

LIMITED WARRANTY AND LIMITATION OF LIABILITY

This pump is warranted free from material and/or manufacturing defects for three years from date of purchase (five years on select cast iron pumps). As the sole and exclusive remedy for a breach of this limited warranty, if the product is found to be defective, it will be replaced with an equivalent product if it is returned to the place of purchase with proof of purchase. Any disassembly, modification, or abuse of this product voids this limited warranty. This product is not designed for pumping flammable or corrosive fluids, and use of this product to pump such materials also voids this limited warranty.

**ALL OTHER EXPRESS OR IMPLIED WARRANTIES,
INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED**

IMPORTANT NOTICE: Some commercial and residential insurance policies extend coverage for damages incurred by product failure. In most cases, you will need to have possession of the product to support your claim. In the case where you need to retain possession of the product to support a damage claim you submit to your insurance company, the pump will be exchanged with an equivalent or the original price will be refunded once the claim is settled with the insurer.



OWNER'S MANUAL

INSTALLATION AND OPERATION INSTRUCTIONS FOR:

SUBMERSIBLE UTILITY PUMPS

Models:

PF91025, PF91026, PF91250, PF91251

PF91255, PF91257, PF91330

PF91335, PF91331, PF91501



Carefully read and understand all of the Warnings and installation instructions in this manual. Failure to follow these instructions could lead to serious bodily injury and/or property damage. Retain these instructions for future reference.

This pump has been manufactured with your needs in mind. Properly installed in the right application, your new PROFLO Pump will give you years of carefree performance.

DANGER ⚠ Water and electricity can be dangerous if certain precautions are not adhered to. This pump is designed to operate perfectly safe in a water environment; however, improper use and installation can result in personal harm from electrical shock. Please pay attention to the following warnings.

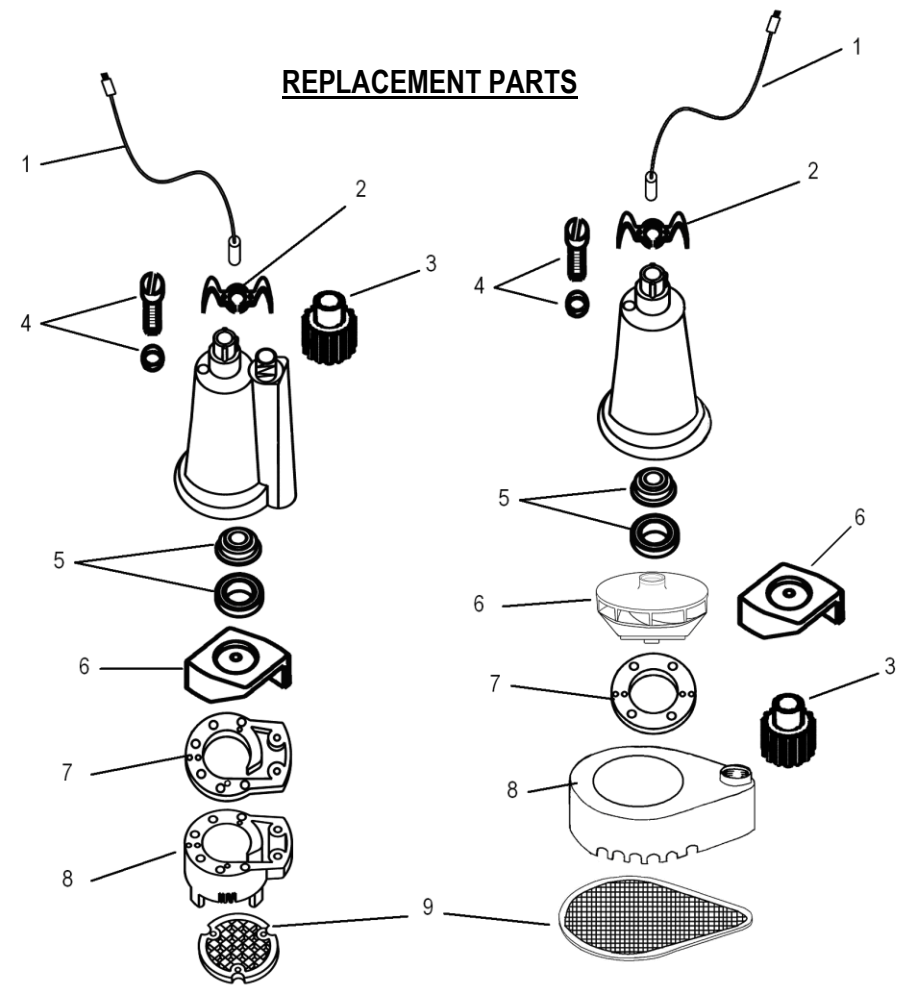
WARNING ⚠ Never touch any electrical device, including this pump, when it is touching water, in water, or even in a moist environment. Always unplug (disconnect the electricity) when working on or installing the unit.

