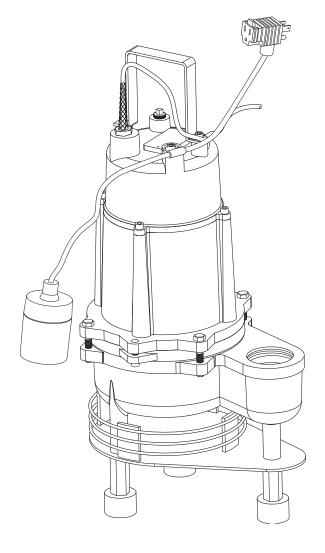
INSTALLATION, SERVICE & PARTS MANUAL



Series: PFS411HTCE-2

0.4 HP • 1750 RPM • 60 Hz Submersible Effluent, Sump & Sewage Pump High Temperature



877-24PUMPS • www.powerflopumps.com

General Safety Information

Before installation, read the following instructions carefully. Failure to follow instruction and Safety information could cause serious bodily injury, death and/or property damage. Each Power-Flo pump is individually factory tested to insure proper performance. Closely following these instructions will eliminate potential operating problems, assuring years of trouble-free service.

"Danger" indicates an imminenty

hazardous situation which, if not avoided, WILL result in death or serious injury.



"Warning" indicates an imminenty hazardous situation which, if not avoided, MAY result in death or serious injury.

"Caution" indicates an potentially hazardous situation which, if not avoided,

MAY result in minor or moderate injury.

IMPORTANT - Power-Flo Pumps and Systems is not responsible for losses, injury or death resulting from failure to observe these safety precautions, misuse, abuse or misapplication of pumps or equipment.



ALL RETURNED PRODUCTS MUST BE CLEANED, SANITIZED, **OR RECONTAMINATED PRIOR TO SHIPMENT, TO**

INSURE EMPLOYEES WILL NOT BE EXPOSED TO HEALTH HAZARDS IN HANDLING SAID MATERIAL. ALL APPLICABLE LAWS AND **REGULATIONS SHALL APPLY.**



Installation, wiring, and junction connections must be in accordance with the National Electric Code and all applicable

state and local codes. Requirements may vary depending on usage and location.

a Power-Flo Technologies company



Installation and servicing is to be

conducted by qualified personnel only.



Keep clear of suction and discharge openings. Do not insert fingers in

Always wear eye **A**WARNING

protection when working on pumps. Do not wear loose clothing that may become entangled in moving parts



Pumps build up heat and pressure during operation. Allow time for pumps to cool before handling or servicing.



This pump is **not** intended for use in swimming pools or water installations where human

contact with pumped fluid. Pumps when used as a decorative water fountain pump **MUST** be used in circuit protected by a Ground Fault Interrupter.



Risk of electric shock. To reduce risk of electric shock, always disconnect pump from power source before handling. Lock out power & tag.

Do not us these **WARNING** pumps in water

over 200°F. Do not exceed manufactures recommended maximum performance, as this could cause the motor to overheat.



Do not lift, carry or DANGER hang pump by the electrical cables. Damage to the electrical cables can cause shock, burnes or death. **Never** handle

connected power cords with wet hands. Use appropriate lifting device.

AWARNING Sump and sewage pumps often handle materials which could cause illness or disease. wear adequate protective clothing when working on a used pump or piping. Never enter a basin after it has been used.



Failure to permanently DANGER ground the pump, motor and controls before connecting to power can cause shock, burns or death.



These pumps are **NOT** to be installed in locations classified as hazardous in accordance with the National Electric Code, ANSI/NFPA 70.

The Uniform Plumbing A CAUTION Code (UPC) states that sewage systems shall have an audio and visual alarm that signals a malfunction of the systems that is required to reduce the potential for property damage.

WARNING:



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

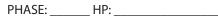
IMPORTANT!

