

**GENERAL INFORMATION**

**SPECIFICATIONS**

**5A. SUBMERSIBLE FOUNTAIN PUMPS**

**PUMP SERIES:**

**SFU (0.3HP - 1HP, 3450RPM)**

**SF (0.4HP, 1750RPM)**

**SF (0.5HP, 1750RPM)**

**3SF-L (1.0HP, 1750RPM)**

**3SF-L (3.0HP - 1750RPM)**

**3SF-HD (1.5 & 2HP - 1750RPM)**

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### Submersible Fountain Pumps

**DISCHARGE** ..... 1 3/4" (45mm) Hose Connection, 90° Rotation

**LIQUID TEMPERATURE** ..... 145°F (63°C) Continuous

**VOLUTE** ..... Brass ASTM A4, 85-5-5-5

**INTERMEDIATE** ..... Brass ASTM A4, 85-5-5-5

**HOUSING TUBE** ..... Stainless Steel

**HOUSING END PIECE** ..... Brass ASTM A4, 85-5-5-5

**SCREEN:** *Design* ..... Area, 264 sq. in. wrap around, 5/32" Dia. mesh  
*Material* ..... 304 Stainless Steel

**PUMP SUPPORTS** ..... Brass

**DIAPHRAGM** ..... Buna-N, Pressure Equalized

**IMPELLER:**  
*Design:* 1/3 & 1/2HP..... Four Vane Open  
 3/4 & 1HP..... Six Vane Open  
*Material* ..... Brass ASTM A4, 85-5-5-5

**SHAFT** ..... 416 Stainless Steel

**O-RINGS** ..... Buna-N

**HARDWARE** ..... 300 Series Stainless Steel

**SEAL** ..... Single Mechanical, Carbon/Ceramic/Buna-N

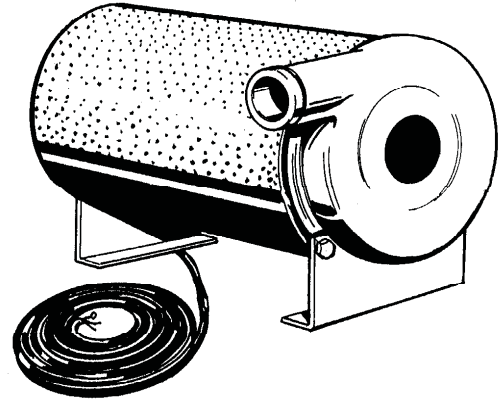
**CABLE ENTRY** ..... 12 ft. (4m) Cord. Pressure grommet for sealing and strain relief

