

Dear client,

Congratulations on your purchase of this **FLOTEC** product. Like all **FLOTEC** products, it has been developed with the help of the latest technologies and manufactured with the most advanced electrical/electronic parts.

Take the time to read the instructions carefully before using this appliance.

Thank you!



Contents

Ch. 1	Features	1
Ch. 2	Limitations	1
Ch. 3	Installation	2
Ch. 4	Electric Connection - Start-up	3
Ch. 5	Maintenance and troubleshooting	4
Appendix	Figures	pg. 73

Warnings for the safety of individuals and objects.

Carefully follow the instructions marked with the following symbols.



DANGER

Keep the technical equipment out of the reach of children!



DANGER
Electric shock
risk

Warns that the failure to follow the directions given may cause electric shock.



DANGER

Warns that the failure to follow the directions given could cause serious risk to individuals or objects.



WARNING

This sign warns the operator that the failure to follow an instruction may damage the pump and/or the system.

Ch. 1 Features

WARNING: Read this manual carefully before installing this pump.

This sign warns the operator that the failure to follow an instruction may damage the pump and/or the system.

Carefully store this manual. If problems arise, contact the Customer Assistance Service. Please verify that the pump has been used correctly and that the cause of the problem is not imputable to its operation.

Every electropump is carefully tested and packed during its assembly.

On receiving the pump, check that the pump has not been damaged during transportation. If the pump is damaged, immediately inform the dealer within 8 days from the date of purchase.

Ch. 2 Limitations

FLOTEC VIP/FP series electropumps can be used to drain rain water, infiltration water, domestic waste water and to remove water from flooded rooms in emergency conditions. The pump can be completely or partially submersed and used to transfer clean or moderately dirty fluids.



WARNING

The pump cannot be used for sea water and inflammable, corrosive, explosive or dangerous liquids.



WARNING

Verify that the electropump never runs without liquids.

Technical Data	FP 7K	VIP 130/6
Mains voltage / frequency	230 V ~ 50 Hz	230 V ~ 50 Hz
Absorbed power	250 Watt	320 Watt
Type of protection / Insulation class	IP X8	IP X8
Suction fitting	41,90 mm (1"1/4M)	41,90 mm (1"1/4M)
Maximum flow rate	7.800 l/h	7.800 l/h
Maximum head	6 m	6 m
Maximum depth of immersion	7 m	7 m
Power cable	10 m H05 RNF	10 m H05 RNF
Weight	3,8 Kg	3,9 Kg
Maximum dimension of pumped solid particles	6 mm	6 mm
Maximum temperature of the pumped fluid	35° C	35° C
Maximum number of starts per hour, uniformly distributed	30	30
Minimum priming level (A)*	100 mm	100 mm
Minimum suction level (B)*	20 mm	20 mm
Connection level (C)*	330 mm	330 mm
Stop level (D)*	150 mm	150 mm

Technical Data	VIP 180/7
Mains voltage / frequency	230 V ~ 50 Hz
Absorbed power	370 Watt
Type of protection / Insulation class	IP X8
Suction fitting	41,90 mm (1"1/4M)
Maximum flow rate	10.800 l/h
Maximum head	7 m
Maximum depth of immersion	7 m
Power cable	10 m H05 RNF
Weight	4,2 Kg
Maximum dimension of pumped solid particles	6 mm
Maximum temperature of the pumped fluid	35° C
Maximum number of starts per hour, uniformly distributed	30
Minimum priming level (A)*	100 mm
Minimum suction level (B)*	20 mm
Connection level (C)*	330 mm
Stop level (D)*	150 mm

Sound pressure level (Lpa) equal to or less than 70 dB(A)

Sound emission values obtained in conformity with the EN 12639 standard

(*) These data refer to Fig. 1. Measurements are expressed in millimetres.

The minimum priming level corresponds to a condition in which the delivery mouth is completely submersed.

(See Fig. 1 - Reference A)

The pumps of this series are not suitable for table fountains or aquariums. If these pumps are used in continuous mode for ponds with fish, it is necessary to check them at regular intervals of 6 months (if the water contains aggressive substances). It is also advisable to check the maximum dimension of particles recommended for the pump and take the necessary measures to prevent the fish from being sucked into the pump.

Ch. 3 Installation (see Fig. 1)



DANGER
Electric shock
risk

When installing, please ensure electropump is disconnected from electrical supply. Pumps in this series are not suitable for use in a swimming pool and the relevant cleaning and servicing operations.



DANGER

To prevent possible injuries to people, avoid inserting hands into the mouth of the pump if this is connected to the mains.



DANGER

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

Use the handle provided to transport or lift the pump. To use the pump in permanent installations with rigid pipes, to install a check valve to avoid the fluid being re-circulated once the pump is stopped. The installation of a quick closing fitting in a convenient position facilitates cleaning and maintenance operations.

The dimensions of the collection container should reduce to the minimum the number of starts per hour (see LIMITATIONS - Technical data).

To use the pump for temporary applications, install a flexible pipe and connect it to the pump using a pipe holder. To immerse the pump, use a rope and fix it to the handle.

The automatic **FLOTEC VIP/FP** model is equipped with a pre-set float switch (See fig.1) please increase or decrease the free piece of float switch cable by making it sliding through the proper seat on the handlebar, when modifying the rating of float switch.

