

TROUBLESHOOTING

MOTOR DOES NOT START: Make sure motor is plugged in.
Circuit breaker in OFF position.
Thermal Overload in tripped position.
Wiring installation incorrect.
Incorrect line voltage.
Defective wiring.

EXCESSIVE PUMP NOISE: Worn Bearings.
Suction Line Clogged.
Pump incorrectly mounted.
Hose Fitting partially closed.
Slice Valve partially closed.
Clogged Trap Basket.

THERMAL OVERLOAD TRIPS: Low Voltage.
Wiring installation incorrect.
Dual voltage pumps mis-wired.
Inadequate ventilation.

INADEQUATE FILTERING: Sand level too low.
Inadequately cleaned system.
Excessive dirt load.
Chemical imbalance.
Inadequate system pressure.

NO WATER FLOW: Obstruction of suction or return line.
Clogged impeller.
Suction system air leaks.
Slice Valve Closed.
Clogged Hose Fitting.
Clogged Basket.
Dirty Sand.

SAND FILL CHART:
Model FS016 - 50 lbs
Model FS019 - 100 lbs
Model FS022 - 150 lbs
Model FS026 - 200 lbs

CHLORINATOR & BROMINATOR USE WARNINGS

! READ AND FOLLOW ALL INSTRUCTIONS! SAVE THESE INSTRUCTIONS!
WARNING! To reduce the risk of injury and product damage:

in granules mixing in feeder causing **FIRE AND/OR EXPLOSION**. The shock or algae treatment dissolved in water is safe with tablets.

Feeders are designed to use only Chlorine (Trichloro-s-triazinetriene) or Bromine (Bromochloro -5, 5 Dimethylhydantoin) tablets, slow dissolving type. **UNDER NO CIRCUMSTANCES** MIX Trichlor OR Bromine with Calcium Hypochlorite, with other forms of concentrated chlorine, or with other chemicals **FIRE AND/OR EXPLOSION MAY RESULT. NEVER** use oils or grease to lubricate O-ring. Oil in contact with Trichlor OR Bromine may result in **FIRE**. Caution should be used when removing feeder cap. Do not inhale fumes.

ALWAYS WEAR PROTECTION for eyes, skin and clothing when working with chemicals. Do not smoke and avoid sparks and open flames. Turn off pump and control valve before opening chlorinator. Use of bulk chemicals may result in damage to pool. Chemicals will dissolve very quickly and may cause bleaching to liner due to over-chlorinating, possibly causing unsafe pool conditions.

If shock treatments or Algaecides containing chemicals other than sanitizer tablets in feeder must be used, then turn off feeder OR remove tablets until the shock or algae treatment is complete and all granules have dissolved. Failure to do so may result

Settings in excess of the recommended control setting levels for the chlorinator can result in excess chlorine being discharged in your pool. This can result in bleaching or discoloration of areas around the pool inlet or in some cases bleaching of the entire pool liner or paint (**CHECK CHEMICAL RESIDUALS REGULARLY**).

LIMITED WARRANTY

Waterway Plastics manufactures its products and equipment in accordance with very high standards of workmanship. We use the best materials available and maintain the highest quality procedures practical in the industry. In accordance, Waterway warrants its products as follows:

Warranty only applies to OEM's and distributors of Waterway.

All plastic parts such as jets, valves, skimmers, manifolds, suction, lights and other plastic components manufactured by Waterway will be replaced or repaired of the defects as determined by Waterway to be the responsibility of Waterway Plastics for a period of **THREE YEARS** from the date of installation. The warranty does not cover filter cartridges, DE grids, o-rings, pressure gauges, pump seals, light bulbs, or any parts not manufactured by Waterway.



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Carefree™

HIGH RATE SAND FILTER



STANDARD SYSTEM - STANDARD FITTINGS PACKAGE OWNER'S MANUAL

CAREFREE STANDARD SAND FILTER SYSTEM OWNER'S MANUAL

WARNING: A GFCI is required. Follow national and local building and safety codes.

Your Carefree Standard Sand Filter System is shipped complete from Waterway, with all needed components ready for assembly and installation.

System will require a 110 Volt / 20 Amp service. **DO NOT** use extension cords. Use will void warranty on pump motor. The pool equipment should be located between the pool skimmer and return line. The filtration system should not be installed less than 2 ft. and no more than 5ft. from the pool. The Carefree Standard Sand Filter System needs to be on a completely flat level / surface (patio block, cement slab, etc.).

