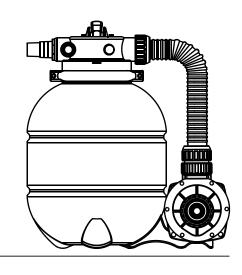


FILTER & PUMP COMBO FSP300



INSTALLATION

- * Install filtration system including pump, filter tank and multiport valve.
- * The filter system should be installed as close as possible to the swimming pool and preferably at a level of 0.50 metres below the surface of the water in the swimming pool. Make sure there is drainage available at the place where the filter is to be installed.
- * PUMP
- 1.Only qualified, licensed personnel should install pump and wiring.
- 2.Electrical Contractors Please Note:All 220 volt 50Hz pump must be wired to the main power supply trough an approved and correctly rated contractor.
- 3.Allow for gate valve in suction piping.
- 4. Pump suction and discharge connections have moulded in thread stops, do not try to screw pipe in beyond these stops.
- * FILTER TANK and MULTIPORT VALVE
- 1.Loading the sand media. Filter sand media is loaded through the top opening of the filter.
- a.Loosen the plastic clamps from tank neck.
- b.Cap internal pipe with plastic cap to prevent sand from entering it.
- c. We recommend filling tank approximately 1/2 way with water to provide a cushion effect when the filter sand is

- poured in. This helps protect the under-drain laterals from excessive shock.
- d.Carefully pour in correct amount and grade of filter sand.Be sure center pipe remains centered in opening.

 Sand surface should be leveled and should come to about the middle of the filter tank.Remove plastic cap from internal pipe.
- 2. Assemble filter control valve to filter tank.
- a.Insert filter control valve(with O'ring in place)into the tank neck,taking care that the center pipe slips into the hole in the bottom of the valve.
- b.Place two plastic clamps around valve flange and tank neck and tighten just enough so that the valve may Be rotated on tank for final positioning.
- c.Carefully screw pressure gauge(with O'ring in place)into tapped hole in valve body.Do not over-tighten.
- d.Connect pump to control valve opening marked PUMP with hose. After connections are made, tighten clamps with screwdrive, tapping around clamp with screwdrive handle to help seat valve flange clamp.
- 3.Make return to pool pipe connection to control valve opening marked RETURN and complete other necessary plumbing connections, suction lines to pump, waste, etc.
- 4. To prevent water leakage, be sure all pipe connections are tight.

-Install/start-up of filtration -

- 1. Be sure correct amount of filter media sand is in tank and that all connections have been made and are secure.
- 2. Depress control valve handle and rotate to BACKWASH position. (To prevent damage to control valve seal, always depress handle before turning.)
- 3. Prime and start pump. Never tun pump dry! Running pump dry may damage seals, causing leakage and flooding! Fill pump with water before starting motor. (be sure all suction and return lines are open), allowing the filter tank to fill with water. Once water is flowing out of the waste line, run the pump for at least 1 minute. The initial back-washing of the filter is recommended to remove any impurities or fine sand particles in the sand media.
- 4. Turn pump off and set valve to RINSE position. Start pump and operate until water in sight glass is clear, about 1/2 to 1 minute. Turn pump off and set valve to FILTER position and

- restart pump. The filter is now operating in the normal filter mode, filtering dirt particles from the pool water.
- 5. Adjust pool suction and return valves to achieve desired flow. Check system and filter for water leaks and tightenconnections, bolts, nuts, as required.
- 6. Note the initial pressure gauge reading when the filter is clean. (It will vary from pool to pool depending upon the pump and general piping system.) As the filter removes dirt and impurities from the pool water, the accumulation in the filter will cause the pressure to rise and flow to diminish. When the pressure gauge reading is 1.5 bar, higher than the initial "clean" pressure you noted, it is time to backwash the filter (see BACKWASH under filter and control valve functions).
- NOTE: During initial clean-up of the pool water it may be necessary to backwash frequently due to the unusuallyheavy initial dirt load in the water.

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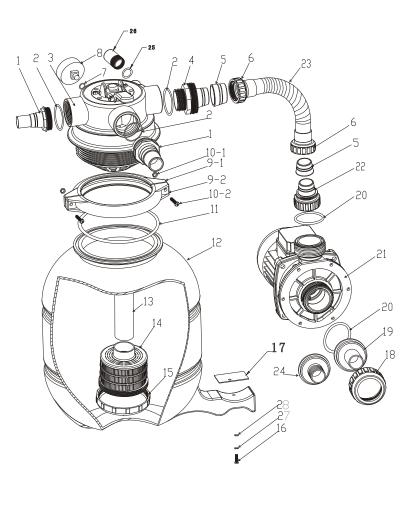
PRIMING PUMP

- * Release all air from filter and piping system.
- ❖ In a flooded suction system (water source higher than pump), pump will prime itself when suction and discharge valves are opened.
- ❖ If pump is not in a flooded suction system, unscrew and remove trap cover; fill trap and pump with water.
- Clean and inspect Ring; re-install on trap cover.
- Replace trap cover on trap; turn clockwise to tighten cover.

NOTICE: Tighten trap cover by hand only .Pump should prime now. Priming time will depend on vertical length of suction lift and horizontal length of suction piping.

REPLACEMENT PARTS OF FILTER

Item	Part No.	Description
1	01013051	Adaptor
2	02011151	O'ring for adaptor
3	88281205	1.5" Valve
4	01013047	Hose adaptor
5	02011026	Gasket
6	01013046	Union nut for hose
7	02011029	O'ring for pressure metre
8	06021001	Pressure metre (plastic / oil)
9-1	01271014	Clamp (left)
9-2	01271015	Clamp (right)
10-1	03021018	Nut for clamp
10-2	03011095	Screw for clamp
11	02011134	O'ring for filter
12	01331001	Filter tank
13	01151218	Centre pipe
14	01172031	Filtration core
15	01172032	Cap for filtration core
16	03011068	Screw for pump fixation
17	02011160	Plastic spacer
18	01013017	1.5" union nut
19	01013053	Φ 32mm union
20	02011103	O'ring for pump
21	88023001	ST model pump
22	01013049	Union sets
23	01093007	Plastic hose
24	01013045	Φ38mm union
25	02011008	O'ring for sight glass
26	01041004	Sight glass
27	03012008	Spring washer
28	03012005	Spring washer



WARNING



THIS FILTER OPERATES UNDER HIGH PRESSURE. WHEN ANY PART OF THE CIRCULATING SYSTEM (e.g., CLAMP, PUMP, FILTER, VALVES, ETC.) IS SERVICED, AIR CAN ENTER THESYSTEM AND BECOME PRESSURIZED . PRESSURIZED AIR CAN CAUSE THE LID OR VALVE TO BE BLOWN OFF WHICH CAN RESULT IN SEVERE INJURY, DEATH, OR PROPERTY DAMAGE



TURN PUMP OFF BEFORE CHANGING VALVE POSITION.



TO PREVENT DAMAGE TO THE PUMP AND FOR PROPER OPERATION OF THE SYSTEM, CLEAN PUMP STRAINER AND SKIMMER BASKETS REGULARLY.



DO NOT UNSCREW SCREWS OF FLANGE CLAMP WHILE PUMP IS RUNNING.