

DAYGAS

Heating Systems

LODOS GAS UNIT HEATERS TECHNICAL DOCUMENTATION



Lodos Gas Unit Heater Series

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Daygas Lodos gas unit heater use the heat energy obtained from NG or LPG, thanks to the fan on them. They are devices that provide heating by blowing hot air directly or through air ducts to the environment to be heated. Daygas Lodos hot air generator devices provide high efficiency and low energy consumption thanks to the specially designed boiler structure. Custom design it is the product with the lowest operating noise with its boiler and body structure. Noise levels are measured from 6 meters away. It works quieter than its counterparts.

Features of Lodos Gas Unit Heater

- » Possibility to operate in 5 stages with remote control or with thermostat
- » Display of step and fault notification on the display screen
- » Increased efficiency thanks to the specially designed boiler structure
- » High level of security
- » Safe gas valve system
- » Short start up
- » Low energy consumption
- » Low emission rate
- » Quiet operation
- » Cool down mode

It has a specially designed heat exchanger structure, increased surface area in heat transfers, powerful and silent axial fan, unlimited color options with its stylish design, fan rotation speed modulation according to the level setting and a specially designed card that provides fuel saving.

Lodos breeze in winter cold,
cooling pleasure in hot weather..

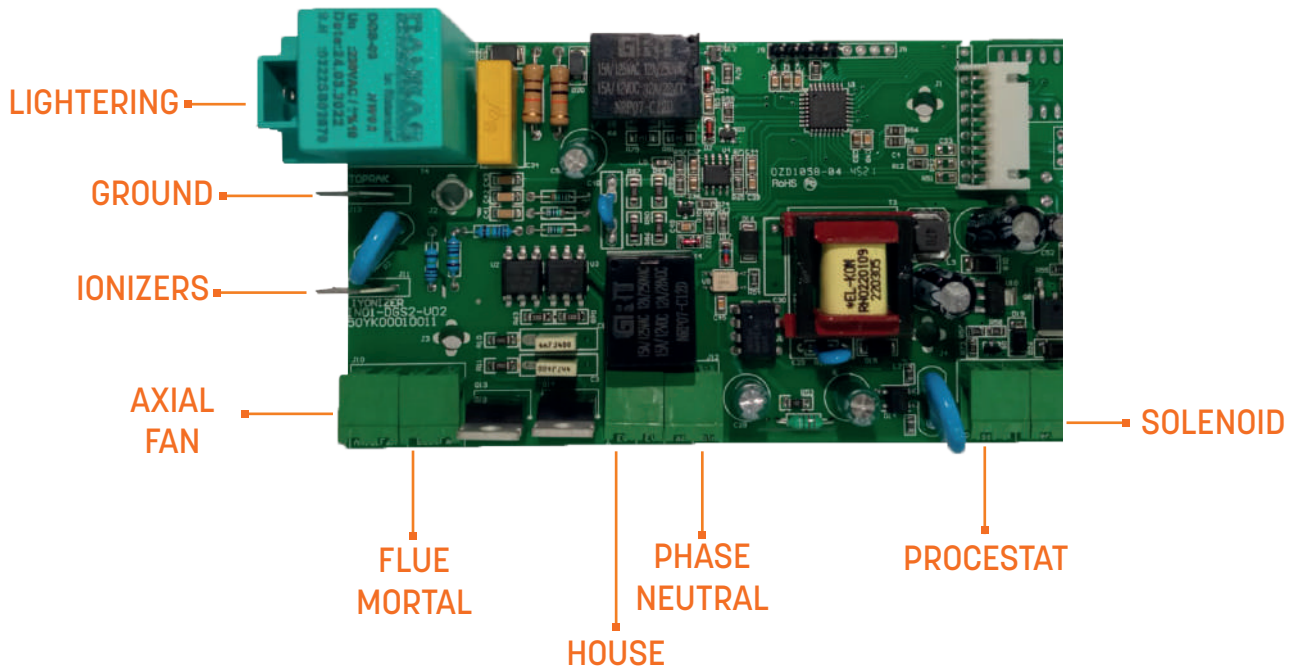
- » All metal parts are high temperature resistant, long durable aluminum - silicon alloy.
- » Table sets used in the device are high temperature resistant non-combustible silicone cable.



Lodos Design Product Hardware

Custom Daygas Motherboard

Lodos motherboards are engineering designs with their own software, operation and quality, as in other Daygas products. This card works on homogeneous heat distribution and maximum efficiency in the environment where Lodos devices are located.



Main; Confirming the error as a result of receiving error alarms for the capacity and fan speed ratio as a result of comparing the ambient air temperature (suction port temperature) with the set temperature, first-start and last-operation scenarios (ignition time, device cooling after the shutdown command, etc.) to protect the life of the device. and it manages important processes such as reflecting the unsolvable error result to the led display panel.

