



by **HY-CLOR**

Installation & Operation Manual



Cartridge Filter CF Series

POSEIDON
POOL & SPA PRODUCTS

by **HY-CLOR**

**SWIMMING POOL
CARTRIDGE FILTER**
Maximum Operating Pressure 250kpa

| Model | Flow Rate | Pressure | Weight |
|--------|-----------|----------|--------|
| CF 100 | 100 GPM | 250 kPa | 100 kg |
| CF 200 | 200 GPM | 250 kPa | 200 kg |
| CF 300 | 300 GPM | 250 kPa | 300 kg |
| CF 400 | 400 GPM | 250 kPa | 400 kg |
| CF 500 | 500 GPM | 250 kPa | 500 kg |

For further information
call **1800 625 123**
www.hyclor.com.au

Hy-Clor and Poseidon Trademarks of
HY-CLOR AUSTRALIA PTY LIMITED
ABN 81 000 655 381
Level 5, 15 Orion Road, Lane Cove NSW 2066, AUSTRALIA
help@hyclor.com.au

*Congratulations on purchasing your **POSEIDON™** Swimming Pool Cartridge Filter.*

POSEIDON™ Cartridge Filters are manufactured to the highest standards using the latest moulding techniques and will provide you with many years of reliable service.

This installation and operation manual provides you with all the information and tips necessary to successfully install your **POSEIDON™** Cartridge Filter.

Should you experience difficulties whilst installing or operating your filter please contact our help desk on 1800 625 123.

POSEIDON™ Cartridge Filters can be installed in new and existing swimming pool applications.

In new swimming pool applications the filtration equipment should be installed as close as practical to the swimming pool.



Take into consideration all local or state laws and regulations regarding electrical installation as the electric pool pump needs to be installed alongside the cartridge filter.

When replacing an existing filter system with your new **POSEIDON™** Cartridge Filter you must allow sufficient room for the cartridge filter to fit. Please take into account that you will require sufficient height to lift the cartridge out for servicing.



CAUTION

A flat hard surface (preferably concrete) is required when installing this product.

Once you have positioned the filter you can commence installation. Ensure you are satisfied with the location as once the filter is in place it becomes heavy and should not be moved.



Before commencing the installation of your POSEIDON™ Cartridge Filter please study this section making sure you have all the parts as shown. You will need all parts to successfully install the POSEIDON™ Cartridge Filter.



FILTER TANK



CARTRIDGE



PRESSURE GAUGE



2 X NUTS, TAILS & ORINGS



LID PLUG & ORING



LID COLLAR & ORING

FILTER ASSEMBLY

The **POSEIDON™** Swimming Pool Cartridge Filter comes fully assembled in the carton except for the barrel unions, pressure gauge and drain plug, making it simple to install to new and existing swimming pool installations.

1. Once you have selected a position for your **POSEIDON™** Swimming Pool Cartridge Filter remove the contents from the carton.
2. Ensure you have all the components necessary to complete the installation, check the parts list for confirmation
3. Attach the two barrel unions provided to the inlet and outlet of the cartridge filter tank. The inlet from the pump is the higher barrel union (marked) from pump and the return is the lower barrel union (marked) to pool.



- 4. Using thread tape screw the pressure gauge provided into the lid of the cartridge filter, making sure that you do not use too much tread tape (approximately two to three wraps around thread) as you may crack the cartridge filter lid if you use too much thread tape.**
5. Ensure you have screwed down the air release screw into the treaded hole on the cartridge filter lid.
6. Ensure you also screw the drain plug into the tank base (internal threaded) port. Make sure that the o ring is located on the drain plug screw.

TIP

It makes no difference which threaded hole in the cartridge filter lid is used for the pressure gauge or the air release screw. Depending on the location of the **POSEIDON™** Cartridge Filter it is advisable to locate the pressure gauge where you can easily see it for cleaning purposes.

INSTALLATION

Having successfully assembled the **POSEIDON™** Swimming Pool Cartridge Filter it is now time to install the cartridge filter.

