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1 FACSIMILE COPY OF EU DECLARATION OF CONFORMITY

The undersigned Piusi S.p.A.
Via Pacinotti 16/A z.i. Rangavino
46029 Suzzara - Mantova - Italy

HEREBY STATES under its own responsibility that the equipment described below:
Description : **DIESEL FUEL DISPENSER**
Model: **ST 200**

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

complies with the following legislation:
- Machinery Regulations
- Electromagnetic compatibility

The technical file is at the disposal of the competent authority following motivated request at Piusi S.p.A. or following request sent to the e-mail address: doc.tec@piusi.com.

THE ORIGINAL DECLARATION OF CONFORMITY IS PROVIDED SEPARATELY WITH THE PRODUCT

2 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.
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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3 SAFETY INSTRUCTIONS

3.1 SAFETY WARNINGS

Mains - preliminary checks before installation	 ATTENTION You must avoid any contact between the electrical power supply and the fluid that needs to be FILTERED.
Maintenance control	Before any checks or maintenance work are carried out, disconnect the power source.
FIRE AND EXPLOSION	 To help prevent fire and explosion: Use equipment only in well ventilated area.
When flammable fluids are present in the work area, such as gasoline and windshield wiper fluid, be aware that flammable fumes can ignite or explode.	 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.

ELECTRIC SHOCK	 This equipment must be grounded. Improper grounding, setup or usage of the system can cause electric shock.
Electrocution or death	 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 a earth-leakage circuit breaker (max 30 mA).

EQUIPMENT MISUSE	 Misuse can cause death or serious injury
BURN HAZARD	 Do not operate the unit when fatigued or under the influence of drugs or alcohol. Do not leave the work area while equipment is energized or under pressure. Turn off all equipment when equipment is not in use. Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards. Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not kink or over bend hoses or use hoses to pull equipment. Keep children and animals away from work area. Comply with all applicable safety regulations. Do not exceed the maximum operating pressure or the temperature of the part with lower nominal value of the system. See Technical Data in all equipment manuals. Use fluids and solvents that are compatible with the wetted part of the system. See Technical Data in all equipment manuals. Read the manufacturer's instructions of the fluids and solvents. For more information on the material, request the safety data sheet (MSDS) from the distributor or dealer. Check the equipment every day. Immediately repair or replace worn or damaged parts only with original spare parts of the manufacturer. Make sure the equipment is classified and approved compliant with the standards of the environment where it is used. Use the equipment only for the intended use. Contact your distributor for more information. Keep hoses and cables far from traffic areas, sharp edges, moving parts and hot surfaces. Do not bend or overbend the hoses or use the hose to pull the equipment. To avoid severe burns do not touch hot fluid or equipment.
TOXIC FLUID OR FUMES HAZARD	 Read MSDS's to know the specific hazards of the fluids you are using. Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines. Prolonged contact with the treated product may cause skin irritation: always wear protective gloves during dispensing.

3.2 FIRST AID RULES

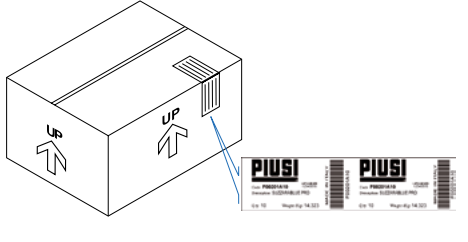
Persons who have suffered electric shock	Disconnect the power source, or use a dry insulator to protect yourself while you move the injured person away from any electrical conductor. Avoid touching the injured person with your bare hands until he is far away from any conductor. Immediately call for help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

3.3 GENERAL SAFETY RULES

Essential protective equipment characteristics	Wear protective equipment that is: - suited to the operations that need to be performed; - resistant to cleaning products.
Personal protective equipment that must be worn	 Safety shoes;  Close-fitting clothing;  Protective gloves;  Safety goggles;  Instruction manual
Other equipment	

4 DISPENSING SYSTEM PACKAGING

The dispensing system comes packed suitably for shipment. On the packaging a label shows the following product information:
- name
- code
- weight

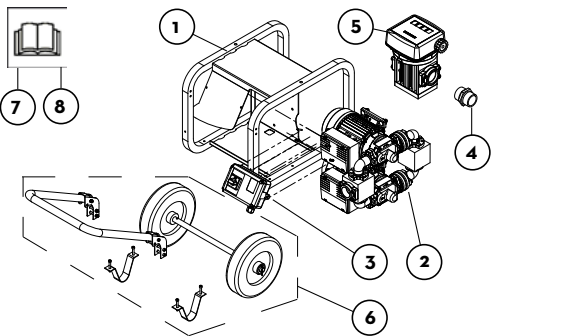


5 PACKAGE CONTENTS/PRE-INSPECTION

FOREWARD
To open the packaging, use a pair of scissors or a cutter. Check that the following components provided as part of the equipment are available:
NOTE
 In the event that one or more of the components described below are missing from inside the package, please contact Piusi inc technical support.
ATTENTION
 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.

