1 TABLE OF CONTENTS

2 MACHINE AND MANUFACTURER IDENTIFICATION

AVAILABLE MODELS • PANTHER 56 • PANTHER 72 • PANTHER 90

MANUFACTURER PIUSI S.p.A.
Via Pacinotti 16/A - Z.I. Rangavino - 46029 Suzzara (Mantova) Italy

3 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 : PUMP INTENDED FOR DIESEL FUEL TRANSFER
Model: PANTHER 56; PANTHER 72; PANTHER 90
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

4 MACHINE DESCRIPTION

PUMP Self-Priming, volumetric, rotating electric vane pump, equipped with by-pass valve.

MOTOR Asynchronous motor, single-phase and three-phase, 2 pole, closed type (protection class IP55 in conformance with EN 60034-5-86 regulations) self-ventilated, directly flanged to the pump body.

FILTER Inspectable suction filter.

4.1 HANDLING AND TRANSPORT

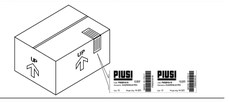
Foreword Due to the limited weight and dimensions of the pumps, special lifting equipment is not required to handle them. The pumps are carefully packed before dispatch. Check the packing when receiving the material and store in a dry place.

STORAGE
- Store in a covered and dry place.
- Store the unit away from dirt and vibration

ENVIRONMENTAL CONDITIONS:
Storage humidity: Max 90%
Storage temperature: min -10 °C
Max +50 °C

PACKAGING The pump is equipped comes packed suitably for shipment.
On the packaging a label shows the following product information:

- name
- code
- weight



MODEL	WEIGHT (Kg)	PACKAGING DIMENSION(mm)
PANTHER 56	7.4	345 x 175 x 255
PANTHER 72	7.9	345 x 175 x 255
PANTHER 90	8.2	345 x 175 x 255

5 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.

Symbols used in the manual 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.

6 SAFETY INSTRUCTIONS

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:

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.
- 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.

ELECTRIC SHOCK
Electrocution or death
- This device 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.
- Ensure ground prongs are intact on power and extension cords. Outdoors, use only extensions suitable for the specific use, in accordance with the regulations in force.
- The connection between plug and socket must remain away from water.
- Never touch the electric plug of socket with wet hands.

EQUIPMENT MISUSE
Misuse can cause death or serious injury
- Do not operate the device when fatigued or under the influence of drugs or alcohol.
- Do not leave the work area while device is energized or under pressure.
- Turn off all device when is not in use.
- Do not alter or modify thr device. 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 device.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.
- Do not exceed the maximum working pressure or the temperature of the part with lower nominal value of the system. See Technical Data in all equipment manuals.

TOXIC FLUID OR FUMES HAZARD
- 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 device 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 device.

Read MSDSs 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.

7 FIRST AID RULES

Electrocution disconnect the unit from the mains, or use a dry insulator as protection while moving the electrocuted person far from any conductor. Do not touch the electrocuted person with bare hands until he/she is far from any conductor. Ask qualified and trained people for help immediately

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

8 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 work Wear the following personal protective equipment during handling and installation:
- safety shoes;
- close-fitting clothing;
- protective gloves;
- safety goggles;

Other equipment instruction manual

Protective gloves DO NOT SMOKE NEAR THE PUMP AND DO NOT USE THE PUMP NEAR FLAMES.

9 TECHNICAL DATA

	PANTHER 56			PANTHER 72			PANTHER 90		
Voltage/ Frequency (V/Hz)	230/50	230/60	120/60	110/50	400/50	400/60	230/50	400/50	230/50
Absorption (A)	3.0	3.9	7.5	5.5	1.3	1.4	4.2	1.6	4.9
Power (W)	350	500	600	500	500	500	500	500	700
RPM	2900	3400	3450	2800	2900	3400	2900	2900	2900
Nominal Flow Rate(l/min)	56	68	56	56	56	68	72	72	90
Max Back Pressure (bar)	1.5	1.5	1.5	1.4	1.5	1.5	1.3	1.3	2
Type of Service (S1-continuous; S3-periodic intermittent)	S1	S1	S1	S1	S1	S1	S1	S1	S3 (30'ON,30' OFF)

