HIGH EFFICIENCY DIRECT-FIRED AIR HEATER

Air-Gas Mixing Technology for Poultry Houses #Inside or Outside Installation



Key Features:

- **Maximum efficiency:**
  The direct-fired gas air heater allows a 100% thermal efficiency and does not need a chimney.
- **Installation flexibility:**
  Can be installed indoors or outdoors thanks to its waterproof external casing.
- **Reduced CO_2 and humidity:**
  Thanks to fresh air operation option.
- **Pre-Painted Ballerix / StainlessSteel casing:**
  Higher corrosion resistance for long life in harsh farm environments.
- **Ensuring safe combustion:**
  Enhancing safety through external installation for outdoor combustion and gas pipelines.
- **Reliable hot surface ignition:**
  Advanced technology ensures reliability and safety during ignition without the possibility of error.
- **Emergency light signal:**
  The unit activates an external low-voltage light signal in case of a fault.

Unit Description:

The SUPERCIKKI 81 is a direct-fired gas air heater, with 100% thermal efficiency. It features a special atmospheric anti-dust gas burner that ensures high performance with methane, propane or butane gases. Safety is of the highest importance, thanks to features such as hot surface ignition, ionization flame control, dual thermostats, and a flow switch. The flame remains entirely contained within the heater, protected by a robust combustion circuit that can withstand high temperatures and resist corrosion. The external casing is in pre-painted Ballerix steel or stainless steel, both providing an IP 44 degree of protection. This design ensures the heater is completely weather-resistant, suitable for installation indoors or outdoors. Maintenance is made easy as the heater can be disassembled without the need to disconnect wires, allowing quick and easy access. Equipped with a special centrifugal fan, the heater ensures a high- speed air throw from the air duct, facilitating an optimal distribution of heat. This heater has been designed for heating poultry and livestock buildings, as well as intensive breedings.



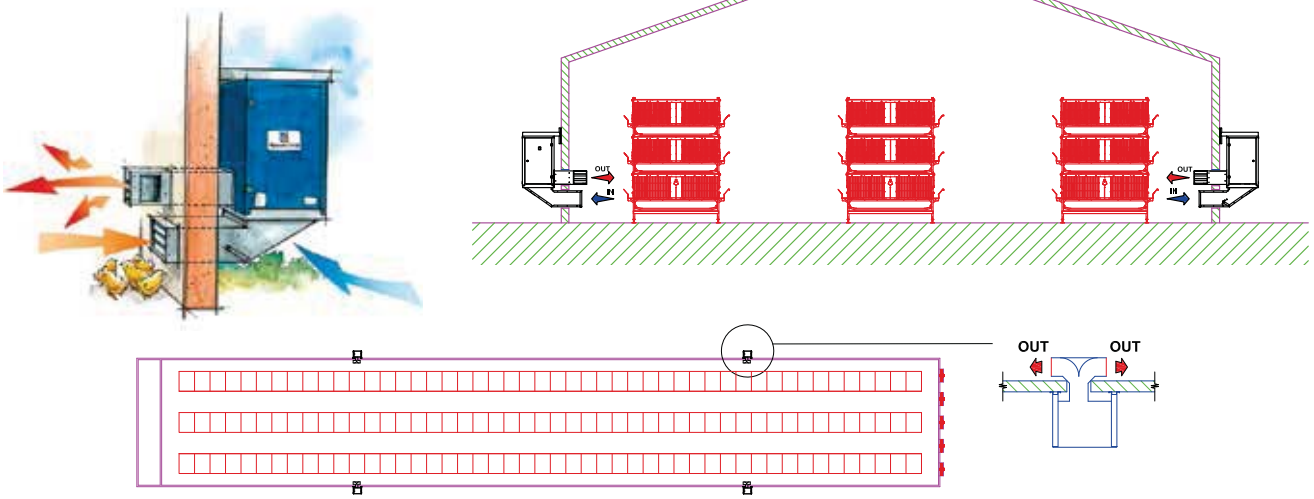
Easy-access burner side:
Anti-clogging burner designed for high-humidity environments, with integrated safety systems for fault protection.



Easy-access electrical side:
Sealed wiring and control box made of durable polymer, with a reliable motor suitable for poultry house conditions.

Both access points allow fast cleaning and maintenance without intervening heater operation.

Application Example with T-Diffuser for Cage System:



Solution

- Example layout for a large broiler house of about 120 × 14 × 3.5 m, holding up to 30,000 birds.
- Uses 4 (four) SUPERCICKI 81 heaters installed outside the building, available with stainless steel or pre-painted Ballerix steel casing for high corrosion resistance.
- The heaters operate with fresh air and reuse air from inside the house to maintain steady conditions.
- Air is distributed evenly along the building length through the integrated circulation system.
- Saves indoor floor space while allowing quick and safe access to the heaters for service and maintenance.

Technical Features

Description	U.M.	SUPERCIKKI 81
Max Heating Capacity Input	kW Btu/h	80 272,960
Nominal Air Flow	m³/h CFM	2,000 1,178
Motor power	kW HP	0.37 0.5
Power supply	-	230V ~ 50Hz 1Ph+N 230V ~ 60Hz 1Ph+N

Example of Other Possible Installations:



INSIDE INSTALLATION WITH COMPLETE INSIDE AIR RECIRCULATION



OUTSIDE INSTALLATION WITH COMPLETE FRESH WARM AIR SUPPLY



INSIDE INSTALLATION WITH PARTIAL FRESH OUTSIDE AIR AND RECIRCULATING AIR SUPPLY