



Prime Pool Pump



INSTALLATION AND USER GUIDE

Models:
(PL2601)
(PL2602)
(PL2603)
(PL2604)

READ AND FOLLOW ALL INSTRUCTIONS

ATTENTION INSTALLER: This manual contains essential information about the installation, operation, and safe use of this pool pump. Please remember to furnish this manual and all other instructional documents to the end user of this product.

The Pureline Prime Pump is specifically engineered for today's inground swimming pools and spas. The Prime is a self-priming pump that incorporates the industry's toughest and most reliable motors.

Failure to read and follow instructions can result in serious injury.

To prevent potential injury to self or product and to avoid unnecessary service calls, please read manual carefully. Look for the following symbols and signal words and be alert to potential injury.



This is a safety-alert symbol. Whenever you see this symbol in this manual or on the pump itself, look for the following signal words to alert potential dangers.



WARNING- Product should **ONLY** be installed and serviced by a qualified professional



DANGER- A licensed electrician **MUST** complete, in full, all electrical installation

IMPORTANT SAFETY INSTRUCTIONS

General Warnings

- Never open the inside of the drive motor enclosure
- The pump is not submersible
- Code requirements for the electrical connection differ from state to state. Install equipment according to the National Electrical Code.
- Switch pump to OFF by disconnecting the main circuit to pump BEFORE servicing pump



WARNING- Do not permit children to use this product



WARNING- Risk of electrical Shock. Only connect to a circuit branch protected by a ground-fault circuit interrupter (GFCI). Contact a qualified technician if you cannot verify if the circuit is protected by a GFCI. Pump must be permanently connected to a GFCI.



WARNING- The pump is intended for use on permanently installed swimming pools and may also be used with hot tubs and spas if so marked. Failure to bond pump to a pool structure increases the risk for electrocution and could result in injury or death. To reduce the risk of electric shock, the electrician must comply with installation instructions and must bond pump accordingly. Electrician must also conform to electrical codes for bonding requirements.



WARNING- The pump can produce high levels of suction within the suction side of the plumbing system. These high levels of suction can post a risk if a

person comes within close proximity of the suction openings. A person can also be seriously injured by the high level of vacuum or may become trapped and drown. It is critical that the suction plumbing is installed in accordance with the latest national and local codes for swimming.



This pump produces high levels of suction, thus creating a strong vacuum at the main drain at the bottom of your swimming pool/spa. This suction is so strong that it can trap adults and children under water if they come in close proximity to the drain.

The use of unapproved drain covers, or allowing the use of your pool or spa when drain covers are either missing or broken, can result in body or limb entrapment, hair entanglement, body entrapment, evisceration, and/or death.

Hair Entrapment- When the hair tangles or knots in the drain cover, trapping the swimmer underwater. This is typically associated when the flow rating of the cover is too small for the pump(s).

Limb Entrapment- A limb can be sucked or inserted into an opening in the drain causing a mechanical bind or swelling of the limbs. This is typically caused when a drain cover is missing, broken, cracked, or not secured properly.

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 re-configured into return inlets.

Body Suction Entrapment- A portion of the body is held against the drain cover, trapping the swimmer underwater. This typically presents itself when the drain cover is missing, broken, or the cover flow rating is not high enough for the pump(s).

Evisceration/Disembowelment- Negative pressure that is applied directly to the intestines through an unprotected suction outlet or suction outlet cover that is damaged, broken, cracked, missing, or unsecured.

Mechanical Entrapment- Jewelry, clothes, hair decorations, fingers, toes, or knuckles can get caught in an opening of a suction outlet cover.



WARNING- Hazardous Pressure- During startup, normal

operation, and after pump shuts off, the pool and spa water circulation system operates under hazardous pressure. Please stand clear of circulation system during pump start-up. Before servicing your pool equipment, make sure all systems and pump controls are in the off position and the filter manual air relief valve is open. Also make sure all system valves are set in a position that allows water to return to the pool. Do not change the filter valve position while system pump is running. All suction and discharge valves must be open when starting the circulation system. Failure to follow safety and operational instructions could result in damage, severe personal injury, or death.