1. On existing systems commence the reconnection of the pump, filter and return line using the appropriate UPVC fittings, class 9 or 12 UPVC plumbing pipe and approved glue and priming fluid.
2. The installation of the cartridge filter and pump is a simultaneous operation as you have had to find an appropriate place to house the equipment. In most general installations you will have either been provided with or connected yourself a Suction line from the skimmer box in the pool, a return line to the pool and a waste line to the sewer. Place the pump and filter side by side allowing for the easy hook up from the plumbing. Ensure that you use the appropriate UPVC fittings, Class 9 or 12 UPVC Plumbing pipe and approved glue and primer.
3. A waste line is often installed when the pool is first installed and is used for back washing sand and D.E.type filters. Cartridge filters do not require backwashing so you may cap and disregard the waste water line if installed. Some people utilize the existing waste line with cartridge filters so they can drain down the swimming pool during periods of heavy rain (diagram) of this type of installation follows.
4. If you are installing a swimming pool pump with this cartridge filter please install the pump first following pump installation and operation instructions or please see **HY-COLOR** web site www.hyclor.com.au to obtain this information if it is not supplied by your chosen pump supplier.
5. Once you have installed the pump you now must connect the pump to the cartridge filter body. Using UPVC pipe, either class 9 or 12, cut sections of pipe and using UPVC fittings attach the pipe from the pump outlet to the filter inlet. The pump outlet is the top union out of the back of the pump body and the filter inlet is marked on the thread (from pump). Once you are satisfied with the pump to filter plumbing you may clean the pipe and fittings with an approved pipe priming fluid and then glue together with an approved UPVC pressure glue.
6. Using UPVC pipe and fittings attach the filter to the swimming pool return line ensuring that you prime the pipe and fittings with priming fluid before gluing the pipe and fittings together.
7. You have now installed the **POSEIDON™** swimming pool cartridge filter. Please leave the system turned off for 24 hours to allow the glue to set properly before turning on the system.

OPERATION

Once the **POSEIDON™** Cartridge filter has been installed it is important to regularly maintain the filter to maximise the life span of the unit.

Cleaning the cartridge element is the main task required for optimum operation.

To clean the cartridge element the following steps must be done.

1. Turn off the swimming pool pump.
2. Release the air pressure by undoing the air bleed screw.
3. Remove the lid by first unscrewing the black lock ring. lift the lid off by levering the lock ring upwards.
NOTE THAT THE LID AND LOCK RING ARE ATTACHED TOGETHER.
4. Take out the pleated cartridge element
5. Hose the element out using a garden hose ensuring that you get all the dirt and debris from between the pleats.
6. Once clean replace the element back into the filter tank. In the bottom of the tank there is a raised section with a hole in it. Push the cartridge element firmly onto the raised section.
7. Place the lid back onto the filter tank ensuring the raised section in the underside of the lid is firmly pushed into the top of the pleated cartridge element.
8. Screw the lid firmly down. **DO NOT OVER TIGHTEN THE LID AND LOCK RING.**
9. Turn on the swimming pool pump and slowly do up the air release screw until water comes out of it, then tighten fully.
10. The filter is then operating again.
11. Make a note of the pressure of the filter operation now the filter is clean.
12. Do not reclean the filter until the pressure on the gauge increases 50kpa above the clean pressure.

It may be necessary to use a cartridge cleaning compound periodically to clean out the pleated cartridge element thoroughly.

This is done as after a period of time dirt and fine debris gets trapped inside the element pleats where regular hosing will not clean. This should be performed at least annually.



Do not clean the pleated cartridge elements with any other chemicals unless authorised by HY-CLOR AUSTRALIA PTY LTD to do so.

For further information
call **1800 625 123**
www.hyclor.com.au

Hy-Clor and Poseidon Trademarks of
HY-CLOR AUSTRALIA PTY LIMITED
ABN 81 000 655 381
Level 5, 15 Orion Road, Lane Cove NSW 2066, AUSTRALIA
help@hyclor.com.au