SEASTAR®

Owner´s Manual

HydraFLOW Series

HydraFLOW 75 / HydraFLOW 100

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IMPORTANT SAFETY INSTRUCTIONS

The HydraFlow series is a line of high-performance, self-priming pumps engineered for reliability, efficiency, and long-lasting durability. Suitable for pools of all sizes and types, HydraFlow pumps feature 1 ½" x 2" union connections to fit a wide range of plumbing configurations, along with a cam-and-ramp strainer cover that locks securely with less than a quarter turn. Whether for new installations or as a replacement, HydraFlow is designed to deliver dependable performance and lasting value.

SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, Includind the following:
Failure to follow instructions can cause severe injury and/or death.

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

! **WARNING** warns about hazards that could cause serious personal injury, death or major property damage and if ignored presents a potential hazard.

! **CAUTION** warns about hazards that will or can cause minor or moderate personal injury and/or property damage and if ignored presents a potential hazard. It can also make consumers aware of actions that are unpredictable and unsafe.

The **NOTICE** label indicates special instructions that are important but not related to hazards.

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USE ONLY SEASTAR GENUINE REPLACEMENT PARTS

1. IMPORTANT SAFETY INSTRUCTIONS

⚠ **WARNING -** Read, understand, and follow all instructions in this owner's manual and on the equipment. Failure to follow instructions can cause severe injury and/or death

⚠ **WARNING - Suction Entrapment Hazard.**

Suction in suction outlets and/or suction outlet covers that are damaged, broken, cracked, missing, or unsecured can cause severe injury and/or death due to the following entrapment hazards:

Hair Entrapment: Hair can become entangled in suction outlet cover.

Limb Entrapment: A limb inserted into the opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.

Body Suction Entrapment: Negative pressure applied to a large portion of the body or limbs can result in an entrapment.

Evisceration/Disembowelment: Negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or unsecured can result in evisceration/disembowelment. Mechanical Entrapment: Jewelry, swimsuits, hair decorations, fingers, toes, or knuckles can be caught in the opening of a suction outlet cover, resulting in mechanical entrapment.

⚠ **WARNING -To Reduce the Risk of Entrapment Hazards:**

- When outlets are small enough to be blocked by a person, a minimum of two functioning suction outlets per pump must be instaled. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of tree feet (3´ = 1 meter) apart, as measured from near point.
- Dual suction fittings shall be placed in such locations and distances to avoid "dual blockage" by a user.
- Dual suction fittings shall NOT be located on seating areas or on the backrest for such seating areas.
- Never use Pool or Spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- Replace damaged, broken, cracked, missing or not securely attached suction outlet component immediately.
- In addition two or more suction outlets per pump installed in accordance with latest ASME, APSP Standards and CPSC guidelines, follow all Nataional, State and Local codes applicable.
- Installation of vacuum release or vent syste,. which relieves entrapping suction, is recommended.

⚠ **WARNING - Failure to remove pressure test plugs and/or plugs used for winterization of the pool/spa from the suction outlets can result in an increased potential for suction entrapment as described above.**

⚠ **WARNING - Failure to keep suction outlet components clear of debris such as leaves, dirt, hair, paper, and other materials can result in an increased potential for suction entrapment as described above.**

⚠ **WARNING – Suction outlet components have a finite life. The cover/grate should be inspected frequently and replaced at least every seven years, or sooner if found to be damaged, broken, cracked, missing, or not securely attached.**

⚠ **CAUTION - Components such as the filtration system, pumps, and heater must be positioned to prevent them from being used as a means of access to the pool by young children.** To reduce the risk of injury, do not permit children to use or climb on this equipment. Closely supervise children at all times.

⚠ WARNING - Hazardous Pressure – Pool and spa water circulation systems operate under hazardous pressure during startup, normal operation, and after the pump is shut off. Stand clear of circulation system equipment during pump startup. Failure to follow safety and operating instructions could result in violent separation of the pump housing and cover, and/or filter housing and clamp due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing the pool and spa water circulation system, all system and pump controls must be in the OFF position, and the filter manual air relief valve must be open. Before starting the system pump, all system valves must be set to allow water to return to the pool. Do not change the filter control valve position while the system pump is running. Before starting the system pump, fully open the filter manual air relief valve. Do not close the filter manual air relief valve until a steady stream of water (not air or a mixture of air and water) is discharged.

