

Motorpump




Installation manual and routine maintenance

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Warning



Read this instruction manual before operating the machine.

General information

This manual provides you with all the information for proper use and maintenance of the motorpump. Please, carefully follow the instructions given. The manufacturer is not liable for any damage to people or goods, or to the motorpumps itself, if the machine is used differently from what described in this manual. This manual shall be available to the technician for correct use of the machine. Information provided in this manual does not replace regulations on safety at work in force. Therefore, the technician should comply with the regulations in force in the country where the machine is installed, besides following common sense rules. Do not use the motorpump if you notice and defect or wear that may compromise the original safety standards. The user or the maintenance technician must report any fault to the supplier. The machine is meant for specific applications. Do not modify it and/or use it for applications other than the specified ones. Instructions, drawings, tables and all the contents of this document are confidential technical documentation and exclusive property of the manufacturer: no information may be released to third parties without written permission by the manufacturer. Descriptions and images in this document are only meant as indications and practical examples. They may be modified at any time and without prior notice. If further technical and functional details are needed, please contact the supplier.

Improper use – forbidden use

1. It is absolutely forbidden to carry out checks or maintenance operations when the machine is running or the power supply is on. **ALWAYS DISCONNECT THE POWER SUPPLY!**
2. Do not expose the machine to low temperatures: ice formation may cause serious damages to the high-pressure pump.
3. Always wear protection equipment when servicing the machine.
4. The manufacturing company is no way liable and does not grant the warranty for any damage to people or goods due to incorrect use of the motorpump.

Warning



DO NOT REMOVE THE LABELS FROM THE MACHINE. IF THEY ARE DETERIORATED, ASK THE SUPPLIER FOR NEW ONES. THE MANUFACTURER AND THE SUPPLIER ARE NOT LIABLE FOR BREAKAGES OR ACCIDENTS DUE TO NON COMPLIANCE WITH THE WARNINGS ABOVE. WARRANTY WILL BE CONSIDERED NULL AND VOID IF THE ABOVE-MENTIONED WARNINGS ARE NOT FOLLOWED.

Warning prescription

Please, read the information contained in this booklet since they will provide you with useful instructions for safe installation, use and maintenance. Carefully read the sections “General information”, “Foreseen Operation Conditions”, “Incorrect Use”, “Forbidden Use”. This booklet is an integral part of the motorpump. As specified by Directive 2006/42/EC, it shall be given to the installer of the misting unit, in order to meet the obligations on training/information of the personnel using the machine. The manufacturer is not liable for any damage to people or goods, or to the machine itself, if the latter is used differently from what described in this manual. Keep this booklet in a safe place and make it available for future reference. Make sure it corresponds to the unit you have purchased, by checking the data on the motorpumps identification plate. At delivery, check for any possible damages due to transportation. Complaints can be accepted only if reported by registered letter with return receipt within 8 days from product delivery date.

Once installed in a final product, connect the motorpump to the electric panel equipped with a dedicated residual current device. It is a must also install a overload protection; to find out the right product to use please ref to the table 1. If it is necessary as replacement, please use only electrical plugs compliant with the regulations of your country with grounding cable and section as described in the following chapters. Never operate the final product where the motorpump is installed if the cables are damaged, incorrectly connected or if their section is unsuitable. If the supply chord is damaged, it must replaced by the manufacturer, its service agent

Motor frame / Hertz *	Protection value
Mec 80 50/60 Hz	6 A
Mec 90 50/60 Hz	16 A
* To find out the motor frame value, refer to the motor plate on the motorpump	

Table 1

or similarly qualified person in order to avoid a hazard.

If using power extension cables, keep to the following instructions: if the length of the power extension cable is between 1 and 25 m (3 ft and 80 ft), cable section should be 2.5 mm² (0,0039 sq in); if length is between 25 and 50 m (80 ft and 160 ft), cable section should be 4 mm² (0,0062 sq in). Never use power extension cables longer than 50 m (160 ft). Warning: section is 4 mm² (0,0062 sq in) and 6 mm² (0,0093 sq in) respectively for three-phase machines.

Check that the power supply voltage corresponds to that indicated on the product data plate.

