

ENGLISH (Translated from Italian)**A TABLE OF CONTENTS**

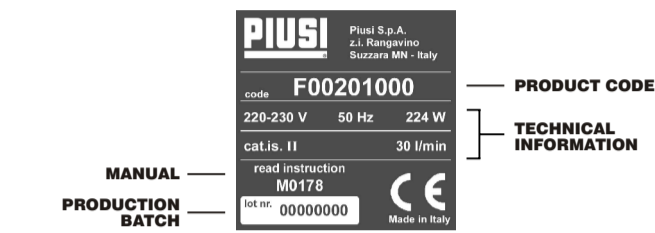
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B MACHINE AND MANUFACTURER IDENTIFICATION

Available Models: PICO 230V / PICO 12V / PICO 24V

MANUFACTURER: PIUSI SPA - VIA PACINOTTI Z.I. RANGAVINO
46029 SUZZARA (MN)

IDENTIFICATION PLATE (EXAMPLE WITH THE FIELDS IDENTIFIED):

**WARNING** Always check that the revision level of this manual coincides with what is shown on the identification plate.**C EC DECLARATION OF CONFORMITY**The undersigned: PIUSI S.p.A. - Via Pacinotti c.m. z.I.Rangavino
46029 Suzzara (Mantova) - Italy

HEREBY STATES under its own responsibility, that the equipment described below:

Description: Machine designed for the transfer of diesel fuel, emulsions and water

Model: PICO 230V / PICO 12V / PICO 24V

Serial number: refer to Lot Number shown on CE plate affixed to product
Year of manufacture: refer to the year of production shown on the CE plate affixed to the product

is in conformity with the legal provisions indicated in the directives :

- Machine Directive 2006/42/EC
- Low-Voltage Directive 2006/95/EC
- Electromagnetic Compatibility Directive 2004/108/ECThe documentation is at the disposal of the competent authority following motivated request at Plusi S.p.A. or following request sent to the email address: doc_tec@piusi.com
The person authorised to compile the technical file and draw up the declaration is Otto Varini as legal representative.

Suzzara, 29/12/2009

the legal representative
D MACHINE DESCRIPTION

Station for the transfer of diesel fuel, emulsions and water, equipped with a centrifugal electric pump.

IT IS IDEAL FOR THE QUICK AND EASY REFUELLING OF VEHICLES WITH DIESEL ENGINES FROM DRUMS, CONTAINERS AND TANKS.

ENGLISH (Translated from Italian)**E SAFETY****RESPIRATORY PROTECTION:**The inhalation of vapours, fumes or smoke must be prevented by means of good ventilation and by complying with the safety rules in the workplace.
It is the installer's responsibility to install the pump in ventilated place to avoid any vapours accumulation. He is also responsible for ensuring that the signals indicated in this section are used where VISCOMAT DC 120/1 is operating.**EYES PROTECTION:**

Should there be risks of spraying during use, wear a protective mask or protective eyewear.

**SKIN PROTECTION:**

Avoid repeated and prolonged contact with the skin by wearing impermeable protective gloves. Take good care of personal hygiene

**WARNING:** Due to a prolonged use, the pump may reach temperatures of 50/60°C. ALWAYS USE PROTECTIVE GLOVES.**FURTHER SAFETY INSTRUCTIONS:**

- Read the instructions carefully before using the pump and keep them for further reference.

- Do not use for solvents and fuels (e.g. petrol).
- Temperature range of liquids from -10°C to +35°C.

- The motor and switch are not of an anti-explosive type. Do not use the pump in areas where there is risk of explosion.

- The motor of the 230V version features double insulation. Consequently, it is possible to transfer water in complete safety.

- The safety equipment is completed by a built-in anti-siphon system that ensures that the liquid contained in the drum does not leak into the environment in the case of accidental damage to the delivery tube or dispensing nozzle.

- The pump must never be used when empty.

- The pump only works in a vertical position.

- The pump must only be used under the surveillance of the operator.

- Before connecting the pump to the power supply, ensure that the voltage complies with the limitations indicated.

- Do not smoke during diesel refuelling.

- Avoid spilling diesel, which is harmful to the environment.

- Use of the pump is nonetheless subject to the industrial accident prevention regulations.