⚠ WARNING - Separation Hazard – Failure to follow safety and operating instructions could result in violent separation of pump and/or filter components. The strainer cover must be properly secured to the pump housing with the strainer cover lock ring.Before servicing the pool and spa circulation system, the filter's manual air relief valve must be in the open position. Do not operate the pool and spa circulation system if any system component is not assembled properly, damaged, or missing. Do not operate the system unless the filter manual air relief valve body is locked in the filter upper body. Never operate or test the circulation system at more than 50 PSI. Do not purge the system with compressed air. Purging the system with compressed air can cause components to explode, creating a risk of severe injury or death to anyone nearby. Use only a low-pressure (below 5 PSI), high-volume blower when air purging the pump, filter, or piping.

⚠ WARNING – Risk of Electric Shock. All electrical wiring MUST comply with applicable local codes, regulations, and the National Electrical Code (NEC). Hazardous voltage can shock, burn, and cause death or serious property damage. To reduce the risk of electric shock: Do NOT use an extension cord to connect the unit to the electrical supply. Provide a properly located electrical Junction Box. Before working on any electrical equipment, turn off the power supply to the equipment. Replace damaged wiring immediately. Route conduit to prevent damage from lawn mowers, hedge trimmers, and other equipment. Do NOT ground to a gas supply line.

⚠ WARNING – Risk of Electric Shock. Failure to ground all electrical equipment can cause serious or fatal electrical shock. Ground all electrical equipment before connecting to the electrical power supply.

⚠ WARNING – Risk of Electric Shock. Failure to bond all electrical equipment to the pool structure increases the risk of electrocution and could result in injury or death. To reduce the risk of electric shock, follow the installation instructions and consult a professional electrician on how to bond all electrical equipment. Also, contact a licensed electrician for information on local electrical codes for bonding requirements.

Notes to Electrician: Use a solid copper conductor, size 8 AWG or larger. Run a continuous wire from the external bonding lug to the reinforcing rod or mesh.Connect a No. 8 AWG (8.4 mm²) solid copper bonding wire (No. 6 AWG – 13.3 mm² for Canada) to the pressure wire connector provided on the electrical equipment and to all metal parts of the swimming pool, spa, or hot tub, and metal piping (except gas piping).

USE ONLY SEASTAR GENUINE REPLACEMENT PARTS

WARNING – Risk of Electric Shock. The electrical equipment must be connected only to a supply circuit protected by a ground-fault circuit interrupter (GFCI). The GFCI should be provided by the installer and tested routinely: Push the TEST button. The GFCI should interrupt power.Push the RESET button. Power should be restored.If the GFCI fails to operate as described, it is defective. If the GFCI interrupts power without pressing the test button, a ground current is present, indicating a potential electrical shock. Do not use this equipment. Disconnect it and have the problem corrected by a qualified service representative before using.

CAUTION – SEASTAR pumps are intended for use with permanently-installed pools and may 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 it can be readily disassembled for storage and reassembled to its original integrity.

WARNING – Risk of Hyperthermia.To avoid hyperthermia, follow the “Safety Rules for Hot Tubs” recommended by the U.S. Consumer Product Safety Commission.

1 . Spa or hot tub water temperatures should never exceed 104 °F (40 °C). A temperature of 100 °F (38 °C) is considered safe for a healthy adult. Special caution is advised for young children. Prolonged immersion in hot water can lead to hyperthermia.

2. Drinking alcoholic beverages before or during spa or hot tub use can cause drowsiness, which may lead to unconsciousness and increase the risk of drowning.

3. Pregnant women beware: Soaking in water above 100 °F (38 °C) can cause fetal damage during the first three months of pregnancy (potentially resulting in the birth of a brain-damaged or deformed child). Pregnant women should adhere to the 100 °F (38 °C) maximum rule.

4. Before entering the spa or hot tub, users should check the water temperature with an accurate thermometer. Spa or hot tub thermostats may vary and can be off by as much as 4 °F (2.2 °C).