**MOTOR END BEARING** ..... Single Row, Ball, Oil Lubricated

**PUMP END BEARING** ..... Sleeve, Oil Lubricated

**MOTOR:** *Design* ..... NEMA L, Oil Filled, Squirrel Cage Induction  
*Insulation* ..... Class A

**SINGLE PHASE**..... Permanent Split Capacitor (PSC)  
 Includes Overload Protection in Motor



Series: SFU  
 1/3 - 1HP, 3450RPM, 60Hz

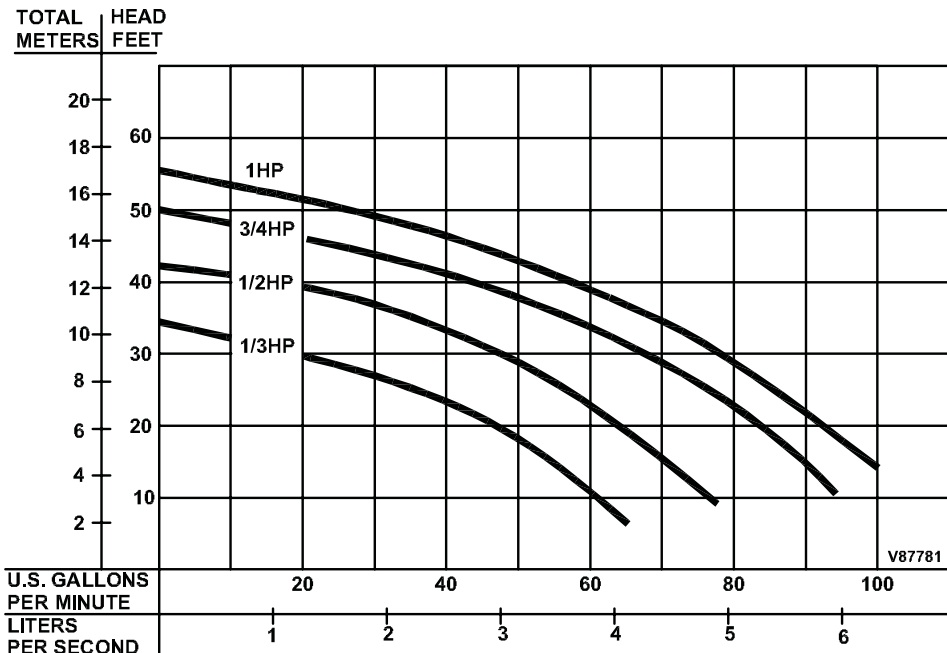


Underwriters Laboratories Inc.  
 File No. E142177



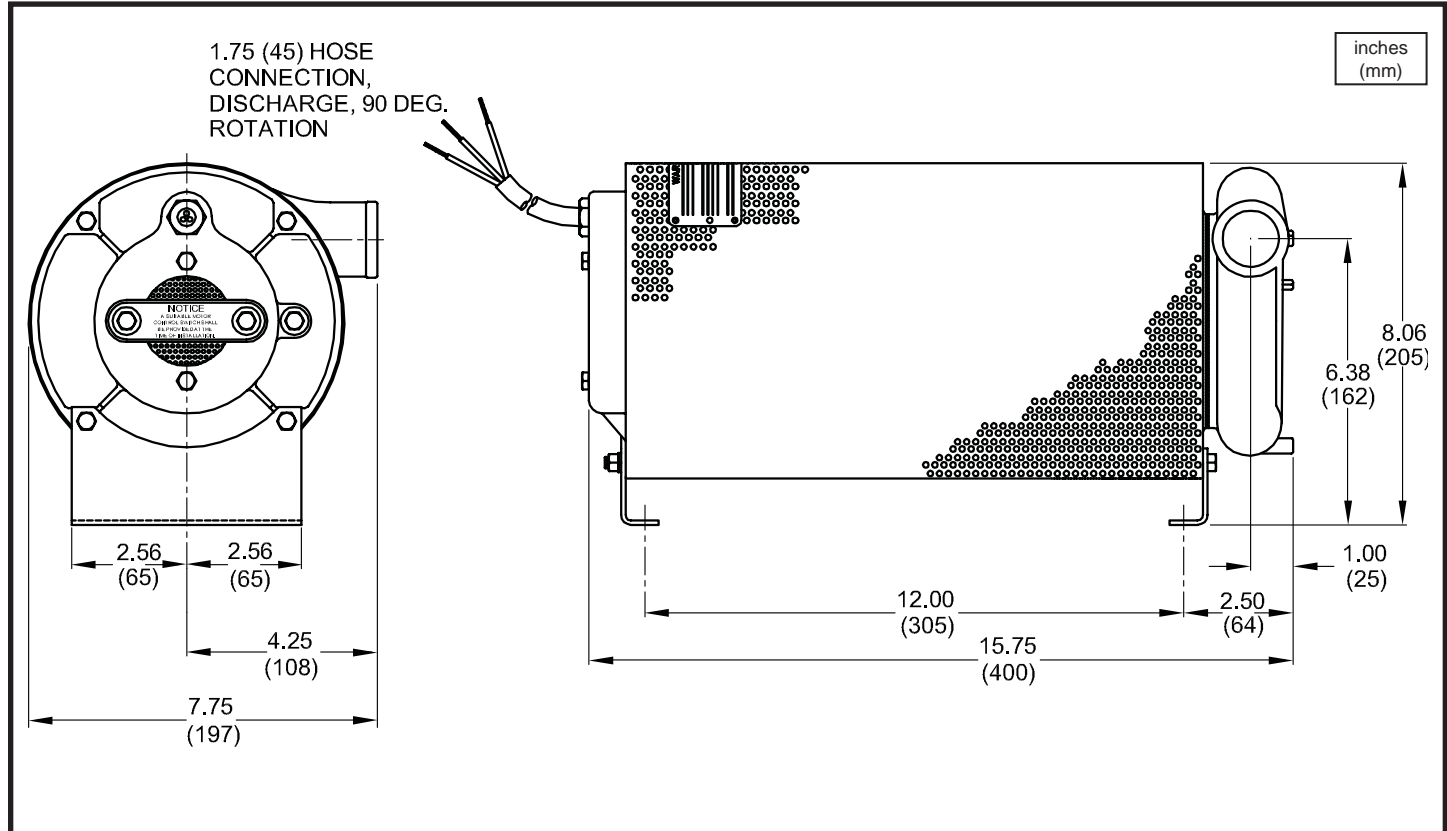
**DESCRIPTION:**

THESE PUMP ARE SPECIALLY DESIGNED FOR USE IN  
 DRAMATIC, DECORATIVE WATER DISPLAYS



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

**Submersible Fountain Pumps**



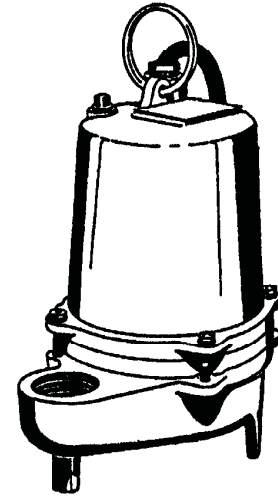
MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D inch (mm)
SFU31	087781	1/3	115/1	60	3450	J	8.0	21.0	16/3	SOW	0.395 (10)
SFU51	087782	1/2	115/1	60	3450	E	9.5	21.0	16/3	SOW	0.395 (10)
SFU71	087783	3/4	115/1	60	3450	D	12.0	28.0	16/3	SOW	0.395 (10)
SFU102	087785	1	230/1	60	3450	E	7.0	21.0	16/3	SOW	0.395 (10)

**IMPORTANT !**

- 1.) THESE PUMPS ARE UL LISTED FOR PUMPING WATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.**
- 2.) SPECIAL SUCTION CHAMBER KEEPS MOTOR 2/3 SUBMERGED AT ALL TIMES FOR COOL OPERATION.
- 3.) MODIFICATIONS MAY AFFECT "UL" LISTING.
- 4.) 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 Fountain Pumps

<b>DISCHARGE</b> .....	2" NPT, Female, Vertical
<b>LIQUID TEMPERATURE</b> .....	77°F (25°C) Continuous
<b>VOLUTE</b> .....	Cast Iron ASTM A-48, Class 30
<b>MOTOR HOUSING</b> .....	Cast Iron ASTM A-48, Class 30
<b>SEAL PLATE</b> .....	Cast Iron ASTM A-48, Class 30
<b>IMPELLER: Design</b> .....	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
<b>SHAFT</b> .....	416 Stainless Steel
<b>SQUARE RINGS</b> .....	Buna-N
<b>HARDWARE</b> .....	300 Series Stainless Steel
<b>PAINT</b> .....	Air Dry Enamel
<b>SEAL: Design</b> .....	Single Mechanical, Oil Filled reservoir Secondary Exclusion Seal
<i>Material</i> .....	Carbon/Ceramic/Buna-N
<b>CORD ENTRY</b> .....	15 ft. (5m) Quick Disconnect Cord with plug On 115 Volt, Pressure Grommet for sealing and strain relief
<b>UPPER BEARING</b> .....	Single Row, Ball, Oil Lubricated
<b>LOWER BEARING</b> .....	Single Row, Ball, Oil Lubricated
<b>MOTOR: Design</b> .....	NEMA L Torque curve, Oil Filled, Squirrel cage Induction
<i>Insulation</i> .....	Class B
<b>SINGLE PHASE</b> .....	Permanent Split Capacitor (PSC). Includes thermal overload protection in motor
<b>OPTIONAL EQUIPMENT</b> .....	Seal Material, Additional cord and Cast Iron Impeller

