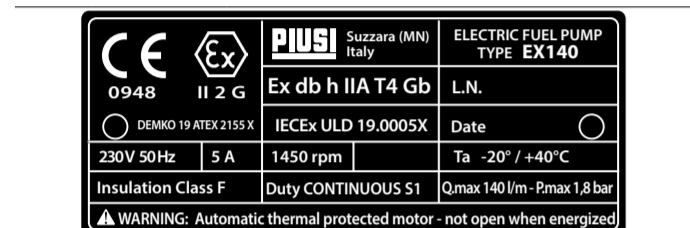


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1 MACHINE AND MANUFACTURER IDENTIFICATION



Example of technical data plate. The values vary depending on the model purchased. AVAILABLE MODELS: EX100 230V/50 Hz - 230V/60 Hz - 250V/50 Hz

MANUFACTURER: PIUSI S.p.A., Via Pacinotti 16/A - z. Rangovino 46029 Suzzara - (MN) - Italy

THE PUMPS COMPLIES WITH THE FOLLOWING MARKING ATEX

Table with 2 columns: Marking and Description. Includes II GROUP II, CATEGORY 2, TYPE OF EXPLOSIVE ATMOSPHERE, PERMANENT PREFIX, PROTECTION METHOD, GENERAL WARNINGS, CONFORMITY, MACHINE DESCRIPTION, DEFINITION OF CLASSIFIED ZONES, and AMBIENT TEMPERATURE.

2 CONFORMITY

WARNING SEE "DECLARATION OF CONFORMITY" SHEET

3 MACHINE DESCRIPTION

PUMP SELF-PRIMING, VOLUMETRIC, ROTATING ELECTRIC VANE PUMP EQUIPPED WITH BY-PASS VALVE, BRUSH MOTOR, POWERED BY ALTERNATE CURRENT WITH INTERMITTENT CYCLE, CLOSED TYPE, IP55 PROTECTION CLASS ACCORDING TO CEI EN 60034-5, FLANGE-MOUNTED DIRECTLY TO THE PUMP BODY.

WARNING MOTOR EQUIPPED WITH AUTOMATIC THERMAL OVERLOAD PROTECTION. SHOULD THE PROTECTION ACTIVATE, TURN OFF THE PUMP AND WAIT FOR IT TO COOL DOWN.

3.1 DEFINITION OF CLASSIFIED ZONES

- FOREWORD ZONE 0: Definition of zones as shown in directive 99/92/EC. Place where an explosive atmosphere made up of a mix of air and inflammable substances... ZONE 1: Place where it is probable that an explosive atmosphere, made up of a mix of air and inflammable substances... ZONE 2: Place where it is improbable that an explosive atmosphere, made up of a mix of air and inflammable substances... ZONE 20: Place where an explosive atmosphere in the form of a cloud of combustible powders in the air is continuously present...

- ZONE 21: Place where it is probable that an explosive atmosphere, in the form of a cloud of combustible powders in the air, can occur occasionally during normal operation. ZONE 22: Place where it is improbable that an explosive atmosphere, in the form of a cloud of combustible powders in the air, occur during normal operation but which, if it does occur, only persists for a short time.

3.2 IGNITION HAZARDS AND PROTECTIVE MEANS IMPLEMENTED

Hot surfaces: The pump does not reach the temperature on the external surface of 135 °C under any conditions of use. Mechanically generated sparks: All electrical components are located inside the explosion-proof enclosure. Static electricity: All materials used are in continuity or have a dimension less than 100 mm ².

3.3 INTENDED USE

INTENDED USE: PUMP FOR TRANSFERRING FUEL SUITABLE FOR OPERATING IN ZONES CLASSIFIED "1" AND "2", ACCORDING TO DIRECTIVE 99/92/EC. FORBIDDEN USE: Using the appliance for fluids other than those listed at paragraph "Fluids permitted" and for uses other than those described at the item "authorised use" is forbidden.

PLANT OPERATION RESTRICTIONS IT IS FORBIDDEN:

- 1 To use the appliance in a construction configuration other than that contemplated by the manufacturer. 2 To use the appliance with fixed guards tampered with or removed. 3 To use the appliance in places where there is risk of explosion and/or fires classified in the following zones: 20, 21, 22. 4 To integrate other systems and/or equipment not considered by the manufacturer in the executive project. 5 To connect the appliance up to energy sources other than those contemplated by the manufacturer. 6 To use the commercial devices for purposes other than those indicated by the manufacturer. 7 Use in case of lightning.