The water Inlet must be between 2-4 bar / 30 – 60 psi / 200.000 - 400.000 pascal Sect. 3/4"

This machine is not intended for installed by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.

Use just new pressure hose from water supply and the pump wit a min size of 3/4". In case of lack of water supply, the machine is not powered off automatically so the motorpump could be damaged. Please add a security device on the final product for check the water supply and, in case, power off the motorpump. In case of a current hogging due to a sudden voltage drop, use of an extension cable with a too small section (min. 2.5mm² / 0.0038 sq in) or work under the sun, the motorpump could automatically stops to protect the coil windings. In case, please contact the maintenance service or the supplier to replace the fuse inside of the electronic box. For this reason, we suggest checking that the electrical network is not affected by frequent and considerable voltage variations. If that were under the rated voltage of the electrical network for a long time, the control unit could be damaged.No final user is allowed to carry out repairing operations on the Unit, otherwise the warranty shall immediately become null and void. In case a repair is needed, contact your supplier only, or ask for the intervention of a qualified technician authorized by the producer. Always disconnect the electrical supply before servicing or checking the machine.

Information for users (Directive 2012/19/UE)


In accordance with European Directive 2012/19/UE on electric and electronic equipment waste disposal.

- The barred symbol of the rubbish bin shown on the equipment indicates that, at the end of its useful life, the product must be collected separately from other waste.
- Therefore, any products that have reached the end of their useful life must be given to waste disposal centers specialising in separate collection of waste electrical and electronic equipment, or given back to the retailer at the time of purchasing new similar equipment, on a one for the basis.
- The adequate separate collection for the subsequent start-up of the equipment sent to be recycled, treated and disposal of in an environmentally compatible way contributes to preventing possible negative effects on the environment and health and optimizes the recycling and reuse of components making up the apparatus.
- Abusive disposal of the product by the user involves application of the administrative sanctions according to the laws in force.



Foreseen operation conditions

The motorpump has been designed and manufactured to be used both indoor and outdoor, in parks, industrial buildings, farm businesses and the like. If the motorpump is installed indoor, check that the area is not dusty and that is properly ventilated in order to allow correct cooling. Therefore, the ideal installation place for the motorpump is in ventilated areas protected against weather conditions, at a temperature above 27-28°C with relative humidity below 80%. According to the use of the motorpump, it is advisable to adjust the water flow. To perform this operation, contact the manufacturer authorized technician.

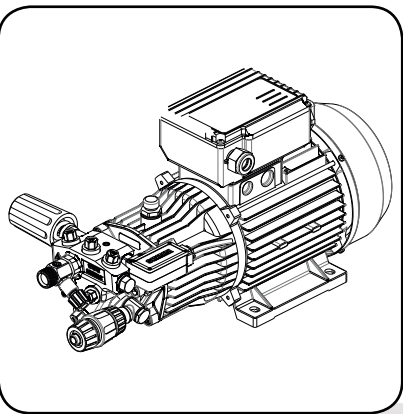


Machine description

The motorpump can be (depending from model) equipped with electrical safety systems. The motorpump mechanics is based on a ceramic-coated piston system, operated by an axial cam controlling the water flow at a pressure between 30 and 200 bar (435-2900 psi) (3-20 Megapascal), allowing a water flow between 0.3 and 16.0 l/min (0,07 to 4,22 gal./min). All data is depending from the model, please consider only the technical label on the motorpump. Moreover, a patented by-pass system allows containing water flow backs without causing the water to overheat and thus avoiding incorrect evaporation. This system allows containing any pressure rise due to negligence that may compromise machine operation, thus considerably increasing its standard service life.