Prior to installation, record Model Number, MFG Date, Amps, Voltage, Phase and HP, from pump name plate for future reference. Also record the Voltage and **Current Readings at Startup:**

1 Phase Models			
Amps:		Volts:	

Model Number:





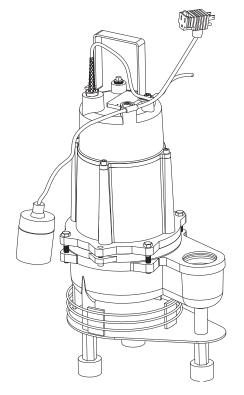
POWER-FLO Pumps & Systems			
Model Nu	umber PFS411HTCE		
Serial #			
MFG Date	e		
Voltage	115v Phase 1.0		
60 Hz	HP 4/10		
877-24 PUMPS www.powerflopumps.com			

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Submersible Effluent, Sump & Sewage Pumps

Specifications - High Temp



Series: PFS411HTCE-2

4/10 HP • 1750 RPM • 60 Hz High Temperature Submersible Sewage Pump

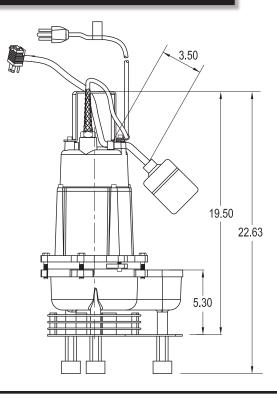
DISCHARGE	2" NPT, Female, Vertical	
LIQUID TEMPERATURE	200°F (93°C) Continuous High Temperature	
SOLIDS HANDLING	1/2" Solids through strainer. 2" without strainer	
VOLUTE	Cast Iron, Class 30	
MOTOR HOUSING	Cast Iron, Class 30, w/removable upper chamber for ease of capacitor and cord replacement	
IMPELLER	2 Vane, open with pump out vanes on back side Material: Cast Iron, Class 30	
SHAFT	Stainless Steel	
SEAL PLATE	Cast Iron, Class 30	
SQUARE RINGS	Buna-N	
HARDWARE	Stainless Steel	
PAINT	Powder Coated - Industrial Grade	
SEAL	Inboard Single Mechanical, Oil Filled , Material: Type 21, Silicon Carbide/Buna-N Secondary Exclusion Seal	
POWER CORD	15 Ft. Cord, Plug on 115 Volt, Pressure Grommet for Sealing and Strain Relief	
MOTOR	Oil Filled, Squirrel Cage Induction Class H Insulation, Vacuum Pressure Impregnated (VPI)	
SINGLE PHASE	Permanent Split Capacitor (PSC), Includes Overload Protection in Motor: 115v, 50A, Trip Off Temp. 293°F (145°C), Closing Temp. 226°F (108°C)	
UPPER BEARING	Single Row, Ball, Oil Lubricated	
LOWER BEARING	Single Row, Ball, Oil Lubricated	
SLUDGE STRAINER	Bar Strainer with 3" extended feet	
LEVEL CONTROL	Wide Angel, High Temperature Mechanical Float. 15Ft. cord with piggy-back plug. Normally Open (N/O)	

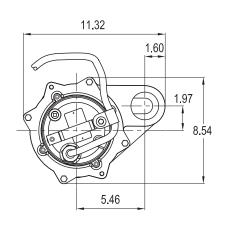
MODEL	HP	Hz	Volts/ Ph	RPM	Full Load Amps	Locked Rotor Amps		Winding Resistance MAIN START	Cord Type	Cord Size	Cord O.D.
PFS411HTCE-2	4/10	60	115/1	1750	10.0	24.5	N	1.6 18.5	SJOOW	16/3	0.325

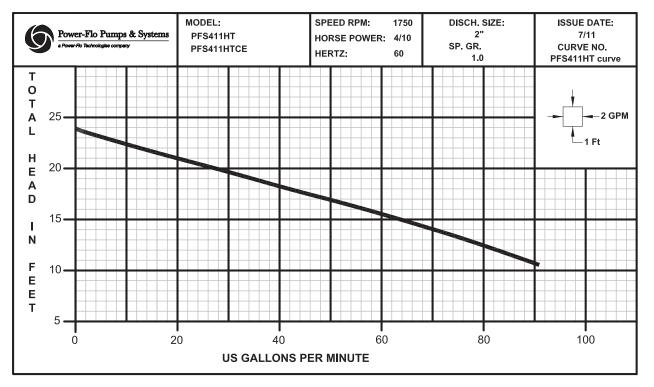


Power-Flo Pumps & Systems

Dimensions & Performance - High Temp









Receiving Inspection

Upon receiving the pump, it should be inspected for damage or shortages. If damage has occurred, file a claim immediately with the company that delivered the pump. If the manual is removed from the packaging, do not lose or misplace.