5.1 ST200 COMPOSITION

1	FRAME	5	METER K700 (optional)
2	PUMP EI2O (2 PIECES)	6	WHEELS KIT (optional)
3	ELECTRICAL BOX	7	ST200 USE AND MAINTENANCE MANUAL
4	NIPPLE 1" 1/2	8	MANUAL PUMP USE AND MAINTENANCE MANUAL



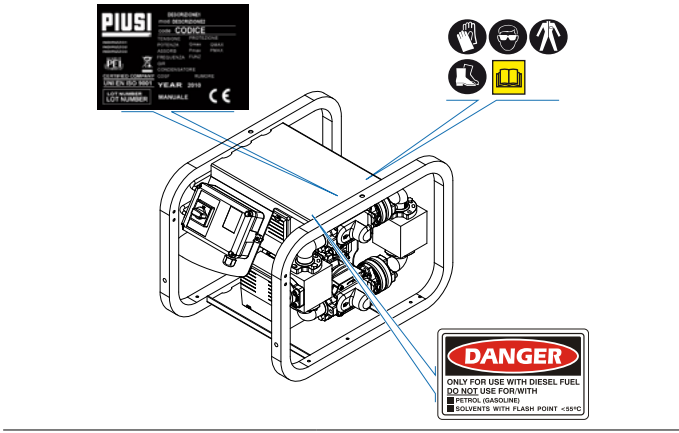
ATTENTION
 THE FOLLOWING ELEMENTS ARE NOT SUPPLIED:
- DELIVERY PIPE
- SUCTION PIPE
- POWER CORD

6 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
Before installing, always make sure the type of dispensing system is correct and suitable for the available power supply (Voltage/Frequency)

7 PLATES POSITION

FOREWARD	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.
NOTA	 Should this situation arise, please contact our support department and arrange to have the damaged or missing plates sent back and replaced where necessary.



8 TECHNICAL SPECIFICATIONS

Model	Electrical power (V)	Frequency (Hz)	Maximum current (A)	Electric Power (W)	Flow Rate (l/min)	Max Pressure (bar)	Revolution per Minute (rpm)	Net weight (kg)
ST 200 230/50	230	50	10	2100	200	2,8	1450	42
ST 200 240/50	240	50	10	2200	200	2,8	1450	42
ST 200 120/60 NPT	120	60	18	2000	200	2,8	1700	42

9 INTENDED USE

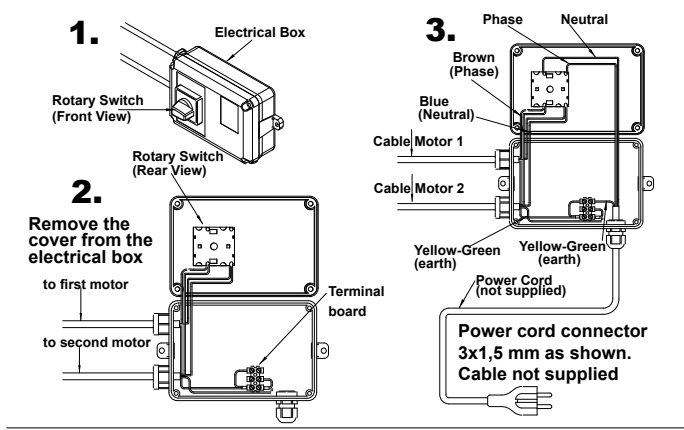
Intended use
The dispensing system "ST200" was designed and built to dispense diesel fuel.
The dispensing system "ST200" should be used by observing the following conditions:
Max. temperature of dispensed product: +35 °C.
Min temperature of dispensed product: -11 °C.
Max. temperature of dispensed product permitted by materials: +40°C.
Equivalent continuous sound pressure level at the workstation: 75 dB(A)
Make sure that the pump operates within its nominal operating parameters.
DIESEL FUEL at a viscosity of from 2 to 5.35 cSt (at a temperature of 37.8°C), Minimum Flash Point (PM): 55°C / 131°F, according to UNI EN 590
The system "ST200" 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 atmosphere. The use in the above mentioned conditions is forbidden.
TEMPERATURE: min. -20° C / max +50° C
RELATIVE HUMIDITY: max. 90%

Conditions of use
Fluid Permitted
WARNING
 Flammable liquids and explosive atmosphere
ATTENTION
 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 pump must be powered by a direct current line, the nominal values of which are indicated on the table in the paragraph "g - electrical specifications".
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.

