



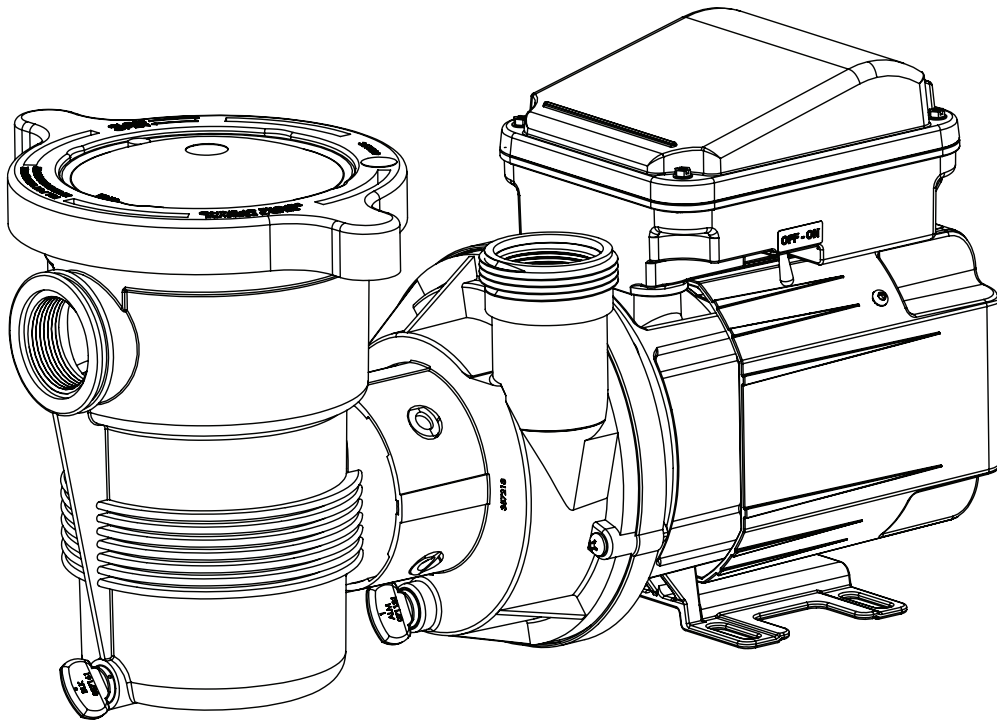
ENGLISH

ESPAÑOL

FRANÇAIS

OPTIFLO

ABOVEGROUND POOL PUMP



INSTALLATION AND USER'S GUIDE

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

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IMPORTANT PUMP WARNING AND SAFETY INSTRUCTIONS



IMPORTANT NOTICE

This guide provides installation and operation instructions for this pump. Consult Pentair with any questions regarding this equipment.

Attention Installer: This guide contains important information about the installation, operation and safe use of this product. This information should be given to the owner and/or operator of this equipment after installation or left on or near the pump.

Attention User: This manual contains important information that will help you in operating and maintaining this product. Please retain it for future reference.

READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS



This is the safety alert symbol. When you see this symbol on your system or in this manual, look for one of the following signal words and be alert to the potential for personal injury.

⚠ DANGER

Warns about hazards that can cause death, serious personal injury, or major property damage if ignored.

⚠ WARNING

Warns about hazards that may cause death, serious personal injury, or major property damage if ignored.

⚠ CAUTION

Warns about hazards that may or can cause minor personal injury or property damage if ignored.

NOTE

Indicates special instructions not related to hazards.

Carefully read and follow all safety instructions in this manual and on equipment. Keep safety labels in good condition; replace if missing or damaged.

When installing and using this electrical equipment, basic safety precautions should always be followed, include the following:

⚠ WARNING Do not permit children to use this product.

⚠ WARNING **RISK OF ELECTRICAL SHOCK.** Connect only to a branch circuit protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the circuit is protected by a GFCI.

⚠ WARNING This unit must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the pump without the test button being pushed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this pump. Disconnect the pump and have the problem corrected by a qualified service representative before using.

⚠ CAUTION This pump is for use with permanent swimming pools and may also be used with hot tubs and spas if so marked. Do not use with storable pools. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity.

