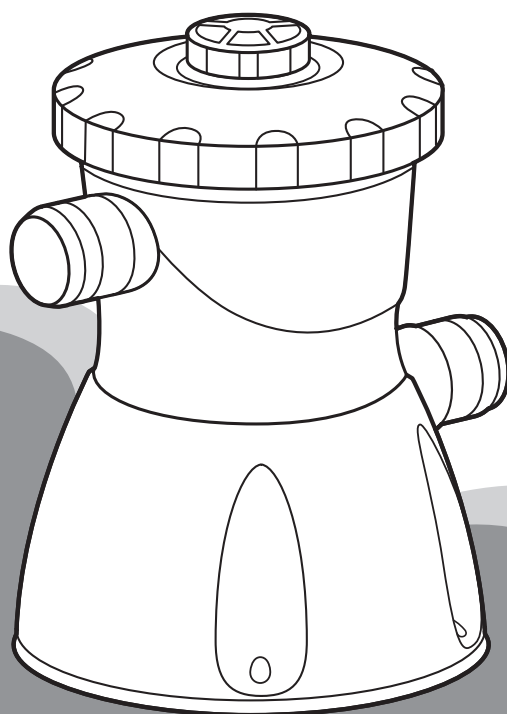


FunSicle®

Cartridge Filter Pump



User Guide

Simple steps to setting up and enjoying your pool pump



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Welcome!

Congratulations on your new Funsicle Cartridge Filter Pump – the easiest way to enjoy constant clean pool water. This guide will walk you through everything from setting up to maintaining and enjoying your filter pump.

As always, we're here to help. For any issues, questions, or extra support, visit funsicle.com/support, or contact Customer Service at 888-670-4FUN (888-670-4386) or HelloFun@Funsicle.com.

Learn more about us at Funsicle.com

Warranty Information

This Funsicle Cartridge Filter Pump is subject to the following warranty, with warranty service provided by Polygroup Services N.A., Inc. (hereinafter "Polygroup" or "PSNA").

Limited Warranty

PSNA is pleased to offer this warranty for the repair or replacement of Electric Filter Pumps for one (1) year from the date of purchase. The provisions of this Limited Warranty only apply to the original purchaser and who purchased from an authorized Polygroup seller. Please keep your original store sales receipt. This proof of purchase will be required and must accompany warranty claims to PSNA or its designated agents. This Limited Warranty also will not apply to modified or repaired products, unless authorized by PSNA in writing; or to products in which non-Polygroup parts or accessories were substituted; or use of the product in contravention of the product's instructions; or when improper voltage was used; or if the product was abused, or harmed through accident or negligence. This Limited Warranty does not cover consequential damages, including, but not limited to, claims for loss of water, pool chemicals, or labor time or costs, normal wear-and-tear; nor to acts of God, nor to damage to any other products or property.

In no event shall Polygroup, its authorized agents, related entities, or employees be liable to the buyer or any other party for direct or consequential damages. This limitation, in part or in full, may not apply to you, if the jurisdiction in which the claim arose does not allow this limitation.

This Limited Warranty is not extended to close-outs, factory seconds, or resold products, such as garage sales or auctions, or purchases from non-authorized sellers of Polygroup products. This Warranty also does not apply to online vendors or any other sellers who did not purchase the products from a Polygroup company, whether the product has been used or not prior to being sold to you. Any issues with items purchased from these types of vendors/sellers will need to be addressed directly with them.

Safety Guidelines





IMPORTANT SAFETY INSTRUCTIONS

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

READ AND FOLLOW ALL INSTRUCTIONS

Keep this User Guide for future reference. Failure to follow these warnings and instructions can result in serious injury or death to users, especially children.

Warnings

⚠ WARNING:			
 <p>PREVENT DROWNING!</p> <ul style="list-style-type: none">• Closely watch children who are in or near this pool.• Children under 5 are at highest risk for drowning.• Do not leave child unattended while in use.• Use only under competent supervision.• Empty the pool or prevent access when not in use.	 <p>NO DIVING!</p> <p>You can break your neck and be paralyzed.</p>	 <p>AVOID ENTRAPMENT!</p> <ul style="list-style-type: none">• Stay away from drains & suction fittings, your hair, body, & jewelry can get sucked into drain. You could be held under water & drown.• Do not use pool if drain or suction outlet cover is missing or broken.	 <p>DO NOT SIT ON OR LAY OVER POOL WALL</p>
Install a pool fence around the pool to prevent children from gaining unauthorized access and drowning. State or local codes may require fencing and other safety measures (not included), such as a pool alarm. Consult local building code officials for requirements.			
Read and follow all safety information and assembly instructions in the User Guide.			

NOTICE: Customers who purchase pools may be required by local or state law to incur additional expenses when installing a pool, in order to comply with state or local laws regarding fencing and other safety requirements. Customers should contact their local building code enforcement office for further details. Polygroup is not responsible for any additional expenses that you may incur.

SAFETY CARE FOR CHILDREN

- Children, especially children younger than five years, are at high risk of drowning. Drowning occurs silently and quickly and can occur in as little as 2 in (5 cm) of water.
- Keep children in your direct sight, stay close, and actively supervise them when they are in or near this pool and when you are filling and emptying this pool.
- When searching for a missing child, check the pool first, even if the child is thought to be in the house.
- Locate pumps and filters in such a way that children cannot climb on them and gain access to the pool.
- **WARNING:** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

SWIMMING POOL BARRIERS

Important:

Swimming pool barriers, which restrict access to the pool by small children, may be required by law. A barrier is necessary to provide protection against potential drowning and near drowning. Barriers are not a substitute for constant supervision of children. Check state or local laws and codes before setting up the pool.

SWIMMING POOL EQUIPMENT

- The use of artificial pool lighting is at the discretion of the pool owner. Lighting, when installed, should be in accordance with Article 680 of the National Electrical Code (NEC®) or its latest approved edition and in consultation with a licensed electrical professional.
- Keep all electrical lines, radios, speakers, and other electrical appliances away from the pool.
- Do not place the pool near or under overhead electrical lines.
- All electrical components installed in and/or adjacent to an above-ground/on-ground residential swimming pool shall be installed in accordance with and shall comply with the requirements of the latest published edition of NFPA 70, National Electrical Code (NEC®) Article 680 "Swimming Pools, Fountains, and Similar Installations", and any state or local code.

FILTER PUMP AWARENESS

- **WARNING:** Risk of electric shock. Connect only to a grounding type receptacle. This product is provided with a ground-fault circuit-interrupter. If replacement of the plug or cord is needed, use only identical replacement parts.
- **WARNING:** To reduce the risk of electric shock, replace damaged cord immediately.
- **WARNING:** To reduce the risk of electric shock, do not use the extension cord to connect the unit to the electric supply; provide a properly located outlet.
- **CAUTION:** To reduce the risk of electric shock, the pool must be installed no closer than 6 feet (1.83 m) from any electrical outlet. Do not place portable appliances closer than 5 feet (1.5 m) to the pool.
- **CAUTION:** This pump is for use with storable pools only. Do not use with permanently-installed pools. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage.
- **CAUTION:** For continued protection against possible electric shock, this unit is to be mounted to the base in accordance with the installation instructions.
- Do not bury the cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers, and other equipment.
- If the pump is equipped with a Ground-Fault Circuit-Interrupter (GFCI), follow the steps below to test the GFCI's leakage protection function:
Plug the GFCI power cord set into the power outlet, make sure the pump is in working mode (i.e. display screen of the GFCI plug IS NOT showing "0"). Press the "TEST" button, the power to the pump should be interrupted by the GFCI and the pump will stop working. Press the "RESET" button to restore the power. If the GFCI fails to interrupt the power to the pump while it is on, the GFCI is defective, so contact Customer Service. If the GFCI interrupts power to the pump without the Test button being pushed, that means a ground current is flowing, indicating the possibility of an electric shock. In this case, stop using the pump immediately, disconnect the pump from the power outlet, and have the problem corrected by a qualified service representative before using the product again.
- The Filter Pump is to be assembled by an adult; care should be taken in the unpacking and assembling of the Filter Pump. This pool may contain accessible potentially hazardous sharp edges or sharp points that are a necessary part of the function of the Filter Pump.

- If a drain or suction outlet cover is missing or broken, do not use the pool. Suction can cause body part entrapment, hair and jewelry entanglement, evisceration, or drowning. Repair or replace the drain or suction outlet cover before allowing the pool to be used. During nighttime pool use, artificial lighting shall be used to illuminate all safety signs, ladders, steps, deck surfaces, and walks.
- The floor of the pool shall be visible at all times from the outside perimeter of the pool.
- Post a list of emergency telephone numbers such as the nearest available police, fire, ambulance, and/or rescue unit. These numbers are to be kept near the telephone that is closest to the pool.
- Basic lifesaving equipment, including one of the following should be on hand at all times:
 - A light, strong, rigid pole (shepherd's crook) not less than twelve feet (12') [366 cm] long.
 - A minimum one-fourth inch ($\frac{1}{4}$ " [6.35 mm] diameter rope as long as one and one half ($1\frac{1}{2}$) times the maximum width of the pool or fifty feet (50') [15.24 meters], whichever is less, which has been firmly attached to a Coast Guard-approved ring buoy having an outside diameter of approximately fifteen inches (15") [38.1 cm], or similarly approved flotation device.
- Pool shall be located at a minimum distance of 6 ft (1.83 m) from any receptacle. All 125-volt, 15- and 20-ampere receptacles located within 20 ft (6.0 m) of the pool shall be protected by a ground fault circuit interrupter (GFCI), where distances are by measuring the shortest path from the supply cord of an appliance connected to the receptacle, without piercing a floor, wall, ceiling, doorway with hinged or sliding door, window opening, or other effective permanent barrier, to the inside pool wall.

CIRCULATION SYSTEMS

- The installer shall follow written instructions regarding positioning of all equipment connected to the circulation systems.
- The installer shall follow written instructions provided for operating the circulation system components.
- All circulation system components and pump that require replacement or servicing shall be installed according to the pump's user guide.
- Circulation equipment shall be installed per manufacturer's instructions to provide proper mounting and support, to prevent damage from misalignment, settlement, and vibration, and to minimize the potential for the accumulation of debris and moisture. Please refer to the pump's user guide.

CHEMICALS

For safety sake, ensure the deepest part of the pool is always visible. The user must properly maintain the clarity of the pool water at all times. Check the pH and chlorine levels periodically and make sure they are within the recommended limits. Additional water treatment chemicals might be needed from time to time. Have the water sample tested by a local pool supply store to determine if additional chemical is needed. Turn on the pump for the recommended hours daily. If you are unsure of the time frames please refer to funsicle.com/support for the recommended Pump Operation Hours based on pool types and sizes. Clean and replace filter cartridge frequently. Replace only with a genuine Polygroup® / Funsicle® Brand filter cartridge. Refer to the Filter Pump User Guide for additional water care information.