5. Persons taking medications that induce drowsiness, such as tranquilizers, antihistamines, or anticoagulants, should not use spas or hot tubs.

6 . If the pool/spa is used for therapy, it should be done under the advice of a physician. Always stir pool/spa water before entering to mix in any hot surface layer of water that might exceed safe temperature limits and cause injury. Do not tamper with controls, as scalding can occur if safety controls are not in proper working order.

7. Persons with a medical history of heart disease, circulatory problems, diabetes, or blood pressure issues should consult a physician before using spas or hot tubs.

8.Hyperthermia occurs when the internal temperature of the body rises several degrees above the normal body temperature of 98.6 °F (37 °C). Symptoms of hyperthermia include drowsiness, lethargy, dizziness, fainting, and an increase in internal body temperature.

Effects of Hyperthermia include:

- Unawareness of impending danger.
- Failure to perceive heat.
- Failure to recognize the need to leave the spa.
- Physical inability to exit the spa.
- Fetal damage in pregnant women.
- Unconsciousness, resulting in a risk of drowning.

2. GENERAL INFORMATION

2.1 Introduction:

The high-efficiency, modern HydraFlow Pump was specifically designed to be the best choice for your pool.

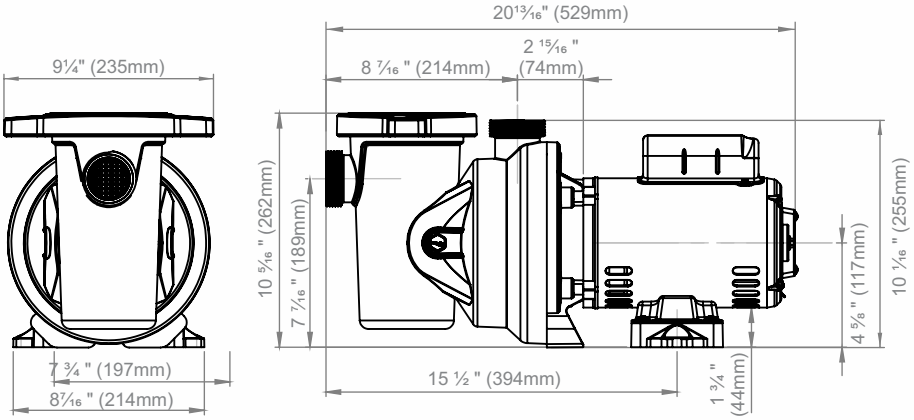
Thick-walled body parts, a heavy-duty motor, and highly engineered hydraulics make this rugged design ideal for pools and spas. SEASTAR pumps incorporate innovative hydraulic engineering that delivers years of reliable service.

This manual contains information for the proper installation and operation of the pump. The instructions in this manual MUST be followed precisely. **Failure to install according to these instructions will void the warranty**.

2.2 Primary Features:

- Self-priming for quick, easy start-up (suction lift up to 8′ above water level).
- Advanced hydraulics for increased efficiency and priming ability.
- See-through strainer cover lets you know when the basket needs cleaning and seals with less than a quarter turn.
- Pump housing and impeller made of high-strength reinforced plastic.
- All models include 1 ½ " and 2 " union connections, and hose connector 1 ½"
- Voltage: 115 V AC – 230 V AC selectable (in Hydraflow 75 and 100), 60 Hz.
- Ergonomic handles lid for easy cleaning and maintenance.
- Integral volute and pot reduce hydraulic noise.
- 3/4 HP, and 1 HP configurations to accommodate different applications.
- High-resistance, self-aligning PP strainer basket.
- UR Certificated c UL us

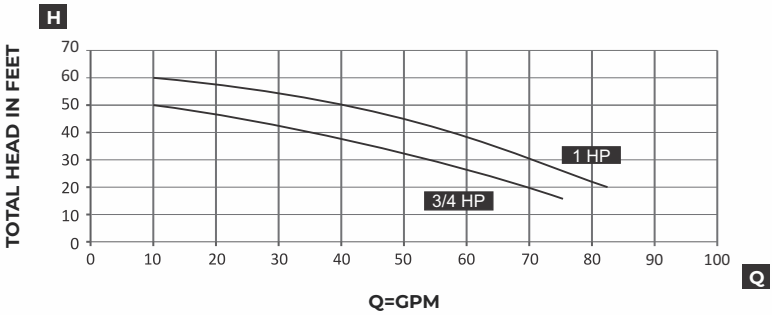
2.3 Product Dimensions:



