

ENGLISH (Translated from Italian)

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DECLARATION CE OF CONFORMITY

The undersigned:

PIUSI S.p.A.
Via Piccinotti c.m. z.i. Rangavino
46029 Suzzara - (MN) - Italy

HEREBY STATES

under its own responsibility, that the equipment described below:
Description : Diesel fuel dispenser
Model : Piusi Box
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
- Electromagnetic Compatibility Directive 2014/30/EU
The documentation is at the disposal of the competent authority following motivated request at Piusi 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, 02/05/2016

Otto Varini

Otto Varini
legal representative

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GENERAL WARNINGS

Warnings

To ensure operator safety and to protect the dispensing system from potential damage, workers must be fully acquainted with this instruction manual before attempting to operate the dispensing system.
The following symbols will be used throughout the manual to highlight safety information and precautions of particular importance.
ATTENTION
This symbol indicates safe working practices for operators and/or potentially exposed persons.
WARNING
This symbol indicates that there is risk of damage to the equipment and/or its components.
NOTE
This symbol indicates useful information.
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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Symbols used in the manual

ATTENTION

WARNING

NOTE

Manual preservation

Reproduction rights

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SAFETY INSTRUCTIONS

Mains - preliminary checks before installation

Maintenance control

FIRE AND EXPLOSION

When flammable fluids are present in the work area, such as gasoline and wind shield wiper fluid, be aware that flammable fumes can ignite or explode.

ELECTRIC SHOCK

Electrocution or death

ATTENTION

You must avoid any contact between the electrical power supply and the fluid that needs to be FILTERED.

Before any checks or maintenance work are carried out, disconnect the power source.
To help prevent fire and explosion:
Use equipment only in well ventilated area.
Keep work area free of debris, including rags and spilled or open containers of solvent and gasoline.
Do not plug or unplug power cords or turn lights on or off when flammable fumes are present.
Ground all equipment in the work area.
Stop operation immediately if static sparking occurs or if you feel a shock. Do not use equipment until you identify and correct the problem.
Keep a working fire extinguisher in the work area.
This equipment must be grounded. Improper grounding, setup or usage of the system can cause electric shock.
Turn off and disconnect power cord before servicing equipment.
Connect only to a grounded electrical outlets.
Use only 3 wire extension cords in accordance with local electrical codes. Extension cords should have a ground lead.
Ensure ground prongs are intact on power and extension cords.
Do not expose to rain. Store indoors.
Never touch the electric plug of socket with wet hands.
Do not turn the dispensing system on if the power connection cord or other important parts of the apparatus are damaged, such as the inlet outlet plumbing, dispensing nozzle or safety devices. Replace damaged components before operation.
Before each use check that the power connection cord and power plug are not damaged. If damaged, have power connection cord replaced before use by a qualified electrician.
The electrical connection between the plug and socket must be kept well away from water.
Unsuitable extension leads can be hazardous, in accordance with current regulations, only extension cords that are labelled for outdoor use and have a sufficient conduction path should be used outdoors.
For safety reasons, we recommend that, in principle, the equipment be used only with an earth-leakage circuit breaker (max 30 mA).
Electrical connections must use ground fault circuit interrupter (GFCI).
Installation operations are carried out with the box open and accessible electrical contacts. All these operations have to be done with the unit isolated from the power supply to prevent electrical shock!

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FIRST AID RULES

Persons who have suffered electric shock

When operating the dispensing system and in particular during refuelling, do not smoke and do not use open flame.

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GENERAL SAFETY RULES

Essential protective equipment characteristics

Personal protective equipment that must be worn

Protective equipment

Protective gloves

DANGER

Wear protective equipment that is suited to the operations that need to be performed; resistant to cleaning products.
Safety shoes:
Close-fitting clothing;
Protective gloves;
Safety goggles;
Instruction manual
Prolonged contact with the treated product may cause skin irritation; always wear protective gloves during dispensing.
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.
Before each use, check that the network connection cable and power plug are not damaged. Have the network connection cable replaced immediately by a qualified electrician.
The electrical connection between the plug and socket must be kept well away from water.
Unsuitable extension leads can be dangerous. In accordance with current regulations, only extension cords that are labelled for outdoor use and have a sufficient conduction path should be used outdoors.