RISK OF ENTRAPMENT

- Entrapment Avoidance: There shall be no protrusions or other obstruction in the swimming area, which may cause entrapment or entanglement of the user. If a suction outlet cover is missing or broken, do not use the pool. Suction can cause body part entrapment, hair and jewelry entanglement, evisceration, or drowning. Repair or replace the suction outlet cover before allowing the pool to be used.
- DANGER! TO AVOID SERIOUS INJURY OR DEATH, CLOSE THE POOL OR SPA TO BATHERS IF ANY SUCTION OUTLET COVER/GRATE IS MISSING, BROKEN, OR INOPERATIVE.
- Never play or swim near drains or suction fittings. Your body or hair may be trapped causing permanent injury or drowning.

- Never enter the pool or spa if a suction fitting or drain cover is loose, broken, or missing.
- Immediately notify the pool/spa owner or operator if you find a drain cover loose, broken, or missing.

RISK OF DROWNING

- Keep unsupervised children from accessing the pool by installing fencing or other approved barriers around all sides of pool. State or local laws or codes may require fencing or other approved barriers. Check state or local laws and codes before setting up the pool.
- Toys, chairs, tables, or similar objects that a young child could climb shall be at least four feet (4') [121.92 cm] from the pool. The pump filter system shall be positioned so as to prevent it being used as a means of access to the pool by young children. Do not leave toys inside pool when no longer in use, as toys and similar items might attract a child to the pool.
- Position furniture (for example: tables, chairs) away from pool and so that children cannot climb on it to gain access to the pool.

RISK OF ELECTROCUTION

- Keep all electrical lines, radios, speakers, and other electrical appliances away from the pool.
- Do not place the pool near or under overhead electrical lines.

FIRST AID

- Keep a working phone and a list of emergency numbers near the pool.
- Become certified in cardiopulmonary resuscitation (CPR). In the event of an emergency, immediate use of CPR can make a lifesaving difference.

SPECIAL WARNING

- Local building codes may require obtaining a building or electrical permit. Installer shall follow regulations on setback, barriers, devices, and other conditions.
- Safety signs shall comply with requirements of ANSI-Z535 and use signal wording.
- DO NOT attempt to assemble this pool in adverse weather conditions, windy conditions, or when the temperature is below 60°F.
- This is a storable filter pump, which should be disassembled and stored when temperatures are expected to fall below 32°F.

EXTRA SAFETY WARNING

- Adult supervision is always required.
- Parents should learn CPR.
- Keep all electrical radios, speakers, and other appliances away from the swimming pool.
- When you touch the filter, pump, or electrical parts, be sure the ground under your feet is "Bone Dry."
- All electrical outlets should have a GFCI, and connections should be a minimum of 6 feet (1.83 m) from the outside perimeter of the wall of the pool. From 6–10 feet (1.83–3.05 m), there should be either a fixed connection (outlet box) or twistlock connection with a GFCI.
- Connect power cords to a 3-wire grounding-type outlet only.
- Keep all breakable objects out of the pool area.
- Alcohol consumption and pool activities do not mix. Never allow anyone to swim, dive, or slide under the influence of alcohol or drugs.
- Severe electrical shock could result if you install your pump or filter on a deck. The pump or filter could fall into the water, causing severe shock or electrocution.

- Do not install on a deck or other surface at, above, or slightly below the top rail of the pool.
- Do not use the filter pump during severe weather conditions, i.e. electrical storms, tornadoes, etc.
- Be aware of overhead power lines when vacuuming your pool or using a telescoping pole.
- Check regularly for signs of wear or loose bolts that could make the deck unsafe.
- Please contact pool site dealer or manufacturer for additional safety signs if deemed necessary.
- For pool service, select a certified pool professional. For additional safety information, see www.APSP.org

CONSUMER AWARENESS BOOKLETS AND INFORMATION SOURCE

Contact: U.S. Consumer Product Safety Commission at www.cpsc.gov/safety-education/safety-guides/pools-and-spas, Pub. #362 "Safety Barrier Guidelines for Home Pools."

- The Sensible Way to Enjoy Your Above-ground/On-ground Swimming Pool.
- Children Aren't Waterproof.
- Layers of Protection.
- Pool and Spa Emergency Procedures for Infants and Children.
- Be Safety Aware.

Copies of the above brochures are available free from the APSP at www.APSP.org

SAFETY EDUCATION PROGRAMS AND MATERIALS

Educational programs and materials (i.e. seminars, workshops, brochures, videos, instructional guides) are available from the APSP, other aquatic safety groups, and by private firms. As a means of communicating useful safety information to pool owners/operators and users, industry members are permitted to provide such information to owners/operators and to request or require owners/operators to sign a statement that they have received, read, and will follow the guidelines.

Other sources of safety information:

- cdc.gov
- cpsc.gov
- drowningpreventionalliance.com
- nspf.org
- safekids.org

NSF International

P.O. Box 130140
789 N. Dixboro Road
Ann Arbor MI 481105
Contact: 800-673-6275 or 734-769-8010
nsf.org

ANSI American National Standards Institute

25 West 43rd Street, New York NY 10036
Contact: 212-642-4900
ansi.org

ASTM International (formerly American Society of Testing & Materials)

100 Barr Harbor Drive, P.O. Box C700 West
Conshohocken, PA 19428-2959
Contact: 877-909-2786 (USA & Canada)
or 610-832-9585 (International)
astm.org

APSP Association of Pool & Spa Professionals

(Formerly National Spa and Pool Institute)
2111 Eisenhower Avenue, Ste. 500
Alexandria VA 22314-4679
Contact: 703-838-0083
apsp.org

NEC National Electrical Code (see NFPA)

NFPA National Fire Protection Association
1 Batterymarch Park, Quincy MA 02169-7471
Contact: 800-344-3555 (U.S. & Canada) or
617-770-3000 (International)
nfpa.org

NSPI National Spa and Pool Institute (see APSP)

UL Underwriters Laboratories
333 Pfingsten Road, Northbrook IL 60062-2096
Contact: 877-854-3577 or 847-272-8800
ul.com

ASME American Society of Mechanical Engineers

Two Park Avenue, New York NY 10016-5990
Contact: 800-843-2763 (USA & Canada) or
973-882-1170 (Outside N. America)
asme.org

FILTRATION SYSTEMS

Any equipment connected to the circulation systems shall be positioned so as to prevent their being used as a means of access to the pool by young children. (See the latest published edition of ANSI/APSP-8 Model Barrier Code for Residential Swimming Pools, Spas, and Hot Tubs.)

BARRIER

A barrier is necessary to provide protection against potential drowning and near drowning, and barriers are not a substitute for the constant supervision of children. (See latest published edition of ANSI/APSP-8 Model Barrier Code for Residential Swimming Pools, Spas, and Hot Tubs.)

RISK OF DROWNING, ENTRAPMENT, AND DIVING ACCIDENTS

Publications are available that describe the risk of drowning, entrapment, and diving accidents. Available publications related to pool safety include the Association of Pool and Spa Professionals' (APSP) booklets entitled: The Sensible Way to Enjoy Your Above-ground/On-ground Swimming Pool, Children Aren't Waterproof, Pool and Spa Emergency Procedures for Infants and Children, Layers of Protection, and the latest published edition of ANSI/APSP-8 Model Barrier Code for Residential Swimming Pools, Spas, and Hot Tubs.

INSTALLER RESPONSIBILITIES

All of these components shall be positioned so as to prevent their being used as a means of access to the pool by young children. (See Barrier Code for Residential Swimming Pools, Spas, and Hot Tubs.)

FCC NOTICES

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

WARNING! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

POLYGROUP SERVICES N.A. INC.
303 SW 16th Street, Suite 5, Bentonville, AR, 72712, USA

SAVE THESE INSTRUCTIONS

Before You Begin

Before assembling your filter pump, check the contents and become familiar with all the parts. Review all the following warnings, guidelines and tips before proceeding with setup:

Preliminary Steps

- READ ALL INSTRUCTIONS CAREFULLY and get a thorough understanding of what is required to assemble your Filter Pump.
- It is recommended to have some petroleum jelly (not included) for lubricating the gaskets and o-rings.

IMPORTANT:

