

INSTRUCTION MANUAL FOR COMMERCIAL MEDIA FILTER

Model - F1200, F1400, F1600, F1800
F2000, F2300, F2500 & F3000

WARNING!

To avoid property damage and ensure your personal safety,
PLEASE READ THIS DOCUMENT CAREFULLY.

INTRODUCTION

This manual provides the necessary instructions to install, use and maintain bobbin wound filters. In order to obtain the benefits that are indicated in the characteristics, all the instructions that appear in this manual must be followed. This will offer a safe and long-lasting installation.

The equipment's supplier will provide further information to user whenever assistance is needed.

DESCRIPTION

These filters have been designed to provide water filtration in pools and water parks, also for all water treatments that require the elimination of suspended matter using the proper reduction of filtration element.

Apart from the filter itself, filtration and depuration process include some points that must be taken into account as they can influence the correct filter operation. These would be chemical water treatment, pump equipment, pipe segments and general hydraulic design. When public pools are concerned, the current rules in each country should be observed, as the installation must follow them.

The filtration quality depends on different parameters as depth of filtration bed, characteristics, quality and grade of filtration media, etc, as well as filtration rate.

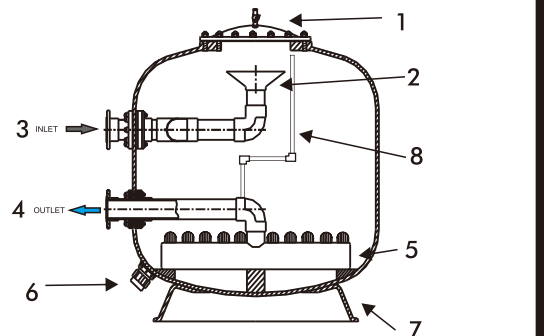
FILTER'S CHARACTERISTICS

The tank is made of resin of polyester and glass fiber, totally anticorrosive. Inside, it contains collectors and diffusers made of unalterable plastic material (PVC and ABS), proof against salt-water. They are supplied for a working pressure of 2.5 kg/cm² to 4 kg/cm² and maximum temperature of 43°C. Other specifications can be supplied upon requested.

Filtration rates may be 20, 30, 40 and 50 m³/h/m², depending on the application and the kind of filtration elements that have been selected. Rate 50 is not advisable in public pools.

SPECIFICATIONS

1. Polyester-glassfiber lid.
2. Top diffuser.
3. Inlet for water to be filtered.
4. Filtered water outlet.
5. Collector system.
6. Drainage hole for water.
7. Base.
8. Vent tube



NOTE

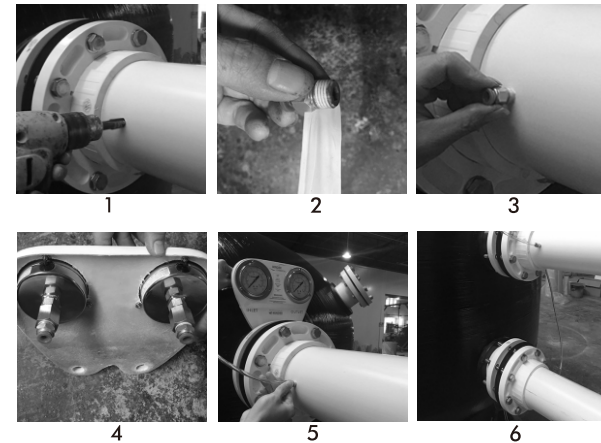
NOTE

INSTALLATION

It has to be done with the pump stopped and valves in position. Filters are delivered properly packed and ready in order to facilitate unloading and transport using fork-lift truck, crane, etc. It is very important to make sure that the filters have not suffered bumps during transport.

To obtain a correct filter installation, the following stages must be observed:

1. Install filters in their final location.
2. Install correctly the butterfly valves and pressure gauge panel in the filters.
3. Install butterfly valves supports and regulate them correctly (height, etc.)
4. Connect butterfly valves with the pipe of the pumps, return pipes and drain.
5. Check the inner parts of each filter (collectors, top diffusers).
6. Fill the filters with water and check if there is any leak.
7. Empty half the water and add the filtration element (gravel, sand and/or anthracite), etc.