General Warnings

- Never open the inside of the drive motor enclosure. There is a capacitor bank that holds a 230 VAC charge even when there is no power to the unit.
- The pump is not submersible.
- The pump is capable of high flow rates; use caution when installing and programming to limit pumps performance potential with old or questionable equipment.
- Code requirements for electrical connection differ from country to country, state to state, as well as local municipalities. Install equipment in accordance with the National Electrical Code and all applicable local codes and ordinances.
- Before servicing the pump; switch OFF power to the pump by disconnecting the main circuit to the pump.
- This appliance is not intended for use by persons (including children) of reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

⚠ DANGER FAILURE TO FOLLOW ALL INSTRUCTIONS AND WARNINGS CAN RESULT IN SERIOUS BODILY INJURY OR DEATH. **THIS PUMP SHOULD BE INSTALLED AND SERVICED ONLY BY A QUALIFIED POOL SERVICE PROFESSIONAL. INSTALLERS, POOL OPERATORS AND OWNERS MUST READ THESE WARNINGS AND ALL INSTRUCTIONS IN THE OWNER'S MANUAL BEFORE USING THIS PUMP. THESE WARNINGS AND THE OWNER'S MANUAL MUST BE LEFT WITH THE POOL OWNER.**

⚠ DANGER SUCTION ENTRAPMENT HAZARD: STAY OFF THE MAIN DRAIN AND AWAY FROM ALL SUCTION OUTLETS!



THIS PUMP PRODUCES HIGH LEVELS OF SUCTION AND CREATES A STRONG VACUUM AT THE MAIN DRAIN AT THE BOTTOM OF THE BODY OF WATER. THIS SUCTION IS SO STRONG THAT IT CAN TRAP ADULTS OR CHILDREN UNDER WATER IF THEY COME IN CLOSE PROXIMITY TO A DRAIN OR A LOOSE OR BROKEN DRAIN COVER OR GRATE.

THE USE OF UNAPPROVED COVERS OR ALLOWING USE OF THE POOL OR SPA WHEN COVERS ARE MISSING, CRACKED OR BROKEN CAN RESULT IN BODY OR LIMB ENTRAPMENT, HAIR ENTANGLEMENT, BODY ENTRAPMENT, EVISCERATION AND/OR DEATH.

The suction at a drain or outlet can cause:

Limb Entrapment: When a limb is sucked or inserted into an opening resulting in a mechanical bind or swelling. This hazard is present when a drain cover is missing, broken, loose, cracked or not properly secured.

Hair Entanglement: When the hair tangles or knots in the drain cover, trapping the swimmer underwater. This hazard is present when the flow rating of the cover is too small for the pump or pumps.

Body Entrapment: When a portion of the body is held against the drain cover trapping the swimmer underwater. This hazard is present when the drain cover is missing, broken or the cover flow rating is not high enough for the pump or pumps.

Evisceration/Disembowelment: When a person sits on an open pool (particularly a child wading pool) or spa outlet and suction is applied directly to the intestines, causing severe intestinal damage. This hazard is present when the drain cover is missing, loose, cracked, or not properly secured.

IMPORTANT PUMP WARNING AND SAFETY INSTRUCTIONS

Mechanical Entrapment: When jewelry, swimsuit, hair decorations, finger, toe or knuckle is caught in an opening of an outlet or drain cover. This hazard is present when the drain cover is missing, broken, loose, cracked, or not properly secured.

NOTE: ALL SUCTION PLUMBING MUST BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL AND LOCAL CODES, STANDARDS AND GUIDELINES.

⚠ WARNING TO MINIMIZE THE RISK OF INJURY DUE TO SUCTION ENTRAPMENT HAZARD:

- A properly installed and secured ANSI/ASME A112.19.8 approved anti-entrapment suction cover must be used for each drain.
- Each suction cover must be installed at least three (3') feet apart, as measured from the nearest point to nearest point.
- Regularly inspect all covers for cracks, damage and advanced weathering.
- If a cover becomes loose, cracked, damaged, broken or is missing, replace with an appropriate certified cover.
- Replace drain covers as necessary. Drain covers deteriorate over time due to exposure to sunlight and weather.
- Avoid getting hair, limbs or body in close proximity to any suction cover, pool drain or outlet.
- Disable suction outlets or reconfigure into return inlets.

⚠ WARNING A clearly labeled emergency shut-off switch for the pump must be in an easily accessible, obvious place.

Make sure users know where it is and how to use it in case of emergency.

The Virginia Graeme Baker (VGB) Pool and Spa Safety Act creates new requirements for owners and operators of commercial swimming pools and spas.