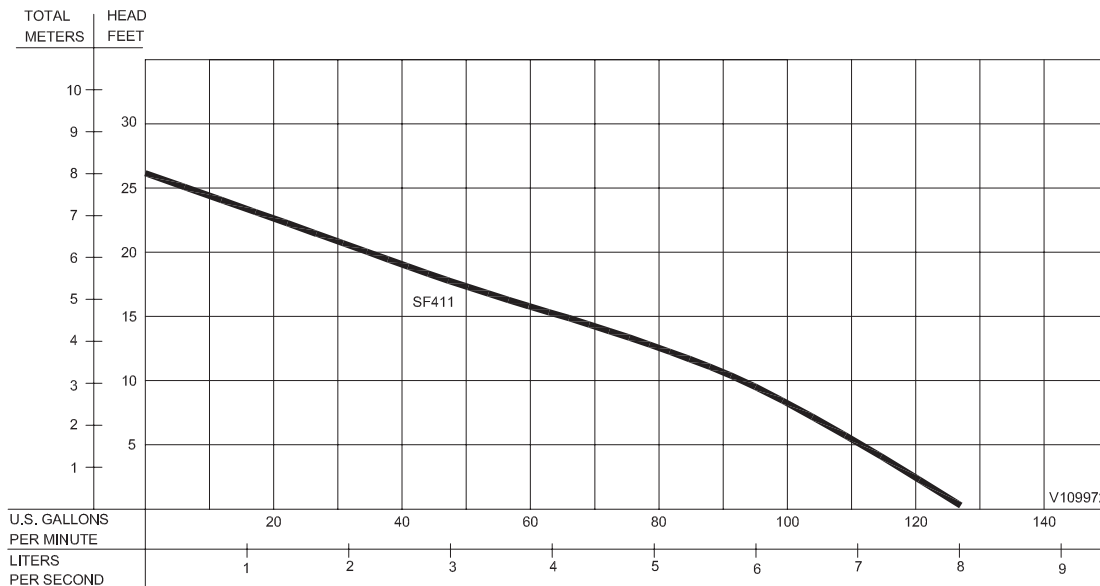


Series: SF  
.4HP, 1750RPM, 60Hz



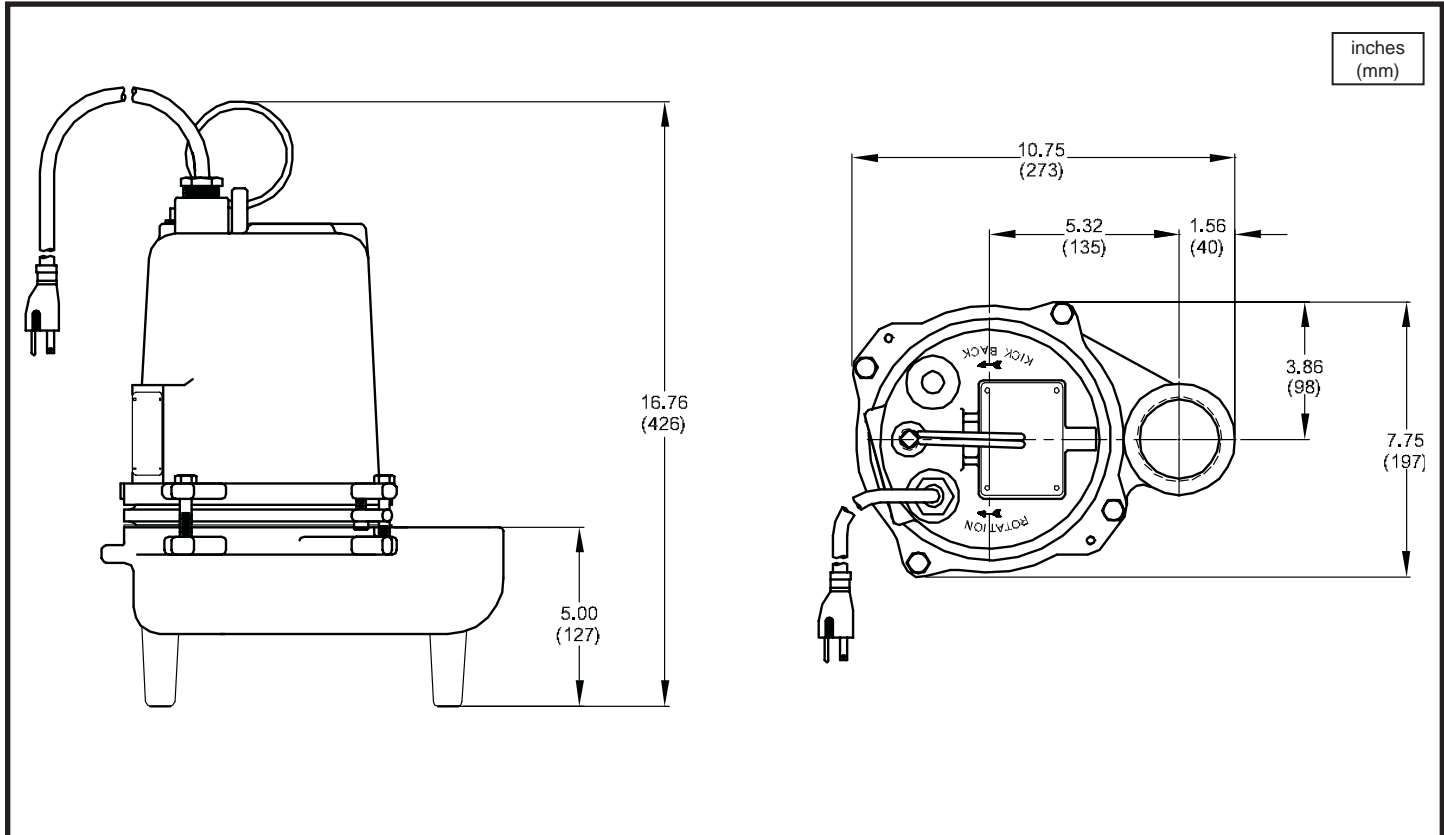
**DESCRIPTION:**

THESE PUMP ARE SPECIALLY DESIGNED FOR USE IN  
DRAMATIC, DECORATIVE WATER DISPLAYS



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

**Submersible Fountain 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)
SF411	109972	0.4	115/1	60	1750	C	12.0	19.0	14/3	SJTOW	0.375 (9.5)