3.4 HANDLING AND TRANSPORT

Due to the limited weight and dimensions of the pumps, special lifting equipment is not required to handle them. The pumps are carefully packed before dispatch. Check the packing when receiving the material and store in a dry place.

4 GENERAL WARNINGS

Important precautions: To ensure operator safety and to protect the pump from potential damage, workers must be fully acquainted with this instruction manual before performing any operation. Symbols used in the manual: WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury. NOTICE is used to address practices not related to personal injury.

Manual preservation: This manual should be complete and legible throughout. It should remain available to end users and specialist installation and maintenance technicians for consultation at any time.

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NOTICE: THIS MANUAL IS VALID ONLY FOR AC PUMPS ALWAYS USE THE RIGHT VOLTAGES TO CONNECT THE PUMPS

WARNING: BEFORE PROCEEDING WITH THE REFUELLING OF THE AIRCRAFT, ENSURE THAT THE SYSTEM INTENDED FOR SUCH ACTION COMPLIES WITH THE REGULATIONS IN FORCE IN THE COUNTRY OF USE. USE THE PUMP ONLY WITH FLUIDS PERMITTED. DO NOT USE WITH FLUIDS NOT PERMITTED TO AVOID DAMAGING THE PUMP. THE GUARANTEE LAPSES IN CASE OF MISUSE OF THE FLUID.

WARNING: DO NOT USE THE PUMP WITH LIQUID FOOD PRODUCTS AND/OR WATER-BASED FLUIDS. DO NOT OPERATE THE PUMP DRY TO AVOID DAMAGE.

Before connection, make sure that the piping and the suction tank are free of dirt and solid residue that could damage the pump and its accessories. NEVER COLLECT THE FLUID FROM THE BOTTOM OF THE TANK SINCE IT MAY CONTAIN IMPURITIES. Keep a working fire extinguisher in the work area. Do not operate the unit when fatigued or under the influence of drugs or alcohol. Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards. Keep children and animals away from work area. Comply with all applicable safety regulations. Do not use in case of lightning. BEFORE USING THE PUMP SWITCH OFF ALL THE ELECTRIC DEVICES (I.E. MOBILE PHONES, BEEPERS ETC.)

5 FIRST AID RULES

Contact with the product: In the event of problems developing following EYE/SKIN CONTACT, INHALATION or INGESTION of the treated product, please refer to the SAFETY DATA SHEET of the fluid handled.

Persons who have suffered electric shock: Disconnect the power source, or use a dry insulator to protect yourself while you move the injured person away from any electrical conductor. Always touching the injured person with your bare hands until he is far away from any conductor. Immediately call for help from qualified and trained personnel. Do not operate switches with wet hands.

NOTICE: Please refer to the safety data sheet for the product

SMOKING PROHIBITED: DO NOT SMOKE NEAR THE PUMP AND DO NOT USE THE PUMP NEAR FLAMES.

6 GENERAL SAFETY RULES

USER'S RESPONSIBILITY: IT IS ESSENTIAL TO GET TO KNOW AND UNDERSTAND THE INFORMATION CONTAINED IN THIS MANUAL. IT IS ESSENTIAL TO GET TO KNOW AND OBSERVE THE SAFETY SPECIFICATIONS FOR FLAMMABLE LIQUIDS.

BEFORE USING THE PUMP IT'S IMPORTANT TO TRAIN OPERATORS, INSTALLERS AND MAINTENANCE STAFF TO LET THEM WORK IN A PARTICULAR AREA NO. 1 AS MENTIONED BY DIRECTIVE 99/92/EC

Essential protective equipment characteristics: IN CASE OF CONTACT WITH THE PRODUCT AND FOR GOOD STANDARD OF BEHAVIOUR, wear protective equipment which is: suited to the operations that need to be performed; resistant to products used TO DO SO, PLEASE REFER TO THE RELEVANT TECHNICAL DATASHEETS OF THE FLUID USED.

- Personal protective equipment that must be worn: safety shoes, close-fitting clothing, protection gloves, safety goggles, instructions manual.

Other devices: Prolonged contact with the treated product may cause skin irritation; always wear protective gloves during dispensing.

Protective gloves: To prevent electric shock and detonation of sparks, all pumping systems should have proper grounding, including tank and any accessories.

NOTICE: Enforce regulations for electrical installation. Never touch the electric plug or socket with wet hands. Do not switch the dispensing system on if the network connection cable or important parts of the apparatus are damaged, such as the inlet/outlet pipe, nozzle or safety devices. Replace the damaged pipe immediately.

