

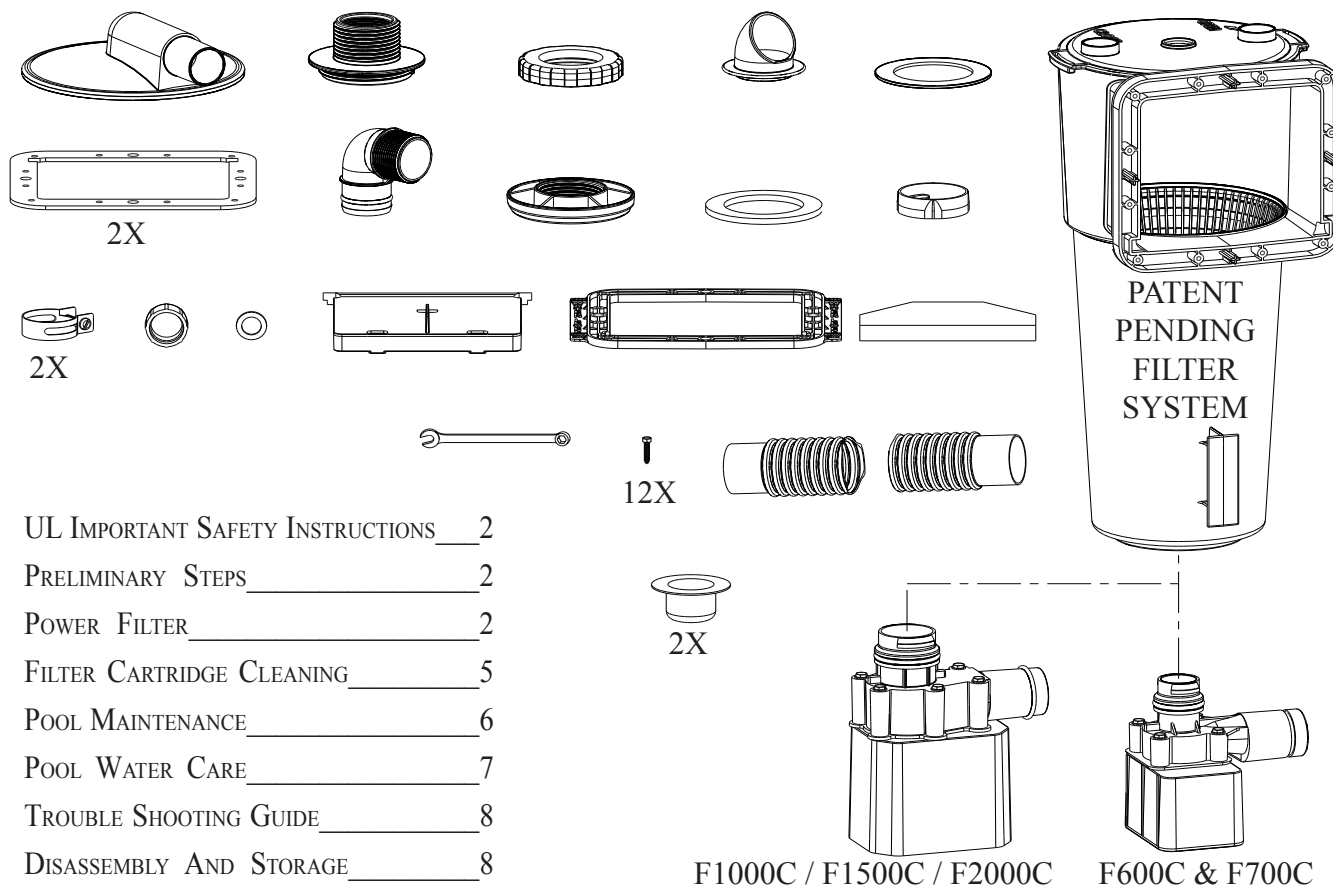
DISTRIBUTED BY: POLYGROUP LIMITED (MCO)

Avenida Xian Xing Hai, Edificio Zhu Kuan, 11 Andar M, Macau

Customer Service Representative: General Foam Plastics Corporation

(800) 813-0206 • www.GENFOAM.com

SFS TYPE SWIMMING POOL FILTER SYSTEM OWNER'S MANUAL FOR ABOVE GROUND QUICK SET® SWIMMING POOLS



UL IMPORTANT SAFETY INSTRUCTIONS	2
PRELIMINARY STEPS	2
POWER FILTER	2
FILTER CARTRIDGE CLEANING	5
POOL MAINTENANCE	6
POOL WATER CARE	7
TROUBLE SHOOTING GUIDE	8
DISASSEMBLY AND STORAGE	8
PARTS & ACCESSORIES	9
NOTES	10

ATTENTION CUSTOMER: STATEMENT OF LIMITED WARRANTY

Polygroup Limited (MCO) warrants to the original purchaser only, the SFS Type Power Filter against defects in material and workmanship, as follows:

- 1) Polygroup Limited (MCO) warrants to the original purchaser, the SFS Type Power Filter against defects in material and workmanship for 180-days from the date of purchase. Original Purchaser must retain proof of such purchase in the form of a store sales receipt and must produce such upon request by Polygroup Limited (MCO) or its customer service representative, General Foam Plastics Corporation at (800) 813-0206.
- 2) You should first consult the Trouble Shooting guide for a simple solution, page #8. If still unable to correct the situation, please contact customer service representative General Foam Plastic's customer service at (800) 813-0206. Do not return your pool or parts to the place of purchase. A knowledgeable customer service representative will assist you in resolving the problem and arrange replacement of defective parts, if needed.

If the unit is found to have been consumer damaged or abused, it is not covered by the limited warranty. If this is the case, you will be advised of the cost of replacement part(s), or the need to return damaged part(s) for warranty replacement.