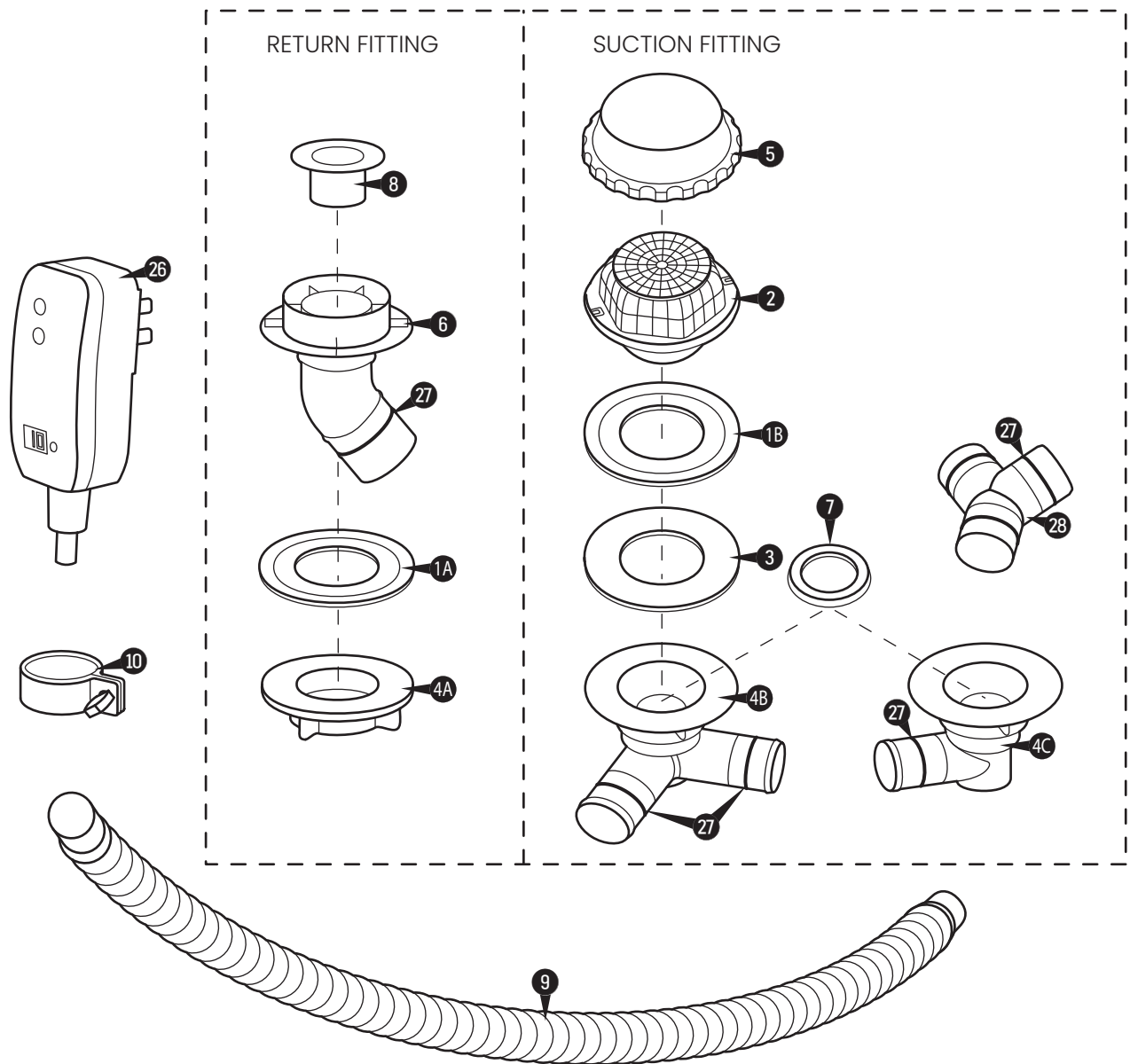
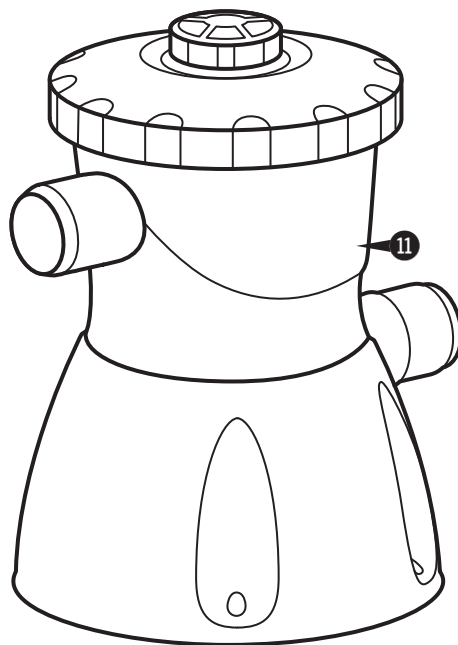
- The installer shall follow the written instructions provided for the operation of the filter pump system.
- All electrical components shall be installed in accordance with Article 680 of the 2017 National Electrical Code® (NEC®) or its latest approved edition.
- DO NOT use this product to dispense powdered chlorine, shock treatment, or any other types of chemicals as this will damage the pump, filter cartridge and pool.
- This Filter Pump is manufactured by Polygroup® and ETL control number 4000608 and 4006317 – double insulated and grounded – 120VAC 60Hz. All units must have a minimum of 105VAC to start and run properly.

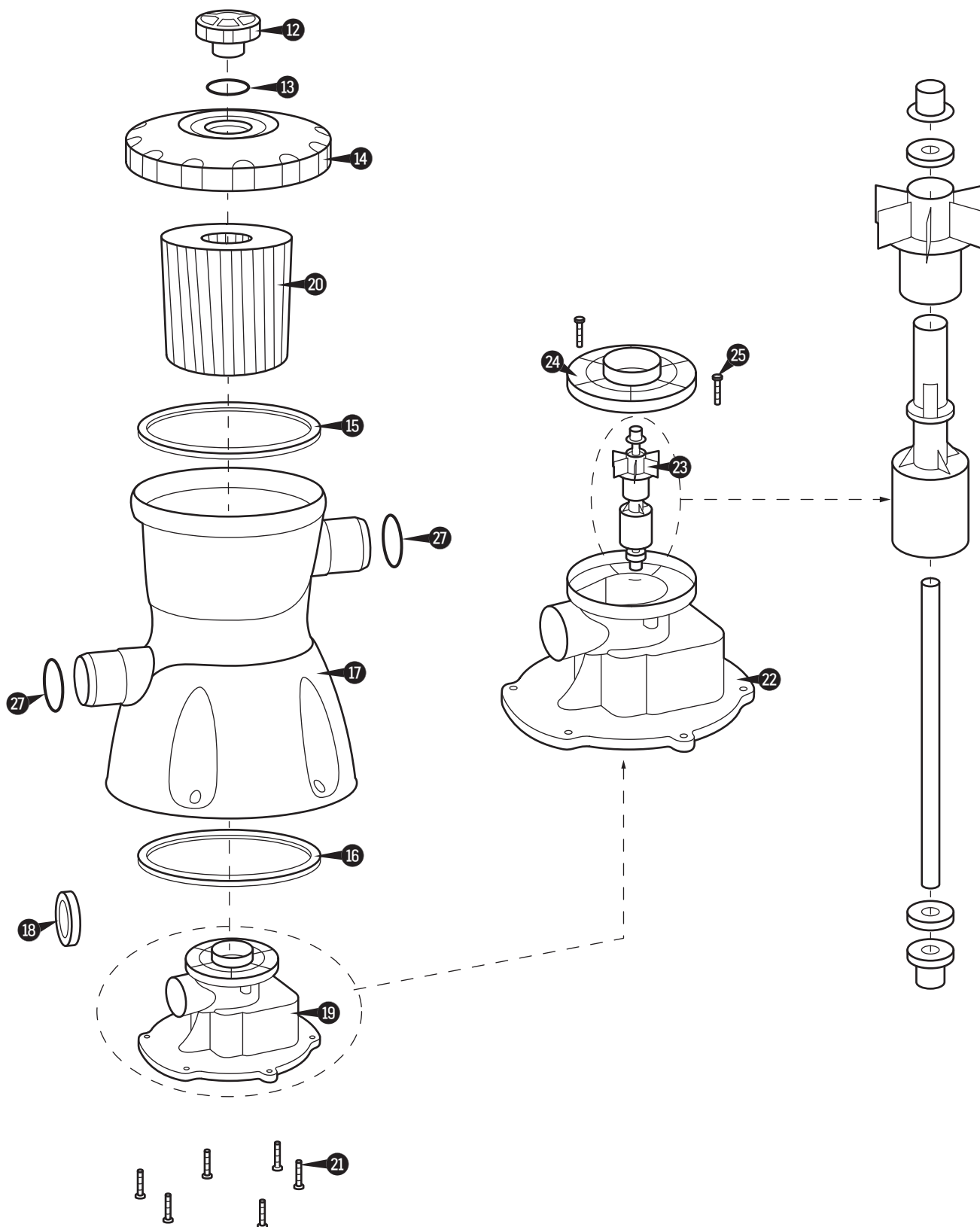
Filter Pump Power Specifications

Model	Voltage & Frequency	Amperage
RX330	120V~ 60Hz	0.65 Amps

Parts List

Item	Parts Name		Qty.	Item	Parts Name		Qty.
1	1A:	Gasket (Outer Diameter: 79 mm)	1	11	Filter Pump Assembly		1
	1B:	Gasket (Outer Diameter: 90 mm)	2	12	Vent Screw		1
2	Suction Fitting (SF)		2	13	Vent Screw O-Ring		1
3	Thrust Washer (Outer Diameter: 89 mm)		2	14	Seal Top		1
4	4A: Return Fitting Lock Nut		1	15	Gasket Top		1
	4B: Split Suction Fitting Lock Nut (for pump included with the pool)		1	16	Canister Gasket / Motor Seal		1
	4C: Solo Suction Fitting Lock Nut (for pump included with the pool)		1	17	Pump Canister		1
	4C: Solo Suction Fitting Lock Nut (for pump sold separately)		2	18	Rubber Nozzle		1
5	SF Cap		2	19	Pump Motor Assembly		1
6	Return Fitting (RF)		1	20	Type I Filter Cartridge		1
7	Lock Nut Seal Ring		2	21	Canister Screw		6
8	RF Service Plug		1	22	Pump Body		1
9	9A:	36" Hose (for pump included with the pool)	3	23	Rotor Assembly		1
		36" Hose (for pump sold separately)	2	24	Volute Cover		1
	9B:	59" Hose (for pump sold separately)	2	25	Volute Cover Screw		2
10	Hose Clamp (for pump included with the pool)		6	26	GFCI Power Cord Set		1
	Hose Clamp (for pump sold separately)		8	27	O-Ring (for pump included with the pool)		6
				28	O-Ring (for pump sold separately)		8
					Y-Shaped Hose Connector (for pump sold separately)		1



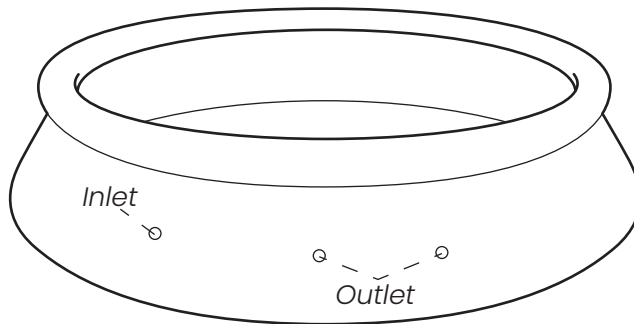


Setting Up the Filter Pump

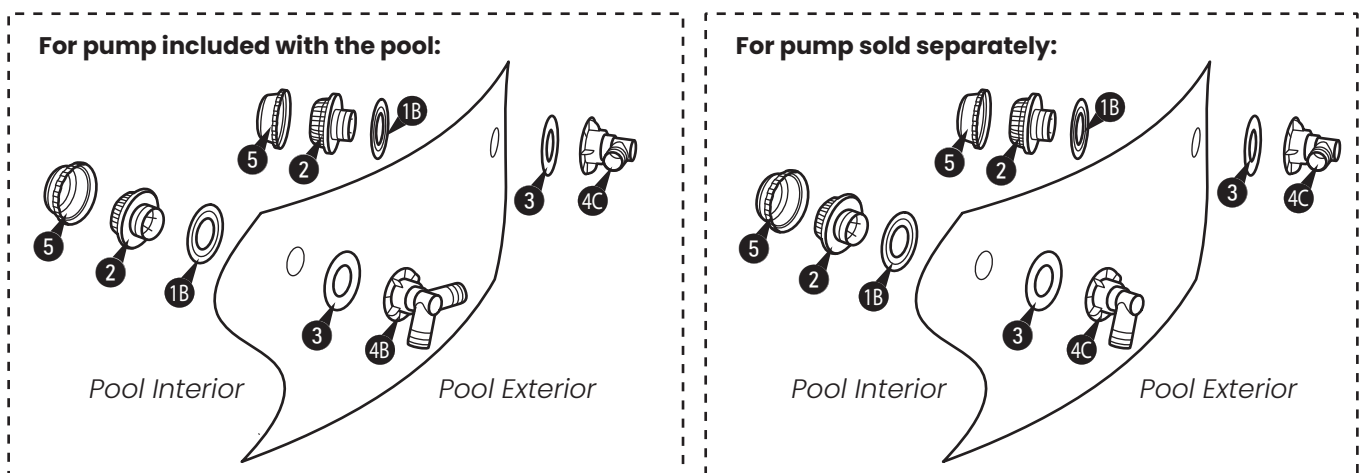
WARNING: Climbing hazard! Please prevent children from climbing on the filter canister to gain access to the pool.

