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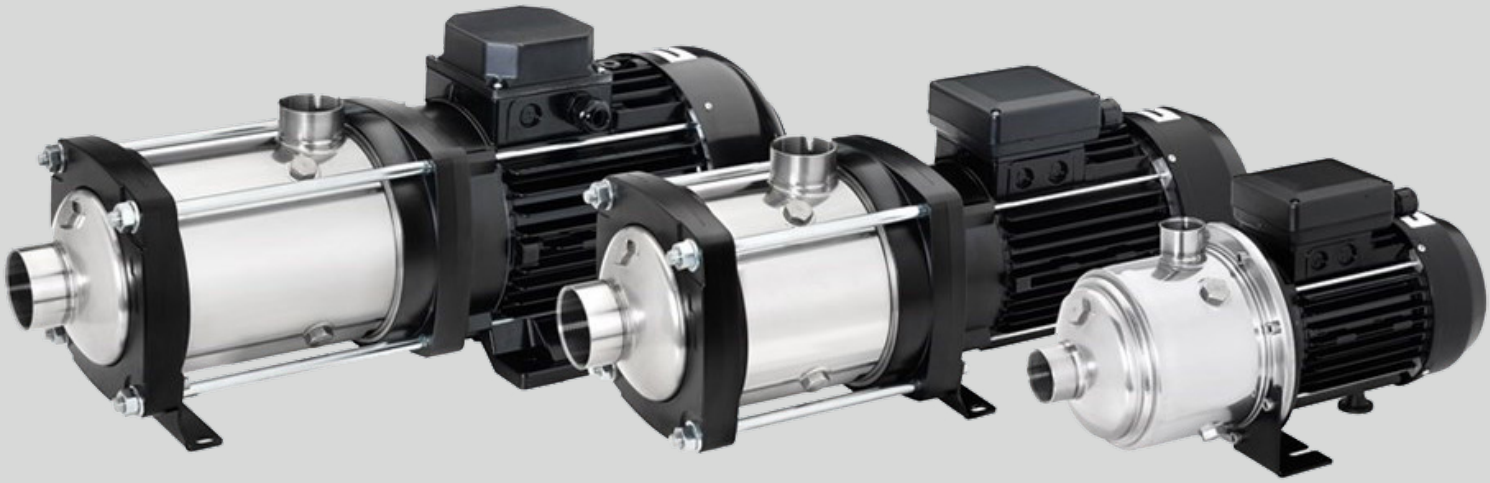

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K.H Pump Manual

OPERATION AND MAINTENANCE MANUAL

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General
Information

These instructions are to assist in the installation of the flowboost K.H Pump please follow them carefully.

If, having read this Operation & Maintenance Manual, there is any doubt about any aspect of the installation please don't hesitate to contact our technical team.

Definitions of Safety Warnings and Precautions

WARNING!

Indicates a potentially hazardous situation which, if not avoided, can result in serious injury or death.

CAUTION!

Indicates a potentially hazardous situation which, if not avoided. Can result in minor to moderate injury, or serious damage to the product.

Safety

Information

It is essential that correct and safe working practices are adhered to at all times when installing, operating and/or maintaining any piece of equipment. Always consult safety data sheets, operating and maintenance manuals, Health & Safety legislation and recommendations and specific requirements of any equipment manufacturer, site controller, building manager or any other persons or organisation relating to the procurement, installation, operation and/or maintenance of any piece of equipment associated or in conjunction with any product provided by **flow**tech Water Solutions.

This document is intended for ALL installers, operators, users and persons carrying out maintenance of this equipment and must be kept with the equipment, for the life of the equipment and made available to all persons at all times. Prior to carrying out any work associated with the set it is essential that the following sheets are read, fully understood and adhered to at all times.

Equipment must only be installed, operated, used, and/or maintained by a competent person. A competent person is someone who is technically competent and familiar with all safety practices and all of the hazards involved.