WARNING ⚠ **RISK OF ELECTRICAL SHOCK.** This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electrical shock, be certain that it is connected only to a properly grounded, grounding-type receptacle.

WARNING ⚠ Do not use the power cord or discharge hose to carry or handle the pump. Doing so may cause damage to the power cord or discharge hose. Use the carrying handle supplied with the pump.

WARNING ⚠ Always use a grounded outlet to attach the plug. A three-prong mating type receptacle is needed for safe use. This should be in accordance with the National Electric Code and any additional codes or laws required by your local government.

NOTICE ⚠ It is strongly recommended to use a ground fault interrupt device on any electrical appliance, including this pump, when used in a wet or moist environment. This GFCI (ground fault circuit interrupter) should be listed by Underwriters Laboratories (UL). This is required by many local codes and enforcement agencies.



Ref. #	Description	Part # for Models:						
		PF91025 PF91250 PF91026	PF91255	PF91257 PF91251	PF91330	PF91335	PF91331	PF91501
1	Power Cord	PF99008	PF99009		PF99008	PF99009		
2	Handle	PF99050	PF99050	PF99051	PF99050	PF99050	PF99051	PF99051
3	Garden Hose Adapter	PF99006	PF99006	PF99093	PF99006	PF99006	PF99093	
4	Oil Fill Plug with O-ring	PF99056	PF99056	PF99056	PF99056	PF99056	PF99056	PF99056
5	Shaft Seal	PF99057	PF99057	PF99057	PF99057	PF99057	PF99057	PF99057
6	Impeller	PF99060	PF99060	PF99087	PF99065	PF99065	PF99096	PF99070
7	Gasket	PF99062	PF99062	PF99088	PF99062	PF99062	PF99088	PF99064
8	Base	PF99067	PF99067	PF99078	PF99069	PF99069	PF99078	PF99071
9	Intake Screen	PF99073	PF99073	PF99076	PF99073	PF99073	PF99076	PF99074

* Replacement power cords not available for cast iron pumps

** If motor fails, replace entire pump

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	HOW TO CORRECT
If the pump does not start or run	▪ Pump is not plugged in, switch or breaker is off	▪ Plug pump in or turn on switch/breaker
	▪ Check for blown fuses or tripped circuit breakers or tripped GFCI outlets	▪ Replace fuse, reset breaker, reset GFCI outlet
	▪ Motor thermal protector tripped	▪ Allow pump to cool. Pump will reset
If the pump runs but moves little or no water	▪ Clogged intake screen	▪ Clean or replace screen
	▪ Clogged discharge hose/pipe	▪ Remove clog
	▪ Frozen discharge hose/pipe	▪ Allow hose/pipe to thaw
	▪ Pump is air locked	▪ Clean out airlock hole with a paper clip or pipe cleaner
	▪ Low line voltage	▪ Check wire size and increase if necessary
	▪ Worn, damaged or clogged pump parts	▪ Inspect for wear, damage or clog and clean or replace if necessary
	▪ Discharge head exceeds pump capacity	▪ If pumping height is over 25', the pump will not move water. See performance chart

DANGER ⚠ Do not use this unit to pump chemicals, flammable liquids, sewage or corrosive liquids. You could injure yourself and the pump will fail. Pumping these types of liquids voids the warranty. This pump will handle fluids with the same characteristics as water

WARNING ⚠

Your pump has thermal over-load protection built in. It is not recommended for pumping liquids over 120° F. The thermal overload protector will automatically shut down the pump in an overheat situation. It will then reset itself once the pump cools down. The pump will then work again. This overload is designed as a safety device and it will fail after repeated use. Normal operation is for fluids between 32° F & 120° F.