STEP 1: Install the Suction & Return Fittings

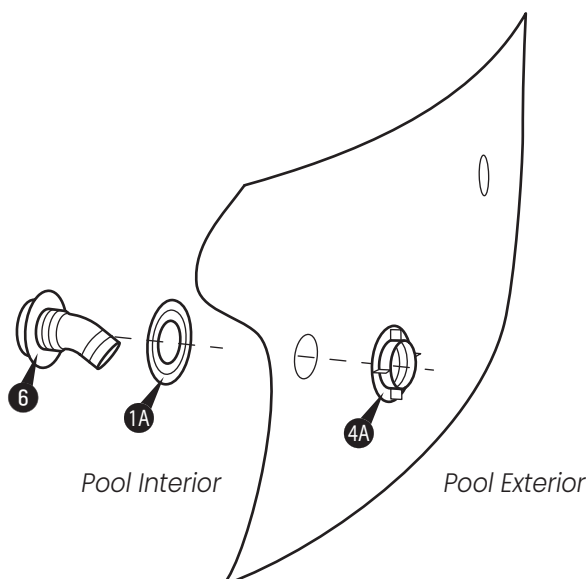
1. Set up your pool following the instructions in the Pool User Guide. DO NOT fill with water until the Filter Pump is properly installed. Locate the Outlet and Inlet openings on the pool wall.



2. Install the Suction Fitting components into the Outlet opening.



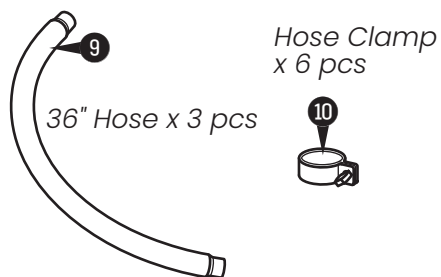
3. From inside the pool, install the Return Fitting 6 into the Inlet opening.



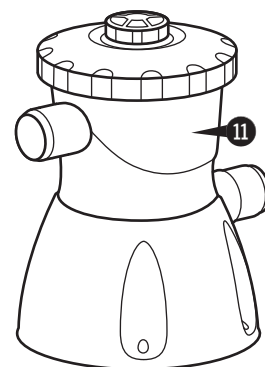
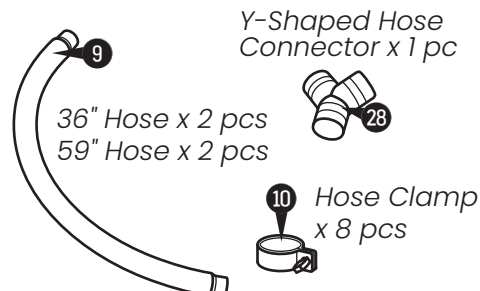
STEP 2: Install the Pump

1. Take out the Filter Pump Assembly 11 and other parts required.

For pump included with the pool:



For pump sold separately:



2. For pump included with the pool:

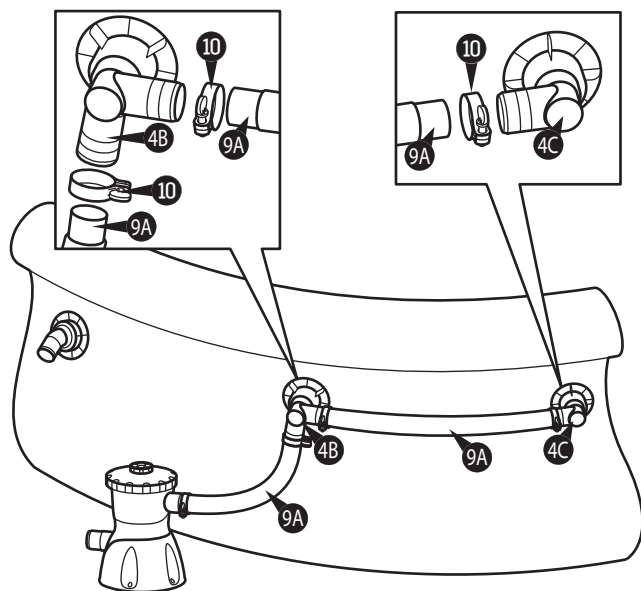
Turn the Split Suction Fitting Lock Nut 4B with one end facing downwards, then connect this end to the Pump inlet with a Hose and one Clamp on each end.

Connect the other end of the Split Suction Fitting Lock Nut 4B to the Solo Suction Fitting Lock Nut 4C with another hose.

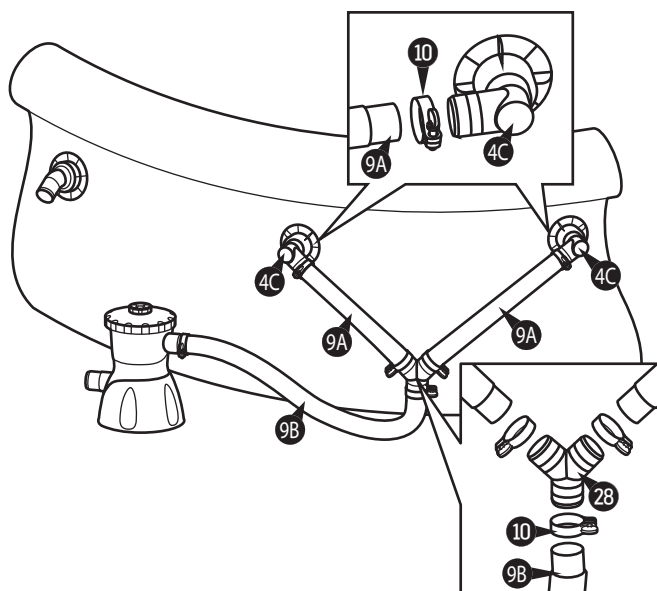
For pump sold separately:

Connect each of the Solo Suction Fitting Lock Nut 4C with one Hose and one Clamp respectively. Then, connect the other end of the two hoses with the Y-Shaped Hose Connector 28. Connect the open end of the Y-Shaped Hose Connector 28 to the Pump inlet with one Hose and one Clamp.

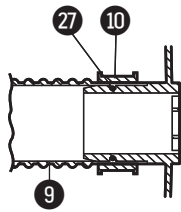
For pump included with the pool:



For pump sold separately:

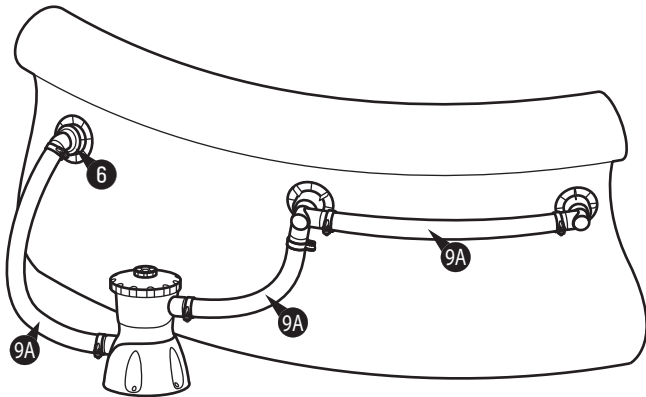


Make sure the Hose Clamps **10** seal tightly over both the Hose **9** and O-Rings **27**.

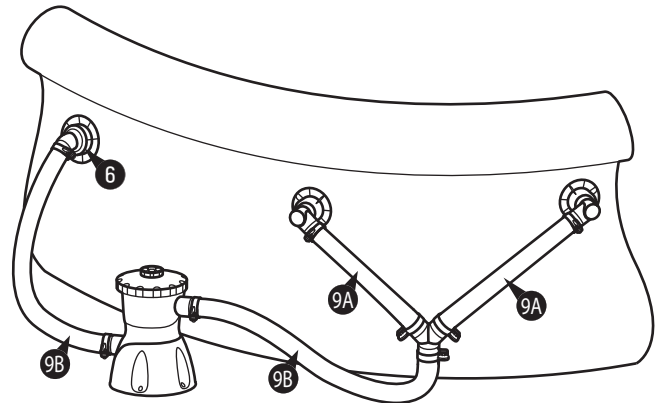


3. Connect the Return Fitting **6** to the Pump outlet with another Hose and one Clamp on each end.

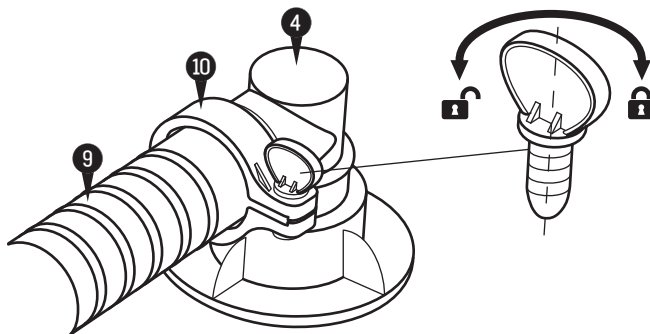
For pump included with the pool:



For pump sold separately:

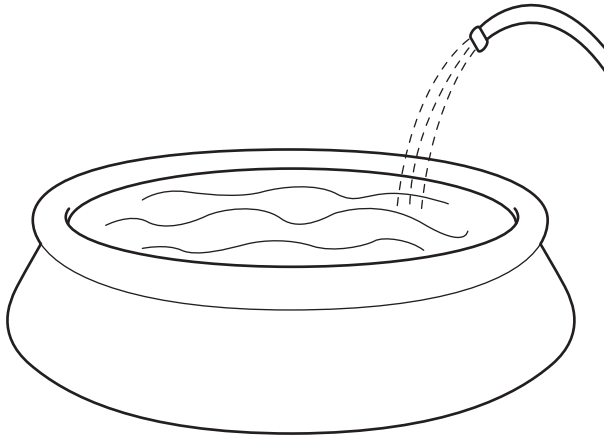


4. Tighten all the Clamps **10** to prevent water leakage.

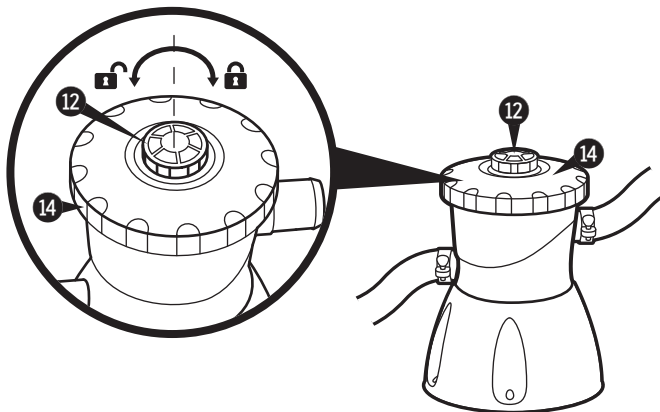


STEP 3: Fill the Pool with Water up to the Fill Line

1. You can now fill the pool with water up to the FILL LINE. DO NOT plug the Pump in at this point.

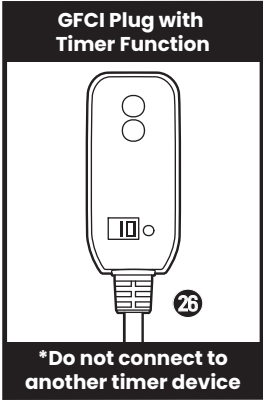


2. **Vent the Pump:** to release the air trapped inside and make sure a smooth water flow, it's important to vent or depressurize the Pump before each use. Simply twist counterclockwise to loosen the Vent Screw 12, and the water pressure will force all the trapped air out. Retighten the Screw when water starts flowing out.



Using the Pump

1. Locate a grounded receptacle at least 15 feet (4.5 m) away from the pool.
2. To turn on the Pump, plug in the **GFCI power cord set** 26 to the power outlet.
3. The **GFCI power cord set** 26 comes with a pre-set timer function.
 - a. **Default timer setting:** When the power is on, the display screen shows "10", indicating that the default operating time of the pump is 10 hours. The pump will automatically turn off after the 10 hours and will remain off for 14 hours. This is based on a 24-hour cycle. This cycle will then continue as long as the power is on.
 - b. **Time adjustment:** Press the "SET" button to set the desired operating time of the pump between 1 to 10 hours, with each press adjusts the time by 1 hour. For example, when the display screen on the plug shows "05", the pump will work for 5 hours and restart after a 19 hours break.
 - c. If the display screen shows "0", it indicates that the pre-set working time has ended and the pump is currently off.
 - d. To restart the pump earlier than the pre-set time, press the "SET" button. In this case, the pre-set working time will adjust by 1 hour from the previous setting.
4. To turn off the pump, press the "TEST" button of the GFCI Plug, and unplug it from the power outlet. If you accidentally press the "TEST" button while the pump is working, you can press the "RESET" button to restore the pump to work.



Description of GFCI Plug with Timer Function	
	<p>"RESET" button:</p> <ul style="list-style-type: none">• When the display screen shows a number between "01" to "10", but the pump is not operating (e.g. the "TEST" button is pressed while the pump is working), press the "RESET" button to restore the pump to work.• When the display screen shows "0" and the pump has stopped working, pressing the "RESET" button will have no action.
	<p>"TEST" button:</p> <ul style="list-style-type: none">• To test the GFCI's leakage protection function: Plug the GFCI power cord set into the power outlet, make sure the pump is in working mode (i.e. display screen of the GFCI plug IS NOT showing "0"). Push the "TEST" button, the power to the pump should be interrupted by the GFCI and the pump will stop working.• When the display screen shows "0" and the pump has stopped working, pressing the "TEST" button will have no action.
	<p>"SET" button:</p> <ul style="list-style-type: none">• Press the "SET" button to select the desired operating time of the pump between 1 to 10 hours, with each press adjusts the time by 1 hour.• If the display screen shows "0", press the "SET" button will restart the pump. In this case, the pre-set operating time will be adjusted by 1 hour from the previous setting. <p>NOTE: If you find the time interval available for selection is less than 10 hours, it could be the memory setting from the previous cycle. Disconnect the power supply of the GFCI plug and reconnect again, and it will revert back to the default 10 hours range.</p>
	<p>Display Screen:</p> <ul style="list-style-type: none">• Shows "01", "02" ...to "10" to represent the pre-set working time when the GFCI power cord set is plugged into a power outlet.• Shows "0" when the pump is in off mode.

5. From inside the pool, check if the water flow from the Return Fitting **6** is correct. It should feel like a solid stream of water returning to the pool. If not, or if you feel a reduction in flow, refer to Problem 2 of the **Troubleshooting Guide (p. 24)** for possible solutions.
6. **IMPORTANT:** Check and adjust the pH and chlorine levels daily. FILTER PUMP ALONE WILL NOT PREVENT ALGAE FROM GROWING IN POOL WATER; THIS CAN ONLY BE DONE BY MAINTAINING PROPER CHLORINE AND pH LEVELS AT ALL TIMES. For details, see **Caring for Your Pool (p. 20)**.

Pump Motor Care

IMPORTANT! This Cartridge Filter Pump is protected by a thermal switch, a safety device that stops the pump from running when it is overheated, to prevent damage to the pump and prolong its service life. If your pump turns off automatically, it's likely the pool water temperature is too high or the water flow through the pump is insufficient for cooling down the pump. Check and correct the water flow, and let the motor cool down for at least 15 minutes. The pump will restart automatically after the motor is completely cooled down. If the display screen of the GFCI plug shows "0", press the "SET" button to restart the pump. You could also operate the pump at night when the temperature is lower. If the pump turns off automatically again, inspect if the rotor is blocked by dirt.

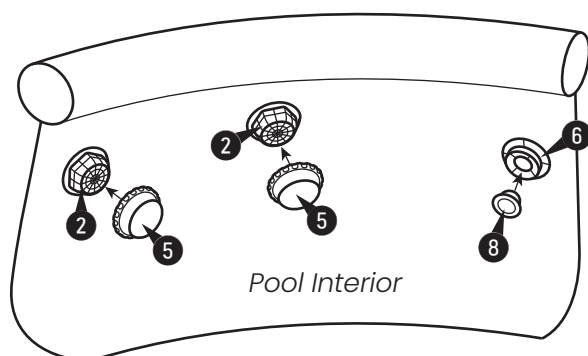
Maintaining the Pump

- Check the pump output daily. If water flow reduces, see Problem 2 of **Troubleshooting Guide (p. 24-25)**.
- Check the Pump, Hoses and Fittings for leaks. If a leak is found, see Problem 4 of **Troubleshooting Guide (p. 24-25)**.
- It's essential to replace any damaged parts as soon as possible. Use only spare parts from approved, reliable dealers, or from **funsicle.com**
- Inspect the filter and all filter media regularly to ensure that there's no build-up of detritus that prevents good filtration. See **Best Practices for Using Filter Cartridge** below.
- Run the Pump for the recommended number of hours daily. If you are unsure of the time frame, please see Pump Operation Hours at **funsicle.com/support**.

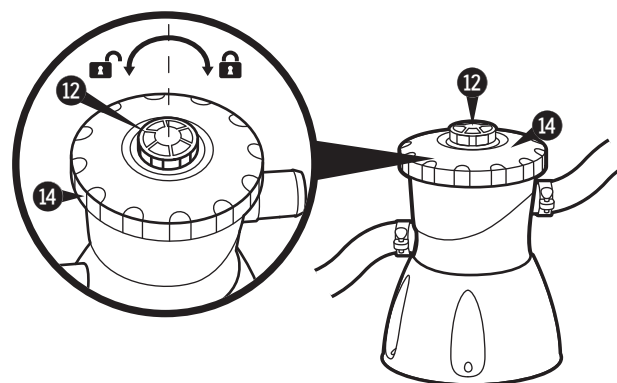
Best Practices for Using Filter Cartridge

1. To clean the Filter Cartridge **20** :

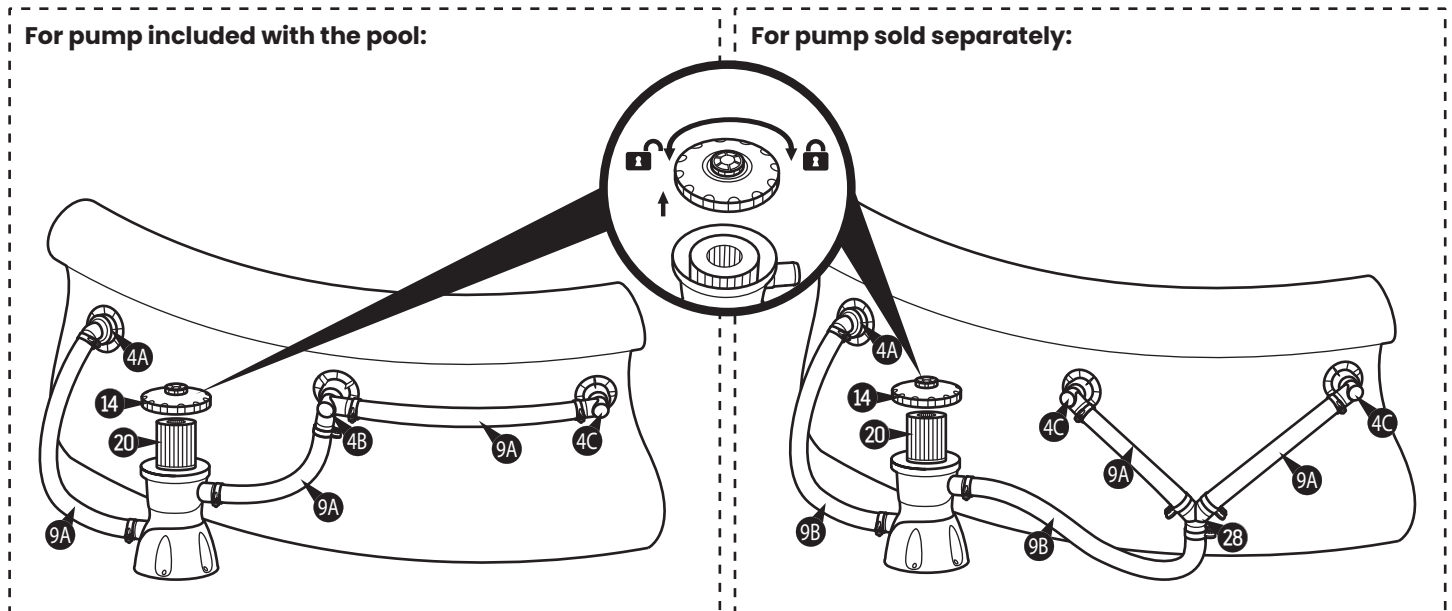
- a. Unplug the Pump from the power outlet.
For the Suction Fitting **2** : seal it with the SF Cap **5**. For the Return Fitting **6** : seal it with the Service Plug **8**.