WITH GFCI - 2011

084-120839



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

1. **READ AND FOLLOW ALL INSTRUCTIONS**
2. **WARNING** - To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times by an adult who is capable of assisting a child in distress.
3. **WARNING** - Risk of electrical 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.
4. **WARNING** - To reduce the risk of electrical shock, replace damaged cord (with pump body) immediately. NEVER bury cord. Locate cord to eliminate abuse or contact from lawn mowers, hedge trimmers, and other equipment. NEVER use an extension cord to connect unit to electric supply; provide a properly located outlet.
5. **CAUTION** - The power filter is for use with storable pools only. DO NOT use with permanently installed pools. A storable pool is constructed so that it may be 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 so that it cannot be readily disassembled for storage.
6. The unit is provided with a ground-fault circuit-interrupter (GFCI). To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the pump without the test button being pushed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this pump. Disconnect the pump and have the problem corrected by a qualified service representative before using.

7. **SAVE THESE INSTRUCTIONS.**

PRELIMINARY STEPS

1. **READ ALL INSTRUCTIONS CAREFULLY** and get a thorough understanding of what is required to assemble your Type SFS Power Filter.
2. Before you begin to assemble the pool, identify, count, and check all parts needed for assembly. Refer to the "PARTS LIST AND ACCESSORIES", Page #9, under the quantity column for your size pool.
3. It is recommended that you have some PETROLEUM JELLY on hand for lubricating the gaskets

POWER FILTER

IMPORTANT NOTES:

1. Installer shall follow written instructions provided for operation of the circulation systems.
2. All electrical components shall be installed in accordance with Article 680 of the National Electrical Code (NEC) "Swimming Pools, Fountains and Similar Installations" or its latest approved edition.
3. The Filter Cartridge (9) 3-3/4" will hold as many as 2 of the 1" diameter chlorine tablets and the 8" will hold as many as 6 of the 1" diameter chlorine tablets. Check your chlorine levels to determine the proper number of chlorine tablets to add. The filter cartridge will automatically dispense chlorine into the pool as the pump runs. **You must have the type of Filter Cartridge (9) with a central core mesh divider (See page 3) to use the chlorine dispenser. DO NOT use this to dispense powdered chlorine, shock treatment or any other type of chemicals as damage to the pump, filter cartridge, and pool will occur.**
4. These Skimmer Filter Systems are manufactured by Dongguan Polyfilm Plastics Products Co. Ltd. and UL Listed (file #E307476) - double insulated and grounded - 115 V.A.C. - 60 Hz. (Unit must have a minimum of 105 V.A.C. to start and run properly.) The units' wattage and capacity is as follows:

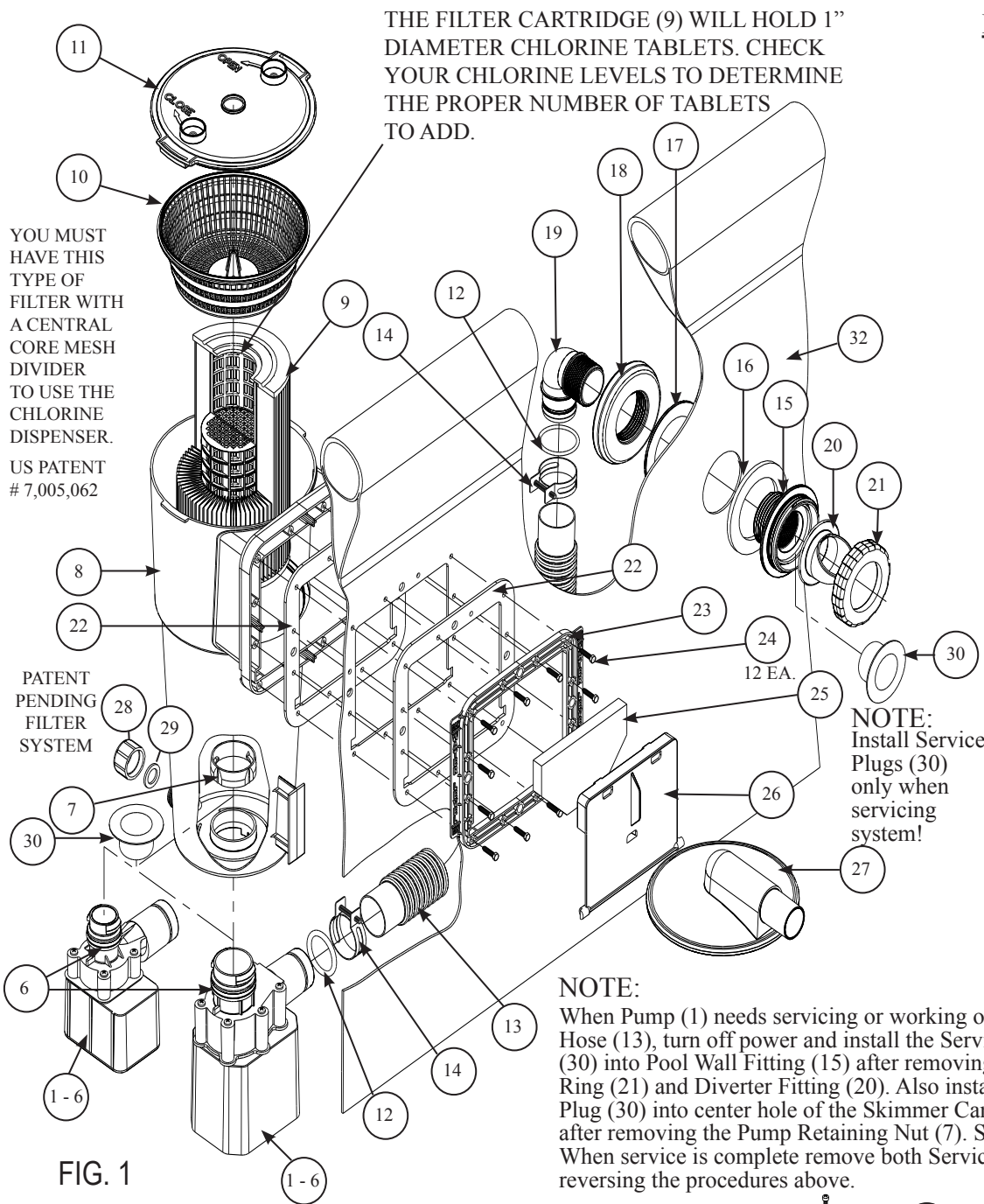
SFS600 Filter System with F600C Pump	46 watts	0.8 amps	580 G.P.H.
SFS600 Filter System with F700C Pump	57 watts	1.1 amps	780 G.P.H.
SFS1000 Filter System with F700C Pump	57 watts	1.1 amps	780 G.P.H.
SFS1000 Filter System with F1000C Pump	80 watts	2.2 amps	1075 G.P.H.
SFS1000 Filter System with F1500C Pump	120 watts	2.0 amps	1500 G.P.H.
SFS2000 Filter System with F2000C Pump	210 watts	2.2 amps	2000 G.P.H.