WARNING: The electrical connection between the plug and socket must be kept well away from water. The pump is equipped with current-sensing protection. If it activates turn off the pump immediately.

WARNING: The pump is equipped with protection against over-heating and overload risks. Should such devices activate, the pump shuts down automatically, but the master switch is not turned off. It is important to stop the pump using its switch. The pump restarts after its normal operating conditions have been restored.

WARNING: Failure to observe the above mentioned rules can cause serious accidents. Should the heat sensor activate under normal use conditions, please contact the technical support. DO NOT OPEN THE WIRING BOX IN CLASSIFIED AREA

7 TECHNICAL DATA

Table with 10 columns: Model, Voltage (V), Frequency (Hz), Max Absorption (l/h), Absorbed Power (kW), Nominal flow rate (l/min), RPM, Maximum Back pressure (bar), Type of Service (S=continuous, Sp=periodic, Intermittent), SI.

POWER CORD INPUT: 1/2" NPT USE CABLE GLANDS WITH PROTECTION GRADE Ex-d

WARNING: IF YOU NEED TO INSTALL A THREAD ADAPTOR IN THE CABLE ENTRY HOLE, IT IS NECESSARY TO MAKE SURE THAT IT IS CERTIFIED ATEX WITH THE "Ex db" PROTECTION AND THE CABLE GLAND INSTALLED MUST HAVE MINIMUM 5 FULL THREADS ENGAGED

POWER CORD: Minimum section recommended for cables up to 6 mm² or 14 AWG. Recommended sheath: H07RN-F T90; SJT T90

8 OPERATING CONDITIONS

8.1 ENVIRONMENTAL CONDITIONS: AMBIENT TEMPERATURE min. -4 °F / max. +104 °F min. -20 °C / max. +40 °C. RELATIVE HUMIDITY min. -4 °F / max. +104 °F min. -20 °C / max. +40 °C max. 90%

WARNING: The temperature limits shown apply to the pump components and must be respected to avoid possible damage or malfunction.

8.2 ELECTRICAL POWER SUPPLY

NOTICE: The pump must be powered by AC line, the nominal values of which are indicated on the table in the paragraph "ELECTRICAL DATA". The maximum acceptable variations from the electrical parameters are: Voltage +/- 5% of the nominal value Frequency +/- 2% of the nominal value

WARNING: Power supply from lines with values that do not fall within the indicated limits could cause damage to the ELECTRICAL AND electronic components.

8.3 FLUIDS PERMITTED

WARNING: THE PUMP CAN BE USED ONLY WITH THE FOLLOWING FLUIDS: DIESEL, KEROSENE, PETROL, ALCOHOL MIXED MAX 15%, AVGAS 100/100LL (pump only), JET-A / A1 (pump only), ASPEN 2 / 4

9 INSTALLATION

WARNING: AUTOMATIC THERMAL PROTECTED MOTOR - NOT OPEN WHEN ENERGIZED. DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

WARNING: Before any operation, ensure to be out of potentially explosive areas. The pump must never be operated before the delivery and suction lines have been connected. Tighten the electrical box to ensure protection against the risk of explosion

PRELIMINARY INSPECTION: Verify that all components are present. Request any missing parts from the manufacturer. Check that the pump has not suffered any damage during transport or storage.

WARNING: If valves in the circuit are to be installed, make sure they are equipped with protection system. Clean the tank and make sure it is well-ventilated (recommended opening pressure: 3 psi) Apply the quick coupling to the tank correctly and safely. Do not block the drainage holes

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9.1 POSITIONING, CONFIGURATIONS AND ACCESSORIES

NOTICE: The pump must be secured in a stable manner.

WARNING: It is the installer's responsibility to provide the line accessories necessary for the safe and proper functioning of the pump. The accessories that are not suitable to be used with the previously indicated material could damage the pump and/or cause injury to persons, as well as causing pollution.

WARNING: To maximise performance and prevent damage that could affect pump operation, always demand original accessories.

9.2 NOTES ON SUCTION AND DELIVERY LINES

DELIVERY: The selection of the pump model must be made taking into account the characteristics of the system. The combination OEF: the length of the pipe, the diameter of the pipe, as well as the accessories installed, could create back pressure that are greater than the maximum predicted pressure, thereby causing the pump's electronic controls to intervene and reducing the dispensed flow considerably.