- b. Vent the Pump **11** by twisting the Vent Screw **12** counterclockwise. (**See STEP 3 of "Setting Up the Filter Pump", p. 16**)



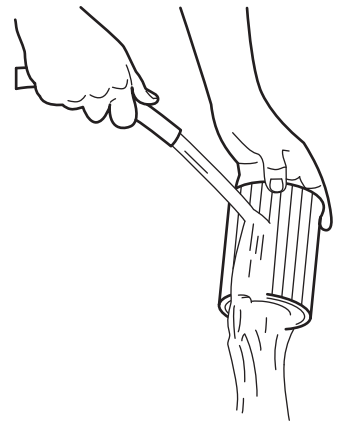
c. Using both hands, twist counterclockwise to remove the Seal Top 14.



d. Take the Cartridge out, pressure wash it thoroughly (including between the pleats) with a garden hose to remove larger debris. Allow to dry, then carefully brush away smaller and fine particles of dirt. Do NOT scrub the pleats, or the Cartridge will wear out faster than it should. To ensure pool water stays clean, please clean the filter cartridge every day and change when required.

e. Take the Canister Gasket 15 out and lubricate it liberally with petroleum jelly.

f. Re-assemble the parts in reverse order. Before restarting your Pump, make sure that you've removed the SF Cap 5 and Service Plug 8.



2. A spare "stand-by" Cartridge is an excellent investment. You may need to clean or replace the Filter Cartridge when it's dirty, or before the correct chlorine and pH levels are attained. Also, a clean, well-maintained cartridge assures that your Pump will always be ready to operate at peak efficiency.
3. Suntan oils, body oils and algae can quickly build up and clog the pleats of the Cartridge, reducing the filtration efficiency. Therefore, it is imperative to remove such films of oils and/or algae.
To remove oils: mix 1 pound of tri-sodium phosphate (TSP) or any other strong detergent and 5 gallons of water, and soak the Cartridge for 12 hours.
To remove oils AND algae: same as above, and add ½ pint of pool chlorine or 1 pint of liquid household bleach to the solution ONE HOUR BEFORE removing the Cartridge from the solution. Thoroughly rinse the Cartridge before reusing it.
4. Excessive calcium and/or mineral deposits may also build up in the Cartridge, and requires to be handled differently. Contact and consult your local pool supplies store for solutions/treatment, and maintain an adequate pH level of pool water (see **Caring for Your Pool**, below).
5. Dispose of any used filter media in accordance with applicable regulations/legislation.
6. Always use genuine Fungicle Filter Cartridges; they are available at where you purchased your pool or from **fungicle.com**

Caring for Your Pool

- The following items are required to get your pool ready for use. They are available at **funsicle.com** or your local pool supplies stores:
 - a. **Test kit** – for checking the chlorine and pH levels of the pool water
 - b. **Floating chlorine dispenser (not included) and chlorine tablet** – for water disinfection and prevention of the growth of algae
 - c. **pH control chemicals** – for adjusting the pH level up (soda ash) or down (acid)
 - d. **Algaecides** – to eliminate algae
 - e. **Superchlorinator** – to destroy (“shock”) the combined chlorine, ammonia, nitrogen, and organic compounds that build up in pool water over time and with extended use
 - f. **Leaf net with handle** – for removing leaves, trash, insects, etc. from the pool
 - **IMPORTANT:** it is a MUST to maintain the chlorine and pH levels at all times:
 - a. Check and adjust the pH and chlorine levels daily. FILTER PUMP ALONE WILL NOT PREVENT ALGAE FROM GROWING IN POOL WATER; THIS CAN ONLY BE DONE BY MAINTAINING PROPER CHLORINE AND pH LEVELS AT ALL TIMES.
 - b. **Recommended pH level:** between 7.3 and 7.8
 - c. **Recommended chlorine level:** between 1.0 ppm and 1.6 ppm
 - d. Superchlorinate your pool at least every other week.
 - e. Hot weather and heavy use may require the pH and chlorine levels to be maintained on the upper side of the scale as well as a weekly superchlorination.
 - f. Using a pool and/or solar cover will help maintain the pH and chlorine levels by reducing evaporation of pool water.
 - g. **CAUTION:** High chlorine concentration and low pH level will damage the pool/pool liner. You must follow the instructions on quantity and safe usage of the pool chemicals you use. **NEVER** drop lumps or pellets of chemicals into the pool – this may present a hazard to the swimmers and/or damage your pool liner.
 - Clean your pool regularly with a garden-hose-powered vacuum from Polygroup® or any pool supplies stores.
 - Using a foot bath prior to entering the pool will help keep the pool clean.
 - Avoid using well water. If you must use well water, always seek professional advice from your local pool chemical suppliers before adding ANY chemicals into it.
 - Find out the water capacity (in gallon) of your pool. You will need it to determine the amount of chemicals required, or when you contact a pool supplies expert for water testing and advice on safe use of chemicals.
- NOTE:** Always follow the manufacturer label directions of the chemicals you choose to use.

Disassembling & Storing Pump

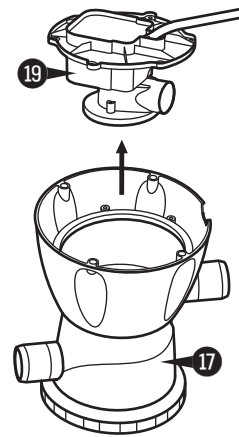
1. Unplug the Pump from the power outlet.
2. For the Suction Fitting ② : seal it with the SF Cap ⑤.
For the Return Fitting ⑥ : seal it with the Service Plug ⑧.
3. Vent the Pump by slowly loosening the Vent Screw ⑫.
4. Loosen all four Hose Clamps ⑩, detach both the Hoses ⑨, and drain any remaining water.
5. Clean and dry all parts, including the Cartridge.
6. Liberally lubricate the Vent Screw O-Ring ⑬ and Gasket Top ⑮ with petroleum jelly. Then reassemble them with the Vent Screw, Seal Top and Canister.
7. Put all the parts into an airtight plastic bag, and store in a dry place that remains above 32°F (0°C) at all times.

Servicing the Pump

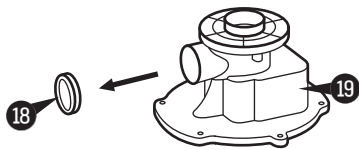
The most efficient way to troubleshoot or replace the Pump is to remove the entire Pump Motor Assembly 19. The Motor consists of a Rotor Assembly 23 and its related parts. If any of its parts is/are broken, or if it is not seated in place between the Volute Cover 24 and the Pump Body 22, the Rotor will not function properly even in perfect condition.

STEP 1: Remove the Motor Assembly

1. Unplug the Pump from the power outlet.
For the Suction Fitting 2 : seal it with the SF Cap 5.
For the Return Fitting 6 : seal it with the Service Plug 8.
2. Vent the Pump by slowly loosening the Vent Screw 12.
3. Detach the Hose Clamps 10 and Hoses 9 attaching to the Pump inlet and outlet.
4. Turn the Pump upside down, and remove the Canister Screws 21.
5. Take out the Motor Assembly 19.



6. Remove the Rubber Nozzle 18. Be careful not to lose it.

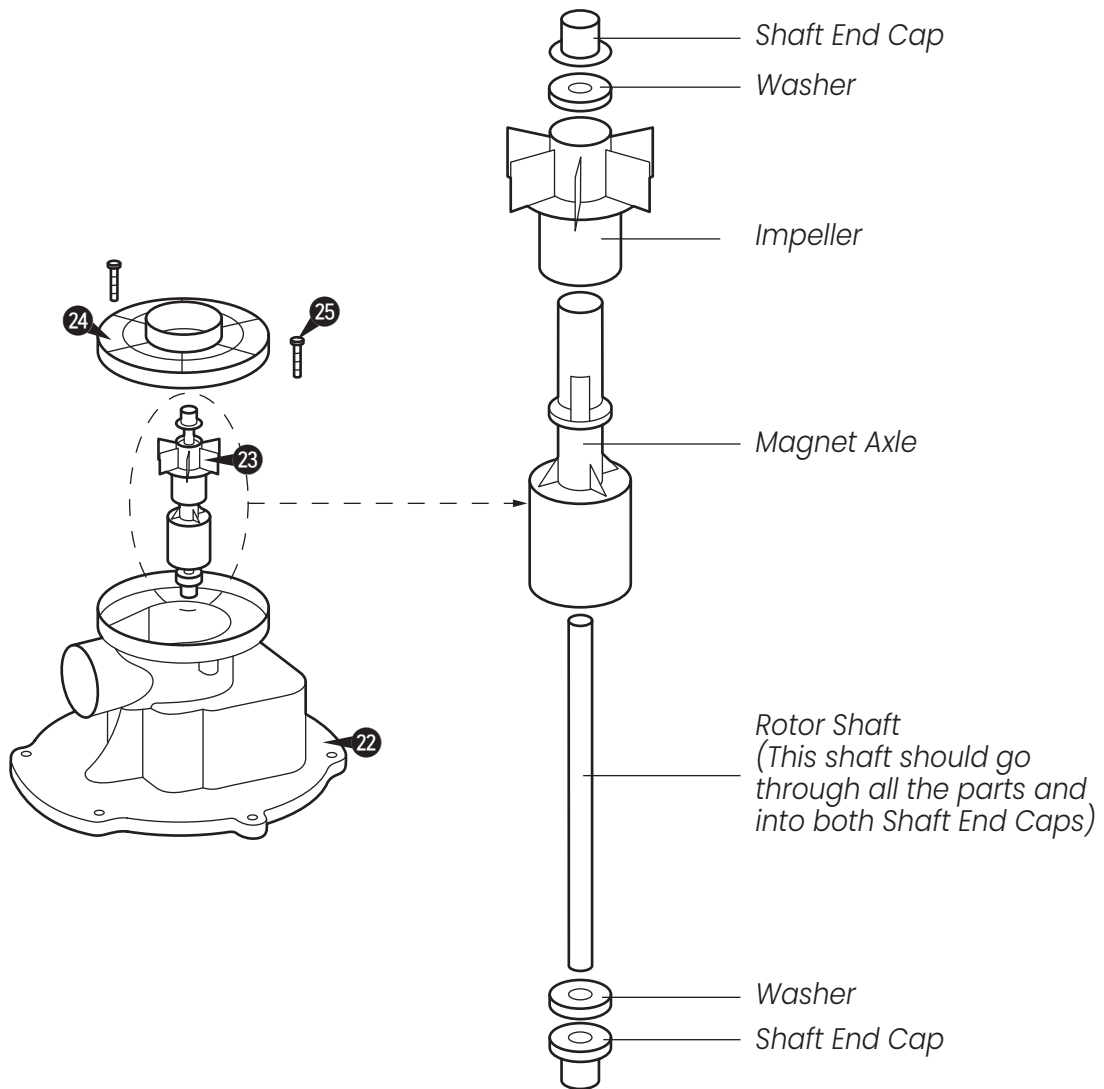


STEP 2: Inspect or Replace the Rotor

1. To take out the Rotor Assembly 23, simply remove the Volute Cover Screws 25 and pull it out from the Pump Body 22.
2. Inspect the Rotor (see image below) to make sure that the Rotor Shaft, Magnet Axle, Impeller and other parts are intact. If either of them is broken, you can purchase a new Rotor Assembly from **funcsicle.com** without having to replace the whole Pump.