THE FILTER CARTRIDGE (9) WILL HOLD 1" DIAMETER CHLORINE TABLETS. CHECK YOUR CHLORINE LEVELS TO DETERMINE THE PROPER NUMBER OF TABLETS TO ADD.

YOU MUST HAVE THIS TYPE OF FILTER WITH A CENTRAL CORE MESH DIVIDER TO USE THE CHLORINE DISPENSER.

US PATENT # 7,005,062

PATENT PENDING FILTER SYSTEM



KEY DESCRIPTION

1	PUMP BODY W/CORD
2	ROTOR ASSEMBLY
2A	MAGNET AXLE
2B	IMPELLER
2C	SHAFT
2D	THRUST WASHERS
2E	SHAFT END CAPS
3	PUMP GASKET
4	VOLUTE HOUSING
5	PHILLIPS HEAD SCREWS
6	O-RING
7	PUMP RETAINING NUT
8	SKIMMER CANISTER
9	FILTER CARTRIDGE
10	STRAINER BASKET
11	LOCK TOP
12	O-RING
13	RETURN HOSE
14	HOSE CLAMP
15	POOL WALL FITTING
16	GASKET
17	THRUST WASHER
18	NUT
19	ELBOW 90°
20	DIVERTER FITTING
21	LOCKING RING
22	GASKET
23	FACE PLATE
24	HEX HEAD SCREWS
25	WEIR FOAM
26	WEIR
27	VACUUM ADAPTER
28	DRAIN CAP
29	SEAL GASKET
30	SERVICE PLUGS
32	POOL WALL

NOTE:
Install Service Plugs (30) only when servicing system!

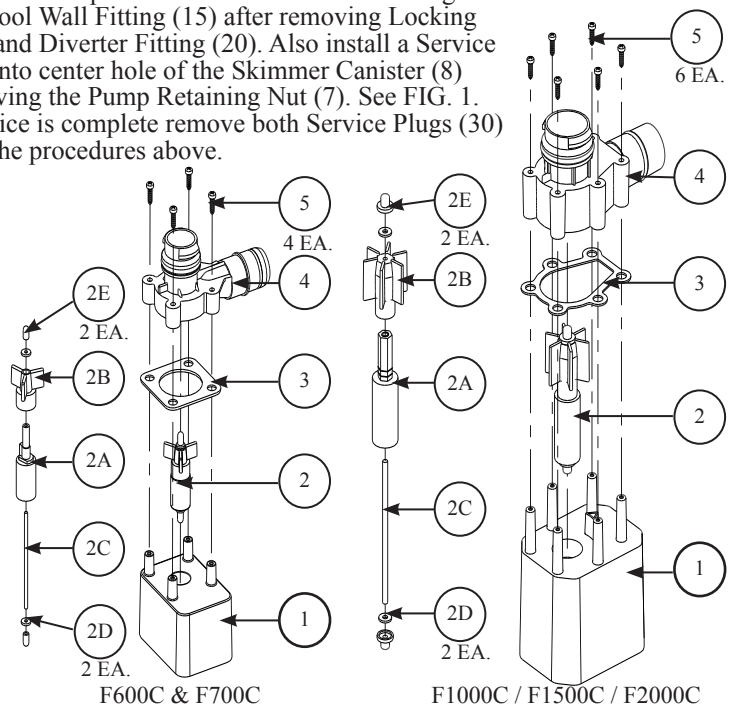
NOTE:

When Pump (1) needs servicing or working on Return Hose (13), turn off power and install the Service Plug (30) into Pool Wall Fitting (15) after removing Locking Ring (21) and Diverter Fitting (20). Also install a Service Plug (30) into center hole of the Skimmer Canister (8) after removing the Pump Retaining Nut (7). See FIG. 1. When service is complete remove both Service Plugs (30) reversing the procedures above.

FIG. 1

IMPORTANT! Your pump is protected by a thermal overload. This device senses the temperature of the pump and if it is getting too hot, it will open the electric circuit and the pump will stop running until it cools off some. It will automatically turn back on when it has cooled down enough. This is a safety device to help prevent excessive pump damage.

If your pump is doing this, it is because of high pool water temperature and/or high air temperature and/or low water flow thru the pump. If this happens you need to check water flow thru the filter and correct it if needed. This pump uses the water flow for cooling. You may also want to run the pump at night when the temperature is lower.



F600C & F700C

F1000C / F1500C / F2000C

Should you encounter any problems, contact the Customer Service Representative/Parts Department at (800) 813-0206 from 8 AM to 5 PM Mon. thru Fri. EST. Extended operating days and hours during peak season requirements.

4 1. POWER FILTER INSTALLATION: (REFERENCE PAGE 3, FIG. 1)

WARNING - EXTREMELY IMPORTANT!

- Risk of electrical shock, connect only to a grounding type receptacle.
- Receptacle must be at least 10 feet away from pool.
- Filter system can be used as many hours as desired, but **NEVER** when the pool is occupied.
- Do not use an extension cord to connect unit to electric supply; provide a properly located outlet.
- Do not bury the cord.

NOTE - The Power Filter will be in four sections: a pump; filter assembly; hardware bag; and return hose.