**IMPORTANT !**

- DO NOT USE TO PUMP FLAMMABLE LIQUIDS.**
- 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 Fountain Pumps

**DISCHARGE:**

SF Series .....2" NPT, Female, Vertical, Bolt-on Flange  
 3SF Series.....3" NPT, Female, Vertical, Bolt-on Flange

**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** ..... 2 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** ..... Silicon/Silicon/Buna-N  
 Hardware -300 Series Stainless

**CORD ENTRY** ..... 15 ft. (5m) Cord with plug on 120 Volt Quick Connect, Custom Molded for sealing and strain relief

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

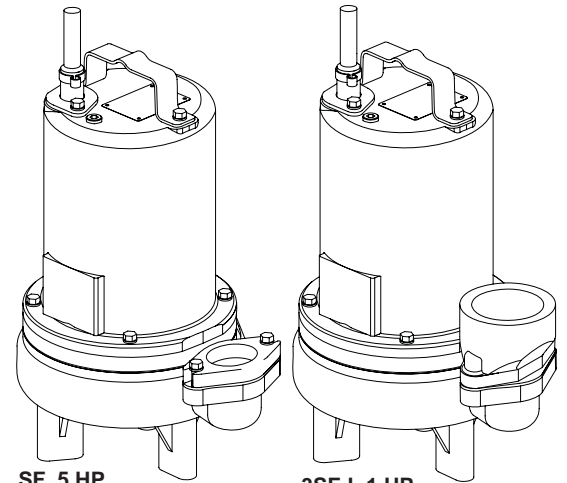
**LOWER BEARING**..... Single Row, Ball, Oil Lubricated