Any damage caused to any equipment by misapplication, mishandling or misuse could lead to risk of Electrocution, Burns, Fire, Flooding, death or injury to people and/or damage to property dependent upon the circumstances involved. **flow**tech Water Solutions accepts no responsibility or liability for any damage, losses, injury, fatalities or consequences of any kind due to misapplication, mishandling or misuse of any equipment, or as a result of failure to comply with this manual.

Failure to install, operate, use or maintain the equipment in accordance with the information contained within this document could cause damage to the equipment and any other equipment subsequently connected to it, invalidating any warranties provided by **flow**tech Water Solutions to the buyer.

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Safety Warnings &

Precautions

These instructions should be read and clearly understood before working on the system. Please read this manual carefully and all of the warning signs attached before installing or operating the equipment keep this manual handy for your reference. This equipment should be installed, adjusted and serviced by trained and qualified personnel. Failure to observe this precaution could result in bodily injury.

WARNING! - Install an emergency stop key separately from the isolator. Rotating shafts can be hazardous.

WARNING! - This equipment has a high leakage current and must be permanently fixed to earth.

WARNING! - Do not attach or remove wiring or connectors when the power is applied. Do not check signals during operation. When the power is turned on and the running command is on, the motor will start rotating. The stop key is only effective when the function is set. If there is a power failure and an operation instruction is given the unit may start automatically when the power is reinstated.

WARNING! - Make sure that the input voltage is correct. Be sure to install the unit in a room that is not exposed to direct sunlight and is well ventilated.

Avoid environments which have a high ambient temperature, high humidity or excessive condensation. Avoid dust. Corrosive gas, explosive gas, inflammable gas, grinding-fluid mist and salt damage, etc.

WARNING! - Do not connect the power source to any terminals except power connectors.

WARNING! - Motor control equipment and electronic controllers are connected to hazardous line voltages. When servicing drives and electronic controllers, you may be exposed to components at or above the line potential. Extreme care should he taken to protect against shock. Dangerous voltage may exist after the power light is off.

Wait more than 5 minutes after turning off the power supply before performing maintenance or inspection. Hazard of electric shock. Disconnect incoming power before working on this unit.

WARNING! - The inverter should be protected separately against ground fault.

Observe the regional regulations for electrical installation!

CAUTION! - It is strongly recommended that all electrical equipment conforms to National Electrical Codes and local regulations. Only qualified personnel should perform installation, alignment and maintenance. The manufacturer reserves the right to alter the technical data in order to make improvements or update information.

CAUTION! - Failure to observe these rules will render the guarantee invalid. The same applies to repair jobs and/or replacement. Your legal rights are not affected.

CAUTION! - The manufacturer declines all responsibility in the event of damage or injury caused as a result of tampering with the equipment.

CAUTION! - Do not switch on/off power supply to run/stop the motor/system! Start the unit only by using run button or external run command.

Customer / Contractor
RESPONSIBILITIES

It is the responsibility of the customer and/or the contractor:

- To ensure that anyone working on the equipment is wearing all necessary protective gear and/or clothing. During maintenance operations and in any case when the machine is running in various modes, including its normal operating mode, avoid any clothing or accessories that may get entangled in the moving parts of the machine.
- Is aware of appropriate health & safety warnings.
- Has read the information in this section of the manual.

General

This instruction manual will help you not only to understand how the appliance works, but also to get to know its possible applications.

This user manual contains important recommendations that are necessary for the appliance to be properly and economically operated. These recommendations must be complied with in order to ensure reliability and durability, and to avoid any risks of accidents resulting from improper use.

The appliance must be used for the intended applications and within the limits described in the following paragraphs.

The activities related to handling, installing, using, servicing and disposing of the product pose risks for human safety and for the environment that cannot be eliminated through construction.

The main residual risks are electrical (electrocution) and mechanical ones (injuries caused by sharp edges, abrasions or crushing). All operations must be carried out with the utmost attention only by expert, professional staff, equipped with appropriate personal protective equipment and suitable tools, when the machine is disconnected. Failure to comply with the instructions provided in this manual and proper working practices will increase health risks. The manufacturer accepts no responsibility in case of accident or damage caused by negligence, improper use of the electric pump, or failure to follow the instructions described in this manual, or use in conditions other than those permitted.