F DISPOSAL

The components must be given to companies that specialise in the disposal and recycling of industrial waste and, in particular, the

DISPOSAL OF PACKAGING

The packaging consists of biodegradable cardboard which can be delivered to companies for normal recycling of cellulose.

DISPOSAL OF METAL COMPONENTS

Metal parts, whether paint-finished or in stainless steel, can be consigned to scrap metal collectors.

DISPOSAL OF ELECTRIC AND ELECTRONIC COMPONENTS

These have to be disposed by companies that are specialised in the disposal of electronic components, in accordance with the instructions of 2002/96/EC (see text of Directive below).

ENGLISH (Translated from Italian)**INFORMATION ON THE ENVIRONMENT FOR CLIENTS RESIDING WITHIN THE EUROPEAN UNION**European Directive 2002/96/EC requires that machines with this marking on the product and/or packaging not be disposed together with urban waste that is not collected separately. The symbol indicates that this product should be disposed of separately from regular household waste streams.
It is the responsibility of the owner to dispose these products as well as any other electric or electronic appliances using the specific collection structures indicated by the govern or the local public utility companies**DISPOSAL OF OTHER PARTS**

The disposal of other parts such as pipes, rubber seals, plastic components and cables should be entrusted to companies that special in the disposal of industrial waste.

DISPOSAL OF PACKAGING

The packing material does not require special precautions for its disposal, not being in any way dangerous or polluting. Refer to local regulations for its disposal.

F.1 NOISE LEVEL

Under normal operating conditions noise emission for all models does not exceed the value of 70 dB "A" at a distance of 1 Meter from the electric pump.

F.2 HANDLING, TRANSPORT AND UNPACKINGGiven the limited weight and size of the parts of the PICO station (1.8 Kg the pump, 4.5/5.5 Kg the complete unit), moving them does not require the use of lifting devices.
Before shipment, the units are carefully packed.

Check the packing material on delivery and store in a dry place.

F.2.1 Unpacking

Unpack the unit after removing the manuals, the inside and protections ensuring the unit a secure position in the container, thus avoiding the risk of dangerous movements.

F.3 PRELIMINARY INSPECTION

- Check that the machine has not suffered any damage during transport or storage.
- Clean the inlet and outlet openings, removing any dust or residual packing material.
- Check that the electrical specifications correspond to those shown on the identification plate.

G OPERATING CONDITIONS**G.1 ENVIRONMENTAL CONDITIONS**TEMPERATURE: min. -20°C / max. +60°C
RELATIVE HUMIDITY: max. 90%**WARNING**

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

G.2 ELECTRICAL POWER SUPPLY

Depending on the model, the pump must be supplied by a (12/24V) continuous current line whose nominal values are shown in the table in Paragraph "H.1" Electrical Specifications. The maximum acceptable variations from the electrical parameters are:

Voltage: +/- 5% of the nominal value.

ENGLISH (Translated from Italian)**WARNING**

Power from lines with values outside of the indicated limits can damage the electrical components.

G.3 WORKING CYCLE

The pumps are designed for INTERMITTENT use with a 30- minute work cycle under conditions of maximum back pressure.

WARNING

Functioning under delivery closed conditions is only allowed for brief periods of time (5 minutes maximum).

G.4 FLUIDS PERMITTED / FLUIDS NOT PERMITTED**PERMITTED:**

- DIESEL FUEL with a viscosity from 2 to 5.25 cSt (at a temperature of 37.8° C)
Minimum Flash Point (PM): 55°C
- WATER
- EMULSIONS water/oil

NOT PERMITTED:

- GASOLINE
- INFLAMMABLE LIQUIDS with PM < 55°C
- FOOD LIQUIDS
- CORROSIVE CHEMICAL PRODUCTS
- SOLVENTS
- FIRE - EXPLOSION
- FIRE - EXPLOSION
- CONTAMINATION OF THE SAME
- PUMP CORROSION
- INJURY TO PERSONS
- FIRE - EXPLOSION
- DAMAGE TO GASKET SEALS

H INSTALLATION AND EQUIPMENTEquipment and assembly:

- No. 1 pump body
- No. 4 metres of 3/4" tube
- No. 1 dispensing nozzle (manual or automatic)
- No. 1 filter
- No. 4 clamps
- No. 1 hose-end fitting (No. 1 meter K24 (optional)

- Prepare the intake tube (7) by cutting a sufficient length from the rubber tube to reach the bottom of the drum or tank. Insert one end of the intake tube in the appropriate intake nozzle on the pump body (1) and fasten in place with a clamp (3). Assemble the filter (9) and fasten in place with a clamp (3).