**MOTOR: Design** ..... NEMA L Torque curve, Oil Filled, Squirrel cage Induction

**Insulation**..... Class B

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

**OPTIONAL EQUIPMENT**..... Seal Material, Additional cord and Impeller trims



SF .5 HP

3SF-L 1 HP

**Series:**

SF - .5HP, 1750RPM, 60Hz

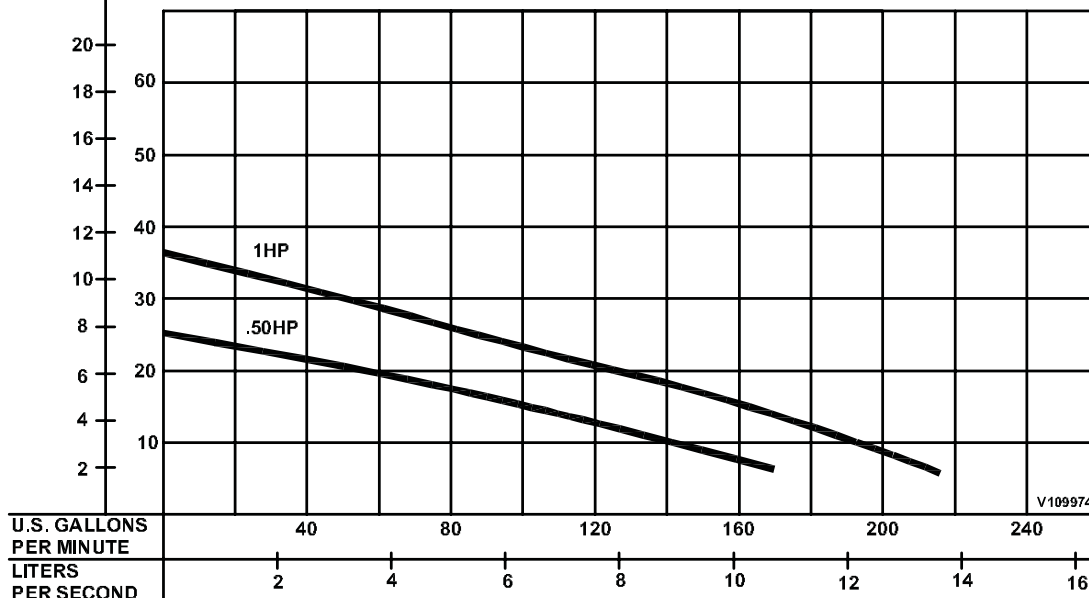
3SF-L - 1HP, 1750RPM, 60Hz



**DESCRIPTION:**

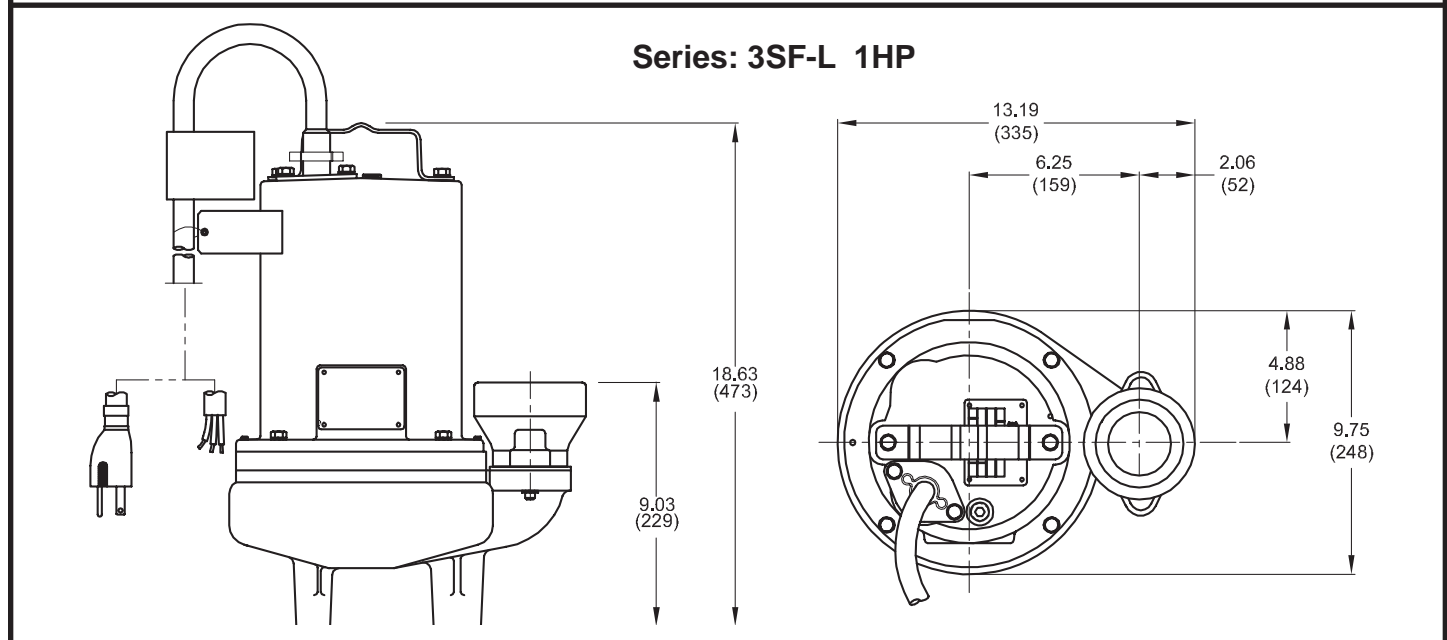
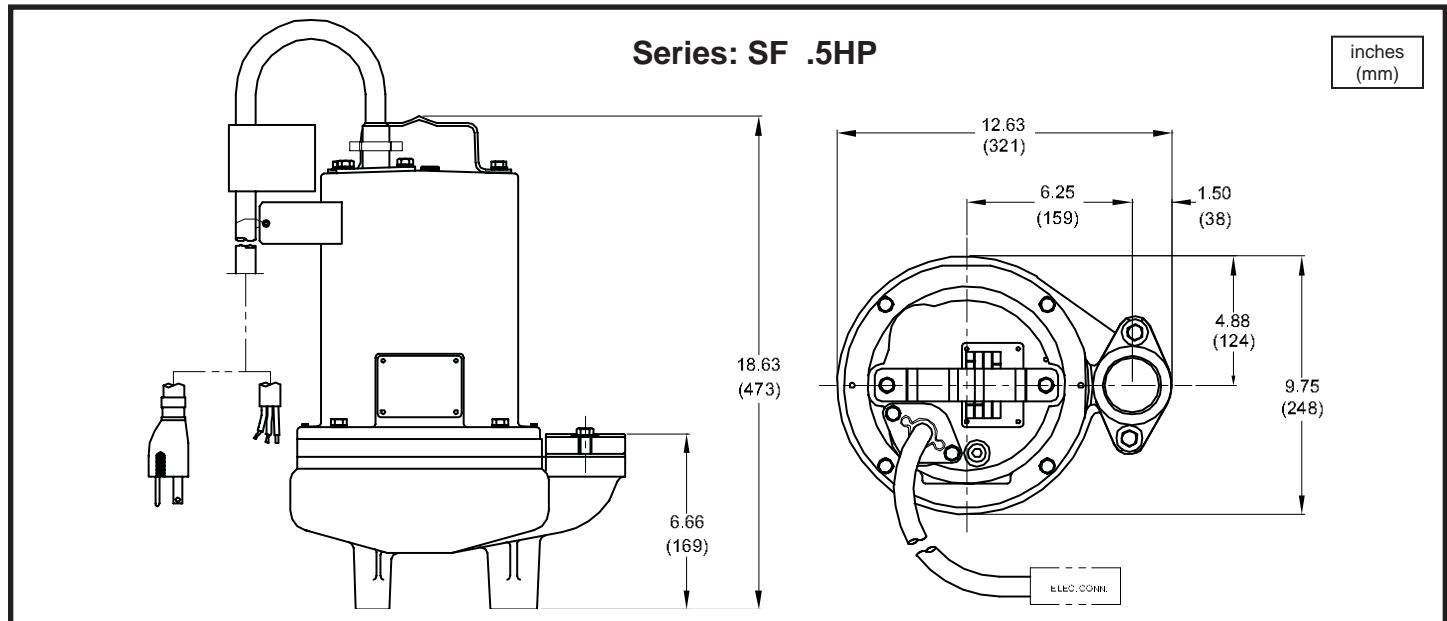
THESE PUMPS ARE SPECIALLY DESIGNED FOR USE IN DRAMATIC, DECORATIVE WATER DISPLAYS

**TOTAL HEAD METERS** | **HEAD FEET**



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

**Submersible Fountain Pumps**



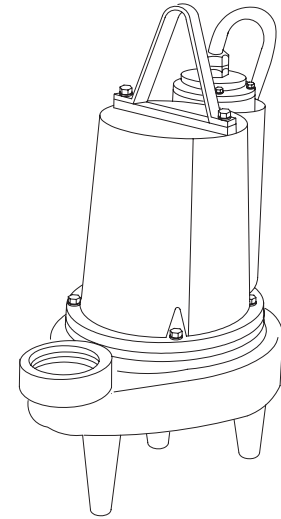
MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D. inch (mm)
SF51	109974	0.5	120/1	60	1750	F	11.6	21.3	14/3	SJTOW	0.375 (9.5)
3SF1074L	109975	1.0	200-240/1	60	1750	D/G	8.8/8.3	21.5/25.8	14/3	SOW	0.530 (13.5)

