



# 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.).

Assemble filter system only after above ground pool is installed. Fill pool with water. **IMPORTANT**: Do no 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:

One-piece mounting base
 One pump
 One collar wrench
 Trap assemblies

4. Two corrugated hoses 8. Sand filter hose assembly

#### 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.
- 2. 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.
- 3. Secure pump to pump base using pin and anchor assemblies (#20, 429-7300) (Detail 1).
- 4. 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.
- 5. 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**

- 1. 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.
- 3. Make sure multi-port valve handle is in filter position.
- 4. Plug pump into GFCI outlet and turn pump on. Turn two (2) speed pumps to high.
- 5. Make note of start-up pressure on gauge.
- 6. Checks for leaks.

#### WINTERIZATION

- 1. Backwash filter system completely. See Cleaning Instructions.
- 2. Run a filter cleaning chemical through filter system as per cleaner instructions.
- 3. Turn pump off. Disconnect hoses from skimmer and return fitting.
- 4. 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.
- 6. 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.

- 7. 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).
- 8. 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).
- 10. Hand tighten 1 ½" Buttress x 1 ½" MPT (#31, 417-4161) to bottom outlet port. **DO NOT** over tighten.
- 11. Position O-Ring (#2, 805-0224) onto 1½" MPT x 1½" hose male smooth adapter, (#26, 417-6141). Hand-tighten onto suction side of pump trap (Detail 7).
- 12. Apply Teflon tape (4 wraps ideal) to pressure gauge (#3, 830-2000). Thread into multi-port valve.
- 13. Remove 4 hose clamps (#27, 872-0010) and position over end of corrugated hoses, (#28, 872-9002). Install corrugated hose between the 1½" Buttress x 1½" MPT (#31, 417-4161) on multi-port valve and to pool return fitting. Tighten hose clamps. Install the other corrugated hose between the 1½" MPT x 1½" 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).
- 14. Install waste adapter fitting (#1, 425-1928) with o-ring (#2, 805-0224) (Detail 5).

#### **CLEANING INSTRUCTIONS**

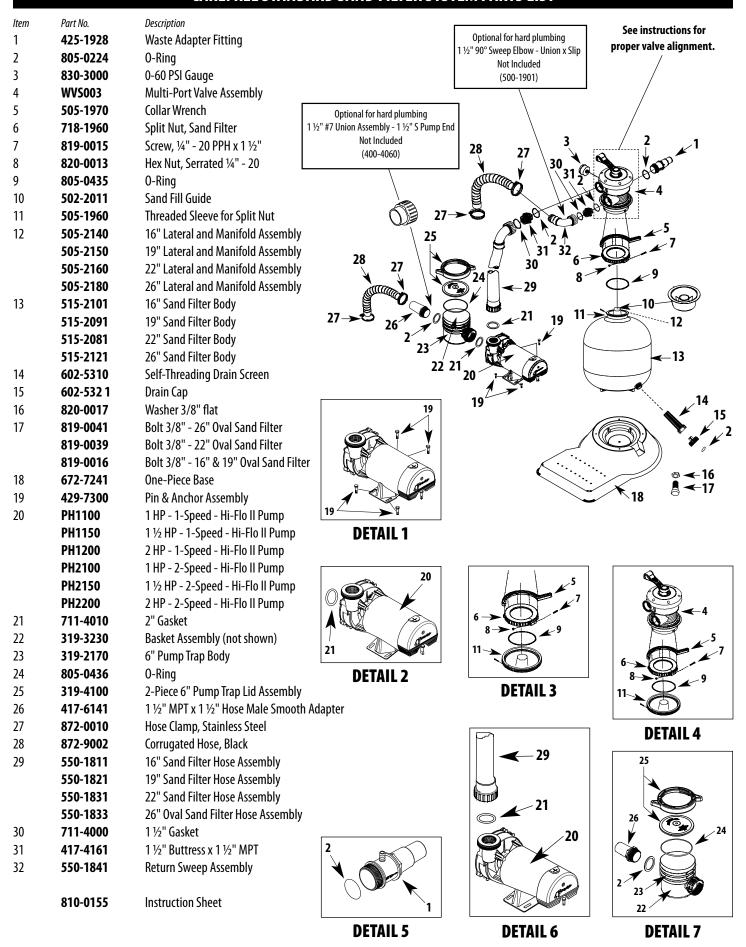
**NOTE:** When pressure gauge reading is 5 PSI or higher than original starting pressure, the filter needs to be cleaned. The Carefree Standard Sand Filter System features our exclusive 7-position multi-port valve, which ensures safe and simple filter maintenance.



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!** 

- 1. Turn off pump.
- 2. Attach Backwash hose (optional) to waste port adapter.
- 3. 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.
- 4. Rotate multi-port valve handle to **Rinse** position. Turn pump on for 30 seconds.
- 5. Repeat steps 3 & 4 until all discharge water is clear while pump is turned on.
- 6. 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**



#### **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.

**THERMAL OVERLOAD TRIPS:** Low Voltage.

Wiring installation incorrect.

Dual voltage pumps mis-wired.

Inadequate ventilation.

**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.

**EXCESSIVE PUMP NOISE:** Worn Bearings.

Suction Line Clogged.
Pump incorrectly mounted.
Hose Fitting partially closed.
Slice Valve partially closed.
Clogged Trap Basket.

**INADEOUATE FILTERING:** Sand level too low.

Inadequately cleaned system. Excessive dirt load. Chemical imbalance. Inadequate system pressure.

SAND FILL CHART:

Model FS01619 - 100 lbs. Model FS01922 - 150 lbs. Model FS02225- 250 lbs.

Model FS02629 - 400 lbs.

#### **CHLORINATOR & BROMINATOR USE WARNINGS**



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

Feeders are designed to use only Chlorine (Trichloro-s-triazinetrione) 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 0-ring. Oil in contact with Trichlor OR Bromine may result in **FIRE**. Caution should be used when removing feeder cap. Do not inhale fumes.

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

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

**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 overchlorinating, possibly causing unsafe pool conditions.

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).

#### WARRANTY

For product registration visit: www.waterwayplastics.com. For Warranty questions or claims please contact point of purchase.