HYDRAFLOW SELF-PRIMING PUMP

Code 3/4HP: 52000075
Code 1HP: 52000100

2.4 Performance:

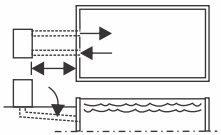


3. INSTALLATION AND WIRING

⚠ **WARNING -** This product should be installed and serviced only by a qualified professional.

3.1 Pump Location

⚠ **WARNING -** Motors operate at high temperatures. If not properly isolated from flammable structures or foreign debris, they can cause fires resulting in severe injury or death. Always allow the motor to cool for at least 20 minutes prior to maintenance to minimize the risk of burns.

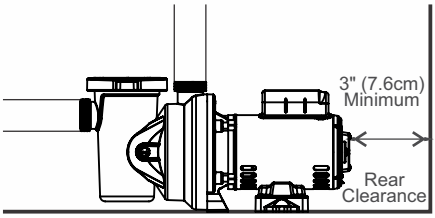


Pump Location Requirements:

- Locate the pump as close to the pool as possible, with suction lines kept as direct as possible to reduce friction loss and improve efficiency.
- Pump height should be as close to water level as possible and must NOT exceed 8 feet.
- Suction lines should have a continuous slope upward from the lowest point in the line.
- Joints must be tight (but not overtightened).
- Suction line diameter must equal or be larger than the discharge line diameter.
- Although the pump is designed for outdoor use, it is recommended to place the pump and filter in the shade to protect them from continuous direct heat.
- Select a well-drained area that will not flood when it rains. Do not install pump and filter in a damp or non-ventilated location. Keep the motor clean. Pump motors require free circulation of air for cooling.
- Install the pump with a rear clearance of at least 3 in. (7.6 cm) so that the motor can be removed easily for maintenance and repair.

3.2 Pump Mounting

Install the pump on a level concrete slab or other rigid base according to local and national codes. Secure the pump to the base with screws or bolts to further reduce vibration and stress on pipe or hose joints. The base must be level, rigid, and vibration-free.



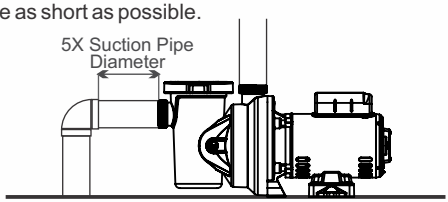
The pump mount must:

- Keep pump inlet height as close to water level as possible.
- Allow use of short, direct suction piping (to reduce friction losses).
- Allow installation of valves in suction and discharge piping.
- Be protected from excess moisture and flooding.
- Allow adequate access for servicing the pump and piping.

3.3 Piping

- Piping on the suction side of the pump should be the same size or larger than the return line diameter.
- Plumbing on the suction side of the pump should be as short as possible.
- It is recommended to install a valve on both the pump suction and return lines so the pump can be isolated during routine maintenance.A valve, elbow, or tee installed in the suction line should be no closer to the front of the pump than five times the suction line diameter.

NOTE: DO NOT install 90° elbows directly into the pump inlet or outlet.



Example: A 2 inch pipe requires a 10 inch (25 cm) straight run in front of the suction inlet of the pump. This will help the pump prime faster and last longer.

3.4 Plumbing

NOTE: Do not use plumber's pipe dope, as it may cause cracking of plastic components.

- The pump suction and outlet ports have molded-in thread stops. Do NOT attempt to force the hose connector fitting past this stop. It is only necessary to tighten fittings enough to prevent leakage. Tighten fittings by hand. Do NOT over-tighten fittings, or damage may occur. If leaks persist, remove the connector, clean, and reinstall the connector. Change O´ring if neccesary.
- Fittings (elbows, tee valves) restrict flow. For better efficiency, use the fewest possible fittings and avoid those that could cause air traps. Check International Association of Plumbing and Mechanical Officials (IAPMO) standards for fittings.