- First, Locate the filter assembly, remove the Lock Top (11), Strainer Basket (10), and Filter Cartridge (9) from the assembled Filter Case. Locate the mounting location for the power filter on the Pool Wall (32). Install one Gasket (22) over the four alignment pins on the skimmer canister (8) and place it up to the outside pool wall inserting the four alignment pins through the four large holes in pool wall. Now leaning against the Skimmer to hold it in place add the inside gasket (22) over the pins on the inside of the pool wall. Now place the Face Plate (23) over the alignment pins. Place the Hex Head Screws (24) into their holes. Start all the Hex Head Screws one and a half turns each. Then proceed in tightening them in equal turns each in sequence around the Face Plate until all are equally tight and you have a good even seal. **Warning!** Be sure not to over tighten them, you just need a water tight seal.
- Now lubricate the pump O-ring (6) with petroleum jelly (not provided). Hold the Skimmer Canister (8) securely, and insert pump assembly (1-6) so that the outlet on the Volute Housing (4) extends out to the side of the canister as shown in Fig. 2. Insert the pump until it bottoms out, and the two ribs on the volute housing insert into the two slots on the bottom of the canister. Reach down inside the canister and place the Pump Retaining Nut (7) over the top of the volute housing inlet as shown in Fig. 2. Twist the Nut (7) clockwise until it is snug.
- Locate the Pool Wall Fitting assembly parts (15-21). Lubricate the black Wall Fitting Gasket (16) with petroleum jelly and install it over the threads on the Pool Wall Fitting (15). Insert the pool wall fitting with the gasket through the hole in the wall from the inside of the pool. Place the Thrust Washer (17) over the pool wall fitting and then thread the Wall Fitting Nut (18) onto the fitting until it is hand tight. **DO NOT** over tighten the wall fitting nut or wrinkle the pool wall around the Wall Fitting Thrust Washer (17) or Wall Fitting Gasket (16). Now apply some petroleum jelly to the thread of the Elbow 90° (19) and install the elbow into the wall fitting assembly. Install the Diverter Fitting (20) and Locking Ring (21) onto the wall fitting.
- Get the Return Hose (13) and remove the two Hose Clamps (14) from the hardware bag. Loosen the hose clamps and slide them over the end of the hose. It is recommended to lubricate the O-Rings (12) on the Volute Housing (4) and on the Elbow (19) before installing the hose (13). Install the hose on the pump volute housing and on the Elbow (19). Tighten both of the Hose Clamps (14). See Fig. 3.
- Place the Filter Cartridge (9) and the Strainer Basket (10) back into the Skimmer Canister (8). It is important that the Filter Cartridge (9) slips over the Pump Retaining Nut (7) and seals at the bottom of the canister so that the Strainer Basket (10) will seat in it's groove inside the canister. See Fig. 4. Place the Lock Top (11) on top of the Skimmer Canister (8) and lock it in place by turning it clockwise until it is locked. Push the Weir Foam Pad (25) into the Weir (26) and under the tabs, to hold it in place. Take the Weir (26) and slide it into the grooves from inside the pool. See Fig. 4. Once the weir is pushed inside the grooves, flip it over as shown by the Arrow #2 in Fig. 4, to lock it in place. **NOTE:** The weir can **ONLY** be pushed into the grooves as shown by Arrows #1 in Fig. 4, by holding it horizontal. Be sure the weir moves freely through the opening, if not carefully trim away any obstructing material to allow the weir to move freely.
- After the pool is filled, SEE (WATER LEVEL FIG. 4) check the hose connections and fittings to make sure there is no water leakage. If any leaks are found, see #4 in the Trouble Shooting guide on page #8.

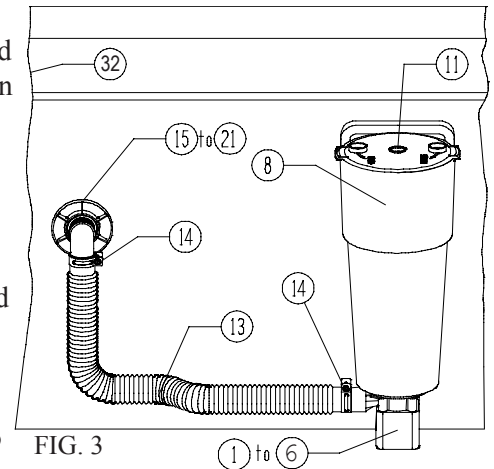
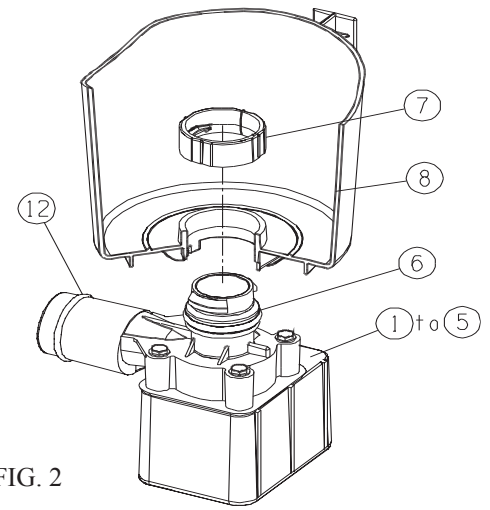


FIG. 3

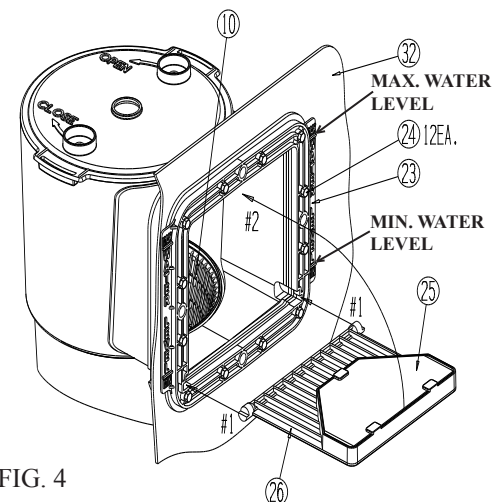


FIG. 4

2. PUMP OPERATION:

IMPORTANT: FILTER CARTRIDGE MUST BE FIRMLY SEATED OVER THE PUMP INTAKE PORT TO FILTER THE POOL WATER EFFICIENTLY.