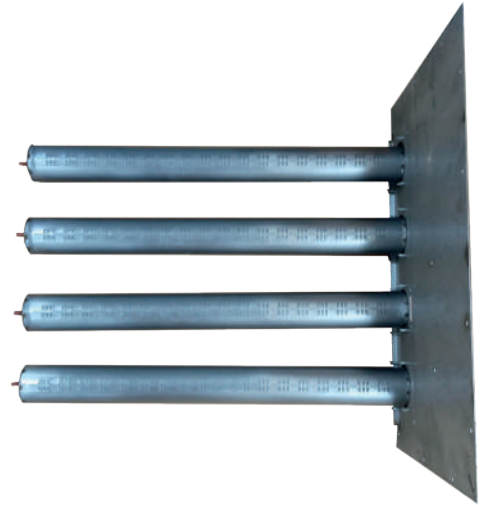


Lodos Design Product Hardware

Heat Exchanger

Lodos series heat exchangers are made of high temperature and resistant stainless steel sheet for full capacity and uninterrupted service.

With the specially designed thousands of fins on the heat exchanger, the air passing through the unit volume is more in contact with the hot surface area and the blowing temperature up to 120°C is obtained in front of the device.



Axial Fan

The axial fan located behind the lodos is used to condition the air (heating the circulated air in the environment through the heat exchanger cavity).

Importance of Ideal Fan Selection: Gas unit heater are located at the farthest corners of their environment. The reason for this is to turn the ambient air completely, the chimney outlets are not power and we can count the space gain. Hot air generators at the extreme points are expected to shoot up to the furthest point at the desired blowing outlet temperature. At this stage, blade selection and power should be selected to provide maximum benefit.



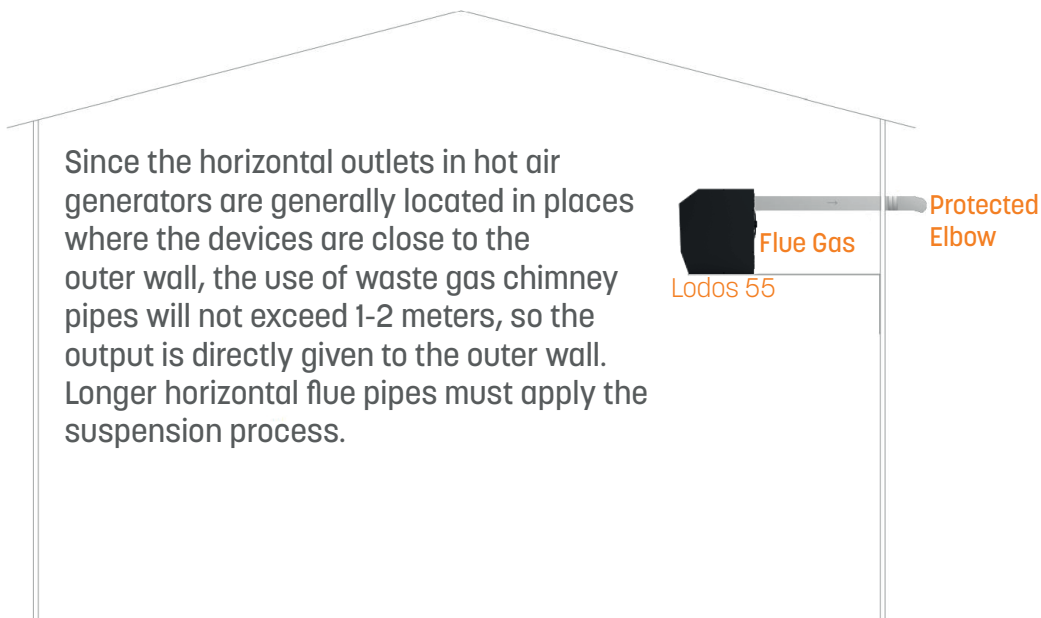
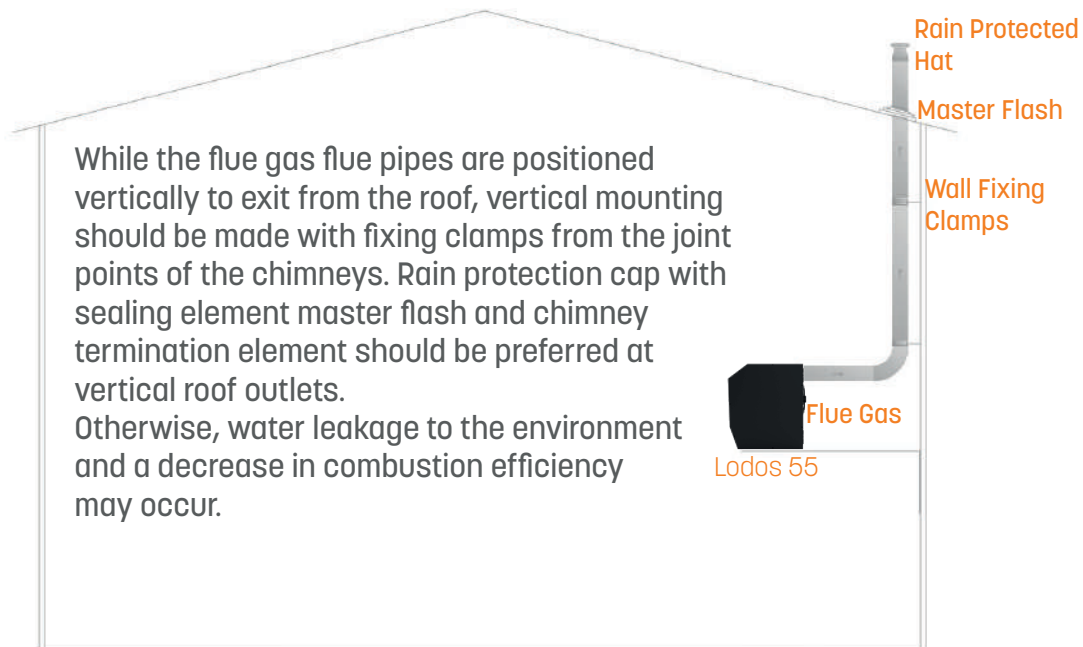
The sound factor should also be considered in the selection of the optimal fan. Lodos fans are in the range of 42-48 d-BA, depending on the sound capacity of the device.