3.5 Electrical

WARNING - All electrical wiring must conform to local codes, regulation, and the National Electric Code (NEC).

WARNING - Ground and bond the pump before connecting it to the electrical power supply. Failure to properly ground and bond the pump can cause serious or fatal electrical shock hazards. Do NOT ground to a gas supply line. To avoid dangerous or fatal electrical shock, turn OFF power to the pump before working on electrical connections. Fire hazard: Match supply voltage to the pump nameplate voltage. Ensure that the electrical supply available agrees with the pump's voltage, phase, and cycle, and that the wire size is adequate for the amp rating and distance from the power source. Use copper conductors only.

PUMP MODEL	RATED HP	VOLTAGE	AMPS
HydraFlow 075	0.75	115/230	10.0/5.0
HydraFlow 100	1.00	115/230	11.2/5.6

3.6 Grounding and Bonding

1. Install, ground, bond, and wire the pump in accordance with local or national electrical code requirements.

2. Permanently ground the pump. Connect a ground terminal to the electrical service ground.

3.Bond the pump to the pool structure. Bonding connects all metal parts within and around the pool with a continuous wire. Bonding reduces the risk of current passing between bonded metal objects, which could potentially cause electrical shock if grounded or shorted. Reference NEC codes for all wiring standards, including grounding, bonding, and general wiring procedures.

4. Use a solid copper conductor, size 8 AWG or larger. Run the wire from the external bonding lug to the reinforcing rod or mesh. Connect a No. 8 AWG (8.4 mm²) (No. 6 AWG – 13.3 mm² for Canada) solid copper bonding wire to the pressure wire connector provided on the motor housing and to all metal parts of the swimming pool, spa, or hot tub, and to all electrical equipment, metal piping (except gas piping), and conduit within 5 ft. (1.5 m) of the inside walls of the swimming pool, spa, or hot tub.

3.9 Wiring

⚠ **WARNING -** All electrical wiring must conform to local codes, regulation, and the National Electric Code (NEC).

The pump MUST be permanently connected to the circuit. If other lights or appliances are also on the same circuit, be sure to add their amp loads before calculating wire and circuit breaker sizes. Use the load circuit breaker as the master ON/OFF switch.

⚠ **WARNING - Risk of dangerous or fatal electrical shock.** Ensure power to the motor circuit is OFF before working on wiring, wiring connections, or the motor. Reinstall the motor end cover and all wiring covers before turning the power back on.

⚠ **WARNING -** If you do not use conduit when wiring motor, **be sure,** to seal wire opening on end of motor to prevent dirt, bugs, etc., from entering.

Wiring Instructions (Dual Voltage Motor)
Dual-voltage motors can be configured for either 230 volts or 115 volts.

⚠ **WARNING**- All wiring must be performed by a qualified electrician

- **Turn OFF the power supply.**
- **Remove the motor end cover** to access the wiring compartment.
- **Check your power supply voltage:**

  -If your supply is **230 V**, configure the cables according to the 230 V wiring diagram(see Fig. 3.9.1)

  -If your supply is **115 V**, configure the cables according to the 115 V wiring diagram (see Fig. 3.9.1).
- **Reinstall the motor end cover** securely before restoring power.

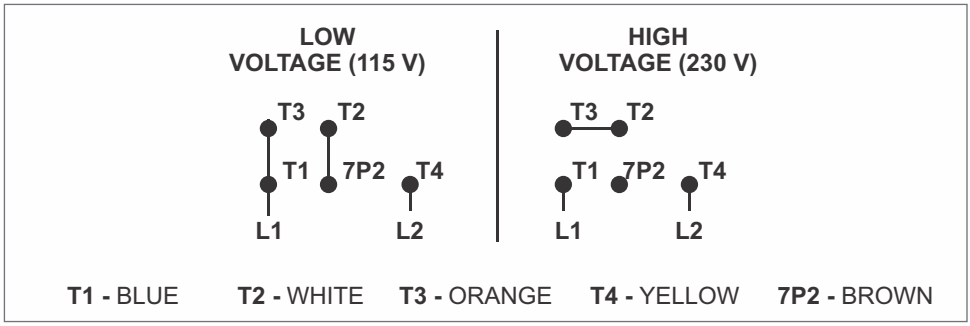


Fig. 3.9.1

⚠ **WARNING -** If you do not use conduit when wiring motor **be sure** to seal wire opening on end of motor to prevent dirt, bugs, etc. from entering.

