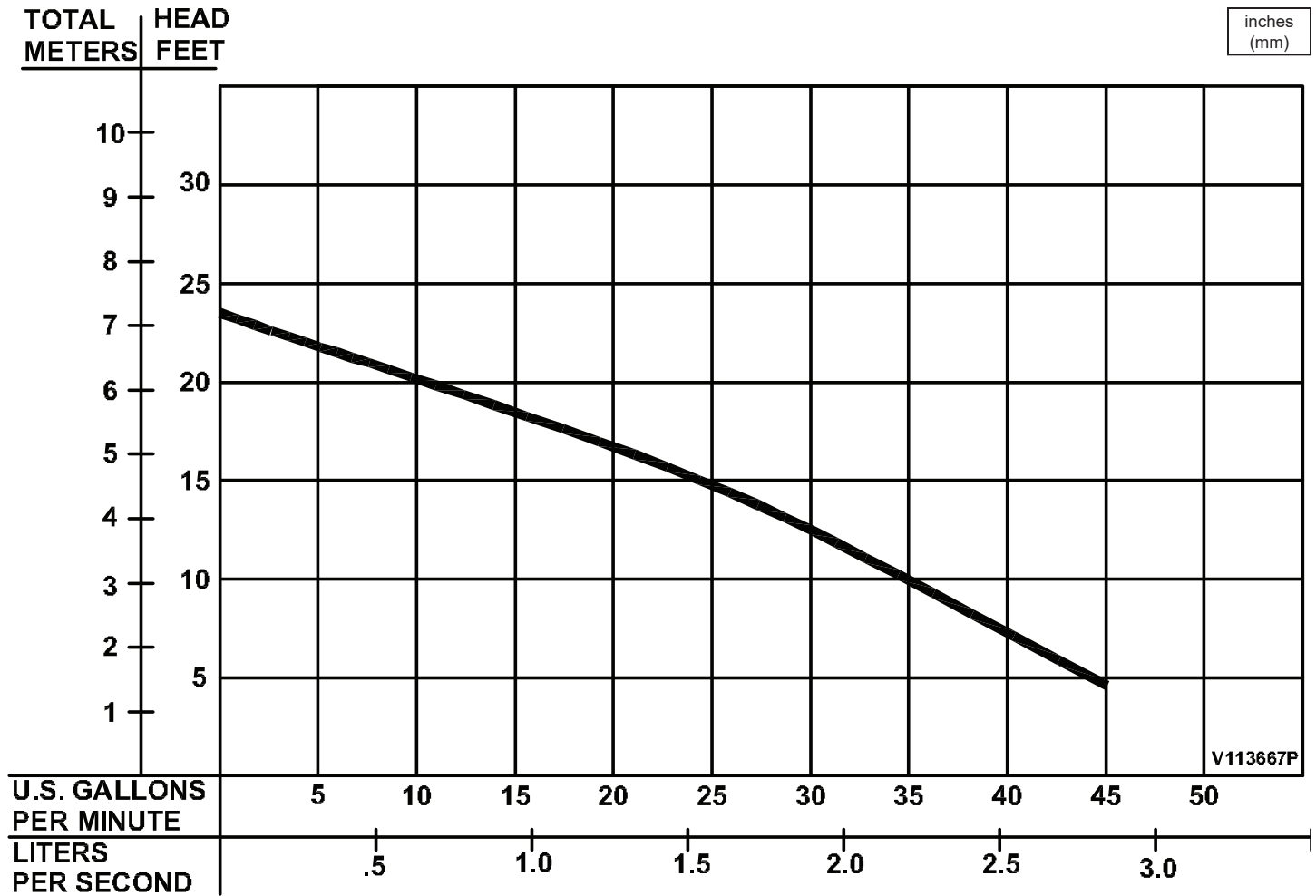


MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	CORD LENGTH	CORD SIZE	CORD TYPE
SP33EHT	113667A	1/3	120/1	60	3450	B	4.1	25 ft. (7.6m)	14/3	SOOW
SP33EHTA	113667B	1/3	120/1	60	3450	B	4.1	25 ft. (7.6m)	14/3	SOOW

IMPORTANT !

- 1.) PUMP MAY BE OPERATED "DRY" FOR EXTENDED PERIODS WITHOUT DAMAGE TO MOTOR AND/OR SEALS.
- 2.) 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.
- 3.) MUST USE A HIGH TEMPERATURE WIDE ANGLE LEVEL CONTROL IN HIGH TEMPERATURE APPLICATIONS.

Submersible Effluent Pumps



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

Submersible Effluent Pumps

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