In the supply conditions, the electric pump has no moving or normally live parts accessible from the outside.

The user must not disassemble the electric pump completely or partially, nor make any changes or tamper with the product. If removed during installation, guards must be refitted immediately.

Noise emission

Noise emission is mainly influenced by the size of the motor and pump.

Preliminary inspection

Remove the appliance from the packaging and check that it is intact. Also check whether the rating plate details match the desired ones. In case of any discrepancies, contact the supplier immediately, specifying the nature of the defects. If in doubt about the machine's safety or integrity, do not use it and contact a professional service centre.

Product information

The serial number is shown on the rating plate. It is important to provide these details when requesting service or support and spare parts.

Please note that the information provided on the rating plate may be arranged differently from what is shown. Some information may not be available, depending on the model considered.

On the surface of the pump, there may be other plates, depending on the model, that identify its features, compliance with rules and regulations or installation, use and disposal provisions.

Pay attention to the risks associated with the product installation, maintenance and disposal.

The surfaces of the electric pump may reach high temperatures based on the temperature of the pumped liquid. Direct contact and liquid spills may cause burns and injury.

The direction of rotation of the functional parts is indicated by the marking (arrow) and/on the motor fan cover.

Motor energy efficient information

All electric pumps use motors compliant with reg. 640/2009 EC and subsequent amendments, therefore, compliant with efficiency class IE3 (three-phase versions with power greater than 0.55 kW).

Applications and use

These appliances are designed for professional use in applications such as water supply from groundwater, pressure increase, irrigation or heat transfer fluid circulation. They can be used in the industrial, manufacturing or equivalent fields. The electric pumps can also be used in the domestic, commercial, agricultural, artisan or tertiary sectors, for the same applications.

Electric pumps must be installed in dry areas and protected from flooding.

The electric pump can work continuously at the maximum room temperature indicated on the rating plate.

Pumped liquids

Clean liquids, compatible with the electric pump component materials. A liquid must have physical characteristics similar to those of clean water at room temperature (1030 kg/m3 maximum density and 2 cPs maximum viscosity. If these limits are exceeded, contact the manufacturer).

Improper use can result in overheating of the machine and power cables, with consequences such as failure and potentially fire.

Conditions of use

Maximum operating pressure (pump delivery pressure, obtained by the sum of the pump inlet pressure and the pressure increase supplied by the pump): see the rating plate. The maximum pressure at the appliance inlet is determined by the pressure increase created by the pump, so as not to exceed the maximum operating pressure (see the section dedicated to the calculation).

Flow rate and head: during normal operation, they must fall within the fields indicated on the rating plate. Under these conditions, optimal machine operation is achieved.
Sucked liquid maximum temperature: 35 °C, 55 °C, 85 °C or 110 °C depending on use (see paragraph 3.1).
Sucked liquid minimum temperature: -10°C (EPDM gaskets); -10°C (Viton®/ FKM gaskets); 0 °C (self-priming models).
Room temperature: maximum 40 °C up to 1000 m altitude. If these limits are exceeded, contact the manufacturer.
Electrical supply voltage: refer to the motor rating plate. The maximum deviation allowed is +/- 6% of the nominal value.
Maximum number of consecutive hourly start-ups: 40.

Non-permitted use

- Do not use the electric pump for applications other than those described above and, in any case, not authorised by the manufacturer. Improper use may cause serious damage (including death) to people, animals, objects and the environment.
- Do not use the electric pump connected to swimming pools, basins, ponds and in similar places when people are in the water.
- Do not pump food liquids or human food products.
- Do not pump any liquids that are more viscous and/or denser than water.
- Do not use the machine in potentially explosive environments or with flammable liquids.
- Do not run the machine without any liquid.

To avoid overheating, do not run the electric pump continuously at a flow rate of zero or lower than 10% of the rated value. If the temperature of the inlet liquid exceeds 90 °C, increase the minimum flow rate to 20% of the nominal value.

Do not exceed the maximum pressure indicated on the rating plate.

