

Carefree™

HIGH RATE SAND FILTER



DELUXE SYSTEM OWNER'S MANUAL

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

Your Carefree Deluxe Sand Filter System is shipped complete, 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 Deluxe 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 not raise water level above pool return line or skimmer throat until installation is complete.

NOTE: 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 |

INSTALLATION INSTRUCTIONS

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

1. 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 (#19). Align drain with drain clearance on base. Secure sand filter body to base using bolt (#20) and washer (#21) as shown. **DO NOT** over tighten.
2. Open box and remove pump and trap. Place pump base (#22) on left side of filter. Pump base mounting tab fits directly into filter base slot.
3. Secure pump to pump base using pin and anchor assemblies (#24) (Detail 1).
4. **IMPORTANT:** To prevent damage to internal filter lateral components, fill filter tank full with water prior to adding sand. With sand fill guide (#8) 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 (#5) is positioned onto multi-port throat.
6. 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.
7. Install filter tank split-nut assembly (#7, 7a & 7b) by threading split-nut clockwise


- until hand tight. Then use split-nut wrench (#6) to tighten further (Detail 3).
8. To use split wrench (#6), place on split-nut assembly, use both hands to turn wrench $\frac{1}{2}$ to $\frac{3}{4}$ of a turn to secure multi-port valve to filter body (Detail 2).
9. Position and hand tighten smaller end of sand filter hose assembly (#15) to top inlet port of multi-port valve (#4) by positioning gasket (#11) and hand tighten onto already installed buttress (#10). Position and hand tighten other end of sand filter hose assembly by positioning gasket (#25) and hand tighten onto volute on pump (Detail 5). **DO NOT** over tighten.
10. Thread gate valve (#33) and 1 1/2" gasket (#11) onto suction side of pump trap and hand tighten (Detail 4a).
11. Apply Teflon tape (4 wraps ideal) to pressure gauge (#3). Thread into multi-port valve.
12. Remove 4 hose clamps (#14) and position over end of corrugated hoses (#13). Install corrugated hose (#13) onto return sweep assembly (#12), on multi-port valve and to pool return fitting. Tighten hose clamps. Install the other corrugated hose between gate valve (#33) and pool skimmer fitting. Tighten hose clamps. **NOTE:** Soften hose ends with warm water to ease installation onto fittings (if necessary).
13. Install waste adapter fitting (#1) with o-ring (#2) (Detail 4).

SYSTEM START UP

1. Fill pool until water is halfway up length of skimmer throat.
2. 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-speed pumps to high.
5. Make note of start-up pressure on gauge.
6. Check for leaks.

CLEANING INSTRUCTIONS

NOTE: When pressure gauge reading is 5 PSI or higher than original starting pressure, the filter needs to be cleaned. The Carefree Deluxe 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 split-nut assembly (#7, 7a & 7b) while system is running. It could cause severe injury or harm to user. **NEVER CHANGE VALVE POSITION WITH PUMP RUNNING!**

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 cap from bottom of filter tank (#18). **DO NOT** remove self-threading drain assembly (#17).
5. 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 (#24). Lift and remove pump and pump base from filter base. Store inside.

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.

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.

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

SAND FILL CHART:

Model FS01619 - 100 lbs.

Model FS02225- 250 lbs.

Model FS01922 - 150 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-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.

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 over-chlorinating, 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**).

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. For Warranty, product must be registered at time of purchase/installation at www.waterwayplastics.com. For Warranty claims or questions, please contact point of purchase.



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