Commercial pools or spas constructed on or after December 19, 2008, shall utilize:

(A) A multiple main drain system without isolation capability with suction outlet covers that meet ASME/ANSI A112.19.8a Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs and either:

- (i) A safety vacuum release system (SVRS) meeting ASME/ANSI A112.19.17 Manufactured Safety Vacuum Release systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub, and Wading Pool Suction Systems and/or ASTM F2387 Standard Specification for Manufactured Safety Vacuum Release Systems (SVRS) for Swimming pools, Spas and Hot Tubs or
- (ii) A properly designed and tested suction-limiting vent system or
- (iii) An automatic pump shut-off system.

Commercial pools and spas constructed prior to December 19, 2008, with a single submerged suction outlet shall use a suction outlet cover that meets ASME/ANSI A112.19.8a and either:

- (A) A SVRS meeting ASME/ANSI A112.19.17 and/or ASTM F2387, or
- (B) A properly designed and tested suction-limiting vent system, or
- (C) An automatic pump shut-off system, or
- (D) Disabled submerged outlets, or
- (E) Suction outlets shall be reconfigured into return inlets.

For Installation of Electrical Controls at Equipment Pad (ON/OFF Switches, Timers and Automation Load Center)

⚠ CAUTION

Install all electrical controls at equipment pad, such as on/off switches, timers, and control systems, etc. to allow the operation (startup, shut-down, or servicing) of any pump or filter so the user does not place any portion of his/her body over or near the pump strainer lid, filter lid or valve closures. This installation should allow the user enough space to stand clear of the filter



and pump during system start-up, shut down or servicing of the system filter.

⚠ DANGER



HAZARDOUS PRESSURE: STAND CLEAR OF PUMP AND FILTER DURING START UP

Circulation systems operate under high pressure. When any part of the circulating system (i.e. locking ring, pump, filter, valves, etc.) is serviced, air can enter the system and become pressurized.

Pressurized air can cause the pump housing cover, filter lid, and valves to violently separate which can result in severe personal injury or death. Filter tank lid and strainer cover must be properly secured to prevent violent separation. Stand clear of all circulation system equipment when turning on or starting up pump.

Before servicing equipment, make note of the filter pressure. Be sure that all controls are set to ensure the system cannot inadvertently start during service. Turn off all power to the pump. **IMPORTANT: Place filter manual air relief valve in the open position and wait for all pressure in the system to be relieved.**

Before starting the system, fully open the manual air relief valve and place all system valves in the "open" position to allow water to flow freely from the tank and back to the tank. Stand clear of all equipment and start the pump.

IMPORTANT: Do not close filter manual air relief valve until all pressure has been discharged from the valve and a steady stream of water appears. Observe filter pressure gauge and be sure it is not higher than the pre-service condition.

General Installation Information

- All work must be performed by a qualified service professional, and must conform to all national, state, and local codes.
- Install to provide drainage of compartment for electrical components.
- These instructions contain information for a variety of pump models and therefore some instructions may not apply to a specific model. All models are intended for use in swimming pool applications. The pump will function correctly only if it is properly sized to the specific application and properly installed.

⚠ WARNING

Pumps improperly sized or installed or used in applications other than for which the pump was intended can result in severe personal injury or death. These risks may include but not be limited to electric shock, fire, flooding, suction entrapment or severe injury or property damage caused by a structural failure of the pump or other system component.

⚠ WARNING

The pump can produce high levels of suction within the suction side of the plumbing system. These high levels of suction can pose a risk if a person comes within the close proximity of the suction openings. A person can be seriously injured by this high level of vacuum or may become trapped and drown. It is absolutely critical that the suction plumbing be installed in accordance with the latest national and local codes for swimming pools.

Pumps and replacement motors that are single speed and one (1) Total HP or greater cannot be sold, offered for sale, or installed in a residential pool for filtration use in California, Title 20 CCR sections 1601-1609.

Warnings and safety instructions for Pentair Aquatic Systems pumps and other related products are available at:

<http://www.pentairpool.com/pool-owner/safety-warnings/> or call (800) 831-7133 for additional free copies of these instructions. Please refer to <http://www.pentairpool.com/pool-owner/safety-warnings/> for warning and safety instructions related to the this product.

SECTION I. HOW YOUR PUMP WORKS

Your OptiFlo® Aboveground Pool Pump is designed to operate for years with proper maintenance. The pump housing, seal plate, hair and lint pot and impeller are made from high quality thermoplastic materials. These materials have been selected for their corrosion resistance. When installed, operated and maintained in accordance with these instructions, your pump will provide years of service.