Other uses

The liquid to be pumped has a viscosity or density higher than that of the water (it will be necessary to use a motor with a proportionally greater power)

The water to be pumped is chemically treated (softened, chlorinated, purified, etc.)

Any situation other than those listed under permitted use occurs.

Installation

The appliance must be installed in accordance with the instructions in this manual. The appliance and terminals of the power supply cable must be protected against water, humidity and atmospheric agents. Check the protection rating (IP) indicated on the motor rating plate. Install in a location not subject to flooding.

Before starting work on the machine, make sure that it has been disconnected from the power supply network and that it cannot be accidentally reconnected.

If required in relation to the conditions of use and the working environment, we suggest installing adequate devices to immediately perform an emergency stop of the machine.

Electrical connections

The connections must be exclusively performed by expert, authorised personnel and in compliance with legal obligations, current regulations, consolidated technical practices and the following provisions.

The appliance is designed exclusively for fixed applications (the power cable cannot be disconnected and reconnected by the user).

Use electric cables and eyelets of the type and section indicated. Always connect the earthing conductor to the point required inside the terminal box, keeping it longer than the other conductors. Once wiring is complete, remove the sponge under the terminal block.

The cable terminals must be connected in an electrical panel with at least an IP55 protection rating, equipped with cable mechanical fixing systems independent of electrical terminals, and an overvoltage category III omni-polar cut-out switch preventing the panel from being opened when the appliance is live. The cable must be protected from excessively high or low temperatures, open flames and chemical agents.

Make sure the rating plate details match the rated voltage and frequency values. Always connect the earthing cable to the electric pump and check the earthing circuit effectiveness before the first start-up and then every month.

The installer is responsible for making connections in accordance with the regulations in force in the country of installation.

The appliance must be powered by a residual current device, with residual operating current of no more than 30 mA. Check its functionality before commissioning.

It is recommended to protect the electric pump from dry running by means of a device such as a float, a level sensor or a normally open pressure switch connected to the suction line (if the latter is pressurised).

Single-phase versions

Power the electric pump by means of a cut-off device, in accordance with the installation requirements. The direction of rotation of the electric pumps does not require any checks.

The single-phase electric pumps are fitted with automatic reset thermal protection integrated in the motor.

Three-phase versions

Power the electric pump via a cut-off device, in accordance with the installation requirements. Three-phase appliances must be protected against short-circuits and overloads by a class 10 protection device, in accordance with IEC 60947-4. Set the rated current according to the value shown on the rating plate. Use a manual reset device.

Check which configuration of the electrical connections corresponds to the available mains voltage on the rating plate and on the markings on the motor. If required, change the configuration by moving the jumpers to the appropriate terminals. At the end of the operation, check that the electrical connections are secure and stable.

The direction of rotation must be checked by observing the motor on the cooling fan side. Do not remove the protection devices to check the direction of rotation. While checking the direction of rotation, run the motor for as short a time as possible. If the direction of rotation cannot be visually checked, it is possible to check it indirectly by installing the pump in the system and running it at maximum flow rate (valves completely open, free delivery), according to one of the two following modes:

During operation, measure the maximum power consumption with an ammeter clamp. If the direction of rotation is incorrect, the values will be nearly double those specified on the rating plate.

Alternatively, run the machine for a few seconds, then reverse the direction of rotation and repeat the operation. The correct direction is the one in which the greatest flow rate is obtained.

To reverse the direction of rotation, it is sufficient to swap two phases between them.

Variable frequency drive (VFD) applications

For variable frequency installations (power supply via “inverter”), make sure the frequency inverter can supply the rated voltage and at least 10% more current than the rated value shown on the rating plate. To install and connect the device, please refer to the manufacturer’s instruction manual.

Hydraulic connections

Before starting any work on the electric pump or the motor, make sure that the power supply is disconnected and it cannot be accidentally restored.

Installing the electric pump can be complex and dangerous for people. This operation must, therefore, be performed by competent, qualified installers.

Comply with the current accident-prevention regulations, use suitable protective equipment and refer to the standards, legislation and local and/or national codes of the country of installation for the connection to water and electrical mains.