DO NOT RUN THE PUMP DRY. The pump depends on water for cooling and lubrication. Operating the pump without water may cause the motor to overheat or cause damage to parts of the pump. It may also shorten the life of your pump.

NOTICE ⚠

EXTENSION CORDS

For best performance, it is recommended to connect the power cord directly to the grounded GFCI outlet. If the use of an extension cord is necessary, always use a grounded waterproof type cord. Never use longer than a 25-ft. cord that is lighter than 14/3 gauge.

DANGER ⚠ Keep all electrical connections away from wet and moist environments. Wet connections can cause electrical shock resulting in personal injury.

USES

Your PROFLO Pump is designed to give you reliable performance and long life. It is designed to move water from one place to another. It is great for wet basements, roofs, ponds or waterfalls.

WARNING ⚠ **ALWAYS DISCONNECT THE POWER SOURCE BEFORE ATTEMPTING TO INSTALL, SERVICE OR PERFORM MAINTENANCE ON THE PUMP. FAILURE TO DO SO MAY RESULT IN FATAL ELECTRICAL SHOCK.**

INSTALLATION/OPERATION

1. Place the pump on a hard surface in the water. Do not set the pump directly in mud or sand. This may cause the intake screen to clog or damage to your pump.
2. The water level must be at least 1" deep for the pump to operate.
3. Plug the power cord into a grounded 120-volt AC outlet. The pump will start to operate as soon as the cord is plugged in.
4. The pump should be turned off once the water is removed.
5. Do not let the pump run dry. The pump depends on water for cooling and lubrication. Operating the pump without water may cause the motor to overheat or cause damage to parts of the pump. It may also shorten the life of your pump.

Anything that will pass through the intake screen holes will pass through the pump without causing damage. The intake screen on the pump removes easily for cleaning. The units can also be back-flushed using the garden hose adapter (select models only).

NOTE: This pump has a built in anti-airlock device. Leakage is normal from this device.

NOTICE ⚠ Height and/or piping restriction will reduce the pump output performance. See the performance chart below to insure you have the proper pump for your application. Whenever possible use the same or larger size pipe than the pump discharge for optimum performance. Reducing the pipe size will not harm your pump; it will just reduce the output.

PERFORMANCE CHART

<i>Model</i>	<i>Discharge Height Above Pumping Level</i>					
	<i>0'</i>	<i>5'</i>	<i>10'</i>	<i>15'</i>	<i>20'</i>	<i>25'</i>
	Gallons per Minute					
PF91025, PF91026	26	21	14	10	7	1
PF91250, PF91251, PF91255, PF91257	30	22	20	16	9	2
PF91330, PF91335	40	34	28	22	12	2
PF91331	46	36	30	25	12	1
PF91501	70	66	58	48	25	10

SPECIFICATIONS

<i>Model</i>	<i>PF91025 PF91026</i>	<i>PF91250 PF91255</i>	<i>PF91251 PF91257</i>	<i>PF91330 PF91335</i>	<i>PF91331</i>	<i>PF91501</i>
HP	1/4	1/4	1/4	1/3	1/3	1/2
Amps	3.6	3.8	3.8	4.1	4.1	7.6
Solids Handling	1/8"	1/8"	3/8"	1/8"	3/8"	1/2"
Warranty (Years)	3	3	3	3	3	3
Discharge Size	1 1/4"	1 1/4"	1 1/2"	1 1/4"	1 1/2"	1 1/2"
Pump Down Level	1/4"	1/4"	1/2"	1/2"	1/2"	1"

Power supply requirements..... 120V, 60 Hz

Motor..... Continuous Duty***, Capacitor Start, Thermally Protected

Liquid Temperature Range..... 32° F - 120° F (0° C - 49° C)

Circuit Requirements..... 15 amp

***For continuous duty, the pump must be submerged to prevent overheating