INSTALLATION INSTRUCTIONS

WARNING! READ ALL INSTRUCTIONS AND WARNING LABELS BEFORE OPERATING FILTER!

- Place filter with filter base on a level, secure surface. There is no need to disassemble filter or pump assemblies. Position sand filter body securely onto filter base. Align drain with drain clearance on base. Secure sand filter body to base using bolt (#17) and washer (#16, 820-0017) as shown. **DO NOT** over tighten.
- Open box and remove pump and trap assemblies. Open pump trap lid and remove 2" gasket (#21, 711-4010). Position gasket into end of pump trap union nut. Hand tighten union nut onto suction side of pump (Detail 2). **DO NOT** over-tighten.
- Secure pump to pump base using pin and anchor assemblies (#20, 429-7300) (Detail 1).
- Remove collar assembly from filter tank. Do not lose screws. **IMPORTANT:** To prevent damage to internal filter lateral components, fill filter tank full with water prior to adding sand. With sand fill guide (#10, 502-2010) positioned in filter tank opening, add only recommended #20 grade silica sand. See Fill Chart. Remove sand fill guide. **IMPORTANT:** Clean and remove all debris from filter tank flange after adding sand.
- Assure that o-ring (#9, 805-0435) is positioned onto multi-port throat.
- Install multi-port valve with inlet and outlet ports facing pool. Top of internal stand pipe seats directly into multi-port valve. Push multi-port valve evenly onto tank flange. **NOTE:** Make sure tank flange is clear of any sand debris.

SYSTEM START UP

- Fill pool until water is halfway up length of skimmer throat.
- Make sure pump trap is full of water. Slightly loosen trap lid to relieve pressure and allow water to fill trap. Re-tighten lid.
- Make sure multi-port valve handle is in filter position.
- Plug pump into GFCI outlet and turn pump on. Turn two (2) speed pumps to high.
- Make note of start-up pressure on gauge.
- Checks for leaks.

WINTERIZATION

- Backwash filter system completely. See Cleaning Instructions.
- Run a filter cleaning chemical through filter system as per cleaner instructions.
- Turn pump off. Disconnect hoses from skimmer and return fitting.
- Remove drain plug cap from bottom of filter tank. **DO NOT** remove hex drain assembly (#14).
- Unscrew drain plugs located at bottom of pump trap and front of pump housing. Let water drain completely.
- Disconnect filter to pump connection. Loosen union connection on discharge of pump and remove from pump. **DO NOT** lose 2" union gasket. Lift and remove pump and pump base from filter base. Store inside.

Assemble filter system only after above ground pool is installed. Fill pool with water. **IMPORTANT:** Do not raise water level above pool return line or skimmer throat until installation is complete.

Open shipping carton in an upright position checking contents, as follows:

- | | |
|----------------------------|------------------------------|
| 1. One-piece mounting base | 5. One fittings bag |
| 2. One pump | 6. One collar wrench |
| 3. One filter | 7. Trap assemblies |
| 4. Two corrugated hoses | 8. Sand filter hose assembly |

- Install filter tank collar assembly (#6, 718-1960 & #7, 819-0015) by threading collar clockwise until hand tight. Then use collar wrench (#5, 505-1970) to tighten further (Detail 3).
- To use collar wrench (#5, 505-1970), place on collar assembly. Use both hands to turn wrench ½ to ¾ of a turn to secure multi-port valve to filter body (Detail 4).
- Position and hand tighten sand filter hose assembly (#29) to top inlet port. Position gasket (#21, 711-4010) and hand tighten onto pump. **DO NOT** over tighten (Detail 6).
- Hand tighten 1 ½" Buttress x 1 ½" MPT (#31, 417-4161) to bottom outlet port. **DO NOT** over tighten.
- Position O-Ring (#2, 805-0224) onto 1 ½" MPT x 1 ½" hose male smooth adapter, (#26, 417-6141). Hand-tighten onto suction side of pump trap (Detail 7).
- Apply Teflon tape (4 wraps ideal) to pressure gauge (#3, 830-2000). Thread into multi-port valve.
- Remove 4 hose clamps (#27, 872-0010) and position over end of corrugated hoses, (#28, 872-9002). Install corrugated hose between the 1 ½" Buttress x 1 ½" MPT (#31, 417-4161) on multi-port valve and to pool return fitting. Tighten hose clamps. Install the other corrugated hose between the 1 ½" MPT x 1 ½" hose male smooth adapter (#26, 417-6141) and to pool skimmer fitting. Tighten hose clamps. **NOTE:** Soften hose ends with warm water to ease installation onto fittings (if necessary).
- Install waste adapter fitting (#1, 425-1928) with o-ring (#2, 805-0224) (Detail 5).