ATTENTION
Operating conditions of the declared data
Fluid: Diesel Fuel
Temperature: 20°C
Suction Conditions: The tube and the pump position relative to the fluid level is such that a pressure of 0.3 bar is generated at the nominal flow rate.
Under different suction conditions higher pressure values can be created that reduce the flow rate compared to the same back pressure values. To obtain the best performance, it is very important to reduce loss of suction pressure as much as possible by following these instructions:
• Shorten the suction tube as much as possible
• Avoid useless elbows or throttling in the tubes
• Keep the suction filter clean
• Use a tube with a diameter equal to, or greater than, indicated (see Installation)
The operating pressure of the pump is of 3 bar.

10 OPERATING CONDITIONS

10.1 ENVIRONMENTAL CONDITIONS

TEMPERATURE min. -4 °F / max +140 °F
min. -20 °C / max +60 °C

RELATIVE HUMIDITY max. 90%

LIGHTING The environment must conform to directive 89/654/EEC on work environments. In case of non-EU countries, refer to directive EN ISO 12100-2 § 4.8.6.

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

10.2 ELECTRICAL POWER SUPPLY

NOTE Depending on the model, the pump must be supplied by a single-phase alternating current line whose nominal values are shown in the table in Paragraph "TECHNICAL DATA". The maximum acceptable variations from the electrical parameters are.
Voltage+/- 5% of the nominal value
Frequency+/- 2% of the nominal value

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

10.3 DUTY CYCLE

NOTE The electrical pumps Panther 56 and Panther 72 are designed for continuous use under conditions of maximum back pressure. The electrical pump Panther 90 is designed for alternating use with duty cycle 30" ON and 30" OFF.

ATTENTION **Functioning under by-pass conditions is only allowed for short periods of time (max. 3 minutes).**

10.4 PERMITTED AND NON-PERMITTED FLUIDS

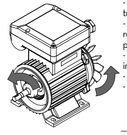
FLUIDS PERMITTED
- DIESEL FUEL at a viscosity of from 2 to 5.35 cSt (at a temperature of 37.8°C), Minimum Flash Point (PM): 55°C, according to UNI EN 590
- Paraffinic HVO/XTL: EN 15940
- ONLY FOR BIO DIESEL VERSIONS F00732BXX (B100):
- BIO DIESEL B100 (FAME) according to UNI EN 14214
- BIO DIESEL B20/B30 according to EN 16709

FLUIDS NON PERMITTED AND RELATED DANGERS
- GASOLINE
- INFLAMMABLE LIQUIDS with PM < 55°C
- LIQUIDS WITH VISCOSITY > 20 cSt
- WATER
- FOOD LIQUIDS
- CORROSIVE CHEMICAL PRODUCTS
- SOLVENTS
- FIRE - EXPLOSION
- FIRE - EXPLOSION
- MOTOR OVERLOAD
- PUMP OXIDATION
- CONTAMINATION OF THE SAME
- PUMP CORROSION - INJURY TO PERSONS
- FIRE - EXPLOSION - DAMAGE TO GASKET SEALS

11 INSTALLATION

ATTENTION **The pump must never be operated before the delivery and suction lines have been connected.**

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.
- Carefully clean the suction and delivery inlets and outlets, removing any dust or other packaging material that may be present.
- Check that the electrical data corresponds to those indicated on the data plate.
- Always install in an illuminated area.
- Make sure that the motor shaft turns freely. .

11.1 POSITIONING, CONFIGURATIONS AND ACCESSORIES

NOTE In the case of installation in the open air, proceed to protect the pump by providing a protection roof.
The pump can be installed in any position (pump axis vertical or horizontal)
The pump must be secured in a stable way using the holes on the bed of the motor and vibration damping devices.

ATTENTION **THE MOTORS ARE NOT OF THE ANTI-EXPLOSIVE-TYPE. Do not install them where inflammable vapours could be present.**

NOTE The broad range of pump accessories make it suitable for many different uses, installations and applications. The supporting base can be positioned in different ways.
The pumps are furnished without line acces-sories. Following is a list of the most common line accessories whose use is compatible with the proper functioning of the pumps.