The following indications regarding the verification of the NPSH and the maximum pressure must be complied with to ensure the pump operates correctly and to prevent damage to people or things.

Pipes and system

Comply with the current accident-prevention regulations, use suitable protective equipment and refer to the standards, legislation and local and/or national codes of the country of installation for the connection to water and electrical mains.

The pump liquid inlet is frontal (axial) and the outlet is radial: make sure that the pump is correctly connected to the pipes.

The hydraulic pipes must be suitable to the work pressure and nature of the liquid pumped. The pipes must be adequately supported, must not weigh on the unit. Do not force the pipe’s positioning when fixing with the pump. Flexible pipes or compensation joints are required to prevent the transmission of vibrations from the pump to the pipes and vice-versa.

Provide an inclination not less than 2% to prevent air pockets in the suction pipe.

The pipe diameter must not be smaller than the diameter of the suction outlet and must be airtight. If the suction pipe is larger than the outlet, install an eccentric reducer.

If the pump is installed above the level of the liquid to be drawn, a non-return valve must be installed at the bottom of the pipe or before the pump.

The end of the suction pipe must be sufficiently submerged to prevent air from entering through the suction vortex when the liquid is at the minimum level.

Shut-off valves of a size suitable for the pipes must be installed at the suction and delivery pipes, to isolate the pump from the circuit in case of inspection and maintenance.

Install a check valve on the delivery pipe to prevent backflow and water hammers when the pump is switched off.

The dimensions of the threaded connections of the pump are shown. Use sealing material on the threads (sealing tape, liquid sealant, paste, hemp, other).

Handling

Check the weight of the machine before starting any lifting operations. The weight is indicated on the rating plate. The suspension point provided on the pump/electric pump does not match the machine centre of mass.

During lifting, the machine will tend to rotate around the lifting point until it reaches a balanced position. Handle with care. Pay attention to the inertia of the object (oscillations in the direction of travel, difficulty in slowing down and stopping).

Pay attention to suspended loads. Do not stand under them. Pay attention to people, animals and objects in the work area. Use appropriate work area marking tools and delimiters, where necessary. Do not operate the pump or let it pass over people.

Installation

Install the electric pump in an accessible location and protected against frost, leave enough space around the electric pump to allow use and maintenance operations.

Check that there are no obstacles to the motor cooling airflow, ensure at least 100 mm of free space from the fan.

Drain any liquid leaks, so that they cannot flood the installation site and/or submerge the unit.

The electric pump must ALWAYS be fastened to a concrete foundation or on a metal structure that protrudes by at least 100 mm from the electric pump, in all directions, sturdy enough to support it stably and with a mass at least equal to that of the electric pump (recommended 5 times higher).

If the pump runs with liquid at a temperature above 50 °C, anchor the pump only on the side of the motor bracket and leave the suction side bracket free (versions with two brackets). Install elastic elements between the pump and the pipes to compensate for thermal expansion.

Place anti-vibration joints between the pump and the foundation to minimise the transmission of vibrations.

Additional protections and guards

The surfaces of the electric pump may reach high temperatures based on the temperature of the pumped liquid. If deemed necessary, provide guards to prevent accidental contact, without interfering with the normal functionality of the machine (e.g. motor cooling).

High-speed liquid splashes may be generated in the event of breakage, installation errors or during filling operations. Provide appropriate fixed or temporary guards, in the event that liquid spills can be dangerous or harmful to human or animal health.

Commissioning and Decommissioning

Pay attention to the drained liquid so that it cannot harm people or things.

- Do not start the appliance without the safety devices (mechanical guards and electrical protections required).
- During operation, the external surfaces of the pump and motor may exceed 40°C if the liquid pumped is not at room temperature.
- Do not touch the unit without adequate protections.
- Do not place flammable material near the pump.
- The electric pump must NOT be started before filling.
- Its dry use may irreparably damage the mechanical seal.
- Do not operate the pump with the suction and delivery valves closed for more than 5 seconds.
- Do not expose the inactive pump to freezing temperatures, freezing the liquid will damage the pump.