Lodos axial fans are designed to shoot at the right point at the right outlet temperature.



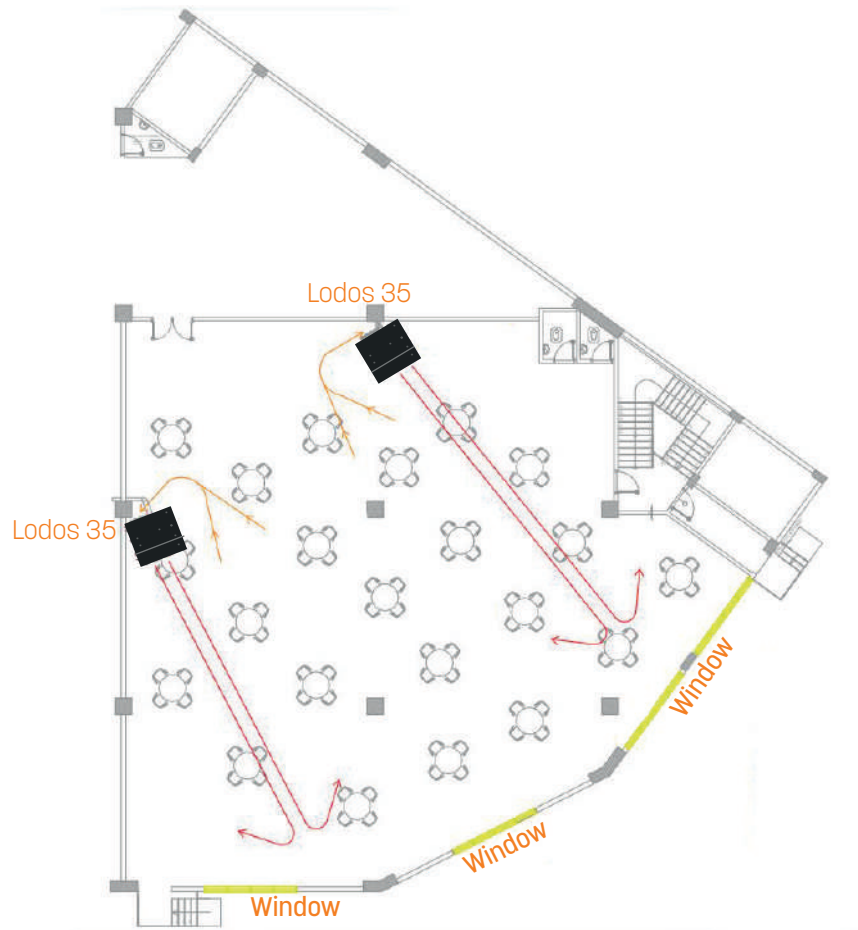
Exhaust Flue Set Accessories

Hot air generators positioning is as important as device capacity selection. Since the heating takes place conventionally here, the ambient air circulation and the intensity of the hot air blowing to the coldest parts of the space are directed to these cold regions, thereby providing homogeneous comfort conditions.