4. STARTUP AND OPERATION

4.1 Prior to Startup

If it is necessary to perform a water pressure test prior to initial use to ensure the plumbing system is functioning properly, follow these criteria:

1. Have a qualified professional perform the test.
2. Ensure all Seastar pumps and system components are removed from the system before performing the test

⚠ **WARNING -** If circulation equipment must remain in the plumbing system during the test, do not apply more than 10 psi. Release pressure through the filter manual air relief valve before removing the pump strainer cover.

⚠ **WARNING - Separation Hazard -** All suction and discharge valves must be open, as well as the filter air relief valve (if available), when starting the circulating pump system. Failure to do so may result in severe personal injury.

4.2 Starting/Priming the Pump

Pumps with single-speed motors are self-priming up to 8 ft (2,4 m).Pumps with two-speed motors are self-priming up to 8 ft (2,4 m) on high speed only.Steps:Rotate the strainer cover counter-clockwise to remove.**Fill the strainer housing with water to the suction pipe level**. Put back the strainer cover, rotate clockwise, and hand-tighten.If any leakage is detected on the pump or filter, **do not** start the pump. If no leakage occurs, stand at least 10 ft (3 m) away and proceed with starting.

⚠ **WARNING -** Return to filter to close filter manual air relief valve only when steady stream of water (not air or air and water) is discharged from valve. Failure to do so could result in severe personal injury.

⚠ **CAUTION - NEVER. OPERATE THE PUMP WITHOUT WATER**. The pump must never be operated without water. Water cools and lubricates the mechanical shaft seal. Running the pump dry may damage seals, cause leakage or flooding, and will void the warranty. Always fill the strainer housing with water before starting the motor.

⚠ **CAUTION -** Do not add undiluted chemicals directly in front of the pump suction. This may damage the pump and void the warranty.

⚠ **CAUTION -** Before Removing the Strainer Cover follow these steps carefully::

1. STOP the pump before proceeding.
2. CLOSE all valves in suction and outlet pipes.
3. RELEASE ALL PRESSURE from the pump and piping system using the filter's manual air relief valve (see filter owner's manual for details).
4. If the water source is higher than the pump, it will prime automatically when suction outlet valves are opened. If the water source is lower than the pump, remove the strainer cover and fill the strainer housing with water.
5. Clean and lubricate the strainer cover O-ring with a suitable silicone-based lubricant if necessary.
6. Put back the strainer cover on the housing. Rotate clockwise and tighten securely by hand.

NOTE - Tighten strainer cover lock ring by hand only (do not use wrenches).

Turn on the power and wait for the pump to prime. Priming can take up to 15 minutes, depending on the suction lift height and suction pipe length.If the pump does not prime within 15 minutes, stop the motor and determine the cause. Ensure all suction and discharge valves are open while the pump is operating. Refer to the Troubleshooting Guide if needed.

5. MAINTENANCE

- Clean the strainer basket regularly. Do NOT strike the basket to clean it.Inspect the strainer cover gasket frequently and replace if worn or damaged.
- Seastar pumps have self-lubricating motor bearings and shaft seals. No additional lubrication is required.
- Keep the motor clean and ensure motor air vents are free from obstruction. This prevents overheating and damage.Do NOT hose off the motor with water.
- Shaft seals may require replacement over time due to normal wear or damage. Replace only with a genuine Seastar replacement part.

6. STORAGE/WINTERIZATION

⚠ **WARNING - Separation Hazard -**Do not purge the system with compressed air. Doing so may cause components to explode, resulting in severe injury or death. Use only a low-pressure (below 5 PSI), high-volume blower when air purging the pump, filter, or piping.

⚠ **CAUTION-** Allowing the pump to freeze with water in it will void the warranty.

⚠ **CAUTION-** Use ONLY propylene glycol as antifreeze in your pool/spa system. Propylene glycol is non-toxic and will not damage plastic system components; other anti-freezes are highly toxic and may damage plastic components in the system.

