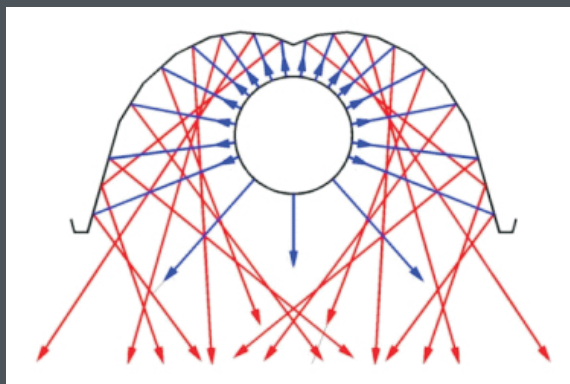


LTSA Gas Infrared Tube Radiant Heaters for Breeding and Greenhouse

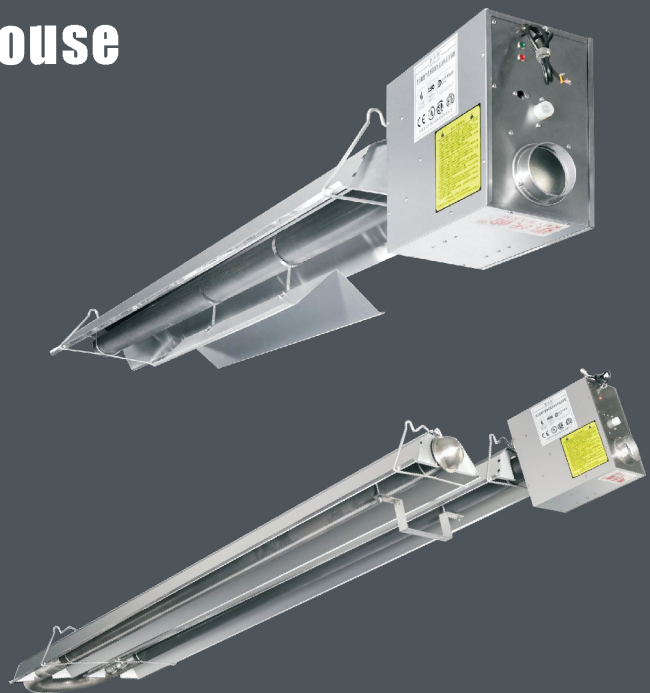
HOW IT WORKS

The combustion air and gas mix and burn, producing a long-lasting flame and flue gas within the radiant tube. The radiant tube and reflector radiate most of the thermal energy in the form of infrared rays to the ground.



Features

- Natural gas or propane
- 20/35/50 kW
- Radiant tube length: 12/15/18m
- For low-ceiling spaces, equipped with bottom shield reflector
- Fully enclosed stainless steel burner
- Heat-treated aluminized steel radiant tube
- 100% reflector
- Potted DSI ignition controller
- Combination gas valve, 100% secure shut-off



Advantages/Benefits

- Compared to traditional warm air systems, it saves around 25% in gas consumption.
- Particularly effective in poorly insulated and high-ceiling spaces.
- Instantaneous heating.
- Low temperature difference between the top and bottom.
- Flooring/litter remains relatively dry.
- Quiet operation with no dust emission.
- Combustion of outdoor fresh air, and flue gas can be discharged externally, reducing the need for extra ventilation.

Applications

- Piggens
- Free-range chicken houses for broiler and breeder
- Greenhouses



Pig House Case

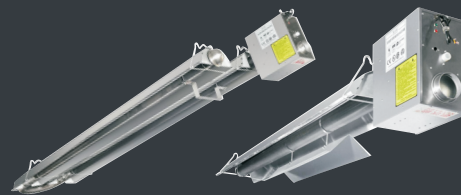


Poultry House Case



Greenhouse Case

LTSA Gas Infrared Tube Radiant Heaters for Breeding and Greenhouse



Technical Parameter

Model	Rated Heat Load (kW)	Fuel Consumption		Radiant Tube Length (m)	Radiant Tube Diameter/ Wall Thickness (mm)	Power Supply	Weight (kg)	Gas Inlet
		Natural gas m ³ /h	Propane kg/h					
LTSA20	20	1.93	1.6	9-12	101.6/1.5	220V 50Hz 1A	73-91	1/2" NPT
LTSA35	35	3.38	2.74	12-15			91-109	
LTSA50	50	4.83	4.0	15-18			109-127	

1. Natural gas has a calorific value of 8,900 kcal/m³, while propane has a calorific value of 11,000 kcal/kg. The supply pressure is 2 kPa for natural gas and 2.8 kPa for propane.

2. LTSA20 and LTSA35 are typically used in pig houses or chicken houses, while LTSA50 is used in greenhouse structures.

Installation and Usage Precautions:

It is essential to adhere to the minimum clearance from combustible materials (such as water lines and feed lines) as specified in the manufacturer's "Installation and Usage Manual."

Refer to the manufacturer's recommended minimum installation height for achieving a comfortable sendible temperature.

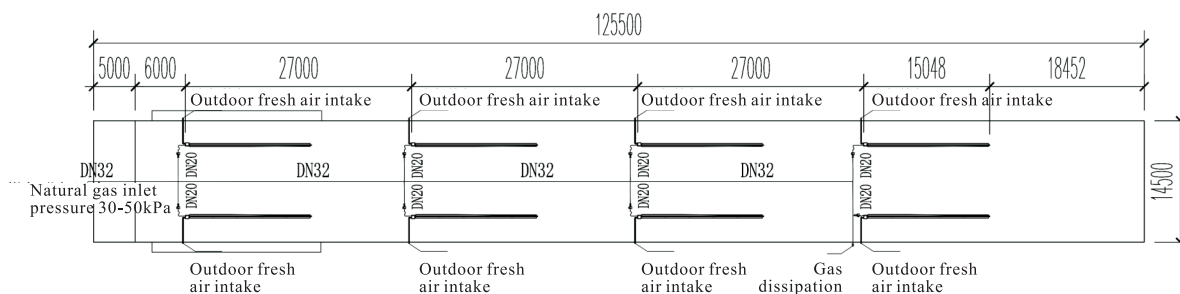
If the combustion products are internally discharged, additional ventilation is required. Typically, the ventilation rate is 22m³/h of fresh air per kW matched.

Typical Installation Layout



Positive Linear Infrared Tube Radiant Heater, LTSA35-15 (35kW, 15m)

Layout One (120m x 14.5m Front Brooding Broiler House)



Layout Two (120m x 12m Middle Brooding Broiler House)