Your centrifugal pump is driven by an electric motor. The motor is directly attached to the pump impeller. As the electric motor turns it causes the impeller to turn and this causes the water to flow. The water flows into the hair and lint pot inlet and through the basket assembly to pre-strain large particles. The flow then enters the center of the pump housing. If the pump does not contain the hair and lint pot assembly, the flow simply enters the center of the pump housing. The flow goes through the impeller and out the pump discharge port.

SECTION II. INSTALLATION

1. Check carton for any evidence of damage due to rough handling in shipment. If carton or any pump components are damaged, notify freight carrier immediately.
2. After inspection, carefully remove pump from carton.
3. The pump should be secured to a flat solid foundation, high enough to prevent flooding of the motor. A sheltered location is best, being sure to allow for adequate ventilation.
4. Provide space and lighting for routine maintenance access. Do not mount electrical controls directly over pump.
5. The pump should be installed as near to the pool or spa as practical. Avoid installing the pump **above the water level**. Suction lifts of more than 6 inches (15.2 cm) will cause very long priming times, and potentially damage the pump.
6. The location should provide for adequate floor drainage to prevent flooding.
7. When installing your pump, remember to provide valves or other means to disconnect the pump suction and discharge for servicing.
8. Never store pool chemicals within 10 feet (3.1 m) of your pool filter and pump. Pool chemicals are corrosive and should always be stored in a cool, dry, well ventilated area.

WARNING

Chemical fumes and/or spills can cause severe corrosive attack to the filter and pump structural components. Structurally weakened filter or pump components can cause filter, pump or valve attachments to separate and could cause severe bodily injury or property damage.

9. Assemble piping and pipe fittings to pump and valve. All piping must conform to local and state plumbing and sanitary codes.
10. Use threaded seal tape or pipe sealants on all male connections of pipe and fittings. Use only pipe sealant compounds suited for plastic pipe. Support pipe to prevent strains on filter, pump or valve. **DO NOT USE PETROLEUM BASED PRODUCTS.**
11. Avoid over tightening the pipe threads when connecting fittings to the pump. Proper procedure is to apply a pipe sealant to the thread and then install hand tight plus 1-1/2 turns. **DO NOT OVER TIGHTEN.**
12. Long piping runs and elbows restrict flow. For best efficiency use the fewest possible fittings, large diameter pipe (at least 1-1/2") & locate equipment as close to the pool as possible. The pump suction line should not be smaller than the pipe size on the inlet of the pump.

13. It is essential that the suction line be free of air leaks and air traps.

 **WARNING**

Blockage of suction fittings can cause severe or fatal injury due to drowning. Do not permit children to use pool/spa equipment.

14. Suction fittings must conform to ASME/ANSI A 112.19.8 M Standards. Use double suction fittings.
15. The maximum operating pressure of this unit is 25 psi (1.7 bar). Never operate this pump above this pressure. This pump is not intended to be operated in series with other pumps.

 **WARNING**

To reduce the risk of injury, do not permit children to use this product.

16. Wiring of this pump should be performed by a licensed electrician in accordance with the National Electrical Code or your local electrical code.

 **WARNING**

Never work on pump while it is running or power is still connected; hazardous voltage can cause severe or fatal injury. A suitable ground fault interrupter should always be installed at the power supply source of this unit.

17. The pump motor must be wired for the proper voltage in accordance with the wiring diagram supplied with the motor. Wiring the motor with the incorrect supply voltage will cause damage to the motor and void the warranty.
18. The wiring to the motor should be kept as short as possible and large enough NOT to cause an excessive voltage drop. Use the wire size table as a guide in selecting minimum conductor size.
19. Install, ground and bond wire according to local or National Electrical Code requirements.

GROUNDING

20. Permanently ground motor. Use green terminal provided under motor canopy or access plate; use size and type wire required by code. Connect motor ground terminal to electrical service ground. On cord connected circuits, check for proper grounding.

BONDING - (for permanently wired pumps)

21. The National Electrical Code Article requires that the motor be electrically bonded to appropriate permanently installed pool or spa/hot tub structure by a solid copper conductor no smaller than 8 AWG. Bonding wire should be connected from the accessible wire connector on the motor shell to all metal parts of the swimming pool, spa or hot tub structure and to all electrical equipment, metal conduit and metal piping within 5 feet (1.5 m) of the inside walls of a swimming pool, spa or hot tub. A grounding lug is provided on the exterior of the motor shell for this purpose.