Electrical power supply	 WARNING																		
ATTENTION	 ATTENTION																		
Products not permitted	<table><tr><td>- Gasoline</td><td>- Fire - explosion</td></tr><tr><td>- Inflammable liquids with pm < 55°C</td><td>- Fire - explosion</td></tr><tr><td>- Liquids with viscosity > 20 cst</td><td>- Motor overload</td></tr><tr><td>- Water</td><td>- Pump oxidation</td></tr><tr><td>- Food liquids</td><td>- Contamination of the same</td></tr><tr><td>- Corrosive chemical products</td><td>- Pump corrosion</td></tr><tr><td></td><td>- injury to persons</td></tr><tr><td>- Solvents</td><td>- Fire - explosion</td></tr><tr><td></td><td>- damage to gasket seals</td></tr></table>	- Gasoline	- Fire - explosion	- Inflammable liquids with pm < 55°C	- Fire - explosion	- Liquids with viscosity > 20 cst	- Motor overload	- Water	- Pump oxidation	- Food liquids	- Contamination of the same	- Corrosive chemical products	- Pump corrosion		- injury to persons	- Solvents	- Fire - explosion		- damage to gasket seals
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- Solvents	- Fire - explosion																		
	- damage to gasket seals																		
WARNING	 It is absolutely forbidden to use the system for purposes different from those specified in section "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).																		

10 INSTALLATION

Foreword
The "ST200" dispensing system is supplied already assembled.
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 pump;
- only use accessories that have been supplied with the system.
WARNING
 **Accessories not permitted**
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.
WARNING
 **As per the current legislation, the "ST200" dispensing system must be installed in premises that are sufficiently well-lit.**
The "ST200" dispensing system has been specifically designed for use in a dry place. If installed outside, an adequate protective covering must be provided.
No delivery and suction pipes are supplied with the system. Install suitable pipes with 1 1/2 GAS connections, as well as the flanges on the pumps
Wiring should be carried out as shown in the following diagram.
Connect the power cord (not supplied with the system) as shown in the following diagram.



11 OPERATION AND USE

Foreword
Directions on how to start and stop operation of the system are given below:
WARNING
 During operation the motor may be hot: be careful.
WARNING
 Do not run the pump dry. This can cause serious damage to its components.
WARNING
 Operation of the pump without dispensing is only admitted for periods of no longer than 3 minutes.
WARNING
 We recommend that the pump remains switched off whenever the system is not in use.

12 MAINTENANCE

Safety instructions
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
Whenever there is risk of frost, empty the circuit and the pump, taking care to place the pump in an environment where the temperature is no lower than 0°C/32°F.
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 that the electrical supply cables are in good condition.
ONCE A WEEK:
ONCE A MONTH:
ATTENTION
 For a correct pump maintenance , see the special use and maintenance documentation

13 TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
THE MOTOR IS NOT TURNING	Lack of electric power	Check the electrical connections and the safety systems.
	Rotor jammed	Check for possible damage or obstruction of the rotating components.
	Motor problems	Contact the Service Department
THE MOTOR TURNS SLOWLY WHEN STARTING	burned fuse	replace the fuse
	Low voltage in the electric power line	Bring the voltage back within the anticipated limits
	Low level in the suction tank	Refill the tank
LOW OR NO FLOW RATE	Foot valve blocked	Clean and/or replace the valve
	Filter clogged	Clean the filter
	Excessive suction pressure	Lower the pump with respect to the level of the tank
	High loss of head in the delivery circuit (working with the by-pass open)	Use shorter tubing or of greater diameter
	By-pass valve blocked	Dismantle the valve, clean and/or replace it
	Air entering the pump or the suction tubing	Check the seals of the connections
	Low rotation speed	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	Raise the tubing
	A narrowing in the suction tubing	Use tubing suitable for working under suction pressure
	Cavitation occurring	Reduce suction pressure
LEAKAGE FROM THE PUMP BODY	Irregular functioning of the by-pass	Dispense fuel until the air is purged from the by-pass system
	Air present in the diesel fuel	Verify the suction connections
	Seal damaged	Check and replace the mechanical seal

ATTENTION
 For a correct pump maintenance , see the special use and maintenance documentation

14 DEMOLITION AND DISPOSAL

Foreword
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 consigned 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/UE (see text of directive below).
European Directive 2012/19/UE 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 specializing in the disposal of industrial waste.

Miscellaneous parts disposal
 **Information regarding the environment for clients residing within the European Union**