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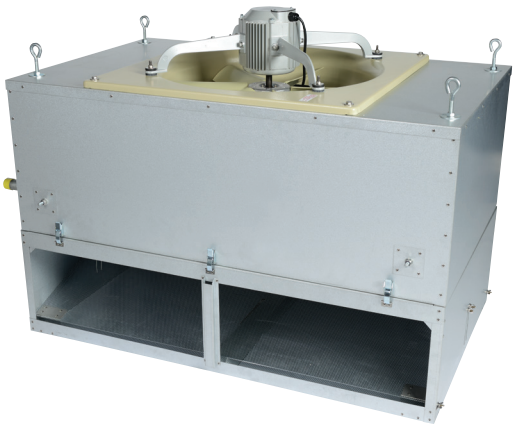
HHWCH Hot Water Coil Heater

The Hydor Galvanised Hot Water Coil Heater has been specifically developed to work in Poultry Units, with hot water biomass boilers or gas/oil fired boilers.



heater unit

Hot Water Coil Heaters consist of a hot water radiator, arranged horizontally, into which the flow of hot water is controlled with a variable valve. The heaters are designed to be hung from the roof in the middle of the house under the ridge. These units are designed for purpose with a variable speed fan to blow air downwards through the coil to an air deflector/diffuser that directs hot air down and out to spead evenly across the width of the house (variable angles to suit roof pitch). A floor standing, horizontal version is also available.

control unit

Essential to the effective operation of the heating system, the control unit developed by Hydor enables 3 modes of operation. It achieves this by controlling a variable water valve that varies the quantity of hot water delivered to the heater. Additionally, it varies the speed of the fan using an inverter frequency drive.

temperature control

The control unit for the heaters can be easily integrated with any thermostat/climate computer already present in the chicken house. Hydor can bespokely
make the control unit providing all 3 functions to work with any thermostat. Alternatively a new thermostat can be supplied, built into the control unit.

construction

The radiator is constructed of cast iron which is hot dip galvanised after construction. The body of the heater unit is made of aluzinc coated sheet steel. Water connections on the radiator are 1"BSP flow and return. The fan is a Hydor HXP 630mm, 940rpm, IP55 fan, for 3 phase 230V connection to a 230V inverter frequency drive. The heater is supplied with 4 suspension eyes for hanging with chain/wire rope.

modes of operation

Each unit has 3 modes of operation:

Destrat Fan Mode

The fan switched on and running at the set speed, with no water flowing.
Providing a heat recovery destratification function; blowing the hotter air in the roof space back down to the floor, resulting in a lower heat energy requirement.

Trickle Heat Mode

Heater providing a trickle heat. The amount of heat provided in this mode is set and adjustable on dials, for both the opening of the variable valve and the speed of the fan.

High Heat Mode

Fan working at full speed (100%) and water valve fully open (100%) providing maximum heating power of 56kW.

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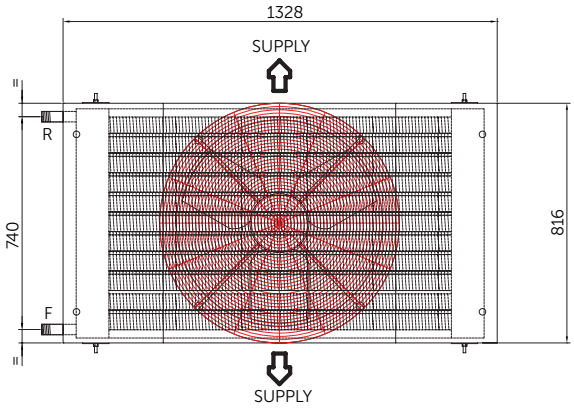
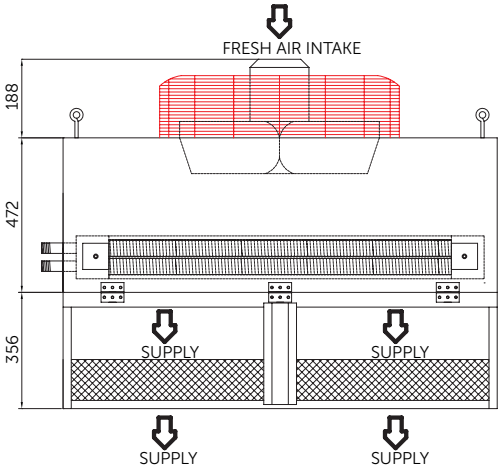
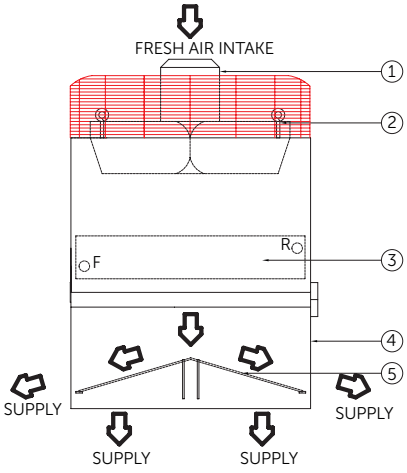
product information	Airflow m^3/s	Heat Output kW	Electrical Power W	Supply Voltage V-Ph-Hz	FLC Amps A	Start Amps A	Speed Max r/min
HHWCH	3.00	56	390	230 - 3- 50	2.2	6.2	940

dimensional drawing







features and benefits

- 56kW Rated
- Consisting of a Hot Water Radiator and HXP 630mm Fan (ErP 2015 compliant)
- 3 Modes of Operation – Destrat, Trickle Heat and High Heat
- Mounted horizontally in the Ceiling. Hot air is blown down and outwards across the floor area
- Robust quality unit, of proven design and construction
- Easy to Clean with Pressure Washers

key

1. HXP630 Fan
2. Zinc plated steel lifting eye
3. Hot dipped galvanised coil with 1" bsp(m) flow & return connections
4. Aluzinc diffuser casing
5. Mesh diffuser

dimensions	Length mm	Width	Height	Weight Empty	Weight Operational
HHWCH	1328	816	1016	207	219

Dimensions in mm.

The above information corresponds to the hanging HHWCH unit. A floor standing, horizontal version is also available - please contact Hydor for details.

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