Storage

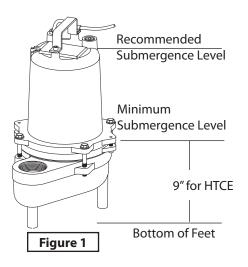
Any product that is stored for a period longer than six (6) months from the date of purchase should be bench tested prior to installation. A bench test consists of, checking the impeller to assure it is free turning and a run test to assure the motor (and switch if provided) operate properly. Do not pump out of liquid.

Controls

Manual models require a separate approved pump control device or panel for automatic operation. Be sure the electrical specification of the control selected properly match the electrical specifications of the pump.

Submergence

The pump should always be operated in the submerged condition. The minimum sump liquid level should never be less than above the pump's volute (See Figure 1).



Liquid Level Controls Typical Discharge Pipe Mounted:

Refer to Figure 2 below which shows a typical installation of a 1 phase 115 volt pump using a level control mounted to the pump with a piggy-back plug. The level control should have adequate clearance so it cannot hang up in it's swing and that the pump is completely submerged when the level control is in the "Off" mode. By adjusting the cord tether the control level can be changed.

Typical Installation with Wide Angle Level Control

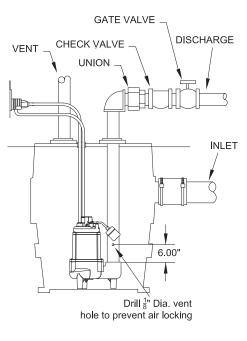
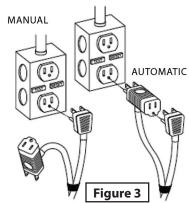


Figure 2

Receiving & Installation



 Automatic:
 Plug float cord into GFI outlet, then plug pump cord into float cord.

 Manual:
 Plug pump cord directly into GFI outlet.

Level Control Basic Instructions:

Plug the level control plug into the GFI receptacle, then plug the pump into the piggy-back plug (See Figure 3). One cycle of operation should be observed, so that any potential problems can be corrected.

It is recommended that the level control float should be set to insure that the liquid in the sump never drops below the top of the motor housing or a minimum level of 6 inches (9 inches on HTCE) above the basin floor.

Installation

These pumps are recommended for use in a sump or basin. The sump or basin shall be sealed and vented in accordance with local plumbing codes. This pump is designed to pump effluent or wastewater, nonexplosive and noncorrosive liquids and shall NOT be installed in locations classified as hazardous in accordance with the National Electrical Code (NEC) ANSI/ NFPA 70 or Canadian Electric Code (CEC). The pump should never be installed in a trench, ditch, or hole with a dirt bottom. The legs will sink into the dirt and the suction will become plugged.



Power-Flo Pumps & Systems

Installation & Service

The installation should be at a sufficient depth to ensure that all plumbing is below the frost line. If this is not feasible, remove the check valve and size the basin to accommodate the additional backflow volume.

Discharge Piping

Discharge piping should be as short as possible and sized no smaller than the pump discharge. **Do not reduce the discharge pipe size below that which is provided on the pump.** Both a check valve and a shut-off valve are recommended for each pump. The check valve is used to prevent backflow into the sump. The shut-off valve is used to manually stop system flow during pump servicing.

Electrical Connections Power cable:

The power cable mounted to the pump must not be modified in any way except for shortening to a specific application. Any splice between the pump and the control panel must be made in accordance with the electric codes. It is recommended that a junction box, if used, be mounted outside the sump or be of at a minimum Nema 4 construction if located within the wet well. **DO NOT USE THE POWER CABLE TO LIFT PUMP.**

Always rely upon a Certified Electrician for installation.

Overload Protection:

Single Phase - The stator in-winding overload protector used is referred to as an inherent overheating protector and operates on the combined effect of temperature and current.

Power-Flo Technologies company

This means that the overload protector will trip out and shut the pump off if the windings become too hot, or the load current passing through them becomes too high.

IMPORTANT ! - The overload will then automatically reset and start the pump up after the motor cools to a safe temperature. In the event of an overload, the source of this condition should be determined and corrected immediately.

WARNING! - DO NOT LET THE PUMP CYCLE OR RUN IF AN OVERLOAD CONDITION OCCURS !