NOTE: ONLY FILTER CARTRIDGES WITH A 1-3/4" INCH DIAMETER HOLE WILL WORK PROPERLY. ANY OTHER SIZE HOLE WILL PREVENT PROPER FILTRATION. THE CARTRIDGE MUST SEAL TIGHTLY AROUND BOTH ENDS.

- A. Plug the power cord of the filter assembly into a properly grounded receptacle, located at least 10 feet away from the pool.
- B. Check the return fitting on the inside of the pool for correct flow, it should feel like a solid stream of water returning to the pool. You can use the return flow as a gauge to determine when the filter needs cleaning and/or replacement. If you feel a reduction in flow, clean and/or replace filter.
- C. Test water and adjust as needed, see "POOL WATER CARE", page #7. **VERY IMPORTANT – PUMP AND FILTER 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!**
- D. The filter may need to be cleaned and/or replaced several times at start up until the correct chlorine and pH levels are attained. We recommend that you keep at least one spare cartridge on hand at all times. Filter cartridges may be purchased at the store you purchased your pool from, or ordered from GFP, see page #9, Item #9.
- E. There is a Drain Cap (#28) and Seal Gasket (#29) at the bottom of the Filter Canister (#8) to allow you to drain off sediment and debris at the bottom of the canister. Place them back on and hand tighten only after allowing them to drain off a little water to flush the canister bottom out.

3. FILTER CARTRIDGE CLEANING INSTRUCTIONS:

- A. You will need to clean the Filter Cartridge. First, unplug (turn off) the Power Filter. Then remove the Lock Top (11) by turning it counter clockwise. Remove the Strainer Basket (10) and the Filter Cartridge (9).
- B. The filter cartridge can be cleansed of coarse dirt and debris by pressure washing inside and out with a garden hose, making sure to wash between all pleats. Fine particles of dirt are more easily removed from the filter pleats when the cartridge is dry. Therefore, after hosing the cartridge, allow the filter to dry and CAREFULLY BRUSH, but do not scrub the pleated surface areas. Cleaning and scrubbing a filter too vigorously will also wear out the cartridge much faster than if it is simply hosed off correctly.
- C. Suntan oils, body oils, and algae can form a coating on the filter pleats which may not be thoroughly removed by hosing. Such films of oils and/or algae will rapidly clog up the filters' pores, greatly reducing filtration. Therefore, it is imperative to remove such materials from the filter element as soon as possible. To remove oils, we recommend soaking the cartridge in a solution of **1 pound of trisodium phosphate** (or any other strong detergent) **to 5 gallons of water** for up to **12 hours**. Trisodium phosphate is available in many supermarkets, hardware stores, or janitorial supply stores. After the oils have been removed, rinse the filter cartridge to remove any dirt. If algae is a problem, add **1/2 pint of pool chlorine** or **1 pint of liquid household bleach** to the cleaning solution, **1 hour** before removing the filter cartridge from the solution. Thoroughly rinse the filter cartridge before replacing it in the filter case. Check the pool chemistry to determine the cause of algae growth.
- D. Excessive calcium and/or mineral deposits may build up on a filter cartridge and should be handled differently. Contact your local pool supply store to ask about additional filter cartridge cleaners or treatment for calcium or mineral deposits. Check pool chemistry for high pH or alkalinity; this may cause a calcium or mineral build-up. Now is a good time to put chlorine tablets into the Filter (9) if necessary..
- E. A spare "stand-by" Filter Cartridge is an excellent investment. It provides a convenient way to continue filtration of your pool while cleaning or replacing a dirty Filter Cartridge. Also, a well-maintained, clean cartridge assures you that your filter will always be ready to operate at peak efficiency.

Should you encounter any problems, contact the Customer Service Representative/Parts Department at (800) 813-0206 from 8 AM to 5 PM Mon. thru Fri. EST. Extended operating days and hours during peak season requirements.

POOL MAINTENANCE

USING THE DIVERTER FITTING AND VACUUM ADAPTER

- DIVERTER FITTING USE;** diverts direction of return water entering the pool, see part #20 FIG.5. You can adjust the fitting by loosening the LOCKING RING see part # 21 FIG 5. The DIVERTER FITTING can be used to help generate clockwise rotation of the pools water toward the SKIMMER intake opening area of your pools wall. To do so slightly loosen the LOCKING RING and rotate the DIVERTER FITTING upward pushing water horizontally under the waters surface pointing away from the SKIMMER Intake area. **DO NOT POINT** it directly toward the SKIMMER this will deeply decrease skimming and filtration. Tighten the LOCKING RING to hold the DIVERTER FITTING in the desired position you choose. You can position the DIVERTER FITTING downward later to assist in keeping sediment from building along the bottom of your pool.
- VACUUM ADAPTER USE;** allows you to vacuum your pool, see part # 27 FIG.4 The VACUUM ADAPTER is included with the SKIMMER unit, it will be necessary for you to purchase a Vacuum, Vacuum handle, and a Vacuum hose from your local pool supply retailer, also your home improvement centers, and large retail stores sometime carry these as seasonal items and they range from economy to deluxe.
- To install the VACUUM ADAPTER turn off your pump, remove the WEIR part # 26 FIG. 4, see the section on WEIR installation page 4 (step E) and reverse the process by lowering the WEIR and sliding it out through the openings in the FACE PLATE part # 23 shown in FIG 4. Place the WEIR in a safe place because you need to reinstall it after vacuuming so that your skimmer operates properly.
- Next attach your vacuum to it's handle and place the swivel end of the hose on the vacuum unit and lower vacuum into the pool. Place your vacuum hose into the pool (it will float somewhat), keep the remaining end near the DIVERTER FITTING, now turn on the pump and hold the hose up to the DIVERTER FITTING filling the hose, this primes the hose with water pushing out the air. The hose will sink as it fills. Now that the hose is filled, turn off the pump again and slide the VACUUM ADAPTER into the SKIMMER opening and attach hose to the adapter. Now start your pump, keeping the vacuum under water at all times during this process. Now you can move your vacuum along the bottom cleaning your pool. **Never Use the hose alone without the vacuum attached, liner damage could occur, also Never vacuum with the Strainer Basket removed or Filter out, pump blockage and damage will occur. Never leave hose hanging out of the pool because a siphon can occur draining your pool.**
- When you finish vacuuming turn off the pump once more. Slide the VACUUM ADAPTER out of the SKIMMER and reinstall the WEIR back into place. Remove the hose and vacuum draining the hose back into the pool as you raise it out of the water. Remove the STRAINER BASKET, empty and rinse it, also remove your FILTER CARTRIDGE and clean it according to instructions page 5 step 3. Now place the FILTER CARTRIDGE back in and add your chlorine tablets, install the STRAINER BASKET and the LOCK TOP.