SUCTION: Self-priming pumps are characterized by excellent suction capacity. During the start-up phase, when the suction pipe is empty and the pump is wet with the fluid, the electric pump unit is able to suck liquid from a maximum vertical distance of 2m.

Always install a foot valve to prevent the suction pipe from being emptied and to keep the pump wet at all times. In this way, the pump will always start up immediately the next time it is used. When the system is in operation, the pump can operate with back pressures of up to 0.5 bars on the suction inlet; beyond this point, the pump may begin to cavitate resulting in a drop of the flow rate and an increase in the noise levels of the system.

IN LIGHT OF THIS, IT IS IMPORTANT TO GUARANTEE SMALL BACK PRESSURES ON THE SUCTION SIDE, BY USING SHORT PIPES WITH DIAMETERS THAT ARE EQUAL TO OR LARGER THAN THOSE RECOMMENDED, REDUCING BENDS TO A MINIMUM, AND USING FILTERS WITH A LARGE CROSS-SECTION AND FOOT VALVES WITH MINIMUM POSSIBLE RESISTANCE ON THE SUCTION SIDE. IT IS VERY IMPORTANT TO KEEP THE SUCTION FILTERS CLEAN BECAUSE, WHEN THEY BECOME CLOGGED, THEY INCREASE THE RESISTANCE OF THE SYSTEM.

The vertical distance between the pump and the fluid must be kept as short as possible, and it must fall within the 2m maximum required for priming. If the distance is greater, a foot valve must be installed to allow the suction pipes to fill up and the diameter pipes must be larger. It is however recommended that pump not be installed if the vertical distance is greater than 2m.

WARNING: If the suction tank is higher than the pump, an anti-siphon valve should be installed to prevent accidental diesel fuel leaks. Dimension the installation in order to control the back pressures due to water hammering

It is a good system practice to install vacuum and air pressure gauges right at the inlets and outlets of the pump, which allow verification that operating conditions are within anticipated limits. To prevent the suction pipes from being emptied when the pump stops, a foot valve should be installed.

THE INSTALLER IS RECOMMENDED TO INSTALL A SUCTION FILTER.

IF THE PUMP DOES NOT PRIME: Depending on the system characteristics, the priming phase can last from several seconds to a few minutes. If this phase is prolonged, stop the pump and verify: that the pump is not running completely dry (fill with fluid from the delivery line); that the suction pipe guarantees against air infiltration; that the suction filter is not clogged; that all air has been released from the delivery pipe.

AT THE END OF THE INITIAL START-UP: When priming has occurred, verify that the pump is operating within the anticipated range, in particular: that under conditions of maximum back pressure, the power absorption of the motor stays within the values shown on the identification plate; that the delivery back pressure does not exceed the maximum back pressure for the pump.

10 CONNECTIONS

10.1 ELECTRICAL CONNECTIONS: WARNING: Before any operation, ensure to be out of potentially explosive areas. It is the installer's responsibility to carry out the electrical connections in compliance with the relevant standards. Comply with the following (not exhaustive) instructions to ensure a proper electrical connection:

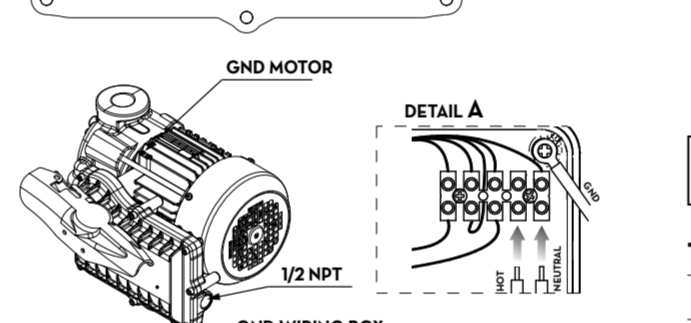
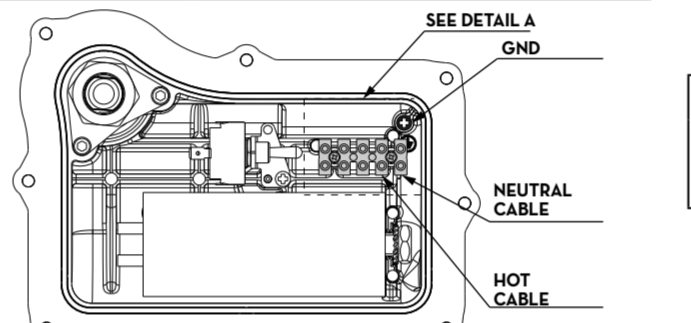
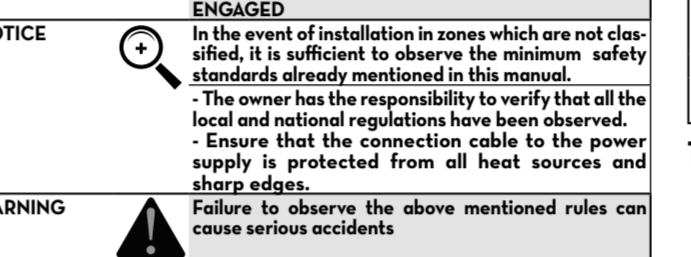
WARNING: All motors are equipped with a grounding terminal. Make sure all the plant is properly grounded. THE EXTERNAL EARTHED CABLE MUST HAVE A MINIMUM SECTION OF 4 mm² THE INTERNAL EARTHED CABLE MUST HAVE A MINIMUM SECTION OF 2 mm²

