

SAMOA
INSTALLATION MANUAL

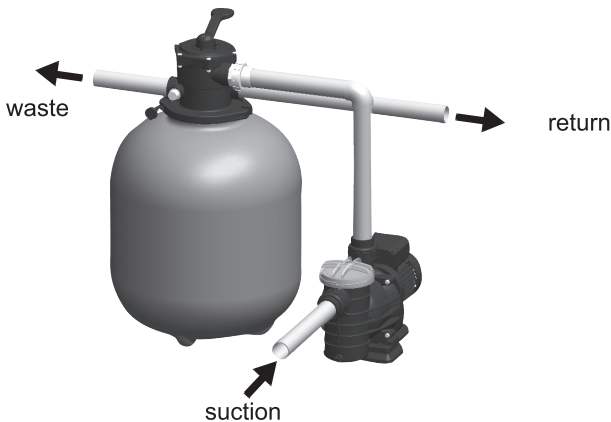


INSTALLATION

The filter 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.

⚠ IMPORTANT: Do not use an iron and hemp pipe for the selector valve connection, it is essential to use plastic accessories and TEFLON tape. Pipe terminals are available threaded fixing in 1 ½ " and 2".

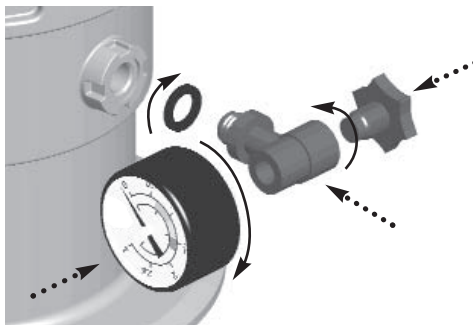
Always leave enough space round the filter in order to perform the necessary examinations and maintenance during the filter's life.



ASSEMBLY

Follow these indications for a correct assembly of the filter:

- 1.- Place the filter on a horizontal and clean surface.
- 2.- Place the filter in its final location.
- 3.- In case of a filter with a lateral valve, install the selector valve in the filter. Make sure that the joints between the valve and the filter are correctly placed.
- 4.- Perform the three connections of the selector valve: pump piping to the valve, valve to the waste drain and valve to the pool return. Each of these three outlets is clearly identified on the valve.
- 5.- Set the manometer T, the joint, the manometer and the air drainage (see exploded view). It is not necessary to use Teflon tape, as the watertightness is guaranteed in this case by the joint. Do not tighten the manometer T with a tool, as manually will be sufficient.



Assembly of the manometer (with top valve)

SAND LOAD

In order to obtain maximum efficiency from your filter, it should be filled with silica sand with a grain size classification of 16 / 32 inches. With the quantity indicated on the plate specifying the characteristics; proceed as follows:

- 1.- Load up when the filter is installed in position and the connection pipes have been joined.
- 2.- Take off the lid and joint.
- 3.- Fill the filter with water to half capacity.
- 4.- Pour the required quantity of sand inside the filter.
- 5.- Clean the seating of the lid joint.
- 6.- Fix the filter lid in place.

FILTRATION PROCESS

The selector valve has a handle of 6 positions that selects any of the necessary operations to obtain the maximum efficiency from the filter.

⚠ IMPORTANT: Always switch off the pump, when changing the position of the selector valve.

FILTRATION

With the pump switched off, place the handle of the selector valve in the FILTERING position.

Switch on the pump.

During this operation, it is advisable to observe the pressure gauge from time to time as this indicates the degree of saturation of the filter. When the pressure reaches 18.5 PSI a "BACKWASH" should be carried out. The main drain and skimmer valves will be regulated according to the quantity of floating material found on the surface of the water. Bear in mind that with the main drain valve fully open there will be little suction from the skimmers. If the surface sweep of the skimmers is to be stronger, reduce the flow from the main drain.



0,8 kg/cm² - 11,4 PSI: Normal pressure at the beginning of a filtering cycle.



1,3 kg/cm² - 18,5 PSI: This pressure indicates that it is necessary to "BACKWASH".

BACKWASH

Each load of sand forms thousands of channels which pick up all the material contained and caught up in the filtering process, the number of free channels allowing the water to pass is continually decreasing. This is why the pressure rises progressively until it reaches 1,3 Kgs/cm². At this pressure the filtering sand is unable to collect any more impurities and must be cleaned as follows:

Turn the selector valve to the "BACKWASH" position and with the main drain and return valves open, switch on the pump and run it for 2 minutes. When this operation is completed, the dirt blocking the filter will have been removed.