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DISPENSING SYSTEM PACKAGING

PACKAGING

Box contents

Label containing all information relating to the equipment (type, weight, etc.).

6.1

PACKAGE CONTENTS/PRE-INSPECTION

Open the packaging and check that the following components provided as part of the equipment are available:
In the event that one or more of the components described below are missing from inside the package, please contact Piusi S.p.A. technical support.
Check that the data on the plate correspond to the desired specifications. In the event of any anomaly, contact the supplier immediately, indicating the nature of the defects. Do not use equipment which you suspect might not be safe.

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6.2 PIUSI BOX COMPOSITION

1

Pump assembly

2

Nozzle

3

Box composed of two half-shells

4

Delivery hose

5

Plates

6

Screws

7

Hose tail fitting, brass

8

Clamps

9

Hose tail Ø20

10

Check valve with filter

11

Use and maintenance handbook

12

Filter cartridge (only PRO version)

14

Suction tube

1

BASIC

7

MACHINE AND MANUFACTURER IDENTIFICATION

The dispensing system comes with an identification plate; this is attached to the pump and contains the following information:
- type;
- lot number / Production year;
- technical data;
- use and maintenance handbook code
ATTENTION
Before installing, always make sure the type of dispensing system is correct and suitable for the available power supply (Voltage/Frequency.)

7.1

PLATES POSITION

The dispensing system is equipped with decals and/or plates to provide operators with the necessary important information. Make sure that these do not deteriorate or become detached over time.
NOTE
Should this situation arise, please contact our support department and arrange to have the damaged or missing plates sent back and replaced where necessary.

The decals present are as follows:
- protection gloves;
- safety goggles;
- close-fitting clothing;
- consult the user and maintenance manual;
- safety shoes.
product for dispensing

7.2

TECHNICAL SPECIFICATIONS

Dimensions

Length 400 mm / 14,75 inch
Depth 300 mm / 11,8 inch
Height 425 mm / 16,7 inch
Weight
BASIC Version 9,5 kg / 21 lb
PRO Version 12 kg / 26,5 lb

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INTENDED USE

Intended use

Conditions of use

Fluid Permitted

ATTENTION

Flammable liquids and explosive atmosphere

Environmental conditions

ATTENTION

Electrical power supply

ATTENTION

The dispensing system "PIUSI BOX" was designed and built to dispense diesel fuel.
The dispensing system "PIUSI BOX" should be used by observing the following conditions:
Max. temperature of dispensed product: +35 °C
Min temperature of dispensed product: -11 °C
Max. temperature of dispensed product permitted by materials: +40 °C
Equivalent continuous sound pressure level at the work-station: 75 dB(A)
Make sure that the pump operates within its nominal operating parameters
DIESEL FUEL at a VISCOSITY from 2 to 5,35 cSt (at a temperature of 37,8° / 100°F C). Minimum Flash Point (P.M.): 55°C / 131°F (EN590)
The system "PIUSI BOX" was not designed for dispensing of diesel, petrol, flammable liquids with flash point <55 °C/131°F, or for operation in environments with potentially explosive atmospheres. The use in the above mentioned conditions is forbidden.
TEMPERATURE min. -20° C / max +60° C
RELATIVE HUMIDITY: max. 90%
The temperature limits shown apply to the pump components and must be respected to avoid possible damage or malfunction.
The dispensing system should be powered by a safe source: battery or power supply 12/24v with safety transformer.
In accordance with the model, the maximum acceptable variations from the electrical parameters are:
Voltage: +/- 10% of the nominal value
Power supply from lines with values that do not fall within the indicate limits could cause damage to the electrical components and reduction of working performance

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ELECTRICAL SPECIFICATIONS

1

Cables with faston connector coupling for connection to the power supply line

2

RED cable: positive pole (+)

3

BLACK cable: negative pole (-)

4

Terminal strip box (protection class IP55 in conformance with the directive EN 60034-5-97) complete of:
4A ON/OFF switch
4B Safety fuse against short circuits and overcurrent, 25a fuse for 12v models
4C Safety fuse against short circuits and overcurrent, 15a fuse for 24v models
5 power cable complete of pincers for connection to the battery

