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LPG AUTOGAS REFUELLING STATION FOR VEHICLES

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DESCRIPTION OF PICTOGRAMS

In the manual the following symbols are employed to highlight particularly important instructions and warnings:



ATTENTION

This symbol indicates accident-prevention rules for the operator and/or for any exposed persons.



WARNINGS:

This symbol indicates that there is the possibility of causing damage to the product and/or to its components



NOTE :


This symbol marks useful information.

1. WARNINGS

Do not install and operate the LPG Autogas refuelling station for vehicles without having read these instructions beforehand

To guarantee the safety of the operator, to avoid potential damage to the product before carrying out whatsoever operation on the plant it is fundamental to have carefully read the complete instructions manual.

This manual must be complete and readable in all its parts, all operators who use the plant, or the person responsible for maintenance or regulation operations, must know where it is and must be able to consult it in any moment.

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The legislation in force concerning accident-prevention safety standards and the standards for installation and use of the plant must always be respected.

Use the plant within the pressure and temperature limits stated on the data plate of the Manufacturer PEGORARO Gas Technologies Srl and on the Declaration of Conformity which must be accurately kept.

PEGORARO Gas Technologies Srl declines all responsibility for any damage to things or persons in the event of:

- Handling, installation, commissioning, vehicle refuelling, maintenance of the individual appliances and demolition by non-qualified personnel;
- improper use of the plant;
- modifications, welding or damage;
- failure to comply with the current applicable safety standards and health and safety laws and regulations.
- operation at temperature and pressure higher than those specified in the rating plate;
- installation errors;
- lack of proper maintenance;
- failure to comply with the content of this user manual.

2. HANDLING

Handling and transport operations must be carried out by qualified personnel. Avoid damaging the plant during transport and handling operations.

- The plant is supplied complete with its support base, a fork-lift truck with a lifting capacity suitable for the weight to be lifted must be employed, using the slots provided on the support base itself;
- If the plant is not fitted with the above-mentioned support base, it must be slung by means of cables or ropes with a lifting capacity suitable for the weight to be lifted, that will have to be fitted in the provided points, according to the structural shape of the plant that is being installed. The lifting points are indicated by warning plates.




ATTENTION

It is good practice to use lifting equipment with sufficient lifting capacity to hold the weight of the plant increased by about 20%.



WARNING

The plant is supplied painted or galvanised. However, accidental knocks during installation could cause loss of efficiency of the paint or zinc coating, triggering a slow process of oxidation (rust), so it is recommended to restore the original protection with paint or cold zinc coating.

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3. INSTALLATION

- Do not subject the plant to static or dynamic loads or to bending movements.
- The installation area must be kept free of flammable liquids and other flammable materials.
- The installation must be carried out by suitable personnel.
- The plant is delivered to the buyer after having carried out the inspection and seal tests: however, some connections could work loose during transport and handling, so it is necessary to:
 - Check the mechanical connection between the individual parts both of the skid and of the pipes
 - Carry out a pressure test with air and check any leaks with a special revealing medium (foam) on both the flanges and the couplings.
- Carry out the earth connection of the structure connecting the terminal provided on the skid upright
- Open the electric panel installed in a "Safe Zone".
- Connect the air pipe (included in the supply) between the compressor and the control solenoid valve fitted on the IP 55 electric panel, using the special quick couplings provided. (indicated by AIR ON)
- Connect the air pipe (included in the supply) between the solenoid valve, fitted on the electric panel (indicated by AIR OUT) to the pneumatic valve, using the special quick coupling provided. *Attention: the valve is single-acting and must be connected for "normally closed" operation;*
- Connect the electric power supply cable to the panel, passing the cable through the cable clamp provided.
- Connect the electric power supply cable from the electric panel to the motor, passing the cable through the special cable clamps (advised cable for a distance of 10 – 15 metres - **type FG7OR0,6/1KV 4G2,5**, which is supplied upon request)
- Connect the electric power supply cable from the electric panel to the dispenser, passing the cable through the special cable clamps (advised cable for a distance of 10 – 15 metres - **type FG7OR0,6/1KV 7G1,5**, which is supplied upon request).
- The electric pump motor is fitted with an Ex-d approved cable clamp.
- Close the door of the electric panel with the key provided and put it in a safe place.
- With the key provided open the front panel of the display and press buttons "+" and "-" to set or modify the LPG sales price
- Close the panel with the key and put it in a safe place.




