

Sand Filter Assembly Instructions

Read all instructions before assembling.

Warning: If assembled improperly or operated with air in the water circulation system tank can separate and result in an accident or bodily injury. Filters should never be tested or subjected to air or gas under pressure. Compressed air or gas can create a danger causing property or severe bodily injury. A ground fault circuit interrupter (GFCI) is required to avoid electrical shock or death. System requires a designated 110 Volt / 20 Amp service. **Do not use extension cords** as this will void any pump motor warranty. Do not remove warning labels from tank.



This filter system is sold for use with swimming pool systems only. No warranty will apply if improperly installed or used for any application other than filtering swimming pool water.

- Requires #20 grade filter sand. (Never use play sand as this will clog your filter and may cause permanent damage.)
- Never attempt to turn the multiport while the pump is running. This multiport direction valve can only be turned to redirect water path when pool motor is the off position.
- The pressure gauge will indicate amount of trapped dirt. When pressure is greater than 8 to 10 psi over starting pressure or water flow is diminished to pool return inlets it is time to backwash the filter.



Filter – Water travels from pool thru sand filter bed and returns to pool. Used to filter pool water and while vacuuming pool. **Backwash** – To clean filter sand. Turn pump off, set multiport valve to backwash, restart pump for several minutes or until site glass shows clear water. Then rinse filter.(see Rinse below).

Rinse – To clean water inside filter tank. Turn pump off, set multiport valve to rinse, restart pump and flush clean water thru system for one minute. This process should also be done every time filter sand is added or replaced.

Waste - To bypass filter sand when lowering pool water level or vacuuming to waste. Waste will discharge water from pool without entering sand.

Recirculate - Allows water to bypass filter and return directly to pool. **Winter** - Used when closing pool in areas where water can freeze. Be

sure to remove all drain plugs from pump and filter system. Winter plugs can be stored in pump basket for safe keeping until spring. Pump and filter must be completely drained as expanding water can cause damage and is not covered under warranty.

• Filter tank holds 175 pounds of #20 grade sand

Refer to label on face of filter tank for size and recommended amount of filter sand to be applied.



















- 1. Find a flat location for filter before starting assembly. Sand filters for above ground pools should be placed between wall skimmer and return opening on pool wall. Filter systems for in ground pools should not be placed higher than water surface.
- 2. Place motor on base stand and fasten to base with bolts. Drill new holes if necessary. Fasten motor to base stand with nuts and bolts provided.
- 3. Set sand filter tank on black base and turn clockwise to lock into place. Insure tank drain plug faces toward outer edge and away from pump motor.
- 4. Install laterals into center pipe assembly. Each lateral has a raised notch to line up with the base stand notch. Push lateral into round hole and fasten clockwise with a ¹/₄ turn until lateral locks into place. A clicking sound can be heard as the lateral fastens or locks into place. This process must be completed inside tank. Black laterals are positioned in the bottom center of tank with white PVC pipe extending upward.
- 5. Attach clear tube to nipple in black base and extend white fitting upward. This air vent assembly will extend over sand after filter is filled.
- 6. Cover white PVC pipe opening with bag or tape to prevent sand from entering laterals. (remove bag or tape after sand is applied) Be sure center stand is upright and positioned in the center of the filter tank. Fill Tank ¹/₄ full with clean water. Add "*sand filter*" sand slowly into tank. Place air vent inside tank. Insure o-ring is on multiport. Attach multiport to top of filter tank with flange clamps. The inlet marked "PUMP" on multiport should face direction that pump will be installed.
- 7. Install white threaded union adaptor (item #4) into pump position on the multiport hand tight with Teflon tape. Do not over tighten. It is possible to crack multiport if any fitting is over tightened.
- Attach pressure gauge to side of multiport. Use Teflon tape to prevent leaking.
 Do not over tighten pressure gauge. This fitting can crack if over tightened.
- 9. Connect flexible PVC pipe and unions to top of motor and side of multiport position marked "PUMP". Check that o-rings are in the proper position so they do not get pinched during installation.

10. **OPTIONAL** PUMP SHUTOFF VALVE – Thread valve into front of pump housing. Be sure o-ring is intact. Leave in open position until pump basket needs to be cleaned or inspected. Valve stops above ground pool water from flooding pump and allows basket to be easily cleaned, inspected or replaced.

11. Attach pool connection fittings to pump and multiport. Plumbing from wall skimmer attaches to front of pump. Return fitting directs water back to pool. Prime pump housing with water and start motor. Check fittings for leaks. Do not over tighten fittings, check o-rings or reapply Teflon tape as needed.



- 1. Multiport Handle
- 2. Pressure Gauge
- 3. Backwash Site Glass
- 4. Union Adaptor
- 5. Flange Clamps
- 6. O-Ring for multiport
- 7. Air Vent Assembly
- 8. Center Pipe
- 9. Filter Tank
- 10.Laterals
- 11.Filter Drain Plug
- 12.Filter Base
- 13.Pump Drain Plug
- 14.Pump Housing
- 15.Strainer Basket
- 16.Pump lid O-Ring
- 17.Pump Lid
- 18.Male Barbed Adaptor
- 19.Union for hard plumb
- 20.Pump Ball Valve

Problem Solving:

LOW WATER FLOW – Check pump and strainer baskets and clean if necessary. Check for leaks or restricted hoses. Be sure all valves are in proper position. Backwash filter if necessary.

CLOUDY OR GREEN WATER – Check multiport setting is in FILTER position. Check pressure gauge and backwash if necessary. Check pump and skimmer for debris. Check chemical levels and treat water using chemical label instructions.

SAND RETURNS TO POOL – Be sure proper amount of filter sand was applied into tank, do not over fill. Backwash filter. If problem persists, filter lateral may be cracked or broken and needs to be replaced.



Limited Warranty

Super Clear Filters are manufactured using the highest standards of workmanship and quality materials available. To insure proper installation follow the step by step installation guide. Check pump and filter system for leaks or cracks during installation.

- Do not over tighten any fittings
- Insure all o-rings are in place and properly seated
- All threaded fittings without o-rings require Teflon tape
- Do not reuse Teflon tape
- Do not use extension cords with pool pump
- Hardwire a designated 20 amp circuit with ground fault circuit interrupter (GFCI)
- Do not run pump dry, always prime pump before starting
- Do not turn multiport valve while pump is circulating water
- Do not pressure test filter tank with air, gas or water prior or during installation
- Do not allow filter tank or pump to freeze unless completely free of water
- Keep skimmer and pump basket clean and free of leaves and debris
- Backwash filter when pressure gauge increases 8 10 psi over starting pressure
- Super Clear filter systems are to be used only to filter pool water

Freeze damage to filter tank, pump or equipment does not constitute a warranty claim.

Super Clear warrants its products free of defects in materials and workmanship for a period of one year from the date of purchase. Parts which fail or become defective during the warranty period, except as a result of freezing, negligence, improper installation, use or care, shall be repaired or replaced, at our option, within 90 days of the receipt of the defective product, barring unforeseen delays.

To obtain a warranty claim, purchaser must first call (877) 852-4264 toll free, to obtain a valid return authorization number. Customer must have an original copy of sales receipt that is within one year of date of purchase. Customer is responsible to return defective components or parts, transportation paid, to address supplied with return authorization number. Super Clear will not be responsible for cartage, removal and/or reinstallation labor or any other such costs incurred in obtaining warranty replacements.

The foregoing warranty does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply.

This warranty gives Buyer specific legal rights, and Buyer may also have other rights which vary from state to state.

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