

# MAGNA-FLO CARTRIDGE FILTER

## Assembly & Operating Instructions



FILTER	SIZE	FLOW RATE	VOLUME	HEIGHT	WIDTH
MF50	50 sq/ft	3.70 LPM	185 LPM	570mm	260mm
MF75	75 sq/ft	3.70 LPM	278 LPM	870mm	260mm
MF100	100 sq/ft	3.70 LPM	370 LPM	940mm	260mm
MF150	150 sq/ft	3.70 LPM	555 LPM	1020mm	260mm

### COMPONENTS



1	Filter Tank	5	Filter Centre Tube	9	Pressure Gauge Adaptor
2	Barrel Unions (2)	6	Filter Lid	10	Pressure Gauge
3	End Cap	7	Filter Lid Oring	11	Air Bleed Valve
4	Cartridge Filter 50-150sq/ft	8	Filter Lid Lock Ring	12	Air Bleed Valve Oring

## A. Installation

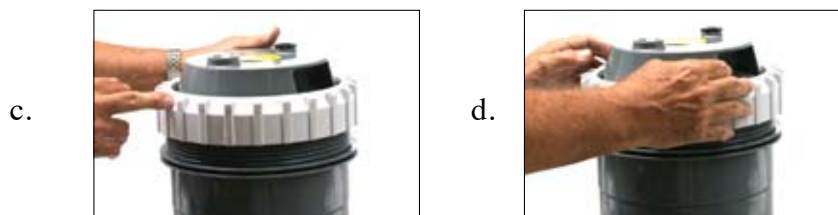
1. Prepare a firm base for the filter tank to stand on, preferably a concrete slab. Allow sufficient space around the filter tank to do routine maintenance.
2. Glue the two Barrel Unions into the inlet and outlet ports. Glue the End Cap into the inlet port not being used.



3. Remove the filter lid from the tank body (a). Make sure the cartridge filter is correctly assembled into the tank bottom (b).



4. Replace the tank lid, making sure the Oring is in place (c). Thread the Lock Ring onto the tank body, making sure that it holds the lid firmly in place (d).



5. Thread the Air Bleed Valve into the filter lid (e). Thread the Pressure Gauge, with Adaptor attached into the filter lid (f). Complete (g).



6. Connect the pool's plumbing at the base of filter to the Barrel Unions, making sure the inlet and outlet pipes are correctly identified.

INSTALLATION IS COMPLETE.

## B. Operating Instructions

1. **To prime pool pump.**  
Remove the pump's hair and lint pot lid. Fill the hair and lint pot with water. Replace the pump lid, making sure the rubber Oring is clean. (Remove any sand particles or other debris). Tighten the pump lid.
2. **Start Up**  
Make sure the Filter Lid and Barrel Union connections are tight and secure.  
Check the water level in the pool. It should be filled to at least halfway up the mouth of the Skimmer Box.
3. Open the Air Bleed Valve on the Filter Lid.



Switch on the pump. The pool water begins circulating through the pools reticulation system.

As the water fills the filter tank, air is expelled out of the Air Bleed Valve. Once the water starts to flow out of the valve, close it firmly. The Filter Tank is now full of water.

4. The filtration system should operate at a pressure between 50 & 70 KPA. As the dirt load in the cartridge filter increases, the operating pressure also increases. When the pressure reaches 100 KPA the cartridge filter should be cleaned.

### C. Cartridge Filter Cleaning Procedure

1. Switch off the pool pump.
2. Close isolating valves on the inlet and outlet pipes, if installed. If not ignore this procedure.
3. Open the air bleed valve located on the filter lid.
4. Unscrew the lock ring and remove the filter lid.
5. Lift the cartridge filter out of the tank body.
6. Clean the cartridge filter with a high pressure garden hose. For best results use a **POOL RANGER HIGH PRESSURE NOZZLE**, to clean between the filter folds.



7. To remove body oils, suntan lotion, calcium, clay or any other contaminant, soak the cartridge filter in a solution of **POOL PROTECTOR ELEMENT CLEANER**, available from your local pool shop.

**TO RE-ASSEMBLE AFTER CLEANING - SEE FILTER INSTALLATION - A.**

### D. General Considerations

1. Locate the pump and filter as close as possible to the pool. If the pump is located 750mm above the water level, place a non-return valve in the suction line in front of the pump.
2. If the pump and filter are located below pool water level, valves should be placed in both the suction and return pipes, to prevent the pool water flowing back during routine maintenance.
3. **MAKE SURE THE PUMP AND FILTER ARE PROTECTED FROM THE WEATHER.**
4. Place the pump and filter in a well drained area. Damp, non ventilated locations should be avoided. Pump motors need free circulation of air to aid in cooling.
5. Electrical connections should be made in accordance with all local codes and ordinances. **DO NOT USE LONG EXTENSION LEADS.**
6. Provide enough space around the filter and pump for routine maintenance.