- Screw the pump body (1) onto the drum or tank, taking care to place the pump in a VERTICAL position, and connect the device to the power supply.

- On the delivery of the pump, screw the plastic hose-end fitting to the ring nut already fixed on the outlet. If it is used with a meter, this is to be fitted on the outlet by means of the ring nut and with the hose-end fitting screwed to the meter outlet.

- Thread the delivery tube (2) onto the delivery nozzle of the pump body and fasten in place with a clamp. Thread the dispensing nozzle (4) onto the opposite end of the delivery tube and fasten in place with a clamp (3).

H.1 ELECTRICAL CONNECTIONS

PICO electrical connections are limited to the insertion of the plug into the socket for the model with Schuko plug and connection of the pliers to the battery, in the version fitted with cable with pliers.

A SUITABLE SWITCH SHOULD BE INSTALLED ON THE MAINS POWER LINE TO DISABLE IT. THE INSTALLER IS COMPLETELY RESPONSIBLE FOR THIS OPERATION.**ENGLISH** (Translated from Italian)

Comply with the following (not exhaustive) instructions to ensure a proper electrical connection:

- During installation and maintenance make sure that power to the electric lines has been turned off.
- Use cables characterized by the minimum cross-sections, nominal voltages and wiring-type adequate to the electrical characteristics shown in Paragraph "H.1" - Electrical Specifications and the installation environment.

I COMMISSIONING / DAILY USE

A) Open the nozzle, by activating the lever. Keep the fuelling lever pressed. Start the pump by repeatedly activating the fuelling lever (25 operations) until priming of the fluid to be dispensed (the liquid starts flowing from the dispensing nozzle).

B) When fluid starts flowing out, start the motor using the switch and proceed to fuelling. When finished, release the fuelling lever, place the spout in the pump body, if supplied. Do not let the motor running with the fuelling lever not pressed for more than 5 minutes.

WARNING

Repeat process "A" after an extended stop, if liquid doesn't flow, if the motor is re-started or after a power failure.

WARNING

Do not let the motor running with the fuelling lever not pressed for more than 5 minutes. The pump must never be used when empty.

L DISASSEMBLING AND MAINTENANCE

PICO 40 requires little maintenance, but we recommend the period checking, and if necessary cleaning, of the intake filter and the state of efficiency of the tubes and the dispensing nozzle, in order to ensure a long working life.

Ensure that the pump has been disconnected from the power supply before performing any cleaning, maintenance or disassembly operation.

If the electric cable is damaged it must be replaced from the constructor or its technical service or however from a person with a similar qualification so as to prevent any risk. Make sure that the place where the pump is installed is not susceptible to being overflowed.

M MATERIALThe pump of the PICO station is made from a technopolymer material that guarantees maximum resistance to all the forms of stress to which the pump may be subjected during transfer operations.
All internal and external metal parts are made from AISI 303 stainless steel.**N EMERGENCY OPERATION**

In the case of power failure or when small quantities of liquid need to be transferred, it is possible to operate the pump manually, in the following manner:

- keep the lever of the dispensing nozzle pressed (5);
- activate the trigger repeatedly (12/15 times approx.) (6);
- proceed to the transfer.

