

Livestock heating

Indirect gas fired heater
KAFH 75



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The ideal heating solution for optimal poultry farming while improving enviromental conditions

What is indirect combustion?

The combustion of propane or natural gas in hot air generators produces the release of CO₂ in conjunction with other components, such as nitrous oxides, that are harmful to health. In order to provide a healthy indoor environment, it is necessary to remove these elements through ventilation.

The main drawback of this method is the heat loss that occurs in the process.

For heating in poultry farms, the use of open combustion generators requires the exchange of air with the outside to allow evacuation of CO₂.

Conversely, if generators have sealed (or indirect) combustion, burnt gas is ejected outside and the only CO₂ to be eliminated would be that generated by the animals.

A sealed or indirect combustion generator allows for energy savings and, therefore, economic savings and improved environmental conditions of the building

Features of KAFH generators

KAFH generators are devices for generating heat with sealed combustion, without an intermediate carrier fluid, where the products of combustion are evacuated out of the room by an extractor. The combustion air is also taken from the outside.

For such purpose, the units are connected to the extraction kit, with a roof or sidewall outlet.

KAFH generators can run on different types of gas, as indicated on the nameplate of the equipment, in accordance with European directives.

Available in 76 kW

Main components

In general, KAFH generators are composed of:

- A burner with electronic ignition and flame control by ionization sensor
- An aluminized steel heat exchanger
- A control box for selecting the operating mode (heating or ventilation), with the possibility of being controlled by existing control signals on poultry farms (on-off).
- Safety devices for minimum starting temperature of air supply and excess temperature at the burner
- Resets for lack of gas and power supply
- One or two temperature-driven blowers
- A gas solenoid adjusted for optimum performance

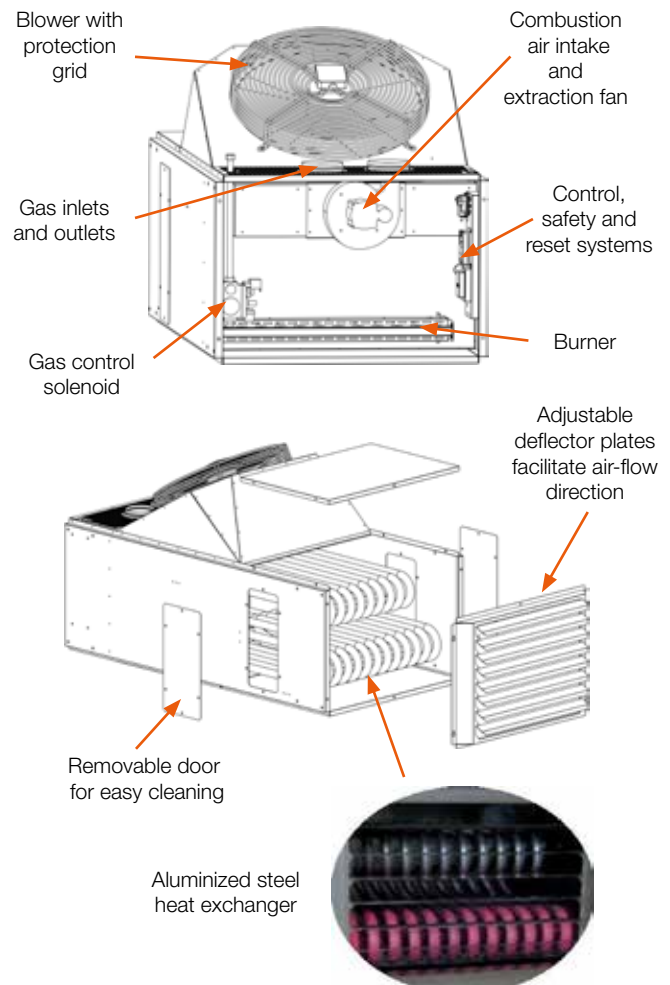
Working principle

When heat is required in the building, the burner is turned on automatically by its ignition system via an electrode. Then, after reaching the flow temperature, the fan starts up, blowing hot air into the room.

When the set temperature is reached, the burner turns off.

Advantages of KAFH generators:

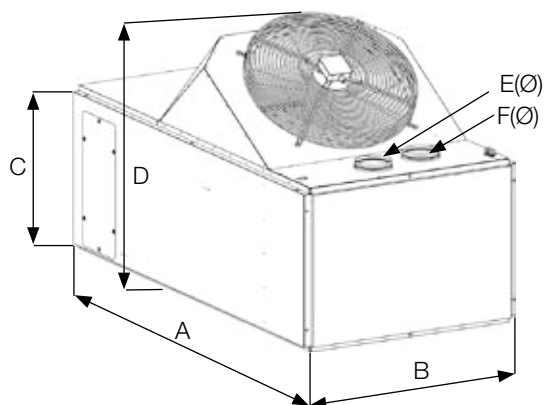
- Reducing CO₂ emissions and humidity in the environment, allowing a better quality of life for the animals
- High quality, durability and comfortable heat
- Possibility of being controlled by existing controls in poultry houses
- Easy access to both the burner and the exchanger for performing maintenance tasks
- Quickly reaching desired settings
- Up to 25% savings in energy consumption



KAFH 75

For medium and large poultry installations
Power outputs that meet the needs of the premises

Technical features		KAFH 75
Calorific capacity output (kW)		76
Useful capacity (kW)		70
Efficiency (%)		92
Fan (mm)		600
Rotation speed (rpm)		1.350
Air flow at 15°C (m³/h)		6.600
Throw (m)		35
Gas flow at 15° C	Propane (kg/h)	5,93
	Natural Gas (m³/h)	8,04
Working pressure (mbar)	Propane	37
	Natural Gas	20
Supply voltage		230 Vac / 50-60 Hz - I P54
Electric power		760 W / 3,4 A
Weight (kg)		200



Dimensions	KAFH 75
A (mm)	1.791
B (mm)	892
C (mm)	617
D (mm)	1.026
E (mm)	130
F (mm)	130

Concentric flue kit connections

The connection for combustion air intake and smoke exhaust is made horizontally or vertically towards the outside of the room. There are two types: wall and roof.

Wall type

It consist of two elbows at 90°, two single extensions and one concentric wall terminal



Roof type

It consist of two single extensions and one concentric roof terminal





Experts in livestock heating.

Kromschroeder, S.A. has emerged as a leading company in manufacturing and selling of products and system, as well as in rendering services to the different fields of distribution and efficient use of energy.

With a highly qualified team and a wide range of products and innovative systems for the development of energy efficiency, Kromschroeder, SA grants full satisfaction to the most demanding needs and expectations of customers.

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