LIMITED WARRANTY
Polygroup Limited (Macao Commercial Offshore), (hereinafter “Polygroup”) warrants to the original purchaser only, the SFS type Electric Filter Pump 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 an original store sales receipt and must produce such upon request by Polygroup or its designated agents. Warranty claims cannot be processed without a valid proof of purchase.

This Limited Warranty applies only to the original purchaser of the product and is limited solely to the repair or replacement of the product, to be decided in Polygroup’s sole discretion. Consequential damages, including claims for loss of water, pool chemicals, damage, or labor are not covered under this Limited Warranty. This Warranty will be declared invalid should the Purchaser modify or repair the product themselves or by unauthorized persons; use non-Polygroup parts or accessories with the product; use the product in contravention of the Manufactur-ers instructions; use improper voltage; abuse the product in any way; or through accident or negligence. Normal wear-and-tear is not covered under this Warranty, nor are acts of God outside the control of Polygroup.

IN NO EVENT SHALL POLYGROUP, THEIR AUTHORIZED AGENTS, RELATED ENTITIES, OR EMPLOYEES BE LIABLE TO THE BUYER OR ANY OTHER PARTY FOR DIRECT OR CONSEQUENTIAL DAMAGES. Some states or countries, or others jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

IMPORTANT SAFETY INSTRUCTIONS
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 grounded receptacle protected by a ground-fault circuit- interrupter (GFCI). A GFCI must be provided in accordance with Section 680-31 of the National Electrical Code. Contact a qualified electrician if you cannot verify that the receptacle is protected by GFCI.
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. CAUTION - For continued protection against possible electric shock, use only original equipment manufactured (OEM) parts for your replacement requirements.
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. Before you begin to assemble the pool, identify, count, and check all parts needed for assembly.
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.
POWER FILTER INSTALLATION: (Reference Page 3, Fig. 1)

WARNING - EXTREMELY IMPORTANT!

- Risk of electrical shock, connect only to a grounding type receptacle protected by a ground fault circuit interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI.
- Receptacle must be at least 10 feet away from pool.
- Filter system can be used as many hours as desired.
- 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.

A. 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 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. NOTE: An extra face plate is included for your convenience. 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.

B. Now lubricate the pump O-ring with petroleum jelly (not provided). Hold the Skimmer Canister (8) securely, and insert Motor Pump (1-6) so that the outlet on the Volute Housing 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.

C. Locate the Pool Wall Fitting assembly parts (15-21). Lubricate the black Wall Fitting Gasket (16) with petroleum jelly and install 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 Face Plate (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) on the wall fitting.

D. 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 ends of the hose. It is recommended to lubricate the O-Rings (12) on the Volute Housing 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.

E. 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 the outside of 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.

F. 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.

NOTE - These Skimmer Filter Systems are manufactured by Polygroup and ETL control number 4000608 - 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:

<table>
<thead>
<tr>
<th>Pump System</th>
<th>Wattage</th>
<th>Amperage</th>
<th>Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF5600 Filter System with F600C Pump</td>
<td>46 watts</td>
<td>0.8 amps</td>
<td>580 G.P.H.</td>
</tr>
<tr>
<td>SF5600 Filter System with F700C Pump</td>
<td>57 watts</td>
<td>1.1 amps</td>
<td>780 G.P.H.</td>
</tr>
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<td>SFS1000 Filter System with F700C Pump</td>
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<td>1.1 amps</td>
<td>780 G.P.H.</td>
</tr>
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<td>SFS1000 Filter System with F1000C Pump</td>
<td>80 watts</td>
<td>2.2 amps</td>
<td>1075 G.P.H.</td>
</tr>
<tr>
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<td>120 watts</td>
<td>2.2 amps</td>
<td>1500 G.P.H.</td>
</tr>
<tr>
<td>SFS2000 Filter System with F2000C Pump</td>
<td>210 watts</td>
<td>2.2 amps</td>
<td>2000 G.P.H.</td>
</tr>
</tbody>
</table>

**GPH - Gallons Per Hour**

**WARNING:**

- Do not use an extension cord to connect unit to electric supply; provide a properly located outlet.
- Do not bury the cord.
- Risk of electrical shock, connect only to a grounding type receptacle protected by a ground fault circuit interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI.
- Receptacle must be at least 10 feet away from pool.
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**GPH - Gallons Per Hour**

**NOTE**: When Pump 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 procedure above.

Should you encounter any problems, contact the Customer Service at (888) 919-0070. Extended operating days and hours during peak season requirements.
FILTER CARTRIDGE CLEANING INSTRUCTIONS:

A. Plug the power cord of the filter assembly into a properly grounded receptacle, located at least 10 feet away from the pool, protected with a ground fault circuit interrupter (GFCI).

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 Polygroup, 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.

FILTER CARTRIDGE CLEANING INSTRUCTIONS:

A. You will need to clean the Filter Cartridge. First, unplug (turn off) the Power Filter. Then remove the Locking Ring.

B. The filter can be cleaned 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. Sun tan oils, body oils, and algae can form a coating on the filter pleats which may not be thoroughly removed by hosing. 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.

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**POOL MAINTENANCE:**

A. Check and adjust pH and chlorine levels daily using required chemicals. See "POOL WATER CARE" below.

B. Check filter output daily. If flow is reduced, see Symptom 2 in "TROUBLE SHOOTING GUIDE".

C. Check filter for leaks. If a leak is found, see Symptom 4 in "TROUBLE SHOOTING GUIDE".

D. Check seams in pool periodically. Minor repairs may be made with the patch kit (supplied with pool). Additional patches are available from Polygroup or your local pool supply store.