ENGLISH (Translated from Italian)**O PROBLEMS AND SOLUTIONS**

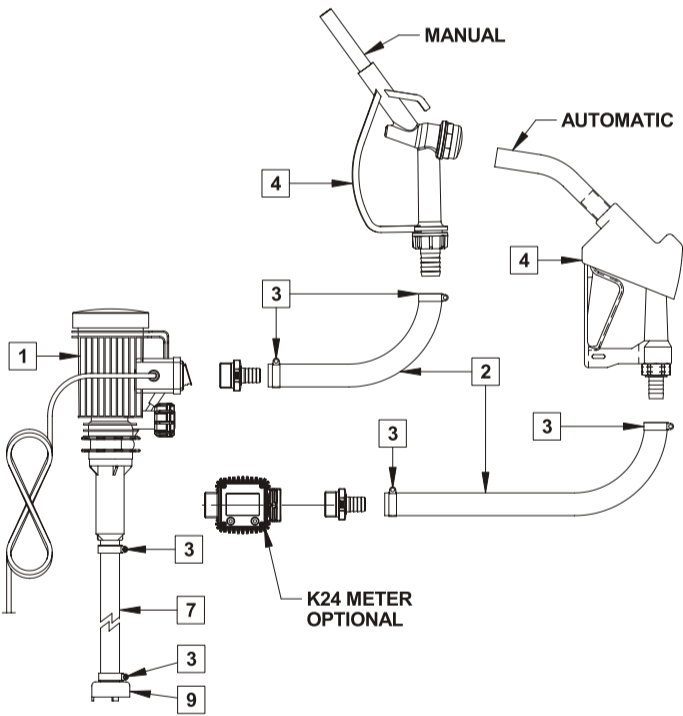
PROBLEMS	POSSIBLE CAUSE	CORRECTIVE ACTION
THE MOTOR IS NOT TURNING	Lack of electric power.	Check the electrical connections and safety systems. Contact the Service Department.
THE PUMP IS NOT PRIMED	Probable emptying of the intake tube.	Prime according to the described procedure.

NB:

The manufacturer reserves the right to modify the product at any time and without previous notice. In the case in which the pump must be used with liquids whose chemical aggressiveness is not known, it is advisable to contact your dealer.

P TECHNICAL SPECIFICATIONS AND PERFORMANCE

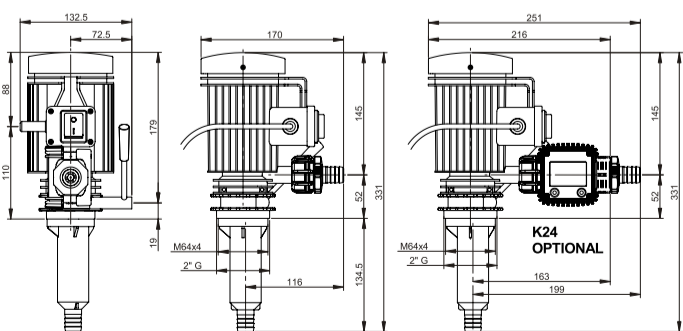
	PICO 230 V	PICO 12 V	PICO 24 V
Voltage	230 V	12 V	24 V
Frequency	50 / 60 Hz		
Current Type	AC single phase	Continuous Current	Continuous Current
Absorbed power	224 W	110 W	135 W
Absorption	0,97 A	9,2 A	5,6 A
Insulation category	II	III	III
Flow rate, manual / automatic nozzle	35 / 30 l/min	30 / 25 l/min	30 / 25 l/min
Discharge head	1 metre	1 metre	1 metre
Station weight, manual / automatic nozzle	4,5 / 5,5 Kg	4,5 / 5,5 Kg	4,5 / 5,5 Kg
Pump weight	1,8 Kg	1,8 Kg	1,8 Kg
Protection	IP x 4	IP x 4	IP x 4
Noise level	70 dB	70 dB	70 dB
Drum connection	M6x4 - 2"G	M6x4 - 2"G	M6x4 - 2"G
Electrical connections	Lenght cable 2 m + Schuko plug	Lenght cable 3 m + hose-end fitting pliers	Lenght cable 3 m + hose-end fitting pliers
Pump connections	hose-end fitting ø19	hose-end fitting ø19	hose-end fitting ø19
Delivery tube	2,5 m ø19	2,5 m ø19	2,5 m ø19
Intake tube	1,5 m ø19	1,5 m ø19	1,5 m ø19

Q ESPLOSOEXPLODED VIEW
VUE ECLATEE
ÜBERSICHTSBILDTAFEL**R INGOMBRI** (unità di misura: mm)

DIMENSIONS (unit of measurement: mm)

DIMENSIONS (unité de mesure: mm)

AUSSENMASSE (Maßeinheit: mm)

MANUALE
D'USO E
MANUTENZIONE

ITALIANO

USE AND
MAINTENANCE
MANUAL

ENGLISH

MANUEL
D'UTILISATION ET
D'ENTRETIEN

FRANÇAIS

BEDIENUNGS-UND
WARTUNGSANLEITUNG

DEUTSCH

