Add air
Heat exchanger

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AddAir

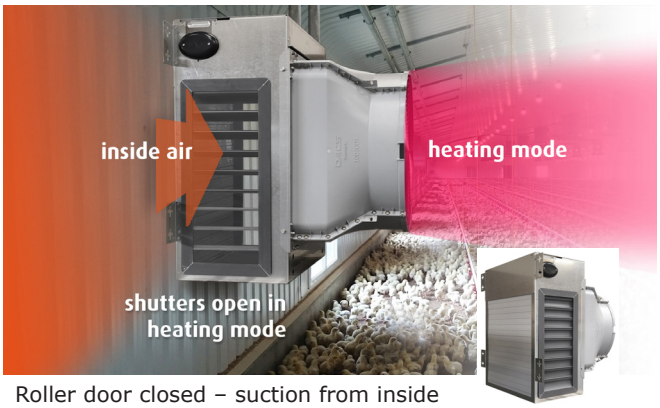
AddAir is a versatile and highly efficient heat exchanger, combining the simplicity of traditional heating systems with the efficient humidity control of heat exchangers – but at a fraction of the initial cost. Due to its supreme dehumidification capability AddAir quite simply is a game changer for the entire poultry industry.

Compared to other heat exchangers, AddAir has the following advantages:

- Better distribution of the air in the house
- Better litter condition
- Better integration with ventilation
- Significantly lower power consumption
- Significant saving in heating costs
- No cleaning and maintenance during production
- Open construction – easy to clean
- Much lower initial costs and running costs

System description

The AddAir unit is a water carried heat exchanger and connects to a conventional boiler.



Roller door closed – suction from inside

Roller door open – suction from outside

When the roller door in the unit is closed, the unit serves as a traditional heater, recirculating room air over the heater and distributing it evenly throughout the building.

When the roller door is open, the unit serves as a heat exchanger and provides superior humidity control and ample supplies of preheated fresh air. The air entering the building passes through the heater and is warm and extremely dry when entering the house. This warm and dry air will absorb moisture quickly and efficiently. The fact that it is warm air leaving the AddAir unit also ensures against draft and condensation in the house.

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: $(T_{\text{fluid inlet}} - T_{\text{cooling air inlet}}) \times 1.2$ kW Example: (80 − 30) × 1.2 kW = 60 kW
Air exchange capacity:	8000 m³/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