FILTER LOCATION

It is acceptable to place the filters under the water level. However if vacuum occurs in the installation, suction cups must be installed in the lids to avoid that **depression could collapse the filter's tanks**.

Filters are not designed to operate or handle negative pressure.

Filters must be situated so that their bases are perfectly level and completely supported by the floor.

The location must be of appropriate size to allow maintenance periodic verhauls and other work. Additionally the room must provide a drain to allow, in case of accident, evacuation of water flowing from any tube, filter, pump, etc. this will avoid risk of damages in the electrical installations (pumps, electric panels, etc.)

Manometers.

The manometer panel had been installed in the filter. In pools filters, the usual pressures when the filter is clean are:

Inlet pressure: 0.8-1 Kg/cm².
Outlet pressure: 0.4-0.6 Kg/cm².

STARTING

Before filling filters with sand or other filtration elements, it is advisable to check the internal collectors to make sure that they have not been damaged during transport or installation.

Afterwards, fill the filters with water and make hydraulic test. Thus, you will make sure that there is no leak and that the equipment works properly.

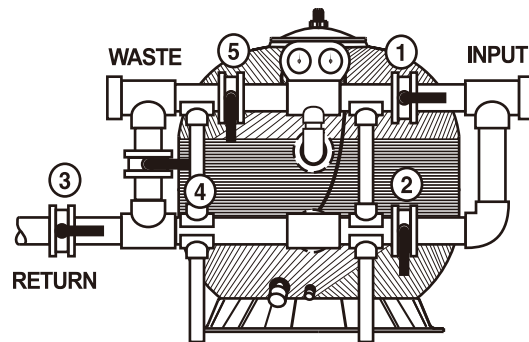
Then stop the pumps, open each filter's lid (**the filter must not be emptied without opening the lid, as it could collapse**) and empty half the water that each filter contains. Then, start filling the filter with sand or other filtration elements, taking into account that first of all you must put gravel up to the collector arms (10 cm approx.)

This must be done very carefully in order to avoid any damage in the lower components of the filter. When the filter is being filled with sand, this must be carefully spread over the surface.

Once the filter has been completely filled with water, start the performance of installation, venting manually to eliminate all the air that could be inside the filter, as the presence of air impairs the filter performance.

If a vacuum forms in the filters, it is necessary to install double effect suction cups, these will also act as automatic air purifiers and would avoid that the tank could collapse.

After this, the filter has been ready for working process.



	①	②	③	④	⑤
FILTER	open	close	open	close	close
BACKWASH	close	open	close	close	open
RINSE	open	close	close	open	close
WASTE	open	close	close	close	open
RECIRCULATE	close	open	open	close	close

EMPTYING FILTER MEDIA

To change sand or filtration elements, proceed as follows:

1. Remove top lid.
2. Drain filter's water and sand through the lower drainage hole.
3. If there is room, sand can be removed through the man hole.
4. To refill the filter with sand, follow the instructions given in starting, checking first of all that the drainage hole has been perfectly fitted and that it does not leak water.

OTHER RECOMMENDATIONS

If the equipment has been stopped during a long period of time, it is advisable to empty the water filter.

If the filter is situated outside, it is advisable to paint it with a suitable product every two years.

In standard filters, ozone water treatments must not be used and pressure and temperature specifications must not be exceeded. Contact our technical department if you have any doubt about the use of our filter.

During the washing process, pressure must never exceed 1 kg/cm² for filters with plate with nozzles.

Optionally, high performance filters can also be delivered with lateral man hole and sight glass, as well as special inner finishes of high maintenance quality and chemical resistance.

WARRANTY

This filter has been manufactured using the best high technology materials and manufacturing process, going through strict quality tests on materials, finishes and performance.

All those bumps, rips and breakages caused by an inadequate use of the product or by ignoring our recommendations are not included in this guarantee.

The correct performance of the filter's tank and the internal components is guaranteed for 1 year.