DELIVERY	SUCTION
- Automatic dispensing nozzle	- Foot valve with filter
- Manual dispensing nozzle	- Rigid and flexible tubing
- MeterFlexible tubing	

ATTENTION **It is the responsibility of the installer to provide the necessary line accessories to ensure the correct and safe operation 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.**

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

11.2 NOTES ON SUCTION AND DELIVERY LINES

DELIVERY

Foreword The choice of pump model must be made keepingthe characteristics of the system in mind.

EFFECTS ON FLOW RATE Length and diameter of pipe, flow rate of dispensed liquid, accessories fitted, can create back pressures above those allowed. In this case, the pump mechanical control (bypass) will trip to reduce the flow rate.

HOW TO REDUCE EFFECTS ON FLOW RATE To avoid these problems, system flow resistances must be reduced using shorter and/or larger diameter pipes, as well as line accessories with low resistances (e.g., automatic nozzle for higher flow rates).

SUCTION

Foreword **The pumps are self-priming and characterized by good suction capacity. During the start-up phase, with an empty suction tube and the pump wetted with fluid, the electric pump unit is capable of suctioning the liquid with a maximum difference in height of 2 meters.**

NOTE **It is important to point out that the priming time can be as long as one minute and the presence of an automatic dispensing nozzle on the delivery line prevents the evacuation of air from the installation, and, therefore, prevents proper priming. For this reason, it is always advisable to prime the pump without an automatic delivery nozzle, verifying the proper wetting of the pump.**

WARNING **The installation of a foot valve is recommended to prevent the emptying of the suction tube and keep the pump wet. In this way, the pump will subsequently always start up immediately.**

CAVITATION **When the system is functioning, the pump can work with pressure at the inlet as high as 0.5 bar, beyond which cavitation phenomena can begin, with a consequent loss of flow rate and increase of system noise and pump damage. .**

HOW TO PREVENT CAVITATION
It is important to ensure low vacuums at suction mouth by using:
- short pipes with larger or identical diameter to that recommended
- reduce bends to the utmost
- use large-section suction filters
- use foot valves with minimum possible resistance
- keep the suction filters clean because, when they become clogged, they increase the resistance of the system.

WARNING **The difference in height between the pump and the fluid level must be kept as small as possible and, at any rate, within the 2 meters anticipated for the priming phase.If this height is exceeded, it will always benecessary to install a foot valve to allow for thefilling of the suction tube and provide tubing ofwider diameter. It is recommended that thepump not be installed at a difference in heightgreater than 3 meters.**

ATTENTION **In the case that the suction tank is higher than the pump, it is advisable to install an anti-siphon valve to prevent accidental diesel fuel leaks. Dimension the installation in order to control the back pressures due to water hammering.**

12 CONNECTIONS

12.1 ELECTRICAL CONNECTIONS

ATTENTION **IT IS THE INSTALLER'S DESPONSIBILITY TO CARRY OUT THE ELECTRICAL CONNECTIONS IN COMPLIANCE WITH THE RELEVANT STANDARDS.**

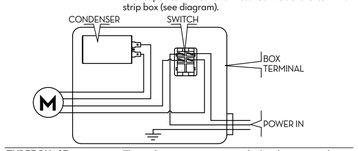
WARNING **Comply with the following (not exhaustive) instructions to ensure a proper electrical connection:**

ATTENTION
- During installation and maintenance make sure that power supply to the electric lines has been turned off.
- Use cables with minimum sections, rated voltages and installation type that are suitable for the characteristics indicated in paragraph "TECHNICAL DATA" and the installation environment.
- Always make sure that the cover of the terminal strip box is closed before switching on the power supply, after having checked the integrity of the seal gaskets that ensure the IP55 protection grade.
- All motors are equipped with a grounding terminal that is to be connected to the ground line of the electrical system.