Both the electric control panel and connections respect the current EC rules and regulations; any tampering or incorrect connections cause the invalidity of the guarantee.

For details concerning the plant assembly and connection operations, refer to the respective instructions, use and maintenance manuals of the individual appliances that form the plant.

4. COMMISSIONING

- For the fuel tank assembly follow the instructions in the supplier's manual attached to this instructions manual
- For the pump assembly follow the instructions in the supplier's manual attached to this instructions

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manual

- For the dispenser assembly follow the instructions in the supplier's manual attached to this instructions manual



ATTENTION

During the commissioning phase, absolutely avoid smoking and using naked flames, explosion hazard.


Before commissioning the plant, ensure that the stop valves are closed. Failure to observe this condition can cause severe damage to the plant.

PEGORARO GAS TECHNOLOGIES S.r.l. declines all responsibility for any damage to property or persons caused by failure to observe these instructions.

The plant is generally operated all year round, it is "out of service" only during maintenance.

5. INSTRUCTIONS FOR CORRECT REFUELLING

- Remove the protection cap from the vehicle's LPG inlet
- Remove the gun from the dispenser
- Connect the gun to the vehicle's LPG inlet
- Lower the dispenser's lever (after a few seconds the pump is activated)
- For the correct use of the dispenser device ensure the seal between the vehicle's tank inlet and the dispenser gun is gas-tight and at all costs avoid releasing gas into the surrounding environment
- Wait until refuelling has been completed
- Raise the dispenser's lever (the pump stops)
- Disconnect the gun from the vehicle's LPG inlet
- Replace the gun in the housing on the dispenser
- Replace the protection cap on the vehicle's LPG inlet
- **In case of any plant malfunctions:**
 - **Press the red button** on the electric panel.
 - First disconnect the electric power supply with the main switch
 - Read the attached instructions manual carefully
 - After having found and repaired the cause of the malfunction switch the electric panel on again by activating the main switch.
- The pneumatic valve is of the Normally Closed type and it is SINGLE ACTING
- **The circuit has been designed and manufactured to guarantee maximum safety and the valve automatically cuts off the gas:**
 - After pressing the red button
 - If the electric power supply is interrupted
 - If the electric connection cables have been tampered with or disconnected

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- **When closing down the plant in the evening or at closing hours we advise to:**
 - Press the red button (the gas valve closes)
 - Switch off the panel power supply with the main switch
 - Block the gun in its housing on the dispenser by means of the bracket provided and lock it with a padlock



ATTENTION

During refuelling, absolutely avoid smoking or using naked flames: risk of explosion. Failure to observe this condition can cause severe damage to persons and to the plant.

6. MAINTENANCE

- Before carrying out any maintenance work it is important that:
 - there are no vehicles connected to the dispenser,
 - the plant is closed down,
 - the electric panel power supply is switched off
- The maintenance work depends on the quality of the gas that is dispensed and on the total operating hours.
- Consequently it is advisable to carry out preventive maintenance with intervals that, if not set by specific regulations, are based on:
 - the quality of the dispensed gas;
 - the total operating hours
- Before starting to dismantle the appliances it is advisable to ensure you have suitable range of spare parts. The spare parts must be original.

N.B. The use of non original spare parts relieves us of all liability.



ATTENTION

During maintenance, absolutely avoid smoking or using naked flames: risk of explosion.

Have the appliance and connections checked by expert, qualified personnel.

NEVER try to repair or restart the appliance on your own.

For details concerning the regulation and maintenance operations, refer to the respective manuals of the appliances that form the plant, which are supplied attached to this document.

7. DEMOLITION

At the end of its working life, refer to the applicable regulations of the country where the appliance is installed.