WARNING

(For cord and plug-connected units) Do not bury cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers and other equipment.

WARNING

(For cord and plug-connected units) To reduce the risk of electric shock, replaced damaged cord immediately.

WARNING

(For cord and plug-connected units) To reduce the risk of electric shock, do not use extension cord to connect unit to electric supply; provide a properly located outlet.

CAUTION

Do not install within an outer enclosure or beneath the skirt of a hot tub or spa unless so marked.

INITIAL START-UP

1. Relieve all system pressure and open all air bleeders on total hydraulic system prior to starting the OptiFlo® Aboveground Pool Pump. See filter owner's manual.
2. Ensure that all fittings, clamps, closures and couplings are tight and in accordance with equipment manufacturer's recommendations.
3. Open suction and discharge valving to allow free flow of water. On flooded suction pumps with strainer pot the water source is higher than the pump. The water will flow into the pump strainer pot and the pot will fill with water. On pumps without strainer pot the water will fill the pump housing.
4. On non-flooded suction systems the pot lid clamp will have to be removed by rotating the lid counter-clockwise to a stop and lifting the clamp.
5. The pump strainer pot should be filled with water up to suction opening on the pump.
6. It is good practice to lubricate the lid o-ring with silicone lubricant each time the lid is removed. The o-ring should be cleaned and inspected every time the strainer pot is opened.
7. The lid should be replaced on the pot by aligning the clamp ears with the slots on the strainer pot. Press the lid and clamp down and twist the clamp clockwise to engage.
8. The pump is now ready to prime. Turn the motor on and the pump will prime. The time to prime will depend on the suction lift and the distance and size of suction piping. Turn off power if the pump does not prime within five minutes and refer to the Troubleshooting Guide section of this manual.

NOTICE

Never run the pump dry. Running the pump dry may damage the seals and pump housing. This could allow water leakage and flooding.

SECTION III. PUMP OPERATION AND MAINTENANCE

WARNING

DO NOT open the strainer pot if pump fails to prime or if pump has been operating without water in the strainer pot. Pumps operated in these circumstances may experience a build up of vapor pressure and may contain scalding hot water. Opening the pump may cause serious personal injury. In order to avoid the possibility of personal injury, make sure the suction and discharge valves are open and strainer pot temperature is cool to touch, then open with extreme caution.

The strainer basket in the pump should be inspected and cleaned twice each week. Remove the clear lid and the basket, and clean debris from basket. Inspect the lid o-ring; if damaged, replace. The pump seal requires no lubrication. Refer to motor service centers for motor servicing.

SECTION IV. DISASSEMBLY/ASSEMBLY PROCEDURE FOR SEAL REPLACEMENT

WARNING

Never work on pump while it is running or power is still connected. Hazardous voltage can cause severe or fatal injury.

1. Stop pump and relieve system pressure.
2. Disconnect motor power at Circuit Breaker.
3. Close suction and discharge valves.

4. Use extreme care when handling the mechanical seal. The mating seal surfaces are polished and are easily damaged.
5. The mechanical seal can be changed without disconnecting piping by removing 4 bolts (see item 14 on page 7) and pulling the motor with OptiFlo® Aboveground Pool Pump seal plate and impeller assembly away from front pump housing body.
6. Remove impeller and rotating portion of seal by holding motor shaft and rotating the impeller counter-clockwise when facing the shaft extension on the motor.
7. The rotating portion of the seal can now be removed from the impeller. Clean the impeller hub and lubricate with soapy water. Wipe off shining carbon sealing surface of new mechanical seal with a clean tissue to remove oily fingerprints or other foreign materials. The new rotating seal can be pressed back onto the impeller.
8. To remove the stationary ceramic seal seat, first loosen the four motor bolts which run through the entire length of the motor into the seal plate. Remove the seal plate from the motor. Press the ceramic seat and rubber gasket out of the seal plate.
9. Clean the seal plate seal area and lubricate with soapy water. Press the new ceramic seal and gasket into the seal plate, being sure it is fully seated. Wipe off the ceramic sealing surface with a clean tissue to remove oily fingerprints or foreign substances.
10. Place the seal plate on the motor and carefully align the four motor through bolts. Secure the seal plate onto the motor being careful not to overtighten the bolts. Gradually bring bolts up to final tightness by moving across in a criss-cross pattern.
11. Check the position of the mechanical seal set in the seal plate and ensure the motor shaft is in the center of the seal set.
12. Screw the impeller with new rotating seal onto the motor shaft. Rotate the motor shaft to make sure the impeller is not touching the seal plate.
13. Clean the seal plate O-ring and check to make sure it is in position. Replace the motor and seal plate on the front pump housing body and bolt into position with 4 bolts. Gradually bring bolts up to final tightness by moving across in a criss-cross pattern.
14. Refer to initial start-up procedures to restart the pump.