For more details, please see Pool Support – Filtration System Troubleshooting – RX System at **funcsicle.com/support**

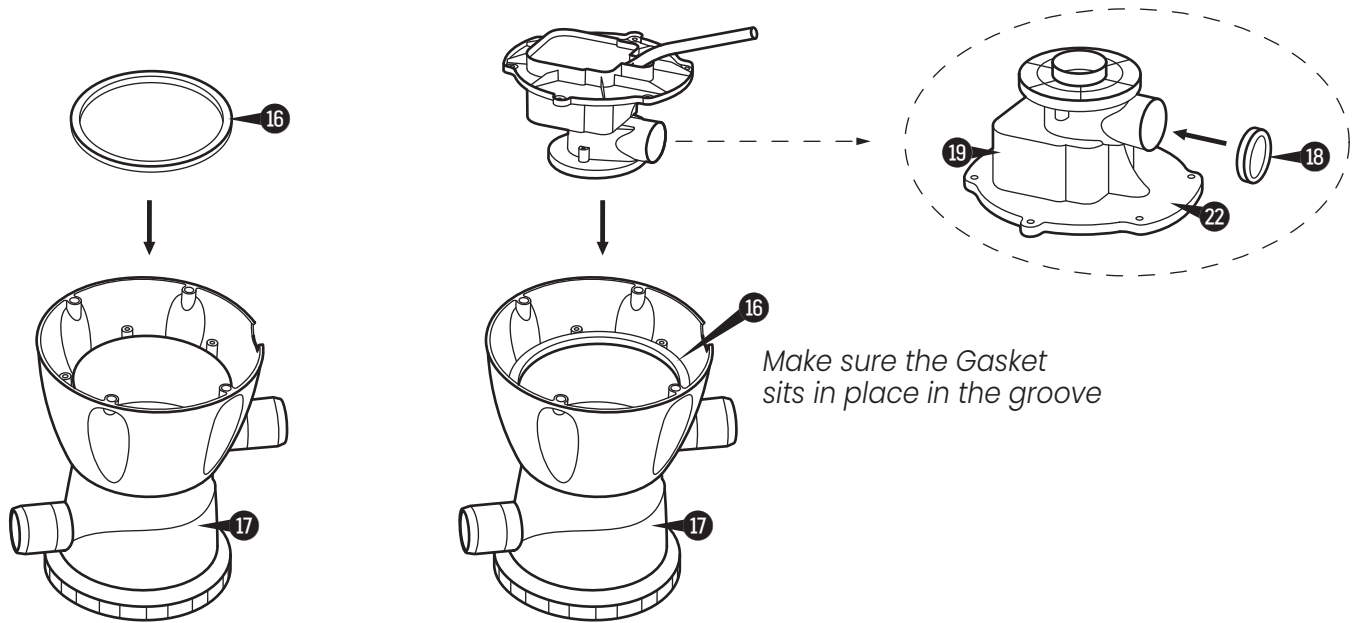
Rotor Assembly Parts



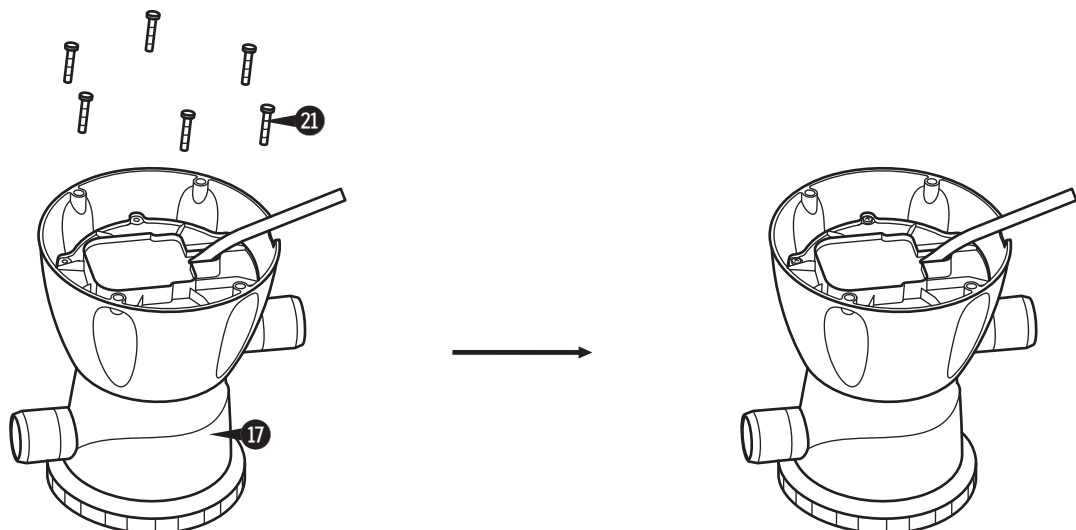
3. Once the inspection or replacement is done, carefully insert the Rotor Assembly back into the Pump Body. The force of the magnet will pull the Rotor down in place.
4. Align the Volute Cover with the top Shaft End Cap, then tighten with the Volute Cover Screws.

STEP 3: Replace or Reassemble the Pump

1. Lubricate the Canister Gasket **16**, then insert it back into the groove at the bottom of the Canister **17**.
2. Attach the Rubber Nozzle **18** to the outlet of the Motor Assembly **19**.



3. Slowly insert the Motor back into the Canister.
4. Tighten the Canister Screws **21**.



Troubleshooting Guide

Problem	Cause	Solution
1. Motor 19 doesn't start, or kicks on and off	A. Not plugged in	A. Plug the GFCI Power Cord Set 25 to a 3-wire grounded power outlet. Then press the RESET button to restart it.
	B. GFCI Power Cord Set 25 and/or circuit breaker tripped	B. Reset your circuit breaker on the electrical panel. If problem persists, have the circuit checked by a qualified electrician.
	C. Low voltage	C. Check and make sure the line voltage is between 105V and 125V.
2. No or slow water flow from the Return Fitting 6	A. Low pool water level	A. Fill the pool to the FILL LINE. The Suction Fitting 2 must be at least 4" under water.
	B. Clogged inlet/outlet	B. Check for obstructions at the Filter Cartridge 20, Suction Fitting 2 or Return Fitting 6.
	C. The Filter Cartridge 20 is too dirty	C. Clean or replace the Cartridge following the steps of Best Practices for Using Filter Cartridge (p. 18) .
	D. Motor Rotor block by dirt	D. Refer to " Servicing the Pump (p. 21) " section to clean dirt.
3. Pump is not cleaning the pool properly e.g. cloudy/green water	A. Inadequate chlorine level	A. Maintain the chlorine level between 1.0 and 1.6 ppm.
	B. Inadequate pH level	B. Maintain the pH level between 7.3 and 7.8
	C. The Filter Cartridge 20 is too dirty	C. Clean or replace the Cartridge following the steps of Best Practices for Using Filter Cartridge (p. 18) .
	D. The Filter Cartridge 20 is damaged	D. Inspect the Cartridge for holes or tears. If it's visibly damaged, replace it with a new one.
	E. Water flow is slow	E. Check for obstructions at the Filter Cartridge 20, Suction Fitting 2 or Return Fitting 6.
	F. Other chemicals required	F. Have your pool water sample tested by a pool supplies store. You may need to add other chemicals since water quality varies in different localities.
	G. Pool water is too dirty	G. Chemicals are essential to keep the pool water clean. Clean the pool and filter more often.

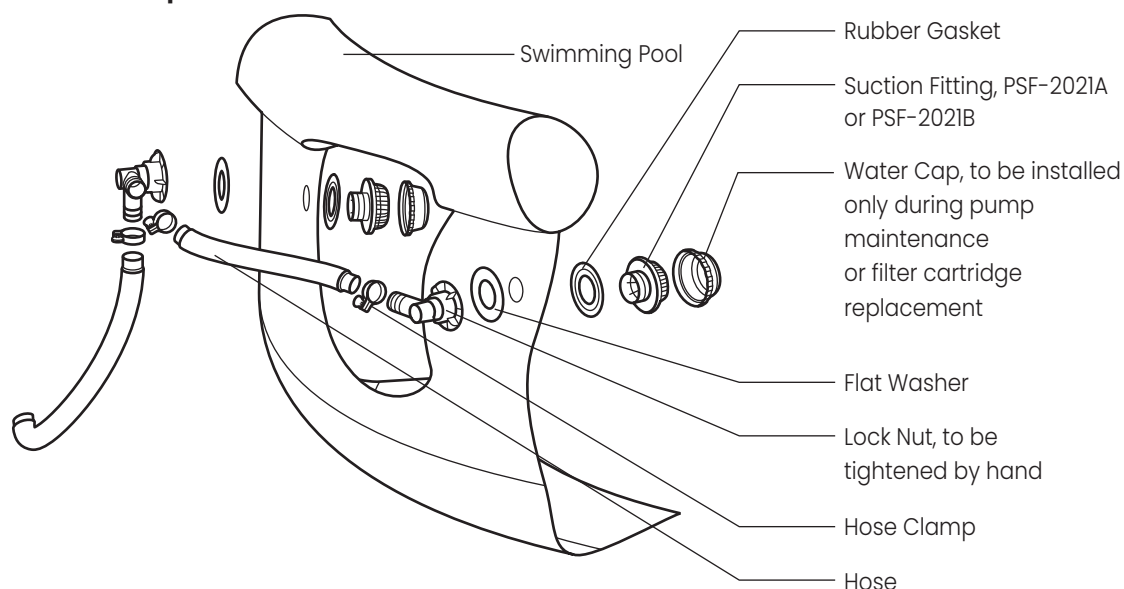
Problem	Cause	Solution
4. Water leakage at	A1. The connection between the Suction Fitting ② & the Suction Fitting Lock Nut (4B / 4C)	<p>A1. Check the connection between Suction Fitting ② and the Suction Fitting Lock Nut (4B / 4C). If a loose or unbalanced connection is found, re-tighten the Suction Fitting ② with the Suction Fitting Lock Nut (4B / 4C), make sure they are screwed tightly.</p> <p>Note: Water may still drip out from the connection after the lock nut is re-tightened. There could be water trapped within the connection of the lock nut from before. Simply let the residue water drip out. This may take a few hours for the connection to be completely dry.</p>
	A2. The connection between the Suction ② / Return fittings ⑥ and the Hose ⑨	A2. Check that the Hose Clamps ⑩ are properly secured over both the Hoses ⑨ and their O-rings ⑳; adjust and re-tighten if necessary. Also, check the Hoses for cracks or holes and replace as needed.
	B. Vent Screw ⑫	B. Check the Vent Screw O-Ring ⑬ for damage and replace as needed. Also retighten the Screw.
	C. Seal Top ⑭	C. Check the Canister Gasket ⑮ for damage and replace as needed. Also retighten the Seal Top.
	D. Pump Body ㉒	<p>D1. Check the Canister Gasket ⑮ for damage and replace as needed.</p> <p>D2. Check that the Gasket sits correctly in the groove at the bottom of the Canister ㉑.</p>