There can be particular requirements for pumps used in or next to pools, garden ponds or similar places.



WARNING Verify that the floating switch stops the pump as soon as the minimum level is reached.



WARNING Make sure that the floating switch is free to move.

(see also Fig. 7 and 8)

The pumps used in ponds, small lakes, fountains or similar installations or close to them should have a cut-out switch. Contact a specialised electrician.

Pump anchorage

Use the slots on the filter cap (see Fig. 2, pos. 1) to anchor the pump. Then, remove the inserts from the filter cap. It is also possible to insert 3 screws in the widest section of the slots (see Fig. 2, pos. 2) and turn the filter cap counterclockwise so that the screws keep the cap in place in the narrowest section of the slots (Fig. 2, pos. 3). After fixing the filter cap, it is necessary to insert the pump in the related guides (see Fig. 3, pos. 4) and turn it counterclockwise to fix it in place (Fig. 5).

Ch. 4 Electric Connection - Start-up



WARNING Verify that the voltage and frequency of the electropump shown on the nameplate correspond to those available on the mains.



DANGER
Electric shock
risk

The installer must make sure that the electric system is grounded in accordance with the law in force.



DANGER
Electric shock
risk

Make sure that the electric system has a high-sensitivity circuit breaker $\Delta = 30$ mA (DIN VDE 0100T739).

Instructions for a safe pump start

The power cable should have a minimum section equivalent to that of H05 RN-F. To be able to use the pump outdoors, it is necessary to use cable with a length of 10 m. The plug and connections should be protected by water splashes.

Before using the pump, always inspect it visually (especially power cable and plug). Do not use the pump if it is damaged.

If the pump is damaged, have it inspected by the specialised assistance service only.

Make sure that electric connections are protected from inundation.

Protect the plug and the power cable from heat, oil or sharp edges.



DANGER
Electric shock
risk

The power cable must be replaced by qualified personnel only.

Grounding

The plug of the power cable has a double grounding contact, so that grounding can be performed by simply inserting the plug.

Overload protection

FLOTEC VIP/FP series pumps have a built-in thermal protection switch. The pump stops if an overload condition occurs. The motor restarts automatically after it has cooled down (see point 4 of the Troubleshooting section for information on causes and corrective actions).

To start the pump, insert the plug in a 230 V alternate current socket.

ATTENTION: the pump runs as soon as the floating switch reaches the start-up level.

Ch. 5 Maintenance and troubleshooting

In ordinary conditions, **FLOTEC VIP/FP** series electropumps do not require any maintenance. It may be necessary to clean the hydraulics or replace the impeller.



DANGER
Electric shock
risk

Make sure the machine is disconnected from electric power supply, before performing maintenance operation.

Hydraulics cleaning VIP (see Fig. 3, Fig. 4, Fig. 5, Fig. 6)

Disassembly of the filter cap: disassemble the filter cap only after removing the safety screw (See Fig. 3, pos. 6). Keep the pump motionless and turn the filter cap clockwise looking at the pump from the bottom. To assemble the filter cap, turn it counterclockwise (see Fig. 4).

If the filter cap is fixed on the base with screws, turn the pump clockwise in the direction of the handle to disassemble it (See Fig. 5).

Disassembly of the diffuser filter VIP

Disassembly of the diffuser filter: disassemble the diffuser filter only after removing the safety screw (See Fig. 3, pos. 5).

Keep the pump motionless and turn the diffuser filter clockwise looking at the pump from the bottom. To reassemble the diffuser filter, lubricate the O-ring with water and turn the filter counterclockwise (see Fig. 6).

Pump storage instructions

Store the pump in a dry place and protect it from frost.

PROBLEM	POSSIBLE CAUSE	REMEDY
1) THE ELECTROPUMP DOES NOT PUMP WATER, THE MOTOR DOES NOT RUN	1) No electricity. 2) Plug inserted incorrectly. 3) Enabled safety switch. 4) Blocked impeller. 5) Damaged motor or condenser.	2) Verify that voltage is present and that the plug is correctly inserted. 3) Reset the safety switch. If the safety switch is once more enabled, contact a specialised electrician. 4) Remove possible obstructions from the impeller. 5) Contact the Customer Assistance Service.
2) THE PUMP DOES NOT SUPPLY WATER BUT THE MOTOR IS RUNNING	1) Obstructed suction grid. 2) Blocked check valve. 3) Air in impeller body (air bubbles).	1) Clean the grid. 2) Clean or replace the valve. 3) Perform several start-ups in order to remove all the air.
3) THE PUMP SUPPLIES A LIMITED AMOUNT OF WATER	1) Partially obstructed suction grid. 2) Obstructed pipe. 3) Worn impeller.	1) Clean the grid. 2) Remove the obstructions 3) Contact the Customer Assistance Service.
4) INTERMITTENT OPERATION	1) Solid particles prevent the free rotation of the impeller. 2) The temperature of the fluid is too high. 3) Voltage out of range. 4) The fluid is too dense. 5) Faulty motor	1) Remove the foreign particles. 3) Supply the pump in accordance with nameplate data. 4) Dilute the pumped fluid. 5) Contact the Customer Assistance Service.