



## Cartridge Filter

HT-CF25  
HT-CF50  
HT-CF75  
HT-CF100  
HT-CF150



### USER MANUAL

Please read this manual in details before using cartridge filter and keep it properly in order to consult in the future.

## Warning

- 1.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 the system 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.
- 2.Turn pump off before changing valve position.
- 3.To prevent damage to the pump and for proper operation of the system, clean pump strainer and skimmer baskets regularly.
- 4.Do not unscrew screws of flange clamp while pump is running.

## Function

Cartridge filtration is an effective trouble-free proven method of filtration.Pool water enters the filter and passes through a polyester single element cartridge.Suspended particles are trapped and the water is returned to the pool.As the build-up of dirt in the element increases,so the water pressure rises and the flow decreases.When the pressure reaches an unacceptable level.The element must be removed and cleaned (spray washing with a common garden hose is generally sufficient)

## Installation and operation instructions

### Location:

The filter should be placed in its permanent location, preferably as close to the pool or spa as practicable.Position the filter tank and pump on a level concrete slab or similar base. Allow sufficient space around the filter for routine maintenance and provide for adequate ventilation and drainage.

Place the pump in position on the slab and locate the filter along side with the appropriate pump inlet connection orientated towards the pump. Refer to the specifications section for the minimum clearance measurements required for each model.

### Assembly:

#### 1)Pump to filter

The cartridge filters are equipped with two inlet ports marked 'INLET'. Select the inlet port most suitable for the installation and plug the other inlet port with blanking cap provided.Using quick connect couplings,connect the pool pump delivery piping to the selected inlet port couplings,connect the pool pump delivery piping to the selected inlet port. Tighten by hand only.Ensure the 'O' lubricant and in the correct position.

#### 2)Filter to pool Return

Using quick connect coupling,Connect the pool return piping to the filter fitting marked 'OUTLET' Tighten the fitting by hand only. Ensure the 'O' ring on the fitting is clean, lubricated with 'O' ring lubricant and in the correct position. The filter base is provided with four mounting holes to enable it to be secured, if required.

## **Filter operation:**

- 1) Make sure the pump is primed according to manufacturer's directions.
- 2) Be sure all valves are open on suction and discharge lines. Ensure the air bleed valve on the filter lid is open and the lid lock ring is in place and secure.
- 3) Start the pump. Close the air bleed valve when water is expelled.
- 4) To determine the correct operating conditions with a clean filter, check that the pressure gauge reading is 80kpa or below.
- 5) Record the pressure gauge reading or mark the needle position on the face of the pressure gauge.
- 6) Operate the filter for a sufficient time to circulate the total pool water volume daily. The filter should also be operated at all times the pool is in use and for about one hour afterwards. During winter, the running time may be reduced. Filter operating requirements will vary for spa applications. Depending upon the system design, type and size of spa. Consult your builder or spa supplier.
- 7) When the pressure gauge reading is 50-70kpa higher than the 'clean filter' reading as in (4) above, it is time to clean the cartridge element (see Cartridge Cleaning Procedure)

## **Cartridge cleaning procedure**

When the filter gauge reading is 50-70kpa above the clean filter gauge reading cleaning the single element cartridge is required. To perform the cleaning

- 1) Switch off the pump.
- 2) Close isolating valves on suction and discharge lines where fitted.
- 3) Open the air bleed valve on the filter lid. Unscrew the lock ring and remove the filter lid.
- 4) Lift out the cartridge element.

### **NOTE**

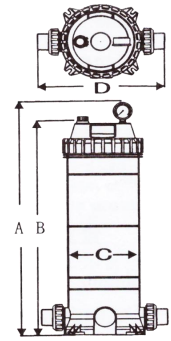
Algae, calcium, clay, suntan oil and body oils can form a coating on the element which may not be easily removed with normal hosing. These materials can be removed by soaking the element in a de-greaser and/or descaler. Your local dealer will be able to recommend suitable products.

### **Cartridge Re-assembly Instruction**

- 1) Install the cartridges and center pipe so that it is located in the bottom spigot.
- 2) Ensure the filter lid 'O' ring is clean, lubricated with 'O' ring lubricant and located in the bottom groove.
- 3) Replace the lid and press firmly in place. Screw down the lock ring, hand tight is sufficient-DO NOT OVERTIGHTEN.

## Specifications

Model	High	High	Diameter	Diameter	Filtration Area	Design Flow
	A(mm)	B(mm)	C(mm)	D(mm)	(m <sup>2</sup> )	(m <sup>3</sup> /h)
HT-CF25	445	387	225	397	2.25	5.5
HT-CF50	625	567	225	397	4.63	11.4
HT-CF75	805	747	225	397	7.00	17.0
HT-CF100	985	927	225	397	9.38	22.9
HT-CF150	1165	1107	225	397	13.72	33.4



## Replacement parts

Key No.	Product description	Qty
1	Oil pressure gauge with O-ring(40psi)	1
2	Connector for pressure gauge/stopper	1
3	Air release valve	1
4	Ring lock for cartridge filter	1
5	Cartridge filter lid	1
6	O-ring for lid	1
7	CF25 PVC air vent pipe with cover	1
	CF50 PVC air vent pipe with cover	1
	CF75 PVC air vent pipe with cover	1
	CF100 PVC air vent pipe with cover	1
	CF150 PVC air vent pipe with cover	1
8	CF25 Element	1
	CF50 Element	1
	CF75 Element	1
	CF100 Element	1
	CF150 Element	1
9	CF25 Cartridge filter body	1
	CF50 Cartridge filter body	1
	CF75 Cartridge filter body	1
	CF100 Cartridge filter body	1
	CF150 Cartridge filter body	1
10	1.5" union for cartridge filters	2
	2" union for cartridge filters	2
11	Plug	1
12	Pressure release valve	1

