

# HEAT60 – Warm Water Radiator



**The warm water radiator from DACS produces plenty of dry, warm air that allows for better climate control in poultry houses**

The HEAT60 warm water radiator from DACS provides warm and dry air that allows for efficient heating and dehumidification in poultry houses. Each HEAT60 unit is equipped with a 60 kW radiator and a 0.3 kW blower. The open sides allow for suction of 8000 m<sup>3</sup> air per hour over the radiator.

The low-pressure water flow inside the heating element means that only a small circulation pump is needed for the entire installation. This adds to the very low energy consumption of the entire heating system. The performance on the radiator is stated at a room temperature of 30 °C (86 °F) and an average temperature in the radiator of 80 °C (176 °F). The open structure of the radiator allows for a fast and thorough cleaning.

## Advantages:

- Total elimination of CO<sub>2</sub> emission compared to open flame gas heaters
- Significant improvement of FCR due to improved in-house air quality
- 20% humidity reduction compared to open gas heaters
- Significantly improved litter control due to better in-house climate



Closed – ready for operation



Open – ready for cleaning

## TECHNICAL SPECIFICATIONS

Heat capacity:

60 kW at –10 Pa and 30 °C ambient, calculated at nominal fluid flow

Calculate heat output using the following formula:

$(T_{\text{fluid inlet}} - T_{\text{cooling air inlet}}) \times 1.2 \text{ kW}$  Example:  $(80 - 30) \times 1.2 \text{ kW} = 60 \text{ kW}$

Air exchange capacity:

8000 m<sup>3</sup>/h at –10 Pa

Fluid supply requirement:

Nominal: 50 l/min per unit, 80 °C at inlet

Long Life Antifreeze suitable for aluminium must be added  
(25–60% concentration depending on climate conditions; consult installer)

Fluid temperature drop:

Approximately 20 °C at nominal flow and 30 °C ambient air

Fan motor:

3×400 VAC 6-pole (950 RPM) 0.3 kW IP55 Insulation Class F