Wire Size:

If longer power cable is required consult a qualified electrician for proper wire size.

Pre-Operation

- 1. Check Voltage and Phase Compare the voltage and phase information stamped on the pump name plate.
- Check Pump Rotation Improper motor rotation can result in poor pump performance and can damage the motor and/or pump. Incorrect rotation for Single-Phase pumps is unlikely. If the rotation is incorrect contact factory.
- 3. **Name Plate** Record the information from the pump name plate to drawing in front of manual for future reference.

- 4. **Insulation Test** An insulation (megger) test should be performed on the motor. Before the pump is put into service. The resistance values (ohms) as well as the voltage (volts) and current (amps) should be recorded.
- 5. **Pump-Down Test** Be sure pump has been properly wired, lowered into the basin, sump or lift station, check the system by filling with liquid and allowing the pump to operate through its pumping cycle. The time needed to empty the system, or pump-down time along with the volume of water, should be recorded.

Maintenance

No lubrication or maintenance is required. Perform the following checks when pump is removed from operation or when pump performance deteriorates:

- a). Inspect motor chamber for oil level and contamination.
- b). Inspect impeller and body for excessive build-up or clogging.
- c). Inspect motor and bearings.
- d). Inspect seal for wear or leakage.

Servicing

NOTE: Item numbers in () refer to Figure 5.

Cooling Oil - Anytime the pump is removed from operation, the cooling oil in the motor housing should be checked visually for oil level and contamination. To check oil, set unit upright. Remove pipe plug from housing or remove capscrews (21), washers (22) and remove upper motor housing (17), do not damage o-ring (9). With a flashlight, visually inspect the oil in the housing to make sure it is clean and clear, light amber in color and free from suspended particles. Milky white oil indicates the presence of water. Oil level should be just above the motor when pump is in vertical position.



Oil Testing

- Drain oil into a clean, dry container by placing pump on it's side, remove pipe plug, from housing.
- Check oil for contamination using an oil tester with a range to 30 Kilovolts breakdown.
- If oil is found to be clean and uncontaminated (measuring above 15 KV. breakdown), refill the housing.
- If oil is found to be dirty or contaminated (or measures below 15 KV. breakdown), the pump must be carefully inspected for leaks at the shaft seal, cable assembly, square ring, o-ring and pipe plug, before refilling with oil. To locate the leak, perform a pressure test.

After leak is repaired, dispose of old oil properly, and refill with new oil.

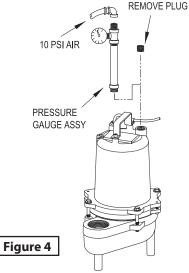
Pressure Test (If oil has been drained)

Remove pipe plug from housing. Apply pipe sealant to pressure gauge assembly and tighten into hole. Pressurize motor housing to 10 P.S.I. Use soap solution around the sealed areas and inspect joints for "air bubbles".

If, after five minutes, the pressure is still holding constant, and no "bubbles" are observed, slowly bleed the pressure and remove the gauge assembly. Replace oil. Leek must be located and repaired if pressure does not hold.

Pressure Test (If oil has NOT been

drained) - Oil should be at normal level. Remove pipe plug from housing. Apply pipe sealant to pressure gauge assembly and tighten into hole. Pressurize motor housing to 10 P.S.I. Use soap solution around the sealed areas above the oil level and inspect joints for "air bubbles". For sealed areas below oil level, leeks will seep oil. If, after five minutes, the pressure is still holding constant, and no "bubbles" /oil seepage is observed, slowly bleed the pressure and remove the gauge assembly. Replace oil. Leek must be located and repaired if pressure does not hold.



Pressure builds up extremely fast, increase pressure by "TAPPING" air nozzle. Too much pressure will damage seal. **DO NOT exceed 10 P.S.I.**

Oil Replacement - Set unit upright and refill with new cooling oil as per table. Fill to just above motor, but below capacitor as an air space must remain in the top of the housing to compensate for oil expansion. Apply pipe thread compound to threads of pipe plug then assemble to housing.



DO NOT overfill oil. Overfilling of housing with oil can create excessive and dangerous hydraulic pressure which can destroy the pump and create a hazard. Overfilling oil voids warranty.