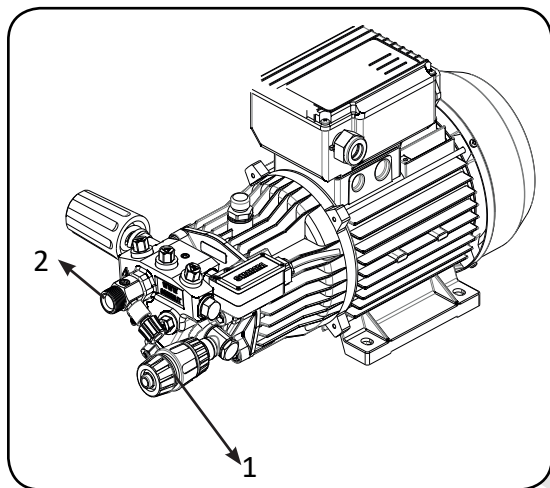
A pressure level out of the range mentioned above and out of the range showed on the technical label may seriously compromise the correct operation of the machine. We suggest using high pressure lines, namely hoses and pipes with capacity 2 or 3 times higher than normal working pressure. This allows preventing water hammerings that may compromise the system seal. In case of special applications or use with particularly high pressure, please contact the manufacturer who will advise you on project feasibility, to avoid useless expenses or possible damages to components.

Package content



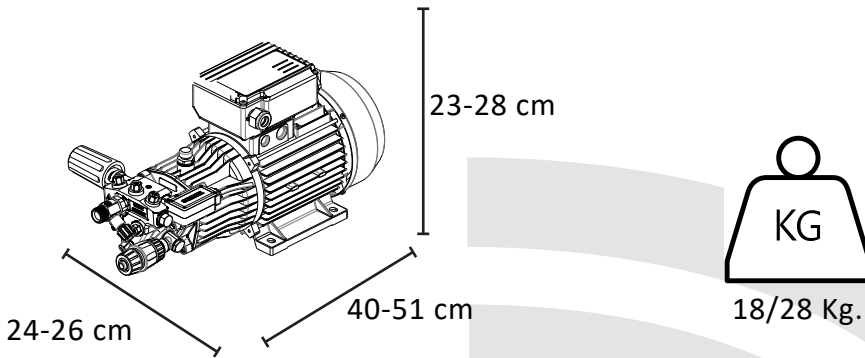
- 1 Motorpump
- 2 User manual

Machine description – electrical connections



- 1 Water Inlet (2 - 4 bar/ 30 - 60 psi / 200.000 - 400.000 pascal) sect. 3/4"
- 2 High pressure water outlet

Weight and dimensions

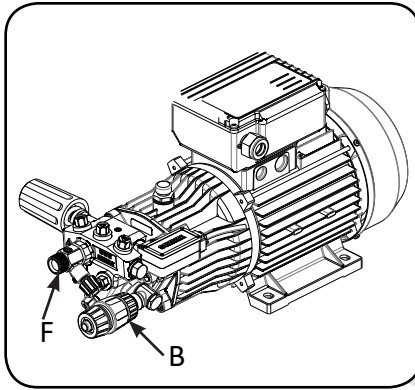


Transfer, packing and transportation

In case of first installation or motorpump's transfer please wear always working gloves and any other protective wearing to avoid any incidents or injuries. During transportation or transfer operations, the motorpump is placed on a pallet. Thus packed, the machine can be lifted by a lift truck with at least 100 Kg load capacity. If you need to transfer the machine but you do not have the original package, the unit should be correctly re-packaged and fastened to the means of transportation, in order to avoid impacts that may damage its external casing and compromise its functionality. In order to correctly restore machine operation after it has been transferred, changed of place or stored, the unit must be placed horizontally to avoid incorrect distribution of the lubricant, as this may cause faulty operation. Following this operation, disconnect the electrical supply and disassemble the machine. When putting the machine in its package, take care that its external parts and the external connections do not get damaged.



Installation position and start-up



1. Place the final product where the motorpump is installed away from the wall (50 cm/20 in) in a safe, accessible and dry place, out of the reach of unauthorized people. The place should be ventilated and protected against weather conditions and the control unit must not be placed under the sun. Room temperature must not be above 40°C / 104 °F. Also remember that dust compromises seal efficiency.
2. Connect the supply hose from water network to water inlet connection (B). The use of a filter before making this connection is strongly recommended. If necessary install a softener or a reverse osmosis system (min 50 μ S). In the case of a filter installed we advise replace the filter cartridge every three months. Dirty or very hard water could need to be replaced more frequently.
3. Connect the high-pressure water outlet (F) to the high-pressure hose previously installed by a qualified technician.
4. Electrical supply: connect the motorpump to the electric panel equipped with a dedicated residual current device. Never operate the motorpump if the cables are damaged, incorrectly connected or if their section is unsuitable. If using power extension cables, keep to the following instructions: if the length of the power extension cable is between 1 and 25 m (3 ft and 80 ft), cable section should be 2.5