SECTION V. WINTERIZING PROCEDURE

NOTICE

Allowing the water to freeze in pump will damage the pump and cause potential water damage/flooding and potential property damage.

1. Drain all water from pump housing and piping when freezing temperatures are expected. A drain plug is provided to drain the pump. If the pump has a strainer pot both the strainer drain plug and the housing drain plug should be removed. If pump has no strainer pot then only remove the housing plug.
2. If the pump can be removed and placed in an inside dry location this should be done.
3. For an outdoor unprotected location it is best to protect the equipment in a weatherproof enclosure.
4. Do not wrap the motor with plastic because condensation could form inside the motor.
5. In installations where the pump cannot be drained a 40% propylene glycol 60% water solution will protect to -50°F (-45.6°C).

NOTICE

Do not use anti-freeze solutions except propylene glycol, as other anti-freeze is highly toxic and will damage the pump.

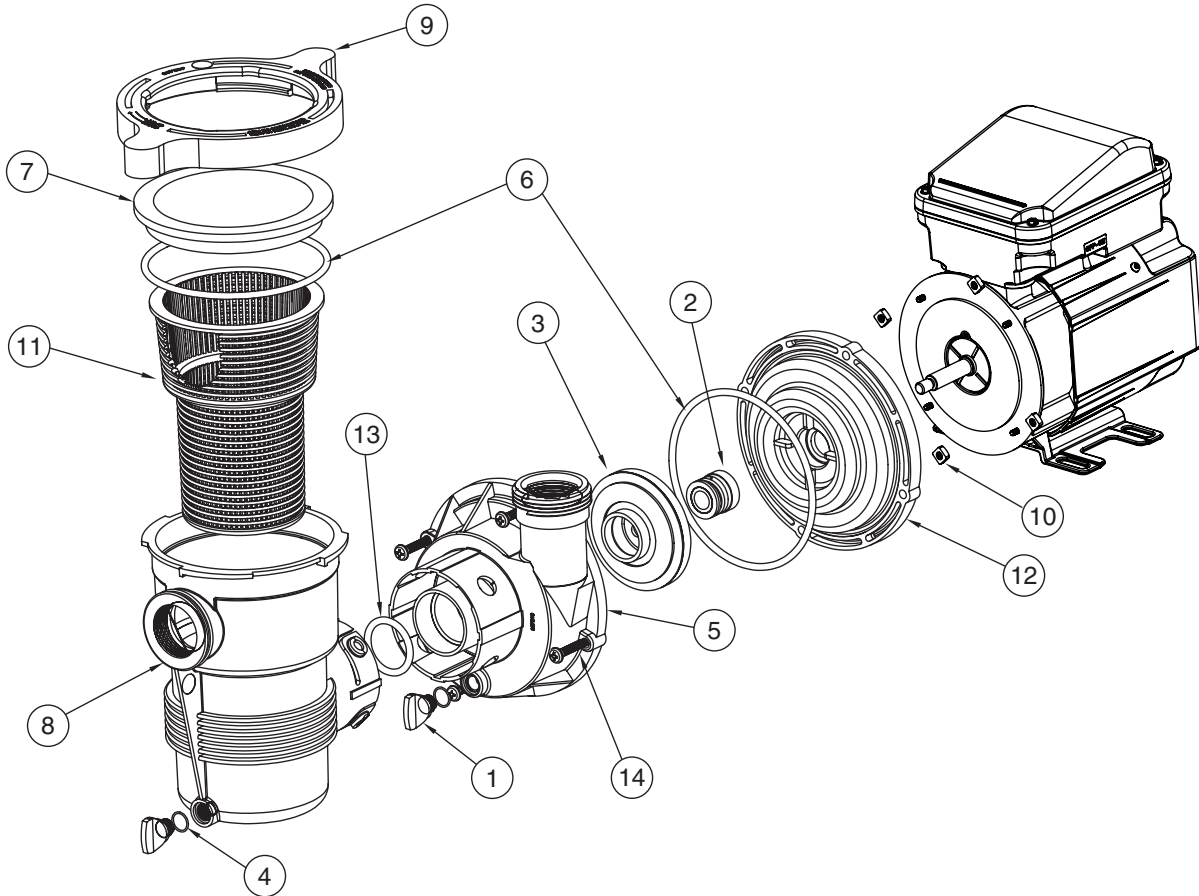
SECTION VI. TROUBLESHOOTING GUIDE

The following are some common causes of problems that may arise.