Service

Cooling Oil - 40.6 oz Recommended Supplier/Grade				
BP Enerpar SE100				
Conoco	Pale Paraffin 22			
Mobile	D.T.E. Oil Light			
Shell Canada	Transformer-10			
Техасо	Diala-Oil-AX			

Disassembly Impeller, V-ring and Volute: 1. Disconnect power.

2. Remove legs (33) and remove strainer (32).

3. Remove cap screw (27) and washers (28) vertically lift motor, housing and seal plate assembly from volute (1). Clean out volute (1) if necessary.

4. Inspect gasket (2) and replace if cut or damaged.

5. Clean and examine impeller (31), for cracks or breakage and replace if required. To remove impeller (31), place a flat screwdriver in the slot of the end of the shaft to hold the shaft stationary while unscrewing the impeller (31).

6. Check v-ring (29) and remove if damaged.

Power Cord & Motor:

7. Remove pipe plug (16) and drain oil from housing.

8. Remove gland nut (15E), from upper motor housing (17). Remove capscrews (21) and washers (22) and lift off upper motor housing (17) and o-ring (9). Pull cord through and disconnect the wires from the terminals on power cord (15).

9. Remove screws (4) and lift motor housing and motor from seal plate (8).



Power-Flo Pumps & Systems

Service

10. Remove o-ring (3), replace if damaged,

11. Check motor capacitor (11) with an Ohm meter by first grounding the capacitor by placing a screwdriver across both terminals and then removing screwdriver. Connect Ohm meter (set on high scale) to terminals. If needle moves to infinity (∞) then drifts back, the capacitor is good. If needle does not move or moves to infinity (∞) and does not drift back, replace capacitor (11).

12. Inspect motor winding for shorts and check resistance values. Check rotor for wear. If rotor or the stator windings are defective, the complete motor must be replaced.

Shaft Seal:

13. Remove snap ring (6) from seal plate (8). Remove shaft and motor from seal plate (8).

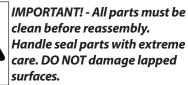
14. Remove seal's (26) rotating member, spring and retaining ring from seal plate (8). Examine all seal parts, if seal faces show signs of wear, uneven wear pattern, chips or scratches replace entire seal. **DO NOT interchange seal components, replace the entire shaft seal (26).** If replacing seal, remove stationary by prying out with flat screwdrive.

Bearings:

15. Examine lower bearing (5), and upper bearing (23), if replacement is required, remove by using a wheel puller.

Reassembly Bearings:

1. Press bearings (5) and (23) onto shaft.



Shaft Seal:

2. Clean seal cavity in seal plate (34) and oil. Press seal's (26) stationary member firmly into seal plate (8), use a seal tool or pipe. Nothing should come in contact with the seal face except the seal tool. Be sure the stationary is in straight.

3. Place seal's retaining ring onto shaft. Lightly oil (**Do not use grease**) shaft and inner surface of bellows.

4. With lapped surface of seal's rotating member facing outward, slide over shaft using a seal tool, being carefull not to damage seal face. Make sure spring is seated in retaining ring and spring is lined up on rotating member and not cocked or resting on bellows tail.

Motor:

5. Slide rotor/shaft with bearings and seal parts (26) into seal plate (8) until bearing seats into seal plate. Install snap ring (6) into seal plate (8).

6. Place spring washer (24) onto bearing (23) and lower motor housing (25) with motor stator onto seal plate (8).

7. Place screws (4) through seal plate (8) into housing (25) **and torque to 10 Ft-lbs.**

8. Assemble capacitor (11) with bracket (10) onto motor housing (25). Place o-ring (9) on motor housing (25).

Power Cord:

9. Check power cord (15) for cracks or damage and replace if required.

10. Place power cord (15) with nylon housing (15D), ring (15C), Kellum grip (15F) and gland nut (15E) into upper housing (17) and reconect wires to cord set. 11. Set upper motor housing (17) onto motor housing (25) being careful not to damage o-ring (9). Place capscrews (21) and washer (22) through upper housing (17) into motor housing (25) and tighten.

12. Tighten gland nut (15E) to 17.5 ft/lbs.

Impeller, V-ring and Volute:

13. Position v-ring (29) into seal plate (8) until seated.

14. Clean the threads with thread locking compound cleaner. Apply removable Loctite[®] 242 or equivalent to shaft threads. Screw impeller (31) onto the shaft hand tight while using a screwdriver in the slot at the end of the shaft to hold it stationary. Rotate impeller to check for binding.

