

## CHARGING FILTER WITH SAND

After filter has been installed on a clean level base and all piping and electrical wiring to filter pump has been completed, filter is ready to be loaded with sand. Filter sand is NOT supplied to avoid additional shipping weight and possible damage during transit. Filter sand media can be purchased at a local pool supply. (see chart on opposite side for amount and coarseness of sand.)

Before pouring media into filter, look inside and check lower underdrain for broken or loose laterals which may have been accidentally damaged by rough handling during shipping. Replace them if necessary.

Pivot top diffuser pipe by pushing it aside so that it is clear of the top opening. Fill tank with water to about 1" above lateral assembly and fill the filter to the correct level with sand. After filling, pivot top diffuser pipe back to its vertical and centered position. Wash away all sand around threaded opening at top of tank.

Assemble pressure gauge and bleeder valve to closure lid. Clean lid o-ring and lubricate with petroleum jelly or silicone lubricant. Place dome lid on filter and tighten with plastic wrench (included).

## PUTTING FILTER INTO OPERATION

1. Make sure pump is full of water.
2. Open bleeder valve on top of filter.
3. Be sure all valves are open on suction and discharge lines.
4. Position valve handle to backwash position (caution:) never shift valve handle while pump is running.
5. Start pump, tank will fill. When water begins to come out of the bleeder valve, close bleeder valve on pressure gauge. Let run until water beneath lid is clear.
6. Shut off pump and wait thirty seconds. Shift valve handle to the filter position. (caution:) never shift valve handle position while pump is running.
7. Start pump. The unit has started its filtering cycle.

## WHEN TO CLEAN FILTER

To clean (backwash) the filter at the most ideal time, note the pressure when the filter is perfectly clean: when the pressure rises approximately 10 p.s.i. above this pressure it is time to backwash.

## BACKWASHING FILTER

To perform the backwash operation, first shut off the pump. Shift the valve handle to the backwash position. (Position of the valve handle is changed by first pushing down and then rotating to desired location.) Start pump. The unit should backwash until the water appears clean through the transparent closure dome. The backwash operation takes about two or three minutes. Stop the pump, and shift valve handle to the rinse position. Start pump and run for approximately 30 seconds. Stop the pump and turn valve handle to filter position. Start pump, unit has now started a new filtering cycle.

## TROUBLE-SHOOTING

In setting up a filter system for the first time, if there is trouble in starting, or in the event there is a malfunction after it has been in service for a time, there are usually clear-cut signs indicating sources of the difficulty.

IF THE PUMP WILL NOT PRIME: 1. Be sure that pump pot is full of water. 2. Check pot, to see if strainer basket is full of leaves and debris. 3. Check for cracked pump housing and lid. 4. Check for cracked piping or loose connections on the suction line. 5. Tighten all bolts and fittings on the suction side. 6. Check electrical voltage to make sure pump is wired properly.

On long suction lines, it will take several minutes to prime pump. Depending upon the length of piping, it may require five to ten minutes for priming. A vacuum gauge installed at the pump suction will indicate whether the line is gradually being primed. A high reading could indicate a blocked suction line or blocked pump strainer. The rumbling sound made by air in the pump indicates an air leak in the suction line.

Air flowing back into the pool when the pump is shut off indicates the internal automatic air-relief tube in the filter is plugged. Pull the strainer cap from the tubing. Blow air through the tubing until all dirt is removed. Reinstall the strainer cap on the tubing. Large quantities of sand returning to the pool during the filter cycle usually indicate that one or more of the laterals is damaged. Correcting this requires the removal of the sand media from the filter tank so the damaged lateral(s) may be replaced. The filter tank must be refilled with the sand as outlined above and then backwashed as noted above. The filter is then ready to filter the pool water normally.



# SAND FILTER

## Installation & Operation Instructions

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