ATTENTION

It is the responsibility of the installer to carry out the electrical connections in compliance with the applicable regulations.
DO NOT INVERT FUSES TO AVOID ANY MOTOR DAMAGE OR MALFUNCTION.
25A FUSE CAN BE FITTED ONLY ON 12V PUMP
15A FUSE CAN BE FITTED ONLY ON 24V PUMP

WARNING

NOT PERMITTED LIQUIDS
- Gasoline
- Inflammable liquids with pm + 55° C
- Water
- Food liquids
- Corrosive chemical products
- Solvents
- Liquids with viscosity >20cst
RELATED DANGERS
- fire explosion
- fire explosion
- pump oxidation
- contamination of the same
- pump corrosion
- Injury to persons
- fire explosion
- Damage to gasket seals
- motor overload
It is absolutely forbidden to use the system for purposes other than those provided for and specified under "Intended use."
All products not listed in the "Intended Use" and "Treated Product Characteristics" paragraphs are to be considered not permitted, improper and therefore prohibited. Piusi S.p.A. accepts no responsibility for damage to persons or property caused by failure to comply with this requirement.
Functioning under by-pass conditions is only allowed for brief periods of time (2-3 minutes maximum).

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INSTALLATION

Foreword

Authorised installation personnel

ATTENTION

"PIUSI BOX" dispensing system is supplied with a few parts that are to be assembled by the purchaser. Piusi Box can be carried only if properly closed and by means of its handle.
All installations must be carried out by authorised and competent personnel only. Authorised persons must:
- install the system in dry and well-ventilated place;
- ensure the correct installation of equipment required for the correct functioning of the pumps;
- only use accessories that have been supplied with the system.
The use of accessories that are unsuitable and were not provided with the system is strictly prohibited. Piusi S.p.A. accepts no responsibility for damage to persons, property or the environment caused by failure to comply with this requirement.
As per the current legislation, the "PIUSI BOX" dispensing system must be installed in premises that are sufficiently well-lit.
Do not put your fingers into the pump openings while the pump is working

9.1

ASSEMBLY

Assemble as shown in the illustration. See components number at chap. 6.2
PIUSI BOX BASIC

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PIUSI BOX PRO

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OPERATION AND USE

Foreword

ATTENTION

ATTENTION

ATTENZIONE

WARNING

ATTENTION

Getting started:

Directions on how to start and stop operation of the system are given below.
During operation the motor may be hot: be careful.
Do not run the pump dry. This can cause serious damage to its components.
Do not run the pump dry. This can cause serious damage to its components.
Operation of the pump without dispensing is only admitted for periods of no longer than 3 minutes.
We recommend that the pump remains switched off whenever the system is not in use.
If ever the voltage is lagging, push the switch to the OFF position and return the nozzle to its rest position with its lever not activated.
see OPERATINON AND USE diagram

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MAINTENANCE

Safety instructions

Maintenance

Measures to be taken ONCE A WEEK:

ONCE A MONTH:

ATTENTION

The dispensing system was designed and built to require a minimal amount of maintenance. Before carrying out any maintenance work, disconnect the dispensing system from any 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 dispensing system.
Tampering can lead to the performance loss and danger to people and / or things, in addition to the termination of the guarantee.
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;
- Check and keep the filter installed on the suction line clean.
- Check that the electrical supply cables are in good condition.
Keep PIUSI BOX clean

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TROUBLESHOOTING

30' MAX

Supply voltage on data plate

OPERATION AND USE DIAGRAM

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PROBLEM

POSSIBLE CAUSE

CORRECTIVE ACTION

THE MOTOR IS NOT TURNING

Lack of electric power
Rotor jammed
Motor problems

Check the electrical connections and the safety systems.
Check for possible damage or obstruction of the rotating components.
Contact the Service Department.

THE MOTOR TURNS SLOWLY WHEN STARTING

burned fuse
Low voltage in the electric power line
Low level in the suction tank
Foot valve blocked
Filter clogged (if any)
Excessive suction pressure

replace the fuse
Bring the voltage back within the anticipated limits
Refill the tank.
Clean and/or replace the valve.
Clean the filter.
Lower the pump with respect to the level of the tank.