WARNING: IF YOU NEED TO INSTALL A THREAD ADAPTOR IN THE CABLE ENTRY HOLE, IT IS NECESSARY TO MAKE SURE THAT IT IS CERTIFIED ATEX WITH THE "Ex db" PROTECTION AND THE CABLE GLAND INSTALLED MUST HAVE MINIMUM 5 FULL THREADS ENGAGED

NOTICE: In the event of installation in zones which are not classified, it is sufficient to observe the minimum safety standards already mentioned in this manual.

WARNING: The owner has the responsibility to verify that all the local and national regulations have been observed. Ensure that the connection cable to the power supply is protected from all heat sources and sharp edges.

WARNING: Failure to observe the above mentioned rules can cause serious accidents



10.2 PIPING CONNECTIONS

FOREWORD: Before carrying out any connection, refer to the visual indications i.e. arrow on the pump head, to identify suction and delivery.

WARNING: Wrong connection can cause serious pump damage.

PRELIMINARY INSPECTION: Before connection, make sure that the piping and the suction tank are free of dirt and solid residue that could damage the pump and its accessories. NEVER COLLECT THE FLUID FROM THE BOTTOM OF THE TANK SINCE IT MAY CONTAIN IMPURITIES

Before connecting the delivery pipe, partially fill the pump body from delivery side, with the fluid that needs to be pumped in order to facilitate priming. Do not use conical threaded fittings, which could damage the threaded inlet or outlet openings of the pump if excessively tightened.

11 INITIAL START-UP

FOREWORD: Check that the quantity of fluid in the suction tank is greater than the amount you wish to transfer. Make sure that the residual capacity of the delivery tank is greater than the quantity you wish to transfer. Make sure that the piping and line accessories are in good condition.

NOTICE: THIS PUMP IS NOT PROVIDED FOR FURTHER REGULATION OF DELIVERY AND PRESSURE

WARNING: Fluid leaks can damage objects and injure persons.

NOTICE: Never start or stop the pump by connecting or cutting out the power supply. Prolonged contact with some fluids can damage the skin. The use of goggles and gloves is recommended.

Depending on the system characteristics, the priming phase can last from several seconds to a few minutes. If this phase is prolonged, stop the pump and verify: that the pump is not running completely dry (fill with fluid from the delivery line); that the suction pipe guarantees against air infiltration; that the suction filter is not clogged; that all air has been released from the delivery pipe.

When priming has occurred, verify that the pump is operating within the anticipated range, in particular: that under conditions of maximum back pressure, the power absorption of the motor stays within the values shown on the identification plate; that the delivery back pressure does not exceed the maximum back pressure for the pump.

AT THE END OF THE INITIAL START-UP: When priming has occurred, verify that the pump is operating within the anticipated range, in particular: that under conditions of maximum back pressure, the power absorption of the motor stays within the values shown on the identification plate; that the delivery back pressure does not exceed the maximum back pressure for the pump.

12 EVERY DAY USE

USE PROCEDURE: 1 If flexible pipes are used, attach the ends of the piping to the tanks. In the absence of an appropriate slot, the solidly grasp the delivery pipe before beginning dispensing. 2 Before starting the pump make sure that the delivery valve is closed (dispensing nozzle or line valve) 3 Turn the ON/OFF switch on 4 Open the delivery valve, solidly grasping the pipe 5 While dispensing, do not inhale the pumped product 6 If any treated fluid leaks out during dispensing, take all steps necessary to ensure the leaked fluid is cleaned up and safe as specified on the product technical sheet. 7 Close the delivery valve to stop dispensing 8 When dispensing is finished, turn off the pump

WARNING: THE WORKING OPERATIONS MUST ALWAYS BE GUARDED BY THE OPERATOR. The by-pass valve allows functioning with delivery closed only for short periods (max. 3 minutes).