**IMPORTANT !**

- 1.) **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.**
- 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 Fountain Pumps

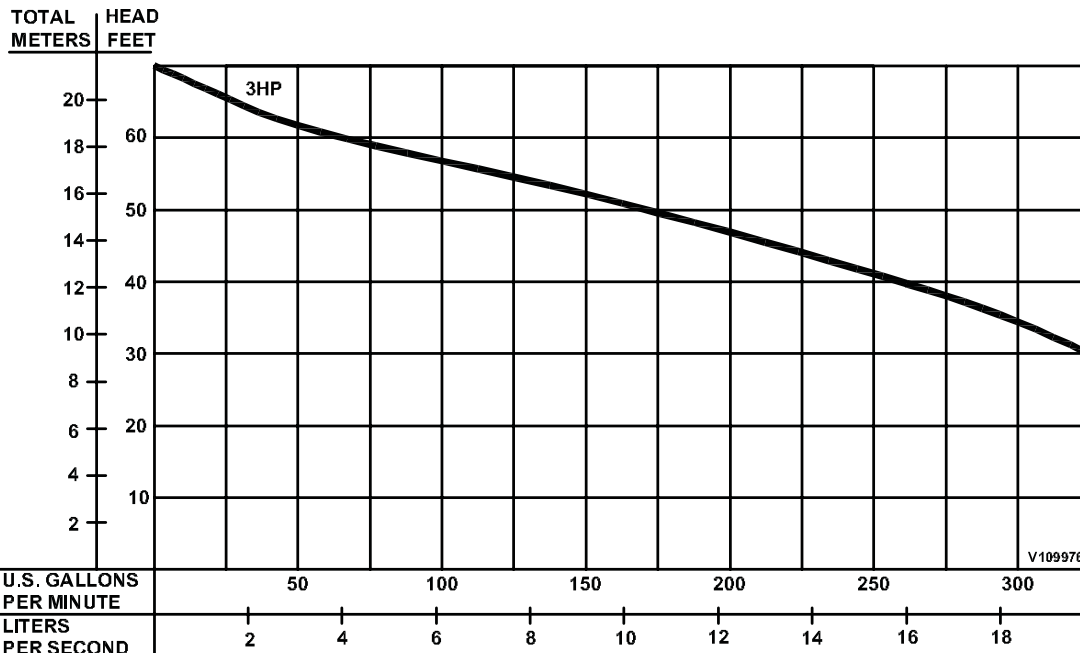
<b>DISCHARGE</b> .....	3" NPT, Female, Vertical
<b>LIQUID TEMPERATURE</b> .....	104°F (40°C) Continuous
<b>VOLUTE</b> .....	Cast Iron ASTM A-48, Class 30
<b>MOTOR HOUSING</b> .....	Cast Iron ASTM A-48, Class 30
<b>SEAL PLATE</b> .....	Cast Iron ASTM A-48, Class 30
<b>IMPELLER: Design</b> .....	2 Vane open, with pump out vanes on back side. Dynamically balanced, ISO G6.3
<i>Material</i> .....	Cast Iron ASTM A-48, Class 30
<b>SHAFT</b> .....	416 Stainless Steel
<b>SQUARE RINGS</b> .....	Buna-N
<b>HARDWARE</b> .....	300 Series Stainless Steel
<b>PAINT</b> .....	Air Dry Enamel
<b>SEAL: Design</b> .....	Single Mechanical
<i>Material</i> .....	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
<b>CORD ENTRY</b> .....	25 ft. (7.6m) Cord Pressure Grommet for sealing and strain relief
<b>UPPER BEARING</b> .....	Single Row, Ball, Oil Lubricated
<b>LOWER BEARING</b> .....	Single Row, Ball, Oil Lubricated
<b>MOTOR: Design</b> .....	NEMA L Torque curve, Oil Filled, Squirrel cage Induction
<i>Insulation</i> .....	Class B
<b>SINGLE PHASE</b> .....	Permanent Split Capacitor (PSC). Includes thermal overload protection in motor
<b>OPTIONAL EQUIPMENT</b> .....	Seal Material, Additional cord and Impeller trims