CLEANING INSTRUCTIONS

NOTE: When pressure gauge reading is 5 PSI or higher than original starting pressure, the filter needs to be cleaned. The Carefree Standard Sand Filter System features our exclusive 7-position multi-port valve, which ensures safe and simple filter maintenance.

WARNING! Pressurized vessel. Never attempt to loosen or open collar assembly (#6, 718-1960 & #7, 819-0015) while system is running. It could cause severe injury or harm to user. **NEVER CHANGE VALVE POSITION WITH PUMP RUNNING!**

- Turn off pump.
- Attach Backwash hose (optional) to waste port adapter.
- Rotate multi-port valve handle to **Backwash** position. Turn pump on and run for 90 second intervals or until discharge water is clear. Turn pump off.
- Rotate multi-port valve handle to **Rinse** position. Turn pump on for 30 seconds.
- Repeat steps 3 & 4 until all discharge water is clear while pump is turned on.
- Rotate multi-port valve handle to **Filter** position. Turn pump on. Valve is now in normal operating position.

CAREFREE STANDARD SAND FILTER SYSTEM PARTS LIST

Item	Part No.	Description
1	425-1928	Waste Adapter Fitting
2	805-0224	O-Ring
3	830-3000	0-60 PSI Gauge
4	WV5003	Multi-Port Valve Assembly
5	505-1970	Collar Wrench
6	718-1960	Split Nut, Sand Filter
7	819-0015	Screw, ¼" - 20 PPH x 1 ½"
8	820-0013	Hex Nut, Serrated ¼" - 20
9	805-0435	O-Ring
10	502-2011	Sand Fill Guide
11	505-1960	Threaded Sleeve for Split Nut
12	505-2140	16" Lateral and Manifold Assembly
	505-2150	19" Lateral and Manifold Assembly
	505-2160	22" Lateral and Manifold Assembly
	505-2180	26" Lateral and Manifold Assembly
13	515-2101	16" Sand Filter Body
	515-2091	19" Sand Filter Body
	515-2081	22" Sand Filter Body
	515-2121	26" Sand Filter Body
14	602-5310	Self-Threading Drain Screen
15	602-5301	Drain Cap
16	820-0017	Washer ¾" flat
17	819-0041	Bolt ¾" - 26" Oval Sand Filter
	819-0039	Bolt ¾" - 22" Oval Sand Filter
	819-0016	Bolt ¾" - 16" & 19" Oval Sand Filter
18	672-7241	One-Piece Base
19	429-7300	Pin & Anchor Assembly
20	PH1100	1 HP - 1-Speed - Hi-Flo Pump
	PH1150	1 ½ HP - 1-Speed - Hi-Flo Pump
	PH1200	2 HP - 1-Speed - Hi-Flo Pump
	PH2100	1 HP - 2-Speed - Hi-Flo Pump
	PH2150	1 ½ HP - 2-Speed - Hi-Flo Pump
	PH2200	2 HP - 2-Speed - Hi-Flo Pump
21	711-4010	2" Gasket
22	319-3230	Basket Assembly (not shown)
23	319-2170	6" Pump Trap Body
24	805-0436	O-Ring
25	319-3260	6" Pump Trap Lid
26	417-6141	1 ½" MPT x 1 ½" Hose Male Smooth Adapter
27	872-0010	Hose Clamp, Stainless Steel
28	872-9002	Corrugated Hose, Black
29	550-1811	16" Sand Filter Hose Assembly
	550-1821	19" Sand Filter Hose Assembly
	550-1831	22" Sand Filter Hose Assembly
	550-1833	26" Oval Sand Filter Hose Assembly
30	711-4000	1 ½" Gasket
31	417-4161	1 ½" Buttress x 1 ½" MPT
32	550-1841	Return Sweep Assembly
	810-0155	Instruction Sheet