**POOL WATER CARE**

A. The following items are required and readily available from your local pool supply store:

- **TEST KIT** - Used to check chlorine and pH levels.
- **1" CHLORINE TABLETS** - Used to disinfect pool water and help control the growth of algae.
- **pH CONTROL CHEMICALS** - Used to adjust pH levels Up (Soda Ash) or Down (Acid).
- **ALGAECIDES** - Used to eliminate algae.
- **SUPERCHLORINATOR** - Used to destroy combined chlorine, ammonia, nitrogen, and organic compounds.
- **LEAF NET with handle** - Used to remove leaves, trash, insects, etc. from pool.
- **CHLORINE DISPENSER (Supplied with Filter)** - Used to dispense 1" chlorine tablets ONLY.

B. 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.

C. The pool can be cleaned using a garden hose powered vacuum from Polygroup or a pool supply store.

D. Check output daily. If flow is reduced, see Symptom 2 in "TROUBLE SHOOTING GUIDE".

**G**. Clean and dry all filter cartridges, place them with the Skimmer Canister unit, Pump, Return Hose, and the Wall Fitting in a safe place.

**F**. Remove the Pool Wall Fitting (15-21) clean the parts and lubricate Gasket (16) with petroleum jelly and tighten screws.

**E**. Remove the Pump Retaining Nut (7) by turning it counter-clockwise and then remove the Pump from the Filter. Reassemble the Strainer Basket (10) and the Filter Cartridge (9) and remove any chlorine tablets left inside the core section of the filter.

**D**. Check for obstructions at the strainer basket and in the return hose.

**C**. Cartridge Damaged

- Check cartridge for damage and/or holes. Replace if damaged.

**B**. Filters dirty

- Clean (see page #5) or replace cartridge. Spare cartridges make service more convenient.

**A**. Chlorine Level

- Maintain chlorine level between 1.0 and 1.6 ppm.

**Chlorine Dispenser (Supplied With Filter)**

- Used to dispense 1" chlorine tablets ONLY.

**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 from the Filter. 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) now clean the canister, dry it off, and then lubricate the O-Rings (6, 12) of the canister with petroleum jelly and place it 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.

**Trouble Shooting Guide**

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<th>SYMPTOM</th>
<th>PROBLEM</th>
<th>POSSIBLE SOLUTION</th>
</tr>
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<tbody>
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<td>1 Motor fails to start or locks on and off</td>
<td>A Unit Not Plugged In</td>
<td>B GFCI Breaker Tipped</td>
</tr>
<tr>
<td>A Unit must be plugged into a 3-wire grounded outlet with a GFCI type circuit breaker</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Reset circuit breaker. If problem persists, have an electrician check circuit.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C Low Voltage</td>
<td>C Check line voltage - must be 105 to 125 AC volts.</td>
<td></td>
</tr>
<tr>
<td>D No flow or low flow</td>
<td>A Low Water Level</td>
<td>B Water level must be within 1&quot; above or below the center line of the Power Filter Inlet</td>
</tr>
<tr>
<td>2 through return hose</td>
<td>A Inlet/Discharge Clogged</td>
<td>B Clean for obstructions at strainer basket and in return hose.</td>
</tr>
<tr>
<td>D Filter Dirty</td>
<td>C Clean (see page #5) or replace cartridge. Spare cartridges make service more convenient.</td>
<td></td>
</tr>
<tr>
<td>E Filter is not cleaning pool</td>
<td>A Chlorine Level</td>
<td>B Maintain chlorine level between 1.0 and 1.6 ppm.</td>
</tr>
<tr>
<td>3 Water leakage</td>
<td>A Return hose</td>
<td>B Adjust hose clamps (14) on cuff, Check O-Ring (12) and reseal. Check hose for any holes or cracks. Replace if needed. See page #3.</td>
</tr>
<tr>
<td>4 Moldy</td>
<td>A Tahitian B Tahitian C Tahitian</td>
<td></td>
</tr>
<tr>
<td>G Pool Water very Dirty</td>
<td>B GFCI Breaker Tipped</td>
<td>C Clean (see page #5) or replace cartridge. Spare cartridges make service more convenient.</td>
</tr>
<tr>
<td>E Moldy</td>
<td>C Moldy</td>
<td></td>
</tr>
<tr>
<td>G FC Breaker Tripped</td>
<td>A Motor fails to start or locks on and off</td>
<td></td>
</tr>
<tr>
<td>A Reconnect electrical cord.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Circuit breaker</td>
<td>C Clean (see page #5) or replace cartridge. Spare cartridges make service more convenient.</td>
<td></td>
</tr>
<tr>
<td>C Low water flow</td>
<td>A Check for obstructions at strainer basket and in return hose.</td>
<td></td>
</tr>
<tr>
<td>D Cartridge damaged</td>
<td>B Check cartridge for damage and/or holes. Replace if damaged.</td>
<td></td>
</tr>
<tr>
<td>E Low water flow</td>
<td>C Check for obstructions at strainer basket and in return hose.</td>
<td></td>
</tr>
<tr>
<td>F Other chemicals required</td>
<td>C Have water tested at pool supply store. It may be necessary to add other chemicals due to varying water quality in different locations.</td>
<td></td>
</tr>
<tr>
<td>G Pool water very Dirty</td>
<td>G Run pump more often, but never when pool is in use. Clean filter more often.</td>
<td></td>
</tr>
<tr>
<td>9 Power Filter Disassembly and Storage</td>
<td>Extended operating days and hours during peak season requirements.</td>
<td></td>
</tr>
</tbody>
</table>

**Extended operating days and hours during peak season requirements.**

Should you encounter any problems, contact the Customer Service at (888) 919-0070.