Series: 3SF-L  
3.0HP, 1750RPM, 60Hz

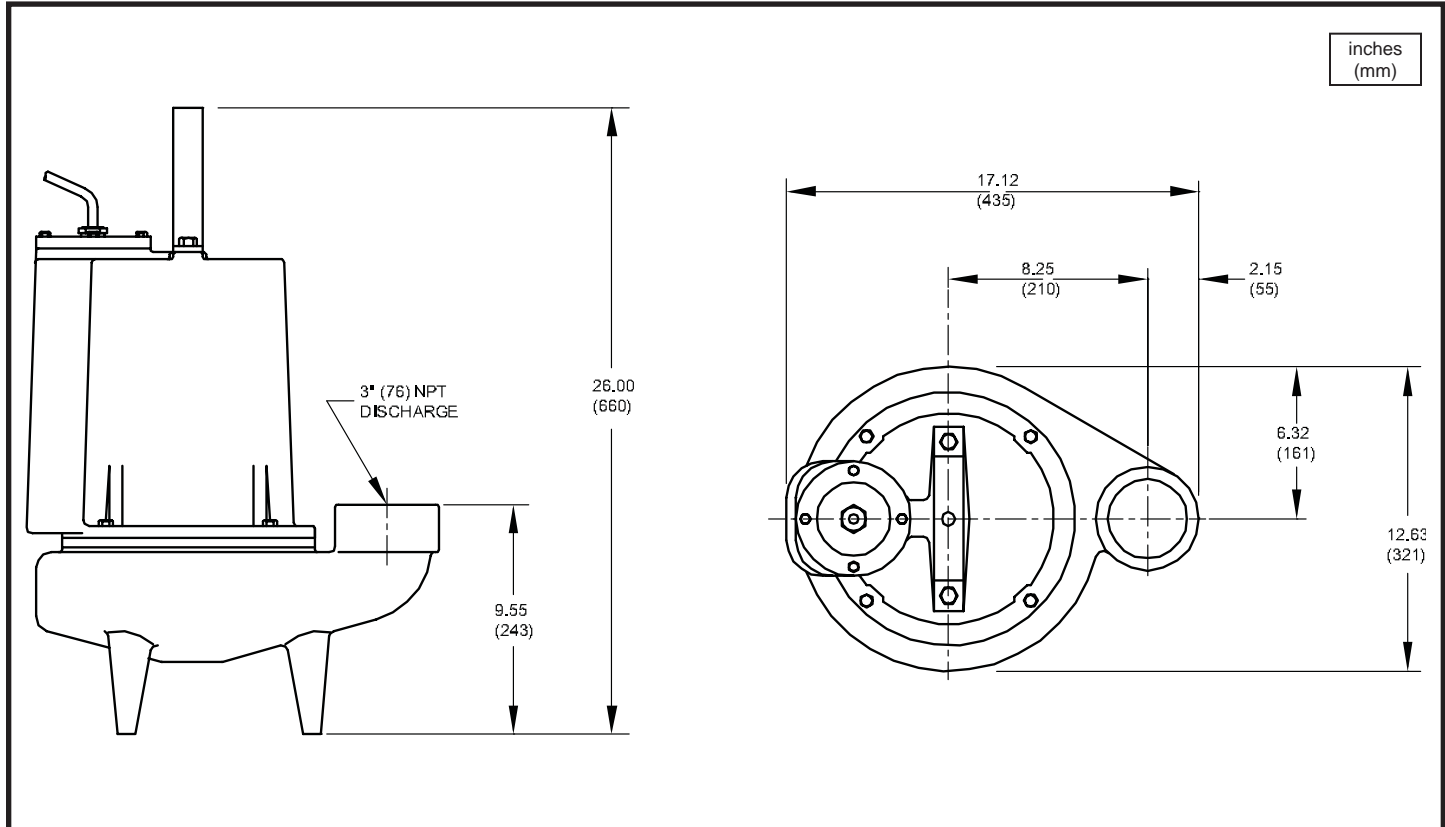


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THESE PUMP ARE SPECIALLY DESIGNED FOR USE IN  
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Testing is performed with water specific gravity of 1.0 @ 68°F (20°C), other fluids may vary performance

**Submersible Fountain Pumps**



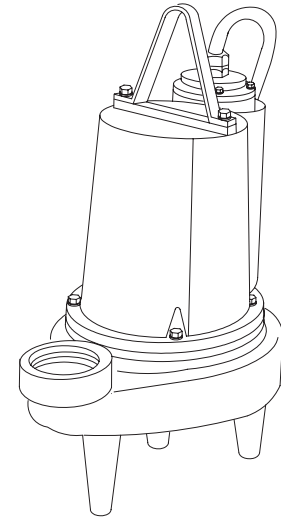
MODEL NO	PART NO	HP	VOLT/PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	LOCKED ROTOR AMPS	CORD SIZE	CORD TYPE	CORD O.D. inch (mm)
3SF3024L	109977	3.0	230/1	60	1750	A	28.0	59.0	10/3	SO	0.690 (17.5)

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## Submersible Fountain Pumps

<b>DISCHARGE</b> .....	3" NPT, Female, Vertical
<b>LIQUID TEMPERATURE</b> .....	104°F (40°C) Continuous
<b>VOLUTE</b> .....	Cast Iron ASTM A-48, Class 30
<b>MOTOR HOUSING</b> .....	Cast Iron ASTM A-48, Class 30
<b>SEAL PLATE</b> .....	Cast Iron ASTM A-48, Class 30
<b>IMPELLER: Design</b> .....	2 Vane open, with pump out vanes on back side. Dynamically balanced, ISO G6.3
<b>Material</b> .....	Cast Iron ASTM A-48, Class 30
<b>SHAFT</b> .....	416 Stainless Steel
<b>SQUARE RINGS</b> .....	Buna-N
<b>HARDWARE</b> .....	300 Series Stainless Steel
<b>PAINT</b> .....	Air Dry Enamel
<b>SEAL: Design</b> .....	Inboard Single Mechanical, Oil Filled reservoir
<b>Material</b> .....	Carbon/Ceramic/Buna-N
	Hardware -300 Series Stainless
<b>CORD ENTRY</b> .....	25 ft. (7.6m) Cord Pressure Grommet for sealing and strain relief
<b>UPPER BEARING</b> .....	Single Row, Ball, Oil Lubricated
<b>LOWER BEARING</b> .....	Single Row, Ball, Oil Lubricated
<b>MOTOR: Design</b> .....	NEMA L Torque curve, Oil Filled, Squirrel cage Induction
<b>Insulation</b> .....	Class B
<b>SINGLE PHASE</b> .....	Permanent Split Capacitor (PSC). Includes thermal overload protection in motor
<b>OPTIONAL EQUIPMENT</b> .....	Seal Material, Additional cord and Impeller trims