PROBLEM	CAUSE	REMEDY
Pump will not prime.	No water in strainer pot.	Add water to pot.
	Strainer pot lid is not tight.	Tighten lid.
	Damaged lid o-ring.	Replace o-ring.
	Water level is below skimmer.	Adjust pool water level.
	Strainer basket or skimmer basket is clogged.	Clear basket.
	Closed valve in piping system.	Check all valves and open all necessary valves.
	Air leak in suction line.	Find and fix leak.
	Water level is too low and the pump cannot lift.	Adjust pump level and insure it is below water level.
Low flow — high filter pressure.	Filter is dirty.	Clean filter.
	Restriction in return line.	Open return line restriction.
Low flow — low filter pressure.	Strainer basket or skimmer basket clogged.	Clean basket.
	Clogged impeller.	Clean obstruction.
	Air leak in suction line.	Find and fix leak.
	Restriction in suction line.	Find and open restriction.
Motor does not turn.	Power switch is off.	Check power switch and reset.
	Circuit breaker has tripped.	Check circuit breaker and reset; if retriips contact electrician.
	Pump is in off-mode of a timer controlled circuit.	Check timer mode.
	Motor terminal connections are incorrect.	Have terminal connections checked by electrician.
	Motor shaft is locked by bad bearing.	Have motor bearings replaced or replace pump.
Motor over-heating.	Electrical supply connections are incorrect.	Have terminal connections checked by electrician.
	Wiring to pump is undersized.	Consult electrician to rewire pump.
	Power Company supply voltage is low.	Notify Power Company.
	Ventilation is inadequate for motor.	Remove any restrictions to air flow.

SECTION VII. TECHNICAL DATA

REPLACEMENT PARTS

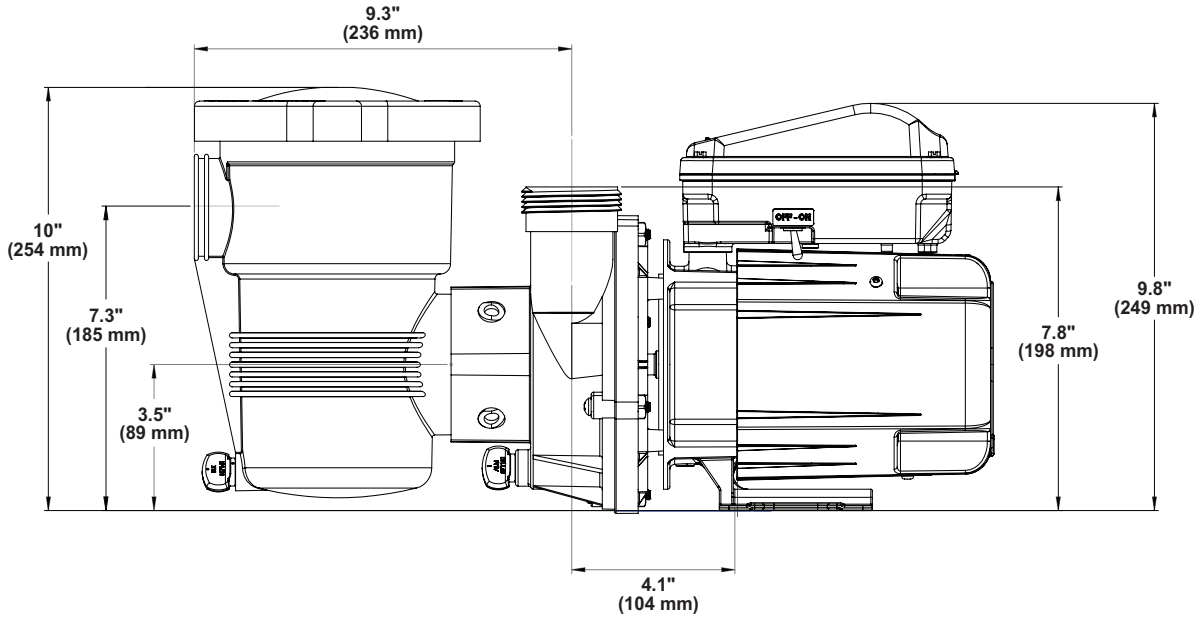


Item No.	Part No.	Description
1	357161Z	Drain Plug, 3 req.
2	354545S	Mechanical Seal
3	350017	Impeller
4	192115Z	O-ring, 3 req.
5	357213	Volute Assembly
6	357255Z	O-ring 2-357, 2 req.
7	357227	Lid
8	357228	Pot Assembly
9	357239	Clamp Ram & Cam
10	357254	1/4-20 Square Nut, 4 req.
11	355667	Basket
12	357215	Seal Plate
13	350103	O-ring
14	98209000	1/4-20 x 1.5 Machine Screw, 4 req.