NOTE: It's a good practice to store the Vacuum Adapter, Vacuum Unit, Vacuum Hose, and Handle in a good location to prevent damage or loss and possible UV weathering which might result in early failure.

USING THE SERVICE PLUGS: When Pump (1) needs servicing or working on Return Hose (13), turn off power and install the Service Plug (30) into Pool Wall Fitting (15) after removing Locking Ring (21) and Divert-er Fitting (20). Also install a Service Plug (30) into center hole of the Skimmer Canister (8) after removing the Pump Retaining Nut (7). See Fig. 1 page 3 for location of each. When service is complete remove both Service Plugs (30) by reversing the procedures above.

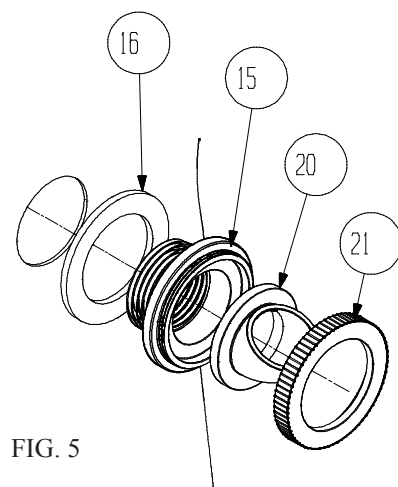


FIG. 5

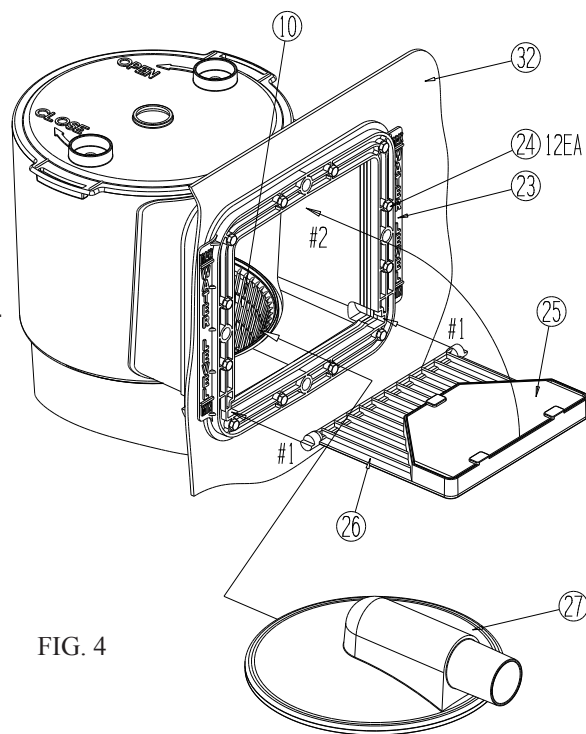


FIG. 4

POOL MAINTENANCE:

7

1. Check and adjust pH and chlorine levels daily using required chemicals. See “POOL WATER CARE”, below.
2. Check filter output daily. If flow is reduced, see Symptom 2 in “TROUBLE SHOOTING GUIDE”, page #8.
3. Check filter for leaks. If a leak is found, see Symptom 4 in “TROUBLE SHOOTING GUIDE”, page 8.
4. Check seams in pool periodically. Minor repairs may be made with the patch kit (supplied with pool). Additional patches are available from General Foam Plastics or your local pool supply store.

POOL WATER CARE

1. The following items are required and readily available from your local pool supply store:
 - A. TEST KIT - Used to check chlorine and pH levels.
 - B. 1” CHLORINE TABLETS - Used to disinfect pool water and help control the growth of algae.
 - C. pH CONTROL CHEMICALS - Used to adjust pH levels Up (Soda Ash) or Down (Acid).
 - D. ALGAECIDES - Used to eliminate algae.
 - E. SUPERCHLORINATOR - Used to destroy combined chlorine, ammonia, nitrogen, and organic compounds.
 - F. LEAF NET with handle - Used to remove leaves, trash, insects, etc. from pool.
 - G. CHLORINE DISPENSER (Supplied with Filter) - Used to dispense 1” chlorine tablets ONLY.
2. Use test kit daily to check pH and chlorine levels. Adjust accordingly using the required chemicals.
NOTE: Excessive levels of chlorine or low pH levels will damage pool liner.
3. The pool can be cleaned using a garden hose powered vacuum from General Foam Plastics or a pool supply store.
4. Using a foot bath near the pool to wash off your feet prior to entering the pool will assist in keeping the pool clean.
5. Well water often presents special problems with water chemistry. If you must use well water, take a sample to your local pool chemical supplier for analysis before adding ANY chemicals.
6. Use the gallons for your pool to calculate the amount of chemicals you will need to correct the pool water based on the gallons of water in your pool. Note: It is recommended to use a 5 gallon bucket of water to mix and dissolve your chemicals and then applying directly to the pool water. Follow manufacturers label directions on all chemicals.

For your convenience, fill in your pool’s information in the below chart. This info is in your pool set-up instruction manual.

POOL TYPE	FILTER/PUMP TYPE	POOL CAPACITY/GALLONS

*Most pool supply stores will test your pool water for free and advise you of what chemicals you need, and the correct amount to use for your pool. You will need to tell them the pool capacity in gallons.