Asme Compliant Suction Fitting Information

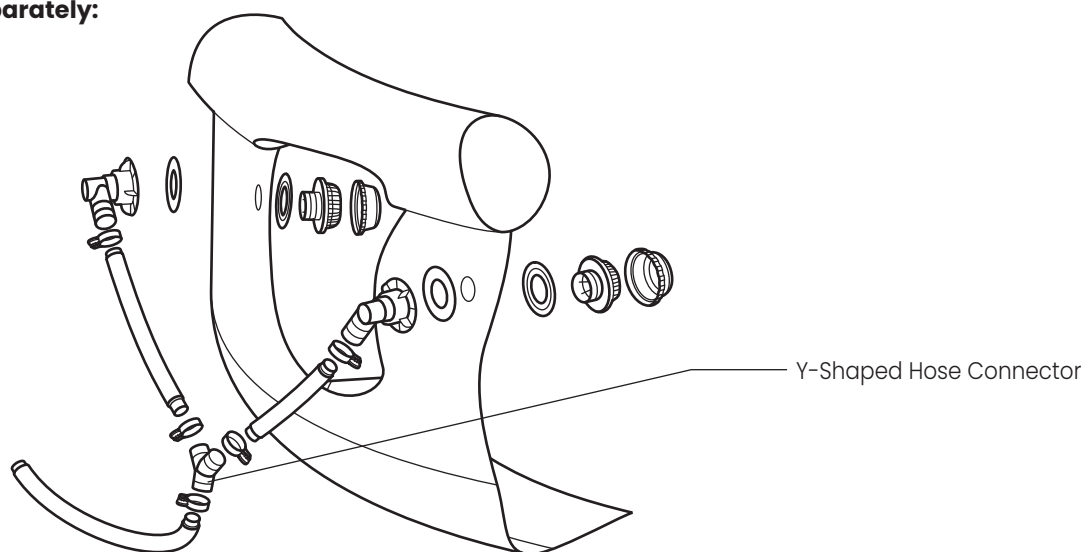
PSF-2021A and PSF-2021B Suction Outlet Fitting (For Aboveground Pool)

- PSF-2021A and PSF-2021B Suction Outlet Fittings are certified by IAPMO in accordance with the ASME/ANSI/APSP/ICC-16 2017 **Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs.**
- This is a submerged suction outlet fitting for use with aboveground swimming pool.
- For dual drain only. TWO outlet fittings are used for each pump.
- Do not locate these suction outlet fittings on sitting areas or on the backrest for such seating area.
- Install this outlet fittings at location recommended by the pool manufacturer. Maximum height 1.8 m from the ground.
- The maximum allowable flow rate of PSF-2021A is 28 gallons per minute (1,680 gallons per hour) and PSF-2021B is 34 gallons per minute (2,040 gallons per hour).
- Connection hose:
 - a. Model PSF-2021A is to be connected with 1 ¼" (31.8mm) diameter hose.
 - b. Model PSF-2021B is to be connected with 1 ½" (38.1mm) diameter hose.
- The suction outlet fitting is to be mounted at the suction outlet fitting opening as specified by the manufacturer of the aboveground pool. The diameter of this opening should be within the range of 1.875" (47.625mm). Refer to the following diagram for detailed assembly instructions:

For pump included with the pool:



For pump sold separately:



- PSF-2021A or PSF-2021B Suction Outlet Fitting is to be replaced every 3 years.
- No tool is required for installation.
- Service & winterizing instructions:
 - a. CAUTION! DO NOT EXCEED THE MAXIMUM ALLOWABLE FLOW RATE: 28 gallons per minute (1,680 gallons per hour) for PSF-2021A and 34 gallons per minute (2,040 gallons per hour) for PSF-2021B.
 - b. Carefully observe and inspect the suction outlet fitting for damage and tampering. Missing, broken or cracked suction outlet fitting must be replaced before each use of your pool.
 - c. Loose suction outlet fitting should be reattached or replaced before each use of your pool.
 - d. Remove and store the suction outlet fitting assembly if temperatures are expected to fall below 32°F (0°C).

Important Information about Suction Outlet Fitting Assembly (SOFA)

WARNING! This is a BLOCKABLE VGBA Suction Outlet that must ONLY be installed in a multiple VGBA Suction Outlet system.

- When installing and using this equipment, basic safety precautions shall always be followed, including the following: IMPORTANT SAFETY INSTRUCTIONS.
- READ, FOLLOW, AND UNDERSTAND ALL INSTRUCTIONS AND WARNINGS.
- Any modification that increases the flow rate of the circulation system shall require reevaluation of the cover/grate and sump to ensure that the flow rating of the Suction Outlet Fitting Assembly (SOFA) is not exceeded.
- All SOFA components must be replaced in every 3 years.
- According to Section 6.2.2 of «ANSI/APSP/ICC-16 2017», the Suction Outlet Fittings of this pump are categorized as blockable type.
- Any field modifications made to a SOFA not authorized by the manufacturer's installation instructions shall void the SOFA certification.
- No modification shall be made to a SOFA structure or flow path unless the new configuration has been certified as new SOFA.
- Cover/grates and all other SOFA components shall be replaced at or before the end of their service life (3 years) and that service life begins the month and year in which a SOFA component is installed with or without water.
- Cover/grate, including fasteners, shall be observed for damage or tampering each operational day.
- Missing, broken, or cracked cover/grates shall be replaced before bathers are allowed to use the pool.
- Loose cover/grates and associated components shall be reattached before bathers are allowed to use the pool.
- SOFA components and fastener receptacles shall be clean and free of debris or obstructions during installation of cover/grate and fasteners.
- It is required to hand-check cover/grate for snugness to the sump/frame after installation.
- Regular visual and hand-check of SOFA components is required to ensure there is no color change, cracks, deformation, missing parts or components with pieces broken off. Replace the SOFA if there is color change, cracks, deformation, missing parts or broken pieces.
- The General Certificate of Conformity (GCC) is available at the following website: www.funsicle.com.

Installation Requirements and Limitations for Suction Outlet Fitting Assembly (SOFA)

- All SOFAs shall be installed in accordance with the manufacturer's installation instructions, or for RDP SOFAs, in accordance with the registered design professional's engineering plans.
- No modification shall be made to a SOFA structure or flow path unless the new configuration has been certified to the original SOFA.
- The performance-based flow ratings for all SOFA(s) are tested with standard «ANSI/APSP/ICC-16 2017». These flow limits are designed to prevent suction entrapment.
- Compliance with this standard requires that these SOFA-configuration specific flow ratings NOT be exceeded at any time the pool is open to bathers.
- Compliance with this standard requires selecting and installing a SOFA, or combination of SOFAs, such that the resulting individual suction system flow rating is greater than the pumping system's maximum system flow rate.
- The flow rating for pools with multiple, blockable SOFAs piped together in one body of water without isolation valves shall be determined by combining the flow rating of all SOFAs, minus the flow rating of one. If the flow ratings of all SOFAs are not equal, subtract the flow rating of the SOFA with the highest flow rating. SOFAs are not intended for single application and are not unblockable. Flow rating: PSF-2021A: 28 GPM; PSF-2021B: 34 GPM.
- The cover/grate for this pump is "For Use in Storable Pool Only". The cover/grates, when installed, shall not protrude more than 2 inches (51 mm) from the finished surface of the pool in which the SOFA is installed.
- When used in multiple-outlet systems, cover/grates marked blockable shall be arranged such that the two outermost sumps/frames shall have a minimum separation of three feet, measured center-to-center. If they are to be installed closer than three feet center-to-center, they shall be located on two different planes, i.e., one SOFA shall be located on the pool floor, and one shall be located on a vertical wall, or one SOFA shall be located on each of two separate walls.
- The Suction Outlet Fitting Assembly (SOFA) has been certified to the consumer product safety rule applicable to SOFAs, which is covered in the Virginia Graeme Baker Pool and Spa Safety Act «ANSI/APSP/ICC-16 2017».

Dear Funtastic Customer,

Thank YOU for choosing one of our Funsicle products. We're on a mission to inspire the world to play more outdoors, which is why we design products that capture the summertime spirit of imagination, connection and fun.

It's important to us that you have the BEST experience with this product, and we're excited for you to make some happy outdoor memories.

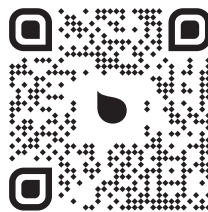
Need a helping hand? Use the contact info on this page to reach us.

Once again, we thank you for placing your trust in us. Happy swimming and playing!

- Your friends, the Funsicle Team

CONTACT US

We're here to help! For answers to common questions, setup videos and troubleshooting tips, visit funsicle.com/support or scan the QR code.



DO NOT RETURN PRODUCT TO STORE.

If you encounter any issues with your Funsicle product, do not return it to the place of purchase. Contact CUSTOMER SERVICE:

Phone: 888-670-4FUN (888-670-4386)

Email: HelloFun@Funsicle.com

WARRANTY

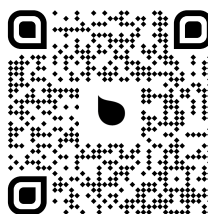
For warranty information, visit funsicle.com/warranty.

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