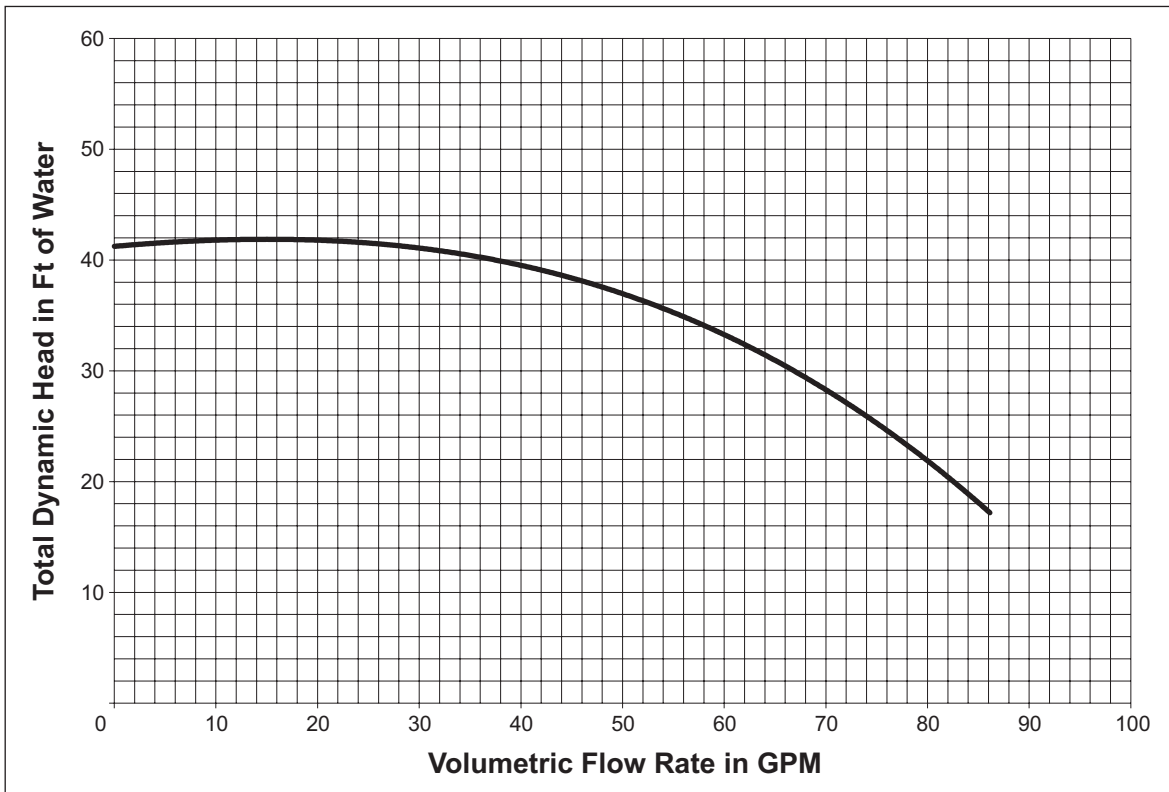
NOT SHOWN

79137800	Cord – 3 Ft. (0.9 m), Standard 15 Amp Plug (not for use in Canada)
155234	Cord – 3 Ft. (0.9 m), Twist Lock 15 Amp Plug (not for use in Canada)
155371	Cord - 25 ft. (7.6 m), 16 Ga. Power Supply (Only for pump models 348197, 348197SR, EC-348197, 348201, 348201SR, and EC- 348201 in Canada)

DIMENSIONAL DATA



PUMP CURVES





1620 HAWKINS AVE., SANFORD, NC 27330 • (919) 566-8000
10951 WEST LOS ANGELES AVE., MOORPARK, CA 93021 • (805) 553-5000
WWW.PENTAIR.COM

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