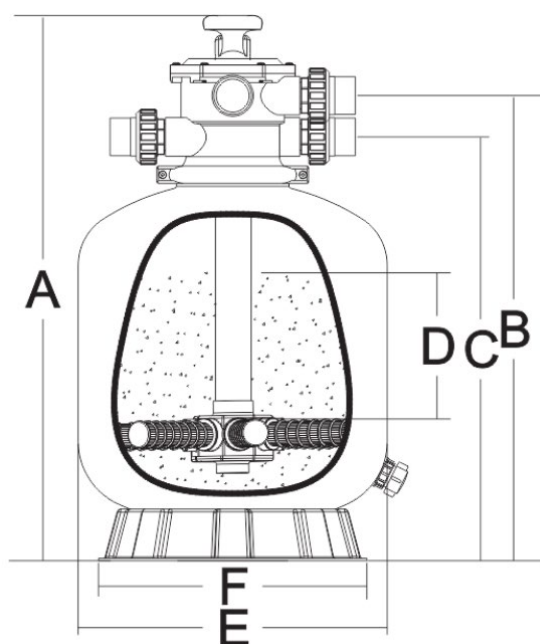




**Manual for AquaViva Marine filtering units  
350, 400, 450, 500, 650**

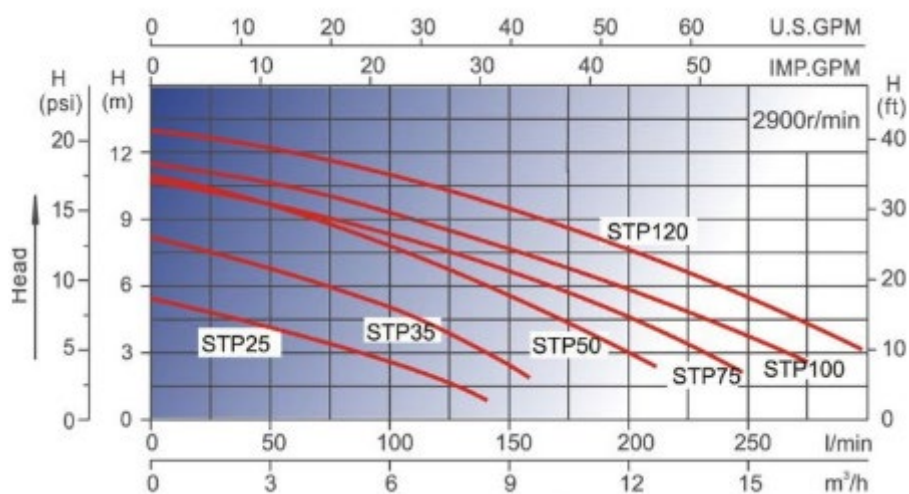


Structure table



Модель	A мм	B мм	C мм	D мм	E мм	F мм
350	726	619	550	160	350	298
400	757	640	500	175	400	390
450	814	698	638	210	449	390
500	845	730	670	235	527	500
650	950	835	775	300	627	500

Pump performance diagram



## Valve positions

Valve position	Function
FILTRATION	Regular filtering
BACKWASHING	Filter cleaning the by changing the flow
FINAL WASHING	Used after backwashing to clean the valve of contaminants
DRAIN	Filter bypass, used to reduce water level
RECYCLING	Bypass filter to circulate water in the pool
CLOSED	Stops the water flow into the filter or pool

## Operation

The filter uses special sand designed to capture contaminants contained in your pool water. The sand is poured into the tank and works as a continuous filtration system. Unfiltered pool water containing suspended contaminants is sucked up by the pump and supplied to the multi-way control valve. As water passes through the sand, contaminants are compressed at the level of the sand bed, and the filtered water flows back into the pool. These one-stage centrifugal pumps are designed to work with small hydromassage equipment. They are equipped with a cleaning system to prevent residual liquid from draining after each stop.

These devices are designed to work with clean water. Maximum water temperature 50 °C.

Storage temperature: -10°C to +50°C. Maximum relative humidity: 95%.

The product is made of high-quality materials, which are subject to strict hydraulic and electrical control and are carefully tested.

Using the following instructions and wiring diagram, you can install the device correctly; otherwise, the motor may be overloaded. We are not responsible for damage that may occur if the user does not follow the instructions.

## Attention!

- The filter operates under high pressure, during maintenance of any part of the filtration installation (for example, clamp, pump, filter, valves, etc.), the air supplied to the system may become under pressure, this may cause a line or valve to explode, which could result in serious injury, death, or property damage. It is important to turn off the pump before changing the valve position!
- To prevent damage to the pump and to ensure proper operation of the system, clean the filter and pump housing regularly.
- Do not unscrew the flange clamp bolts during use of the filter.