15. Position gasket (2) on volute flange and position impeller and motor housing assembly on volute (1).

16. Place lock washers (28) on cap screws (27) and screw into volute (1). Torque to 25 ft/lbs. Check for free rotation of impeller.

17. Re-attach strainer (32) and legs (33).

18. Refill with cooling oil. 40.6 oz (1.2 liters)

Float Switch:

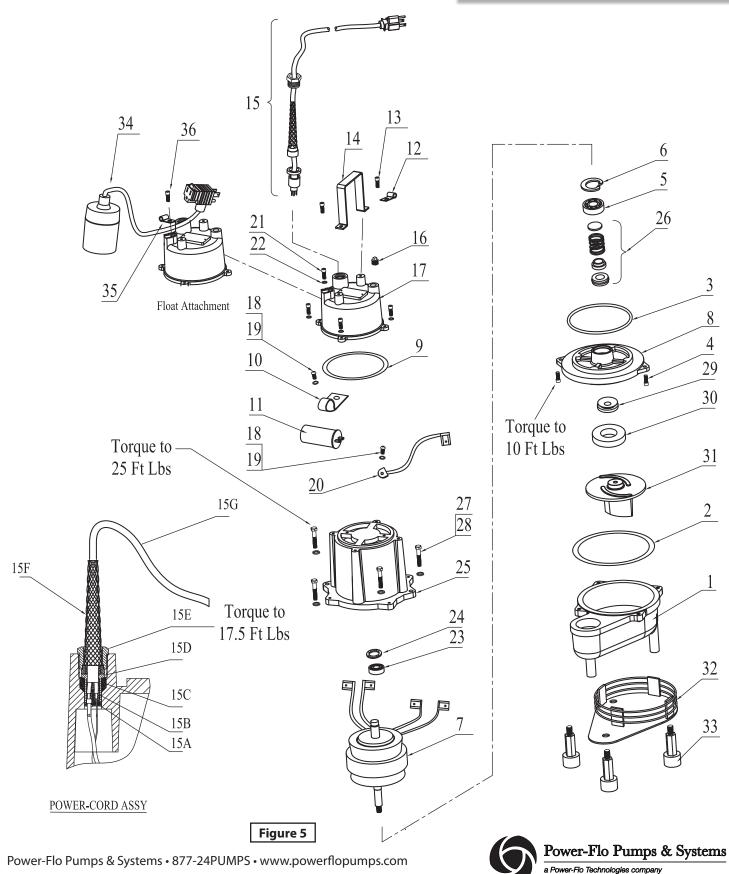
19. Attach float (34) to upper motor housing (17) with cable clamp (35) and screw (36). Leave a minimum tether of 3.50 inches from cable clamp to end of float. (see Fig. 5 on page 9 and also page 4)



Submersible Effluent, Sump & Sewage Pumps

For Repair Part Please supply: Model Number and MFG Date as shown on Name Plate, and Part Description and Part Number as shown on Parts List.

Repair Parts



jies company

Submersible Effluent, Sump & Sewage Pumps

Repair Parts

For Repair Part Please supply: Model Number and MFG Date as shown on Name Plate, and Part Description and Part Number as shown on Parts List.

DESCRIPTION	Part No.		
	PF068984A		
ing	PF019289A		
tainless - Torque to 10 Ft-Lbs			
6203 - Lower			
ng			
otor/stator)			
te			
or bracket			
or, 20 mfd/250V			
mp			
·			
ord 15 Ft. 16/3c SJOOW (includes 15A - 15G	PF100502K		
l Pin Holder			
Ring Nylon/GF Housing			
Nut - Torque to 17.5 Ft-Lbs			
Kellum Grip Cable			
Cord			
1otor Housing			
W			
sher			
Ground wire			
W			
sher			
6202 - Upper	PF17415		
Vasher			
ousing			
ical Seal	PF068988SK		
w - Torque to 25 Ft-Lbs			
sher			
	PF068053A		
Seal	PF63PFS4103		
	PF089369TG		
	5000005		
ical Float, High Temp., 15 Ft.	PF059-3640		
•			
	amp w		