To avoid damaging the pump, after use, make sure the pump is off. In case of a power break, switch the pump off straight away.

Should any sealants be used on the suction and delivery circuit of the pump, make sure that these products are not released inside the pump. Foreign bodies in the suction and delivery circuit of the pump could cause malfunctioning and breakage of the pump components.

WARNING: The screws class used for the assembly of explosion-proof enclosures must be of quality higher or equal to 8.8 (ISO 898-1) Flange/joint are not intended to be repaired. Fluid temperature range shall be from -20°C to +40°C

13 MAINTENANCE

The PUMP IS DESIGNED AND CONSTRUCTED TO require a minimum of maintenance. Before carrying out any maintenance work, DISCONNECT THE PUMP from the electrical and hydraulic power source. During maintenance, the use of personal protective equipment (PPE) is compulsory.

In any case always bear in mind the following basic recommendations for a good functioning of the pump.

WARNING: BEFORE ANY OPERATION, ENSURE TO BE OUT OF POTENTIALLY EXPLOSIVE AREAS FOR SAFETY REASONS IT IS FORBIDDEN REPAIR FLAMEPATH. DO NOT REMOVE THE PARTS "BOTTOM PLATE" (1), "MOTOR BODY" (2), "PUMP BODY" (3) AND "TERMINAL BASE" (4).

Authorized maintenance personnel: All maintenance must be performed by qualified personnel. Tampering can lead to performance degradation, danger to persons and/or property and may result in the warranty and UL/ATEX CERTIFICATION being voided.

Measures to be taken ONCE A WEEK: Check that the labels and plates found on the dispensing system do not deteriorate or become detached over time. Check that the pipe connections are not loose to prevent any leaks.

ONCE A MONTH: Check and keep the filter installed on the suction line clean. Check the pump body and keep it clean and free of any impurities. Check that the electrical supply cables are in good condition.

ATTENTION: EVERY 18000 CYCLES OF IGNITION / SHUTDOWN, REPLACE THE TERMINAL COVER WITH LEVER

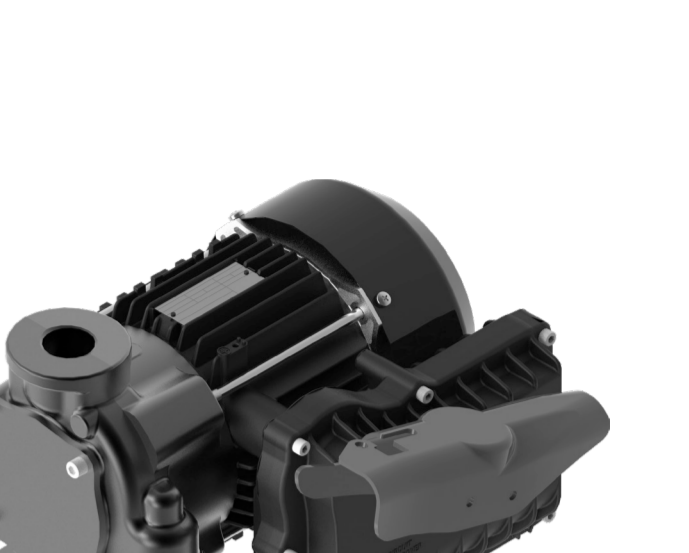
14 NOISE LEVEL

Under normal operating conditions, noise emission of all models does not exceed 74 db at a distance of 1 metre from the electric pump.

15 PROBLEMS AND SOLUTIONS

For any problems contact the authorised dealer nearest to you.

Table with 3 columns: PROBLEM, POSSIBLE CAUSE, CORRECTIVE ACTION. Includes issues like THE MOTOR IS NOT TURNING, THE MOTOR TURNS SLOWLY WHEN STARTING, LOW OR NO FLOW RATE, INCREASED PUMP NOISE, LEAKAGE FROM THE PUMP BODY, THE PUMP DOES NOT PRIME THE LIQUID, and THE HEAT SENSOR ACTIVATES UNDER NORMAL OPERATING CONDITIONS.



Installation, use and maintenance

Installation uso e manutenzione

MADE IN ITALY

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