WARNING- Separation Hazard- Please ensure the strainer cover

is properly secured to the pump housing. Do not operate pool and spa circulation system if a system component is not assembled properly, damaged, or missing. All suction and discharge valves must be open when starting the circulation system. Failure to follow safety and operational instructions could result in damage, severe personal injury, or death.

General Information

This manual contains essential information about the installation, operation, and safe use of this pool pump. **Failure to install according to the defined instructions will void your warranty.**

The PureLine Prime Pump is our newest, premiere pump that rivals top brands like Hayward, Pentair, Sta-Rite, Jacuzzi, and Waterway. The PureLine Prime is paired with the industry's leading Century motors. They are also equipped with extra large 2" plumbing ports that results in higher flow rates and longer motor life.

Product Benefits

- Drop in Replacement for the Hayward Super Pump
- Same dimensions as the Hayward Super Pump means no realigning of plumbing significantly reducing the time it takes to swap out your pump
- Paired with a Century Motor. The most reliable pool motor in the world.
- Same quality as Hayward, Pentair, Sta-Rite, Jandy and Waterway
- Costs 30% Less than Hayward Super Pump
- Large 2" ports
- Quick Disconnect Unions included (\$40 Value)
- 1 year warranty
- Self-priming (the pump can be placed up to 10' above water level)
- Quick & Easy basket removal, with swing aside hand knobs
- Clear Lexan cover makes it easy to see when basket needs cleaning
- Large capacity basket
- Basket design ensures free flow of water
- All components made of corrosion proof plastic
- Heavy-duty, high performance motor for quieter, cooler operation
- Easy access to all internal parts for servicing

Product Dimensions



Pump Performance Chart

This chart shows the maximum recommended system flow rate by the feet of head.

Model #	Pure Line Prime Performance Data GPM Vs. Ft. of Head					
	20 Ft.	30 Ft.	40 Ft.	50 Ft.	60 Ft.	70 Ft.
PL2601 – 1 HP	68	60	50	38	12	-
PL2602 – 1.5 HP	77	70	60	48	32	-
PL2603 – 2 HP	113	103	90	76	60	38
PL2604 – 3 HP	121	111	96	84	68	54

Installation Instructions



WARNING- This product should only be installed and serviced by a qualified professional. Please refer to “General Warnings” for additional safety information.

Pump Location

Before installing the pump, selecting a proper location for your pump is essential to prolonging the overall lifespan of your pump. Be sure the pump’s location meets the following requirements:

1. Install the pump as close to the pool or spa as possible. Using short, direct suction piping returns will reduce friction loss and improve efficiency.
2. Do NOT install the pump more than 10 feet above the water level.
3. Select a well-drained area, one that will not flood during the rain.
4. Do NOT install pump in a damp or non-ventilated location
5. Install the pump with a rear clearance of at least 3 inches so that the motor can be easily removed for maintenance and repair.

Plumbing

1. For improved pool plumbing, it is recommended to use a larger pipe size.
2. Piping on the suction size of the pump should be the same or larger than the return line.
3. All plastic fittings must be new or thoroughly cleaned before use.
4. Do NOT attempt to force hose connector fitting past thread stops molded into the inlet and outlet ports.
5. Do NOT over- tighten fittings or you may cause damage

Fittings and Valves

1. Fittings restrict flow so for better efficiency, use the fewest possible fittings (but at least 2 suction outlets).

2. Pool and spa fittings MUST conform to the International Association of Plumbing and Mechanical Officials (IAPMO) standards.
3. Use non-entrapping suction fittings or double suction (skimmer and main drain).
4. Install check valves when plumbing parallel with another pump to prevent reverse rotation of the impeller and motor

Electrical Wiring



WARNING- All wiring must be done by a licensed electrician and must conform to all local and national codes and regulations. A solid copper bonding conductor, not smaller than 8 AWG (8.4 mm) shall be connected from the accessible wire connector on the motor 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, when the motor is installed within 5 feet of the inside walls of the swimming pool, spa, or hot tub.