RECIRCULATE

In this position, the selector valve allows the water from the pump to go directly to the swimming pool without passing through the inside of the filter.



WASTE

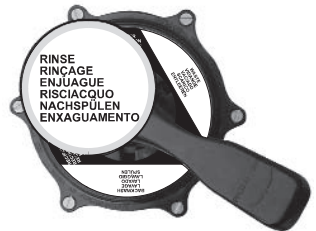
If the swimming pool needs to be drained, this can be done using the filter pump. In order to do this, the selector valve should be in the "WASTE" position. The motor is run with the main drain valve fully open, for the pump to have sufficient suction. For the pump to suction, keep the prefilter and the main drain pipes full of water. Before drainage, make sure that the skimmer valves and the bottom cleaner valves are closed.



RINSE

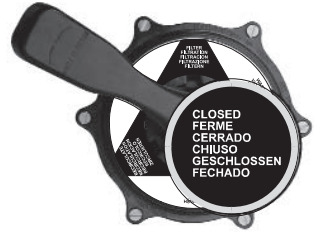
After the carrying out the "BACKWASH" operation on the filter and placing the installation in the "FILTER" position, the water flowing into the swimming pool will be cloudy for a few seconds, so to prevent it from reaching the swimming pool there is a "RINSE" position for the selector valve which is operated as follows: immediately after the "BACKWASH" put the valve in the "RINSE" position and switch on the pump for 1 minute, after which the pump is switched off and the valve placed in the "FILTER" position.

This position ensures that the filtered water goes directly to the drain.



CLOSED

As its name indicates, this position is for closing off the water from the filter to the pump and it is used for opening the collector prefilter of the pump.



START-UP

When the filter has been loaded, the sand must be washed. Proceed as follows:

- 1.- Place the selector valve in the "LAVADO" (BACKWASH) position.
- 2.- Open the valves controlling the swimming pool suction pipes and run the pump for 4 minutes.
- 3.- Stop the pump, place the handle of the selector valve into the "RINSE" position and rinse for 1 min. Then, stop the pump and place the handle of the selector valve into "FILTRATION" (FILTERING) position.

When this has been done, the filter will be ready to start the filtering cycles for the water in the swimming pool.

⚠ IMPORTANT: The pump should be switched off when the position of the selector valve handle is being changed.

MAINTENANCE

Do not use solvents for cleaning the filter, this could damage the filter, especially its finish.

Always replace the joints and pieces that may not be in good condition.

Backwash and rinse when needed, as per the instructions specified in this manual.

Clean the sand every year for a better performance with solid or liquid ASTRAL Filnet product. It's recommended to change the sand inside the filter approximately every 3 years.

Winter period:

In order not to damage the filter during the winter period, please follow the instructions below:

Perform a backwash and a rinse as previously detailed.

Remove the water from the filter.

Take off the lid to ventilate the filter in the period of inactivity.

When you need to start up the filter again after a period of inactivity, follow the instructions stated in the paragraph "START UP".

THE MOST COMMON PROBLEMS

EFFECT	POSSIBLE CAUSE	SOLUTION
The filter only provides a small volume of the filtered water. Vacuum heads have poor suction.	Prefilter blocked.	Clean filter.
	Motor turning the wrong way.	Check by the arrow on the body of the prefilter which way the motor is turning, if this is not correct, reverse the motor connections*.
	Suction pipes are blocked.	Proceed to clean.
The pressure rises rapidly during a filter cycle.	Water pH is high (Cloudy water).	Decrease the pH with ASTRAL pH-MINOR.
	Lack of chlorine (Greenish coloured water).	Add chlorine.
The pressure gauge varies considerably.	The pump is taking in air.	Check for leaks in the prefilter and suction pipes.
	Suction is half closed.	Check that the suction valves are completely open.

*If there is no arrow, the direction of the motor can be checked as follows:

Stand in front of the pump, i. e. where the inlet pipe is situated (with the motor behind). Make sure that the direction of the motor is anticlockwise.

SAFETY WARNINGS

Never start up the system without water.

Whenever you operate the filter or the selector valve, switch off the pump first.

Never allow children or adults to sit on the system.

Do not connect the filter directly to the water network, as the pressure of the water may be too high and exceed the maximum work pressure allowed by the filter.

Do not clean the lid with solvents, as it may damage its properties (finish, transparency ...).

As all the connections are made with joints, it is not necessary to tighten the nuts excessively in order to avoid that some plastic pieces could break.