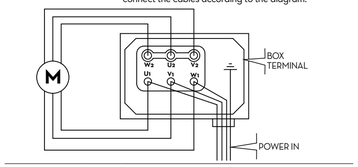
ATTENTION **- Verify that the terminal strip blades are positioned according to the diagram provided for the available power supply voltage.**
- Verify the correct direction of rotation of the motor (see the paragraph overall dimensions), and, if not correct, invert the connection of the two cables in the power supply plug or on the terminal strip.
- The pumps are supplied without electrical safety equipment such as fuses, motor protectors, systems to prevent accidental restarting after power failures or others. It is indispensable to install an electric panel, upstream from the pump's power supply line, equipped with an appropriate residual current operated circuit breaker. It is the installer's responsibility to perform the electrical connections with respect for the applicable regulations.

NOTE The characteristics of the capacitor are shown on the identification plate for each pump model. he switch has the sole function of starting/ stopping the pump and cannot in any way substitute for the main circuit breaker provided for in the applicable regulations.

SINGLE-PHASE MOTORS Single-phase motors are supplied with a pre-existing 2 - meter cable with electric plug. To change the cable, open the terminal strip cover and connect the line according to the following diagram.
Single-phase motors are supplied with a bi-polar switch and capacitor wired and installed inside the terminal strip box (see diagram).



THREE-PHASE MOTORS Three-phase motors are supplied with a terminal strip box and terminal strip. To connect the electric motor to the electric power line, open the terminal strip cover and connect the cables according to the diagram.



12.2 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.

ATTENTION **Wrong connection can cause serious pump damage.**

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.
- Make sure that the motor shaft turns freely.
- Check that the electrical specifications correspond to those shown on the identification plate.

CONNECTING
- Before connection, make sure that the tubing and the suction tank are free of dirt and thread residue that could damage the pump and its accessories.
- Before connecting the delivery tube, partially fill the pump body with diesel fuel to facilitate priming.
- Do not use conical threaded joints that could damage the threaded pump openings if excessively tightened.

SUCTION TUBING
- Minimum recommended nominal diameter: 1"1/4
- Nominal recommended pressure: 10 bar
- Use tubing suitable for functioning under suction pressure.
- Use tubing suitable to resist back pressures of 0.8 bar

DELIVERY TUBING
- Minimum recommended nominal diameter: 1"
- Nominal recommended pressure: 10 bar

ATTENTION **It is the installer's responsibility to use tubing with adequate characteristics.**
The use of tubing unsuitable for use with Diesel fuel can damage the pump, injure persons and cause pollution. Loosening of the connections (threaded connections, flanging, gasket seals) can cause serious ecological and safety problems.
Check all the connections after the initial installation and on a daily basis after that. Tighten the connections, if necessary.

13 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.

ATTENTION **Do not run the pump dry for more than 20 minutes. This can cause serious damage to its components.**

NOTE **Fluid leaks can damage objects and injure persons.**
- Never start or stop the pump by connecting or cutting out the power supply
- Single-phase motors are provided with an automatic thermal protection switch.

ATTENTION **Extreme operating conditions can raise the motor temperature and, consequently, cause the thermal protection switch to stop it. Turn off the pump and wait for it to cool before resuming use. The thermal protection automatically turns off when the motor is sufficiently cool.**

ATTENTION **During the priming phase, the pump must discharge all the air that is initially present from the delivery line. Therefore it is necessary to keep the outlet open to permit the evacuation of the air.**

WARNING **If an automatic type dispensing nozzle is installed on the end of the delivery line, the evacuation of the air will be difficult because of the automatic stopping device that keeps the valve closed. It is recommended that the automatic nozzle be temporarily removed during initial start-up.**

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 the suction height is not higher than 2 mt.
- 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 suction pressure is not greater than 0.5 bar;
- that the delivery back pressure does not exceed the maximum back pressure for the pump.

14 EVERY DAY USE

USE PROCEDURE
1. If using flexible tubing, attach the ends of the tubing to the tanks. In the absence of an appropriate slot, solidly grasp the delivery tube 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 to ON. The by-pass valve allows functioning with the delivery closed for only brief periods.
4. Open the delivery valve, solidly grasping the end of the tubing.
5. Close the delivery valve to stop dispensing.
6. When dispensing is finished, turn off thepump.