Submersible Effluent, Sump & Sewage Pumps

Trouble Shooting Chart

Risk of electric shock. Always disconnect the pump from the power source before handling inspections or repair					
Symptom	Possible Cause(s)	Corrective Action			
	Blown fuse or other interruption of power; improper voltage.	Check that the unit is securely plugged in. Have an electrican check all wiring for proper connections and adequate voltage and capacity.			
Pump will not run	Switch is unable to move to the "turn ON" position due to interference with the side of basin or other obstruction	Position the pump or switch so that it has adequate clearance for free operation.			
	Insufficient liquid level	Make sure the liquid level is allowed to rise enough to activate level control(s).			
	Defective level control	Remove and replace level controls			
	Discharge is blocked or restricted	Check the discharge line for foreign material, including ice if discharge line passes through or into cold areas			
	Check valve is stuck closed or installed backwards	Remove check valve(s) and examine for freedom of operation and proper installation			
	Gate or ball valve is closed	Open gate or ball valve			
Pump will not turn off	Total lift is beyond pump's capability	Try to route piping to a lower level. If not possible, a larger pump may be required. Consult the factory			
	Pump impeller is jammed or volute casing is pluged	Disconnect unit electrically. Remove the pump from the basin. Detach the pump base and clean the area around the impeller. Rotate impeller by hand. Reassemble and reinstall			
Pump will not turn off	Level control(s) unable to move to the "turn OFF" position due to interference with the side of basin or other obstacle	Posistion the pump or level control so that it has adequate clearance for free operation			
	Defective level control	Remove and replace level control			
	Check valve is stuck open or is leaking	Remove check valve(s) and examine for freedom of operation and proper installation			
Pump runs periodically when fixtures are not in use	Fixtures are leaking	Repair fixtures as required to eliminate leakage			
	Debris in the impeller cavity	Remove the pump from the basin. Detach the pump base and clean the area around the impeller. Reassemble and reinstall			
Pump operates noisily	Damaged impeller	Consult the factory for information regarding replacement of impeller			
	Worn bearings	Return pump to the factory or authorized repair station for repair			
	Piping attachments to building are too rigid	Replace a portion of the discharge line with rubber hose or connector			
		•			

NOTE: Power-Flo Pumps & Systems assumes no responsibility for damage or injury due to disassembly in the field. Disassembly of the pumps or supplied accessories other than at Power-Flo Pumps & Systems or its authorized service centers, automatically voids warranty.



Power-Flo Pumps & Systems

LIMITED WARRANTY

Manufacturer warrants, to the immediate purchaser and subsequent initial owner during the warranty period, every new pump to be free from defects in material and workmanship under normal use and service, when properly used and maintained, for a period of eighteen (18) months from date of manufacture or twelve (12) months from date of installation (which ever comes first). Failure due to wear due to excessive abrasives is not covered. The initial owner is the purchaser who first uses the pump after its initial installation, or for non-permanent installation, the first owner who uses the pump. The date of installation shall be determined by a dated sales receipt noting the model and serial number of the pump. The dated sales receipt must accompany the returned pump. Product will be repaired, replaced or remanufactured at Manufacturer's option. No allowance will be made for shipping charges, damages, labor or other charges that may occur due to product failure, repair or replacement. This warranty does not apply to and there shall be no warranty for any material or product that has been disassembled without prior approval of Manufacturer, subjected to misuse, misapplication, neglect, alteration, accident or act of God; that has not been installed, operated or maintained in accordance with Manufacturer's installation instructions; that has been exposed to outside substances including but not limited to the following: sand, gravel, cement, mud, tar, hydrocarbons, hydrocarbon derivatives (oil, gasoline, solvents, etc.), or other abrasive or corrosive substances, wash towels or feminine sanitary products, etc. in all pumping applications. The warranty set out in the paragraph above is in lieu of all other warranties expressed or implied; and we do not authorize any representative or other person to assume for us any other liability in connection with our products. Contact Manufacturer at: 1-877-24PUMPS or www.powerflopumps.com, Attention: Customer Service Department, to obtain any needed repair or replacement of part(s) or additional information pertaining to our warranty.

MANUFACTURER EXPRESSLY DISCLAIMS LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES OR BREACH OF EXPRESSED OR IMPLIED WARRANTY; AND ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY.

Some states do not allow limitations on the duration of an implied warranty, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