7. **IMPORTANT** - We cannot over-stress the importance of proper and adequate daily chemical treatment. Chlorine and pH levels must be maintained at all times. **PUMP AND FILTER 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.**
 - A. Maintain pH level between 7.3 and 7.8.
 - B. Maintain chlorine level between 1.0 and 1.6 ppm (parts per million).
 - C. Superchlorinate your pool at least every other week.

NOTE:

1. Hot weather/heavy use may require pH and chlorine levels to be maintained on the upper side of the scale and superchlorination of the pool every week.
2. Using a pool cover and/or solar cover will assist in maintaining your pH and chlorine levels by reducing the amount of evaporation from your pool.

CAUTION - Concentrated chlorine levels and low pH levels will damage pool.

DANGER - You must follow the instructions for the pool chemicals you use, as to quantity and recommended usage.

NEVER drop lumps or pellets of chemicals in pool; this may present a hazard to swimmers and/or damage your liner.

7

TROUBLE SHOOTING GUIDE

DISCONNECT ELECTRICAL CORD BEFORE TROUBLESHOOTING FILTER

SYMPTOM	PROBLEM	POSSIBLE SOLUTION
1 Motor fails to start or kicks on and off.	A Unit Not Plugged In	A Unit must be plugged into a 3-wire grounded outlet.
	B GFCI Breaker Tripped	B Reset circuit breaker. If problem persists, have an electrician check circuit.
	C Low Voltage	C Check line voltage - must be 105 to 125 AC volts.
	D Rotor Jammed	D See the "Rotor Service" diagram in the assembly view of the Filter/Pump unit, page #3.
2 No flow or low flow through return hose	A Low Water Level	A Water level must be within 1" above or below the center line of the Power Filter Inlet opening.
	B Inlet / Discharge Clogged	B Check for obstructions at strainer basket and in return hose.
	C Filter Dirty	C Clean (see page #5) or replace cartridge. Spare cartridges make service more convenient.
	D Rotor Jammed	D See the "Rotor Service" diagram in the assembly view of the Filter/Pump unit, page #3.
3 Filter is not cleaning pool (water cloudy, green, etc.)	A Chlorine Level	A Maintain chlorine level between 1.0 and 1.6 ppm
	B Filter Dirty	B Clean (see page #5) or replace cartridge. Spare cartridges make service more convenient.
	C pH Level	C Maintain pH Level between 7.3 and 7.8.
	D Cartridge Damaged	D Check cartridge for damage and/or holes. Replace if damaged.
	E Low Water Flow	E Check for obstructions at strainer basket and in return hose.
	F Other Chemicals Required	F Have water tested at pool supply store. It may be necessary to add other chemicals due to varying water quality in different localities.
	G Pool Water Very Dirty	G Run pump more often, but never when pool is in use. Clean filter more often.
4 Water Leakage	A Return Hose	A Adjust hose clamps (14) on cuff, check O-Ring (12) and retighten. Check hose for any holes or cracks. Replace if needed. See page #3.
	B Pump to Volute Housing	B Tighten screws (5). Check Pump Gasket (3) for damage. Replace if needed. See page #3.
	C Volute Housing to Filter	C Check Volute Housing O-Ring (6) for damage. Replace if needed. See page #3.
PROBLEMS: Call GFP Corp. Parts Dept. at 1-800-813-0206 between 8 AM and 5 PM Mon. - Fri. EST. Extended operating days and hours during peak season requirements.		

POWER FILTER DISASSEMBLY AND STORAGE

- A. First, unplug the main power cord of the Power Filter.
- B. Remove the Lock Top Retainer (11) by turning counter-clockwise to unscrew. Remove Strainer Basket (10) and the Filter Cartridge (9) and remove any chlorine tablets left inside the core section of the filter.
- C. Loosen all the Hose Clamps (14), remove the Return Hose (13) and allow water to drain out.
- D. Remove the Pool Wall Fitting (15-21) clean the parts and lubricate Gasket (16) with petroleum jelly and reassemble all parts then place them in a safe place.
- E. Remove the Pump Retaining Nut (7) by turning it counter-clockwise and then remove the Pump lowering it from the Skimmer Canister (8) now clean the pump, dry it off, and then lubricate both the O-Rings (6, 12) on the pump with petroleum jelly and place it in a safe place.
- F. Remove the Hex Head Screws (24) from the Skimmer Face Plate (23) being sure to support the Skimmer Canister (8) from falling and carefully remove the Face Plate (23), the Weir (26) and the Gasket (22). Next remove the Skimmer Canister (8) and the remaining Gasket (22). Clean all parts, dry them off, and reassemble partially tightening the Hex Head Screws (24). Clean and reassemble the Strainer Basket (10) and the Lock Top (11) onto the Filter Case (8). Place the assembled unit in a safe place.
- G. Clean and dry all filter cartridges, place them with the Skimmer Canister unit, Pump, Return Hose, Clamps and the Wall Fitting in a safe place.

Should you encounter any problems, contact the Customer Service Representative/Parts Department at (800) 813-0206 from 8 AM to 5 PM Mon. thru Fri. EST. Extended operating days and hours during peak season requirements.