Priming

- Case with liquid level above the pump or pressurised inlet line.
- Close the delivery valve.
- Remove the filling caps.
- Open the suction shut-off valve to allow the liquid to enter and wait until the water comes out of the pump.
- Close the suction valve and screw the filler caps.
- Case with liquid level below the pump.
- Close the delivery valve and open the suction valve.
- Remove the filling caps.
- Using a funnel, fill the pump until the water comes out (it may be required to repeat the operation several times).
- Reposition and tighten the filler caps.

Pump start-up

Before start-up, check that:

- The electric pump is correctly connected to the power supply.
- The delivery and suction connections are properly tightened.
- The electric pump is adequately filled (see “Priming” section).
- The delivery shut-off valve (8 in fig. A5 and fig. A11) is closed and the suction valve (4 in fig. A5 and fig. 11) is open.

Start the motor and gradually open the valve on the delivery side of the pump. After a few seconds of noisy operation, at full speed, the appliance must operate silently and regularly, without any pressure changes to discharge any air. The self-priming versions may require a longer time to discharge all the air from the suction pipe if this is not full (about 1 minute). Refer to the Troubleshooting table if this does not occur. After a few seconds of operation, it may be required to remove the air that accumulates in the highest points of the system and of the pump.

Emptying the pump (decommissioning)

Should it be required to empty the pump for maintenance or for long periods of inactivity:

- Close the shut-off valves of the delivery and suction pipes.
- Discharge the pump pressure by partially loosening the drain plug. Once the pressure has run out, fully remove the drain plug and wait for emptying.
- Once emptying is complete, reposition and tighten the caps again.
- Liquid may remain in some internal parts of the pump. For complete removal, it is required to disassemble the pump.

Make sure that the drained liquid does not harm people or things.

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Maintenance and Support

Make sure that the electrical voltage has been interrupted and that it cannot be accidentally restored during maintenance operations.

If the pump is single-phase, make sure that the capacitor is discharged.

Close the shut-off valves upstream and downstream of the appliance.

Risk of spills of the fluid pumped by the machine: The pumped fluid may be pressurised even with the machine stopped: before intervening, isolate the machine from the system by closing the upstream and downstream shut-off valves and partially unscrew the filler cap to reduce the internal pressure. Liquid may leak during this step. Make sure that the drained liquid does not harm people or things.

WARNING: Repairing or having the electric pump repaired by personnel not authorised voids the warranty and means operating with unsafe and potentially dangerous equipment.

Wait for the surfaces to cool down before working on the appliance.

The electric pump does not require any scheduled routine maintenance. Have the electric pump repaired only by personnel authorised by the manufacturer so as to keep your warranty valid and not to impair the safety of the appliance. Use only original spare parts or parts approved by the manufacturer. For spare parts and special maintenance manuals, contact the Manufacturer.

Always use the required PPE (refer to the relevant section).

Regularly check that no condensation is formed in the motor (if there are drainage holes).

The components that are normally subject to wear are: the mechanical seal (30.6 in fig. A14). Wear is associated with work conditions and loads. Regular checks on the state of wear and tear of these components will improve the reliability and increase the service life of the product. Perform checks on a monthly basis, more frequently if the working conditions so require, and during the first 500 hours of work.

Check for any liquid leaking from the mechanical seal by checking the equipment on the ground.

Check guards for proper positioning and safety devices for proper operation on a daily basis.

It is advisable to check the condition of cables (especially at the cable glands) every month and clean the system filters and/or suction grille.

Prevent dust build-up on the motor and obstructions to the cooling airflow.

EMERGENCY MANAGEMENT

The only machine part exposed to a fire hazard is the motor. However, a fire hazard also exists for materials unrelated to the machine but located close to it.

In the event of a fire, use extinguishers approved for electrical devices.

Liquid spills

The pumped liquid may escape from the machine as a result of installation, start-up, maintenance or disposal, unforeseen breakages or excessive wear of sealing devices.