1. Be sure all electrical breakers and switches are turned off before wiring motor.
2. Ground and bond motor before connecting to electrical power supply. Failure to ground and bond motor can cause serious or fatal electrical shock hazard.
3. Do NOT ground to gas supply line
4. Be sure the supply line voltage matches the motor voltage listed on the motor plate.(IE. 230 VAC or 115 VAC) If they do not match, permanent motor damage may occur.
5. Ground Fault Circuit Interrupter (GFCI) tripping indicates electrical problem. If GFCI trips and won't reset, consult electrician to inspect and repair electrical systems.

Ensure that the electrical supply available agrees with the motor's voltage, phase, and cycle and that the wire size is adequate for the H.P. rating and distance from the power source.

Voltage

Voltage at motor cannot exceed more than 10% above or below the rating listed on the motor label. Improper voltage can cause your motor to overheat, causing overload tripping and a reduced component life. If the voltage is running at less than 90% or

more than 110% of rated voltage when motor is running at full load, consult power company.

Grounding and Bonding

Install, ground, bond, and wire motor in accordance with local or national electrical code requirements. Also use the correct size and type of wiring that is required by code.

Permanently ground the motor. Connect motor ground terminal to electrical service ground. Bond motor to pool structure. Bonding will connect all metal parts within and around the pool with a continuous wire. Bonding also reduces the risk of a current passing between bonded metal objects, which could potentially cause electrical shock if shorted.

Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding, and general wiring procedures.

Startup and Operation

Never operate the pump without water. Water acts as a coolant and lubricant for the mechanical shaft seal.

Fill the strainer housing with water to suction pipe level



WARNING- Never run the pump dry. Running the pump dry may damage seals, causing leakage and flooding. The warranty will not cover any damage caused by running the pump dry. Fill strainer housing with water prior to starting motor.



WARNING- Do **NOT** add chemicals to the pool/spa directly in front of pump suction. Adding chemicals may damage pump and void your warranty.



WARNING- BEFORE removing strainer cover

1. **STOP** pump
2. **CLOSE** valves in suction and outlet
3. **RELEASE** pressure from pump and piping systems using the filter manual air relief valve.

Priming Pump



WARNING- Keep all suction and discharge valves OPEN, as well as the filter air relief valve on filter when starting your pump. Failure to do so can result in severe personal injury.

- Release all pressure from the filter, pump, and piping system.
- If the water source is higher than the pump, the pump will prime itself when the suction and outlet valves are open. If the water source is lower than the pump, unscrew and remove the strainer cover and fill it with water.
- Inspect, clean, and lubricate the strainer o-ring each time it is removed.
- Replace the strainer cover on housing, turning clockwise to tighten.

Turn on pump and wait for the pump to prime. This typically can take up to five minutes. The vertical length of suction lift and horizontal length of suction pipe affects the overall priming time. If the pump does not prime in five minutes, stop motor and troubleshoot unit. Make sure all suction and discharge valves are open when the pump is running.

Statement of Warranty Policy

The pump was inspected before shipment from the warehouse. To original purchasers of this pump, Pureline Products warrants its products free from defects in materials and workmanship for a period of **ONE (1) year** from the date of purchase.

Parts which fail or become defective during the warranty period, except as a result of freezing, negligence, improper installation use or care, shall be repaired or replaced, at our option, without charge, within 90 days of receipt of the defective product. In the

event of a breach of warranty within the applicable warranty period, Pureline Products shall have the option of (1) repairing, (2) supplying an identical or similar replacement, or (3) refunding for the purchase price.

In order to proceed with any warranty claim, all parts and components must be returned to the place of purchase. The original purchaser is responsible for all shipping fees past 90 days. No returns may be made directly to the warehouse without the authorization of Pureline Products.

Additionally, we reserve the right to inspect all products before honoring warranty claims.