## Installation

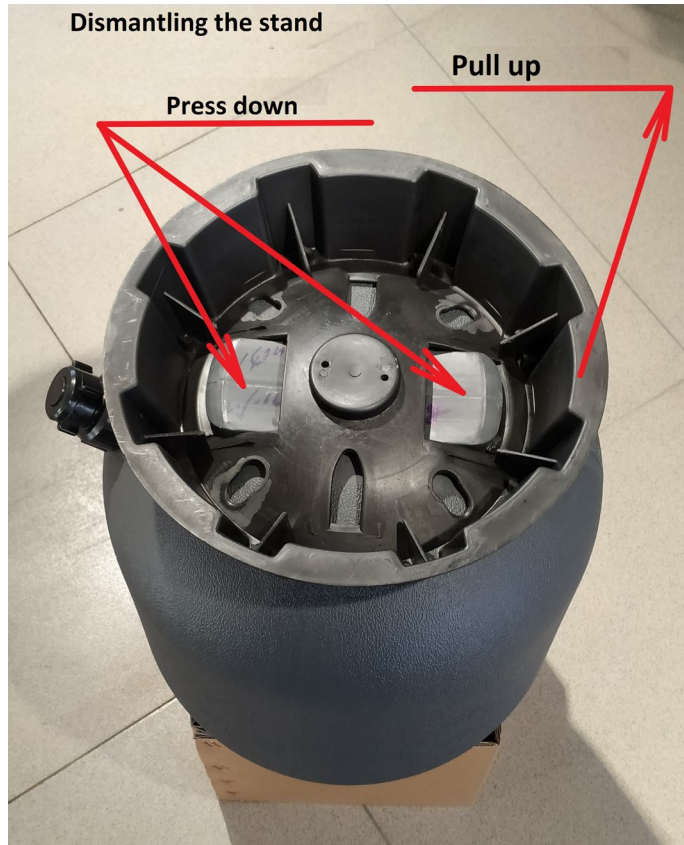
- remove the round filter stand (secured with latches);
- install the filter on the filtration unit stand (fasten it with latches);
- install the pump on the filtration unit stand (fasteners - bolts, nuts, washers are installed in the corresponding holes);
- glue the pipe sections L1, L2 into the corner 50mmx90 and into the corresponding pump couplings and 6 pos. tap;
- connect the connecting pipe to the pump and 6 pos. tap.



1. Placement of the filter - a place with a clean and level surface is required. The top of the filter should be at a maximum height of 1.5 m relative to the water level. Install the filter so that the pipes, valve and drain plug are easily accessible. This makes maintenance and preservation for the winter easier.
2. Connection to the pump - connect the pump and its support to the filter in accordance with the manufacturer's instructions.
3. Preparing the filter for operation - according to the instructions supplied with the filter.

Note 1: Do not over-tighten the connection fittings on the valve fittings.

Note 2: Seal external threads with Teflon.



### Introduction into service

IT IS IMPORTANT TO STOP ALWAYS THE PUMP BEFORE WORKING ON THE MULTI-WAY VALVE.

1. Make sure that all fittings are securely tightened and the required amount of sand is poured into the filter.
  2. Set the valve to the “BACKWASH” position. Always lower the handle before turning it.
  3. Start the pump following the manufacturer's instructions. Make sure that water circulates normally in the circuit.
- ATTENTION When starting the pump, all suction and discharge valves must be open. Otherwise, you expose yourself to the risk of physical damage, serious injury or death. When the water flow becomes uniform, leave the pump running for at least 2 minutes. This backwash is recommended to remove contaminants or small particles contained in the filter sand.
4. Stop the pump and set the valve to the “RINSE” flush position. Start the pump again and let it run until the water appears clear in the valve sight glass (approximately 1 minute).
  5. Stop the pump and set the valve to the “FILTER” position. Start the pump again and filtration begins. Adjust the inlet and outlet valves to obtain the desired water supply volume.
  6. Record the pressure indicated at this moment and the position of the pressure gauge needle. As the filter operates, contaminants are retained and the pressure in the tank increases. Once it exceeds the initial value by 10 PSI (0.7 bar or kg/cm<sup>2</sup>, initial pressure (clean filter)), the filter must be cleaned by backwashing.
- Note 1: When you first clean your pool water, you may need to backwash the filter frequently. Indeed, at first there is significantly more pollution.
- Note 2: Clean pump prefilters and skimmers regularly to ensure smooth operation of the filtration system.
- Note 3: Protruding installations that include a heater or cleaning system with nozzles or tentacles are very sensitive to strong impacts because they operate at high pressure. The installer should take all necessary measures to prevent strong shocks to the installation.

### Certificate of warranty

Manufacturer	<b>AquaViva Marine</b>
Filtration unit model*	<b>350, 400, 450, 500, 650</b>
Highlight the desired model	
Filter serial number	
Pump serial number	24 months for pump and filter tank. The warranty is provided subject to timely regular maintenance and replacement of consumables. When installing the pump, additional installation of a motor protection circuit breaker is required. 12 months for other components
Guarantee	
Date of sale	