SFS FILTER SYSTEM PARTS LIST

KEY	DESCRIPTION	SFS2000/F2000C		SFS1000/F1500C		SFS1000/F1000C		SFS1000/F700C		SFS600/F700C		SFS600/F600C		QTY	SHIPPING WEIGHT
		ID NUMBER	COST	ID NUMBER	COST	ID NUMBER	COST	ID NUMBER	COST	ID NUMBER	COST	ID NUMBER	COST		
	FILTER														
1	PUMP BODY WITH CORD & GFCI	096-050603	45.00	096-050604	45.00	096-050604	35.00	096-050605	30.00	096-050605	30.00	096-050606	20.00	1	4
2	ROTOR ASSEMBLY	096-050565	25.00	096-050598	20.00	096-050505	15.00	096-110003	10.00	096-110003	10.00	096-050137	8.00	1	1/2
3	PUMP GASKET	078-110078	2.50	078-110078	2.50	078-110078	2.50	078-110031	1.50	078-110031	1.50	078-110186	1.00	1	1/4
4	VOLUTE HOUSING	078-110147	5.00	078-110197	5.00	078-110097	3.00	078-110189	3.00	078-110189	3.00	078-110187	1.50	1	1/4
5	PHILLIPS HEAD SCREW (6 PC)	090-010063	.75	090-010063	.75	090-010063	.75	090-010063	.75	090-010063	.75	090-010063	.75	1	1/4
6	O-RING - (On Volute Housing)	090-130025	1.50	090-130012	1.50	090-130012	1.25	090-130012	1.25	090-130012	1.25	090-130012	1.25	1	1/4
*	ASSEMBLED PUMP #1 THRU #6	096-050607	75.00	096-050608	75.00	096-050609	50.00	096-050610	45.00	096-050610	45.00	096-050611	30.00	1	5
7	PUMP RETAINING NUT	078-110143	1.50	078-110110	1.50	078-110110	1.50	078-110110	1.50	078-110110	1.50	078-110110	1.50	1	1/4
8	SKIMMER CANISTER	078-110218	6.00	078-110219	6.00	078-110219	6.00	078-110219	6.00	078-110249	4.50	078-110249	4.50	1	2
9	3-3/4" FILTER CARTRIDGE 2 SQ. FT	--	--	--	--	--	--	--	--	090-050140	5.00	090-050140	5.00	1	1
*	8" FILTER CARTRIDGE 7 SQ. FT	090-130011	10.00	090-130011	10.00	090-130011	10.00	090-130011	10.00	--	--	--	--	1	1
10	STRAINER BASKET	078-110220	3.00	078-110222	3.00	078-110222	3.00	078-110222	3.00	078-110222	3.00	078-110222	3.00	1	1/4
11	LOCK TOP	078-110221	5.00	078-110221	5.00	078-110221	5.00	078-110221	5.00	078-110221	5.00	078-110221	5.00	1	1
12	O-RING - (Hose Connection)	090-130030	2.00	090-130030	2.00	090-130030	2.00	090-130030	2.00	090-130030	2.00	090-130029	2.00	2	1/4
13	RETURN HOSE 3 FT.	063-060010	3.50	063-060010	3.50	063-060010	3.50	063-060010	3.50	063-060010	3.50	063-060032	3.50	1	1
14	HOSE CLAMP	090-160005	.25 ea	090-160005	.25 ea	090-160005	.25 ea	090-160005	.25 ea	090-160005	.25 ea	090-160009	.25ea	2	1/2
15	POOL WALL FITTING	078-110223	3.00	078-110223	3.00	078-110223	3.00	078-110223	3.00	078-110223	3.00	078-110223	3.00	1	1/2
16	GASKET	078-110224	1.50	078-110224	1.50	078-110224	1.50	078-110224	1.50	078-110224	1.50	078-110224	1.50	1	1/4
17	THRUST WASHER	078-110225	1.25	078-110225	1.25	078-110225	1.25	078-110225	1.25	078-110225	1.25	078-110225	1.25	1	1/4
18	NUT	090-020047	1.75	090-020047	1.75	090-020047	1.75	090-020047	1.75	090-020047	1.75	090-020047	1.75	1	1/4
19	ELBOW 90°	078-110226	5.00	078-110226	5.00	078-110226	5.00	078-110226	5.00	078-110226	5.00	078-110250	4.00	1	1/2
20	DIVERTER FITTING	078-110227	2.00	078-110227	2.00	078-110227	2.00	078-110227	2.00	078-110227	2.00	078-110227	2.00	1	1/2
21	LOCKING RING	078-110228	3.00	078-110228	3.00	078-110228	3.00	078-110228	3.00	078-110228	3.00	078-110228	3.00	1	1/2
22	GASKET	078-110229	2.00	078-110229	2.00	078-110229	2.00	078-110229	2.00	078-110229	2.00	078-110229	2.00	1	1/4
23	FACE PLATE	078-110230	5.00	078-110230	5.00	078-110230	5.00	078-110230	5.00	078-110230	5.00	078-110230	5.00	1	1/4
24	HEX HEAD SCREWS (12 EA.)	090-010063	1.25	090-010063	1.25	090-010063	1.25	090-010063	1.25	090-010063	1.25	090-010063	1.25	1	1/4
25	WEIR FOAM	090-330027	2.50	090-330027	2.50	090-330027	2.50	090-330027	2.50	090-330027	2.50	090-330027	2.50	1	1/4
26	WEIR	078-110231	3.00	078-110231	3.00	078-110231	3.00	078-110231	3.00	078-110231	3.00	078-110231	3.00	1	1/4
27	VACUUM ADAPTER	078-110251	5.00	078-110251	5.00	078-110251	5.00	078-110251	5.00	078-110251	5.00	078-110251	5.00	1	1
28	DRAIN CAP	078-110254	.75	078-110254	.75	078-110254	.75	078-110254	.75	078-110254	.75	078-110254	.75	1	1/4
29	SEAL GASKET	078-110255	.25	078-110255	.25	078-110255	.25	078-110255	.25	078-110255	.25	078-110255	.25	1	1/4
30	SERVICE PLUG	078-110126	2.00	078-110126	2.00	078-110126	2.00	078-110126	2.00	078-110126	2.00	078-110126	2.00	2	1/2
31	INSTRUCTION MANUAL	084-120839	2.00	084-120839	2.00	084-120839	2.00	084-120839	2.00	084-120839	2.00	084-120839	2.00	1	1/2
32	PATCH KIT	090-250002	2.00	090-250002	2.00	090-250002	2.00	090-250002	2.00	090-250002	2.00	090-250002	2.00	1	1/4
*	ASSEMBLED FILTER #1 THRU #30	096-050618	125.00	096-050619	95.00	096-050620	90.00	096-050621	80.00	096-050622	70.00	096-050623	70.00	1	8

NOTES