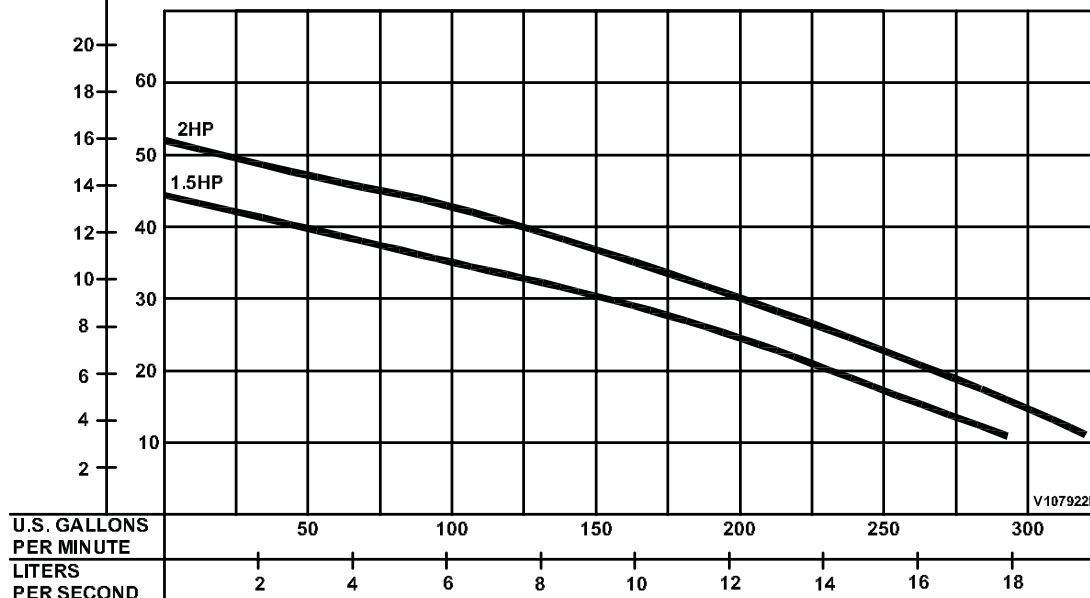
Series: 3SF-HD (Heavy Duty)  
1.5 & 2HP, 1750RPM, 60Hz



**DESCRIPTION:**

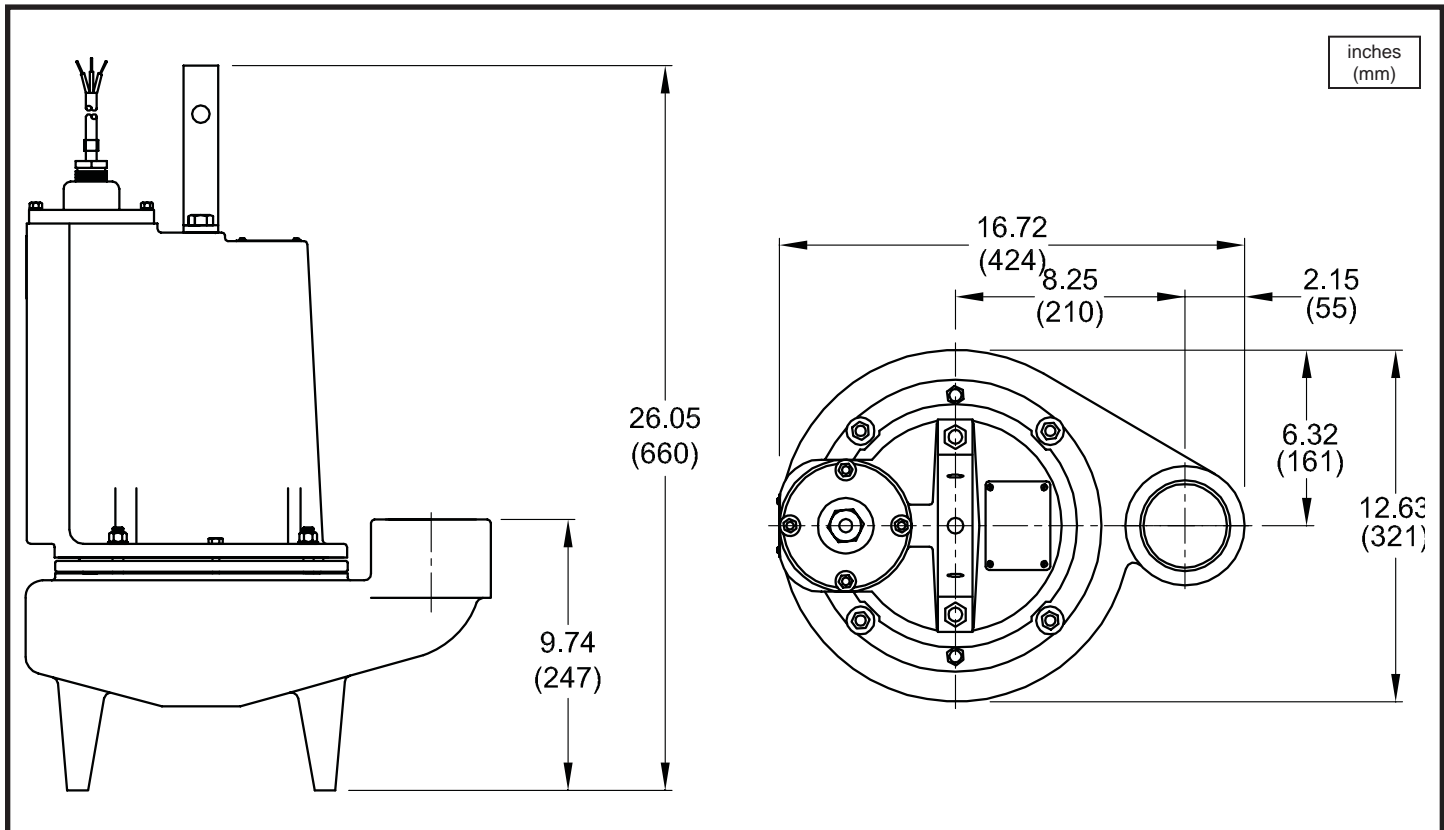
THESE PUMP ARE SPECIALLY DESIGNED FOR USE IN DRAMATIC, DECORATIVE WATER DISPLAYS

**TOTAL HEAD**  
**METERS FEET**



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**Submersible Fountain 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)
3SF1524HD	110952	1.5	230/1	60	1750	B	12.6	23.0	10/3	SO	0.690 (17.5)
3SF2024HD	110953	2.0	230/1	60	1750	B	14.5	29.0	10/3	SO	0.690 (17.5)

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