Drain all water from the pump and piping when freezing temperatures are expected or when storing the pump for an extended period. (see instructions below). Gravity drain system as far as possible.

Keep motor dry and covered during storages. Do NOT cover or wrap the pump with plastic film or bags, as this can trap moisture and cause condensation or corrosion.

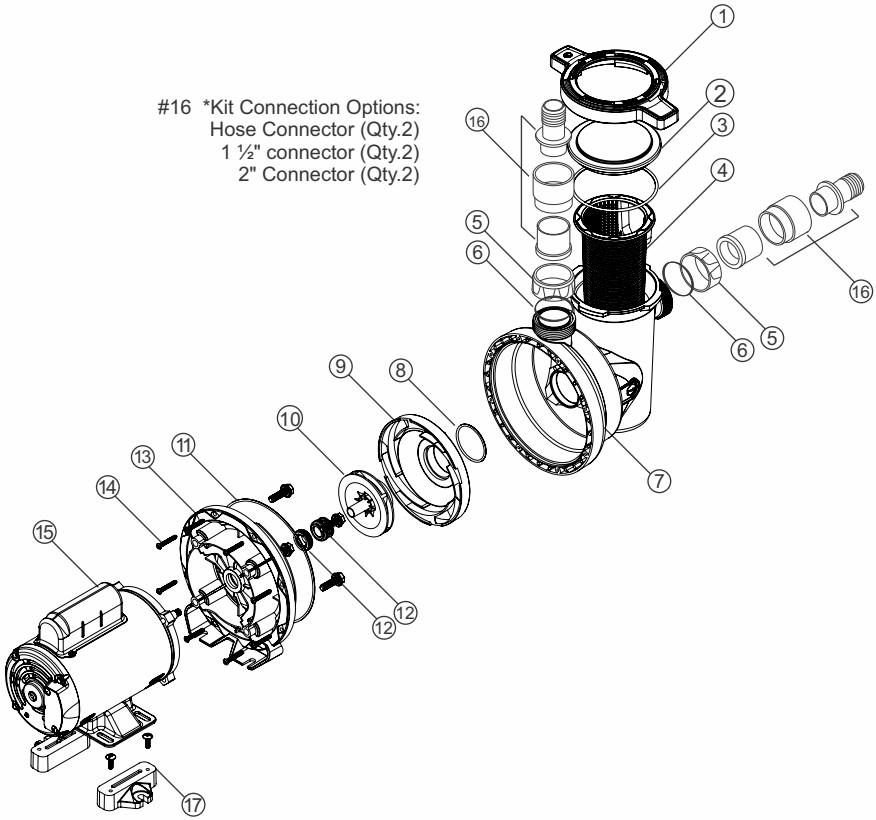
Storing Pump For Winterization

⚠ **WARNING -** To avoid dangerous or fatal electrical shock hazard, turn OFF power to motor before draining pump. Failure to disconnect power may result in serious personal injury or death.

1. Lower the pool water level below all inlets.
2. Remove the drain plugs and the strainer cover from the strainer housing.
3. Remove the pump from the mounting pad, electrical wiring (after power is OFF), and piping.
4. Once the pump is fully drained, reinstall the strainer cover and drain plugs. Store the pump in a dry, well-ventilated area.Keep the motor dry during storage.

7. REPLACEMENT PARTS

7.1 Parts Diagram



7.2 Parts Listing

#	DESCRIPTION	CODE
1	Strainer Cover	5200002
2	Pump Locking strainer ring visor	5200003
3	O´Ring	5210009
4	Pump Strainer Basket	5200004
5	Nut (Qty. 2)	5200005
6	O´Ring #223 (Qty. 2)	52000096
7	Body	5200011
8	O´Ring #222	52000196
9	Difuser	5200007
10	Impeller	5200012/13
11	O´Ring	5220009
12	Shaft Seal	5200014
13	Seal plate	5200015
14	Screws (Qty.16)	5100001
15	Pump motor (3/4 HP or 1 HP)	5200075/5200100
16	Kit Connection Options * (Qty. 6 pieces)	12002060
17	Base	5200016

8.TROUBLESHOOTING

8.1. General Problems

Motor Will NOT Start:

1. Make sure the terminal board connections agree with the wiring diagram on the pump data plate label.
2. Be sure the pump is wired for the available field supply voltage.
3. Check for and correct any improper or loose wiring connections; open switches or relays; tripped circuit breakers, or blown fuses.
4. Manually check rotation of the motor shaft for free movement and lack of obstruction. Correct if necessary.