Lodos Positioning Design

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If we examine the example of the cafeteria next door, the coldest part of the place is the glass facade. Therefore, we should direct the hot air density towards these cold regions. Lodoslar, which has been positioned in the project, starts to heat from the glass area and fills backwards. In this way, it allows us to distribute the heat homogeneously and to achieve the comfort conditions in the most appropriate way.

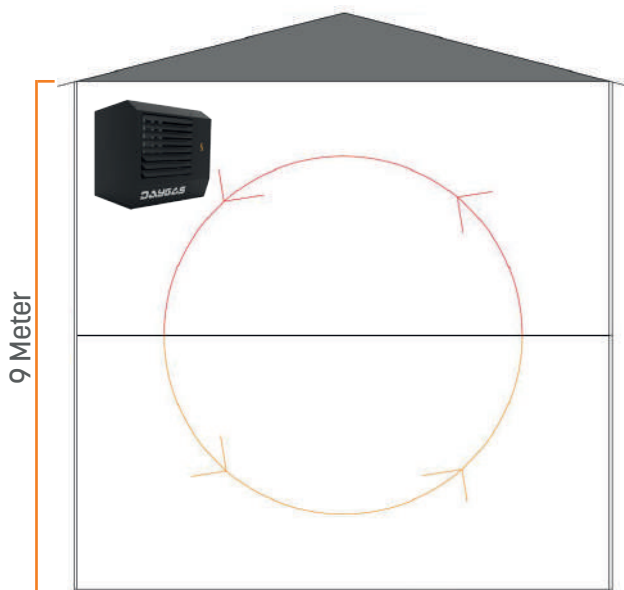


Lodos Positioning Design

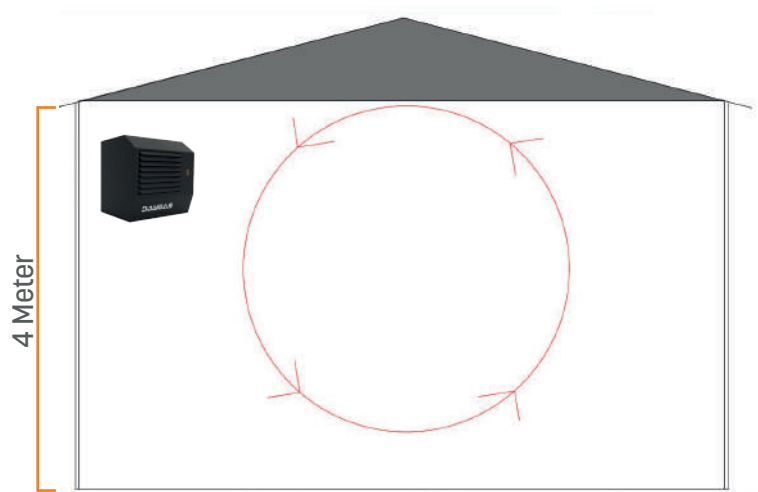


In the example above, a 3rd device is positioned to feed 2 Lodos devices that are back to back to each other. This 3rd device is important for the environment to have a faster or homogeneous heat distribution by strengthening the ambient air circulation.

Hot air generators positioning is as important as device capacity selection. Since the heating takes place conventionally here, the ambient air circulation and the hot air pressure to the coldest parts of the space are directed to these cold regions, thereby providing homogeneous comfort conditions.



In high ceiling spaces where the ceiling height is not suitable for the hot air generator, the desired heating cannot be achieved because the air mass is in the upper part as a result of the circulation caused by the rising of the heated air, and the temperature of the lower part is colder than the upper part, at human-sized levels.



Warm air mass can circulate in the whole space in places with a ceiling height of 4-5 meters, which are suitable for a hot air generator.



Radial Fan Gas Unit Heater

In duct type air heating applications, ambient air heating and ventilation are performed through the blowing nozzles.

Lodos can change the fan structure of gas unit heater to a radial fan and feed the duct, and it undertakes the task of efficient heating in winter conditions and ventilation in summer months when it is not very hot.



The design is made by selecting the capacity as a result of some engineering calculations such as the radial fan, the volume of the air duct to be conditioned, and the blowing nozzle.

Flammable, explosive and flammable etc. We offer safe and comfortable heating service with radial fan hot air generators in the facilities where the materials are located.



Electrical and Signal Cables Connection Details

- » In Lodos devices, as in other product groups, 1.5 m F type cable set for electrical connection is included in the box for each device.
- » There is a 2A glass fuse at the device electrical connection point (in the C14 socket part) to protect the device board. Therefore, the cards of the devices are protected against sudden electrical voltages on the power line.



Lodos Sıcak Hava Üretici;

Electrical Connection: 230 V / 50 Hz

Electrical Working Power: ≤ 300 VA





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