LOW OR NO FLOW RATE

High loss of head in the delivery circuit (working with the by-pass open)
By-pass valve blocked
Air entering the pump or the suction tubing
Low rotation speed

Use shorter tubing or of greater diameter
Dismantle the valve, clean and/or replace it
Check the seals of the connection tubing
Check the voltage at the pump
Adjust the voltage and/or use cables of greater cross-section

INCREASED PUMP NOISE

The suction tubing is resting on the bottom of the tank
Cavitation occurring
Irregular functioning of the by-pass

Raise the tubing
Reduce suction pressure
Dispense fuel until the air is purged from the by-pass system

LEAKAGE FROM THE PUMP CASING

Air present in the diesel fuel
Drive shaft seal damaged
Pump chamber cover seal damaged
Hose tail fitting seal damaged.

Verify the suction connections.
Check and replace the seal in position A if necessary.
Check and replace the seal in position B if necessary.
Check and replace the seal in position C if necessary.

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DEMOLITION AND DISPOSAL

Foreword

Disposing of packing materials

Metal Parts

Disposal

Disposal of electric and electronic components

Information regarding the environment for clients residing within the European Union

If the system needs to be disposed, the parts which make it up must be delivered to companies that specialize in the recycling and disposal of industrial waste and, in particular, ...
The packaging consists of biodegradable cardboard which can be delivered to companies for normal recycling of cellulose.
Metal parts, whether paint-finished or in stainless steel, can be designed to scrap metal collectors.
These must be disposed of by companies that specialize in the disposal of electronic components, in accordance with the indications of directive 2012/19/EU (see text of directive below).
European Directive 2012/19/EU requires that all equipment marked with this symbol on the product and/or packaging not be disposed of together with non-differentiated urban waste. The symbol indicates that this product must not be disposed of together with normal household waste. It is the responsibility of the owner to dispose of these products as well as other electric or electronic equipment by means of the specific refuse collection structures indicated by the government or the local governing authorities.
Disposing of RAEE equipment as household wastes is strictly forbidden. Such wastes must be disposed of separately.
Any hazardous substances in the electrical and electronic appliances and/or the misuse of such appliances can have potentially serious consequences for the environment and human health.
In case of the unlawful disposal of said wastes, fines will be applicable as defined by the laws in force.
Other components, such as pipes, rubber gaskets, plastic parts and wires, must be disposed of by companies specialising in the disposal of industrial waste.

Miscellaneous parts disposal

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PIUSI

Fluid Handling
Innovation

PIUSI
BOX

MADE IN ITALY

Installation, use and maintenance EN
Instalación uso y mantenimiento ES

BULLETIN M0200 C ENES_00

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DEMOLICIÓN Y ELIMINACIÓN

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DECLARACIÓN CE DE CONFORMIDAD

La abajo firmante

PIUSI S.p.A.
Via Pacinotti 16/A - z.l. Rangavino
46029 Suzzara - Mantova - Italy

DECLARA bajo su responsabilidad, que el equipo descrito a continuación:
Descripción: Surtidor para carburante Diesel
Modelo: Piusi Box
Matrícula: referirse al "Lot Number" indicado en el marcado CE colocado en el producto
Año de fabricación: referirse al año de fabricación indicado en el marcado CE colocado en el producto
es conforme a las disposiciones legislativas que transponen las directivas:
- Directiva de máquinas 2006/42/CE
- Directiva de compatibilidad electromagnética 2014/30/UE

La documentación está a disposición de las autoridades competentes previa solicitud justificada formulada a Piusi S.p.A. o solicitándola a través de la dirección de correo electrónico: doc.tec@piusi.com. La persona autorizada para crear el fascículo técnico y redactar la declaración es el Sr. Otto Varini en calidad de representante legal.

Suzzara, 02/05/2016

Otto Varini

Representante legal

ESPAÑOL (Traducido del italiano)

UTILIZACIÓN INCORRECTA DEL EQUIPO

Una utilización incorrecta puede causar muerte o lesiones graves

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DESCARGA ELÉCTRICA

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ELECTROCUCIÓN O MUERTE

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