Motor Shuts OFF:

1. Check for low voltage or power drop at the motor (frequently caused by undersized wiring). Contact a qualified professional to verify the electrical connections and that the voltage is within +/- 10% of the motor nameplate voltage rating.

Motor Hums, But Does NOT Start:

1. Check power supply voltage. Contact a qualified professional if the voltage is more than 10% lower than the motor nameplate voltage rating.
2. Impeller jammed with debris. Have a qualified repair professional open the pump and remove the debris.

Pump Won't Prime:

1. Empty pump/strainer housing. Make sure the pump/strainer housing is filled with water & the cover o-ring is clean. Ensure the o-ring is properly seated in the cover o-ring groove. Ensure the o-ring sealing surface is lubricated and that the strainer cover is locked firmly in position. Lubricant will help to create a tighter seal.
2. Loose connections on the suction side. Tighten the pipe/union connections.

   NOTE: Any self-priming pump will not prime if there are suction air leaks. Leaks will result in bubbles emanating from the return fittings on the pool wall.
3. Leaking O-ring or packing glands on valves. Tighten, repair, or replace the valves.
4. Strainer basket or skimmer basket loaded with debris. Remove the strainer housing cover or the skimmer cover. Clean the basket, and refill the strainer housing with water. Tighten the cover.
5. Suction side clogged. Contact a qualified repair professional.

   a. If the pump develops a vacuum, check for a blocked suction line or a dirty strainer basket. An air leak in the suction piping may be the cause.

   b. If the pump does not develop a vacuum and the pump has sufficient “priming water”:

   i. Re-check the strainer housing cover and all threaded connections for suction leaks. Check if all system hose clamps are tight.

   ii. Check voltage to ensure that the motor is rotating at full rpm's.

   iii. Open the housing cover and check for clogging or obstruction in suction. Check the impeller for debris.

   iv. Remove and replace the shaft seal only if it is leaking.

9.PRODUCT REGISTRATION

Keep this warranty certificate in a secure and accessible location for your records:

The following information should be completed by the installer or user and retained for reference:

DATE OF INSTALLATION:.....

INITIAL PRESSURE GAUGE READING (CLEAN FILTER):.....

PUMP MODEL: .....

To validate this warranty, the product and purchaser must be registered on our website at www.seastarpoolaccessories.com within 30 days of purchase:

10. WARRANTY

Seastar Limited Warranty

To original purchasers of this equipment, Seastar warrants its pumps to be free from defects in materials and workmanship for a period of ONE (1) year from the date of purchase, when used in single family residential applications.

This limited warranty does not cover damage resulting from freezing, negligence, improper installation, improper use, lack of maintenance, or Acts of God. Parts that fail or become defective during the warranty period will be repaired or replaced, at our option, within 90 days of receipt of the defective product, subject to unforeseen delays, at no charge to the customer.

Proof of purchase is required for warranty service. If proof of purchase is not available, the manufacturing date of the product will determine the start of the warranty period.

To obtain warranty service, please contact the place of purchase. For assistance please visit our website at: www.seastarpoolaccessories.com

Seastar is not responsible for transportation, removal, installation, labor costs, or any other expenses incurred in obtaining warranty service or replacements.

This warranty does not apply to components manufactured by other companies. For such products, the warranty established by their respective manufacturer will apply.

This express limited warranty constitutes the entire warranty of Seastar with respect to its pool products and is in lieu of all other warranties, whether expressed or implied, including any warranties of merchantability or fitness for a particular purpose. In no event shall Seastar be liable for consequential, special, or incidental damages of any kind.

Some regions do not allow limitations on implied warranties or the exclusion of incidental or consequential damages. In such cases, these limitations may not apply. This warranty gives you specific legal rights, and you may also have other rights, which vary depending on local laws.

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