

Filter tank made from GRP

Fibertech Pro Series
500 | 610 | 765 | 920 | 990



Premium pool equipment

1. Technical data

Outer diameter [mm]	510	620	770	920	1010
Inner diameter [mm]	480	590	740	900	975
Height [mm]	1100	990	1150	1150	1150
Filter bed [mm]	600	600	600	600	600
Top aperture [mm]	290	290	290	290	290
Filtration area [m ²]	0,190	0,273	0,430	0,636	0,75
Volume of the tank [m ³]	~ 0,145	~ 0,268	~ 0,452	~ 0,636	~ 0,784
Filtration system	Laterals with 6 or 8 candles				
Flow (v = 35 m/h)	6,33	9,57	15,05	22,27	26,3
Flow (v = 40 m/h)	7,24	10,94	17,20	25,45	29,8
Flow (v = 50 m/h)	9,05	13,65	21,50	31,81	37,5
Net weight [kg]	32	40	52	67	82
Space requirement	1,0 mt. in the front; 0,5 mt. all around				

2. Filling quantity

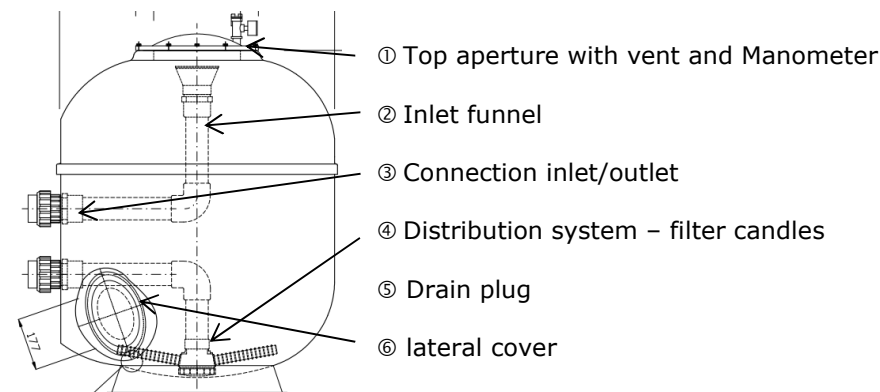
	510	610	765	920	990
A.F.M. filter layer	126 kg	210 kg	315 kg	483 kg	567 kg
Sand filter layer	150 kg	250 kg	375 kg	575 kg	675 kg

ATTENTION: MINIMAL GRADE 0,40 mm

The reported values are only indicative, especially with the quartz sand a filter filling according to filter bed height is advised.

3. Permitted pressure

Work pressure	max. 2,00 bar
Test pressure	3,00 bar



4. General:

The filter tank is made out of glass-fiber-reinforced plastic (GRP) on a base out of ABS. Inox (A 2) screws are set-in the plastic, to mount the cover made out of glas-fiber-reinforced nylon. The outer surface consists of a NPG fine layer.

The container is filled with a filter medium and one to two support layers. The distribution system is equipped with a middle piece with 6 or 8 arms, which are mounted via a bayonet connection.

The arms of the laterals have a slot-wide of 0,25 mm to prevent the filtration media from exiting the filter system.

The tubing and the connection for the valve are all in the same diameter. With two fitting connections the valve is fitted to the filter. The filter is further equipped with an empty valve on the bottom, and also with a ventilation valve and a manometer with a scale from 0 to 4 bar.

5. Operation

In the normal operation mode (valve on filtration position) the water enters the filter on the upper connection and is distributed via the inlet funnel over the filter bed. The water seeps through the filtration media and reaches the lower connection to get back into the system.

During the backwash phase the functioning of the filter is inversed through the valve. The water enters the filter via the lower connection and exits via the upper connection and flows into the drain. During the backwash the ventilation valve must be open.

For on optimal filtration performance the filter should be backwashed one a week for at least 3-5 minutes.

The instructions of the manufacturer of the whole plant need to be considered.

If the filter is operated with 2,0 bar, the system produces a decrease in pressure of about 1,2 bar, therefore the system pressure is 0,8 bar. If the system pressure exceeds 1,0 bar, the backwash needs to be initiated.

6. Procedure for the filling of the tank

- Control if the packaging has been damaged, if yes, are any scratches visible on the filter tank?
- Was the pipe work, with special attention to the distribution system, damaged?
- The base of the filter has to be perfectly flat, enough space for inspection and possible repairs must be available. The base has to resist the mass of the filter and the filtration media.
- Fill the tank with 1/3 of water before starting to put in the filtration media. This will help to protect the distribution system.
- Put the O-ring into the O-ring seat and put the cover onto the bolts. Screw down the cover.
- The cover is equipped with a 1/2" thread, install the ventilation valve with its o-ring.
- On the ventilation valve is a 1/4" thread for the mounting of the manometer.

- Open the ventilation valve and fill the tank with water until only water runs out of the valve.

7. Spare part list

Description

	Filter tank Fibertech Pro Series Ø 500/610/765/920/990
	Manual 6 way valve 1 ½" / 2" / 2 ½" / 3"
①	Top cover black or transparent
	O-Ring Fibertech Series
	Ventilation valve ½" or ¼"
	Manometer
	Brass nut M 8
	Inox washer M 8
②	Inlet funnel Fibertech Pro Series
③	Set tubing inlet / outlet
	O-ring for connection
	Flat-seal for connection
④	Distribution system Fibertech Pro Series
	Filtration candle SB 0,25
⑤	Drain plug VBC
⑥	Lateral cover
	O-Ring lateral cover

8. Safety instructions

- If the filter is installed in a place where the temperature can drop under 0°C during the winter, the filter has to be emptied completely during autumn to prevent any freeze damage.
- Under no circumstances the maximum pressure of 2,0 bar can be surpassed.
- The slot-wide of the filtration candles is 0,25 mm, therefore the minimum grade of the used filtration material has to be 0,40 mm. Else the material can exit the filter through the pipe work and enter the swimming pool.