

Livestock heating

Infrared gas brooders KROMS 12 EI
Electronic ignition and
flame ionization control



KROMS 12 EI electronic ignition infrared gas brooders

Higher safety and efficiency for an automated heating solution

Technical developments added to regular features

KROMSCHROEDER SA has developed a new version of infrared gas brooder with electronic ignition suitable for any kind of livestock farming.

Added to the advantages associated with the KROMS brooders in their Progressive and Pilot versions, such as the anodized aluminium canopy with high reflectivity of emitted radiation, high-temperature resistant stainless steel conical radiating surfaces, burner specially designed to produce ideal combustion, easy installation and maintenance and the possibility of component replacement, are the automatic ignition feature and flame ionization control system.

In this way, it is no longer necessary to manually turn on each device, with the added advantage of flame control reliability.

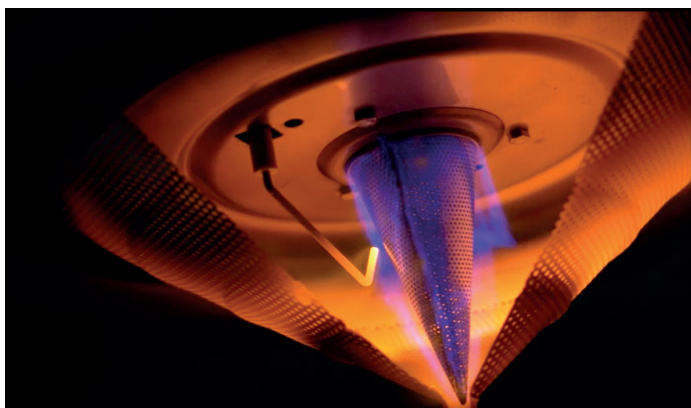
Component parts

The KROMS EI brooder is equipped with an easily accessible external electric switch, a solenoid valve sized to unit consumption, an electronic ignition system and flame control via an electronic card and a single electrode.

The electronic components are protected by a highly corrosion resistant casing, all assembled on a metallic fastening plate that provides the robustness required for long service life.

The inclusion of the foam filter minimizes the risk of poor combustion due to dust in the poultry building environments.

Available in a power of 12 kW with supply voltages of 115 VAC with Type B plug and 230 VAC with Type F plug, both dual-frequency (50/60 Hz).



Optionally, the KROMS EI brooder is supplied with an alarm signal light.

Operating principle

When necessary to increase the temperature inside the poultry building, and after receiving the control signal that determines such action, the brooder starts the ignition sequence.

The solenoid valve is opened and the spark command sent to the electrode for ignition. Once the set time has elapsed, and, in the absence of a flame, the control will close the solenoid valve and, after waiting the set safety time, will retry ignition of the equipment several times.

If ignition is not successful, the brooder will enter in safe mode until the unit is checked and manually reset (if no fault), starting the automatic ignition cycle again.

The devices can be controlled by using a system which acts in conjunction with an electrical signal from the brooder power supply.

Advantages of KROMS EI brooders

- High energy efficiency
- Reduced CO₂ emissions
- Quick ignition and safe flame monitoring
- High quality, durability and comfortable heat
- Quick start-up and return on investment
- Ability to provide various comfort zones
- Ability to warn of failure

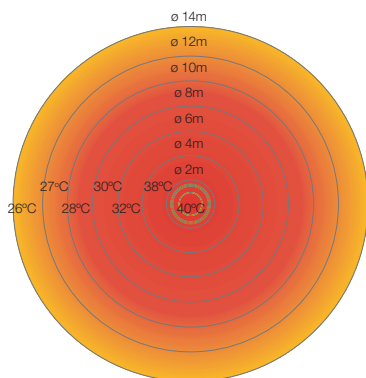
Main components of the brooder



Technical Features	KROMS 12 EI BP	KROMS 12 EI HP
Capacity (kW)	12,00	12,00
Consumption LPG (g/h)	822	861
Consumption Butane (g/h)	847	-
Consumption Natural Gas (m3/h)	1,23	-
Working gas pressure (mbar)	300	1400
Working gas pressure (psi)	5	20,30
Coverage in number of animals (Reference values)	2900 to 3500 broilers/1150 turkeys	2900 to 3500 broilers/1150 turkeys
Power supply	115 Vac 50/60 Hz - 230 Vac 50/60 Hz - 50 watts (maximum load)	
Flame control	Ionization	
Weight (kg)	7,20	

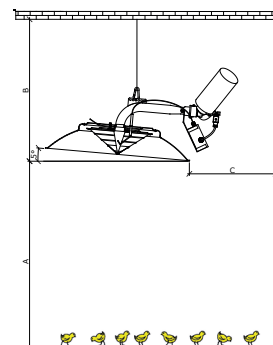
Average temperatures obtained under ideal conditions, with a air temperature close to 22 °C

This information may vary slightly according to the degree of insulation of the building and the total number of brooders running at any one time.



Detail of hanging position brooder

Minimum distances recommended	KROMS 12 EI
A (m)	1,70 - 2,20
B (m)	0,75
C (m)	0,40





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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