mm². (0,0039 sq in); if length is between 25 and 50 m (80 ft and 160 ft), cable section should be 4 mm² (0,0062 sq in). Never use power extension cables longer than 50 m (160 ft). Warning: section is 4 mm² (0,0062 sq in) and 6 mm² (0,0093 sq in) respectively for three-phase machines.

5. Check that the water pressure from the water network is between 2 and 4 bar / 30 – 60 psi / 200.000 - 400.000 pascal, then open the tap for machine supply.
6. Change the oil after the first **48** hours working, successively every 300 ore or one time per month. Please use 15W40 oil.



In case of lack of water supply, the motorpump is not powered off automatically. In case of a current hogging due to a sudden voltage drop, use of an extension cable with a too small section (min. 2.5mm² / 0.0038 sq in) or work under the sun, the motorpump could be damaged irretrievably. In case, please contact the maintenance

service or the supplier, we suggest checking that the electrical network is not affected by frequent and considerable voltage variations. Without change the oil within the indicated times can cause permanent damage to the motorpump.

Routine naintenance - oil change

Check the oil level in the pump daily through the special level indicator and if it is necessary fill in more oil until the right level is reached. Use oil type 15W40.

For the oil replacement remove the cap with level, unscrew the cap and discharge the oil.

Replace the oil every one month or every 300 operation hours.

Warning



Always disconnect the electrical supply before servicing or checking the machine.

Warranty terms and conditions

Validity

This product is covered by a twenty-four (24) months warranty, starting from the purchase and/or test date. This warranty protects the user against manufacturing or material defects. In case the machine is used for professional applications, this warranty covers a period of twelve (12) months (ex C.L. no°422 art.1 par. B).

Warranty Conditions

1. The in-warranty repair is accepted only if the product is accompanied by the purchase receipt and the test report issued by the supplier.
2. Manufacturing company duty is limited to the repair and, at its own discretion, the replacement of the whole product or of single faulty components.
3. The suppliers and the technicians allowed to carry out in-warranty repairs are only those expressly authorized by the manufacturer
4. This product or its materials are not considered as faulty in case the customer needs to adapt the machine to technical or national safety regulations other than those in force in the country originally foreseen for the product. No refund shall be granted for damages arising from the above-mentioned modifications, or other changes not connected to the original design of the product, carried out by the customer/user or by unauthorized people.
5. The warranty does not apply to:
 - a. Periodical checks, maintenance operations, replacement of components subject to wear;
 - b. Transport, transfer or installation of the product;
 - c. Damages caused by fire, water, natural events, war and riots, incorrect power supply, insufficient ventilation of the installation place, and any other cause not connected the manufacturer;
 - d. Incorrect use, operating errors and wrong or unwary installation;
 - e. Damages to the product due to non original manufacturer spare parts use;

- f. Damages to the product or insufficient performance due to incorrect installation after purchase;
 - g. Every damage to the product due to negligence.
6. This Warranty is valid for every person formally having the propriety of the product during the above-mentioned period.
7. This Warranty does not affect the rights of the customer as prescribed by the law in force in the country, nor the rights of the customer towards the retailer arising from the contract of sale.



Declaration of conformity

I, the undersigned, acting legal representative of the company
Declare that the following appliances:

MOTORPUMP

Comply with the current laws in force, which implement the following directives and also declare that all the following regulations and/or technical specifications have been applied:

EN 60335-1:2012 + A11:2014+A13:2017 + A1:2019 + A14:2019 + A2:2019 + A15:2021
EN IEC 60335-2-41:2021+A11:2021
EN 62233:2008
EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 61000-3-2:2019+A1:2021
EN 61000-3-3:2013 + A1:2019



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