ATTENTION **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.
Functioning with the delivery closed is only allowed for brief periods (2-3 minutes maximum). After use, make sure the pump is turned off.

LACK OF ELECTRIC POWER **A lack of electric power, with the consequent accidental stopping of the pump, can be caused by:**
- A safety device tripping
- A drop in line voltage
In either case, act as follows:
1. **Close the delivery valve**
2. **Attach the end of the delivery to the slot provided on the tank**
3. **Turn the ON/OFF switch to the OFF position. Resume operations as described in Paragraph L - DAILY USE, after determining the cause of the stoppage.**

15 MAINTENANCE

Safety instructions Panther 56, Panther 72 and Panther 90 pumps are designed and constructed to require a minimum 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 pump

Authorised 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 being voided.

ONCE A WEEK:
- Check that the pipe connections are not loose to prevent any leaks;
- Check and keep the filter installed on the suction line clean.

ONCE A MONTH:
- Check the pump body and keep it clean and free of any impurities;
- Check and keep the pump filter clean and any other filters installed.
- Check that the electrical supply cables are in good condition.

16 NOISE LEVEL

In normal operating conditions, noise emissions of all models do not exceed 75 dBA at a distance of 1 metre from the electric pump.

17 PROBLEMS AND SOLUTIONS

For any problems contact the authorised dealer nearest to you.

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.
	The motor protecting thermalswitch has tripped	Wait for the motor to cool, verify that it restarts, and research the cause of the overheating
	Motor problems	Contact the Service Department
THE MOTOR TURNS SLOWLY WHEN STARTING	Low voltage in the electric powerline	Bring the voltage back within the anticipated limits
LOW OR NO FLOW RATE	Low level in the suction tank	Refill the tank
	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 or increase the cross-section of the tubing
	High loss of head in the circuit(working with the by-pass open)	Use shorter tubing or of greaterdiameter
	By-pass valve blocked	Dismantle the valve, clean and/or replace it
	Air entering the pump or thesuction tubing	Check the seals of the connections
	A narrowing in the suction tubing	Use tubing suitable for workingunder suction pressure
	Low rotation speed	Check the voltage at the pump. Adjust the voltage and/or use atlessof greater cross-section
	The suction tubing is resting on the bottom of the tank	Raise the tubing
INCREASED PUMP NOISE	Cavitation occurring	Reduce suction pressure
	Irregular functioning of the by-pass	Dispense until the air is purged from the circuit
	Air present in the diesel fuel	Verify the suction connections
LEAKAGE FROM THE PUMP BODY	Seal damaged	Check and replace the mechanical seal
THE PUMP DOES NOT PRIME THE LIQUID	Suction circuit blocked	Remove the blockage from the suction circuit
	Malfunction of foot valve fitted on suction circuit	Replace foot valve
	The suction chambers are dry	Add liquid from pump delivery side
	The pump chambers are dirty or blocked	Remove the blockages from the suction and delivery valves

18 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.

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

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

Disposal of electric and electronic components 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.

Information regarding the environment for clients residing within the European Union 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.

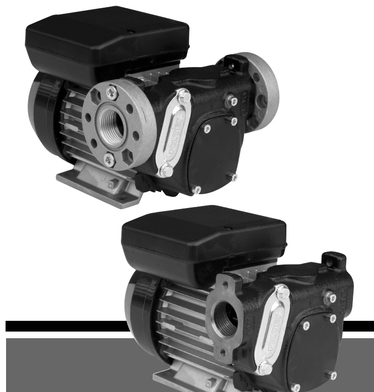
Miscellaneous parts disposal Other components, such as pipes, rubber gaskets, plastic parts and wires, must be disposed of by companies specialising in the disposal of industrial waste.

19 EXPLODED VIEWS

20 OVERALL DIMENSIONS

PIUSI Fluid Handling Innovation

PANTHER 56-72-90 AC



MADE IN ITALY

Manuale di Installazione uso e manutenzione IT

Installaltion, use and maintenance manual EN

BULLETIN M0042 E ITEN _00 12.2021

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