If spills can be dangerous or harmful to human, animal or environmental health, install a waterproof collecting basin around the machine. Collect the liquid and dispose of it correctly, without dispersing it in the environment.

DISPOSAL

The devices marked with this symbol may not be disposed of in domestic waste but disposed of in appropriate local collection centres for Waste Electrical and Electronic Equipment (WEEE), or delivered to the distributor who is required to collect them. The illegal or improper disposal of the product involves severe criminal and/or administrative penalties.

Troubleshooting

To fix problems related to electric pump operation, follow the instructions in the Table. If you do not have the necessary knowledge and skills, contact qualified personnel.

FAULT	POSSIBLE CAUSES	SOLUTIONS
10.1 The pump runs but does not deliver	a) The internal parts are blocked by foreign bodies:	Disassemble the pump and clean.
	b) Clogged suction pipe:	Clean the pipe.
	c) Air inside the suction pipe	Check the watertight integrity of the entire pipe up to the pump and waterproof it.
	d) The pump is not primed:	Fill and prime the pump. Check the watertight integrity of the foot valve.
	e) The suction pressure is too low and generally accompanied by cavitation noises:	Too many pressure drops on the suction side or the suction height is too high (check the NPSH of the installed pump).
	f) Insufficient motor voltage:	Check the voltage of the motor terminals and the correct cross-section of the conductors.
10.2 The pump vibrates	a) Faulty anchoring to the surface:	Check and fully tighten the nuts of the stud bolts.
	b) Foreign bodies obstruct the pump:	Disassemble the pump and clean.
	c) Obstructed pump rotation:	Check that the pump turns freely without any abnormal resistances.
	d) Faulty electrical connection:	Check the connections to the pump.
10.3 The motor heats up abnormally	a) Insufficient voltage:	Check the voltage at the motor terminals. The voltage must be ± 6% of the rated voltage.
	b) Pump obstructed by foreign bodies:	Disassemble the pump and clean.
	c) Room temperature exceeding +40°C:	The motor is designed to operate at a maximum room temperature of + 40°C.
	d) Connection error in the terminal block:	Check that the connections comply with the diagram shown inside on the terminal cover and the rating plate.
10.4 The pump does not deliver the expected performance	a) The motor does not run at normal speed (foreign bodies or faulty power supply, etc.):	Dismantle the pump and correct the anomaly.
	b) Faulty motor:	Replace it.
	c) Poor pump filling:	Repeat the priming operation.
	d) The motor turns in the wrong direction (three-phase motor):	Reverse the direction of rotation by crossing 2 phase wires in the terminal block or the electric panel.
	f) Insufficient motor voltage:	Check the voltage to the motor terminals and the correct cross-section of the conductors.
10.5 The circuit breaker trips	a) Thermal relay value too low:	Check the intensity with an ammeter, set the intensity value indicated on the motor rating plate.
	b) Voltage too low:	Check that the cross-section of the electrical cable conductors is correct.
	c) Phase down:	Check and replace the electric cable or fuse if required.
	d) Faulty thermal relay:	Replace it.
10.6 The flow rate is not regular	a) The suction height has not been adhered to:	Review the installation conditions and recommendations provided in this manual.
	b) The suction pipe has a lower diameter than that of the pump:	The suction pipe must have the same diameter as the pump suction hole.
	c) The strainer and the suction pipe are partially clogged.	Clean the suction pipe.

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AFTER SALES SERVICE

At **flow**tech© we operate a network of Service Engineers located throughout the UK who are supported by our offices located in and Greater Manchester. The distribution of engineers means that in the majority of cases we are less than 4 hours away from attending a customer call out.

We place great emphasis on providing technical back up to support our Service Engineers in resolving some difficult operational and technical issues. We pride ourselves on completing a project on time, within budget and never leaving a problem unresolved, or a customer waiting. This quality of service has made us the first choice for our customers.

FOR FURTHER INFORMATION OR ASSISTANCE

contact us

Flowtech Water Solutions are experts in water services and water booster sets. We have continuously supplied a wide range of standard and custom products since being founded in 1996.

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