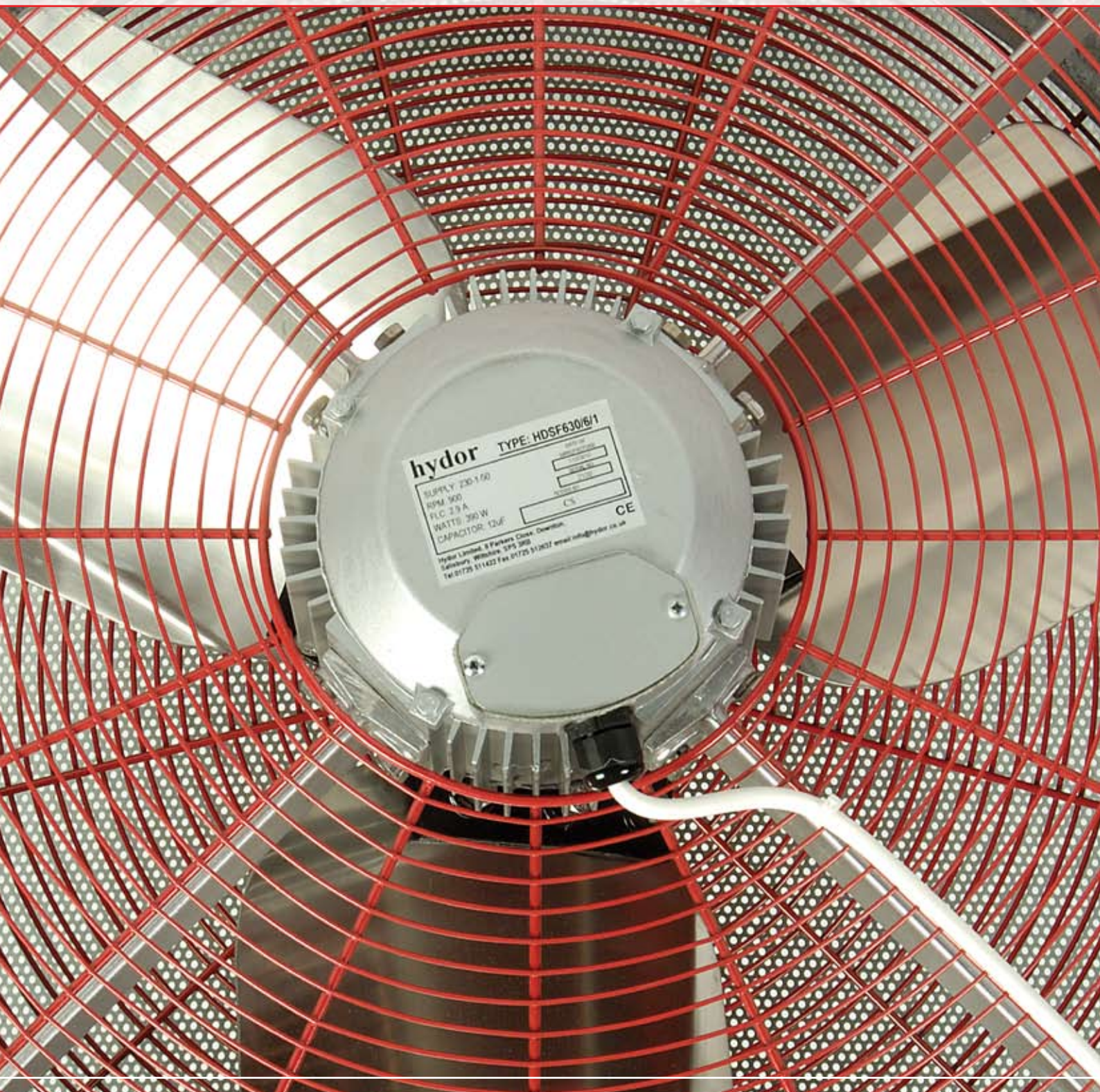


De-Stratification Fans

Ceiling Mounted Heat Recovery Units



hydor

De-Stratification Fan

Ceiling Mounted Heat Recovery Units



Warm heated air rises to the highest point of an enclosed area, thereby causing cooler air to reside at floor level. Traditionally temperatures have been maintained at floor level by continued and pro-longed use of heaters to saturate the entire building with heat. This results in much higher fuel consumption and relative energy expenditure.

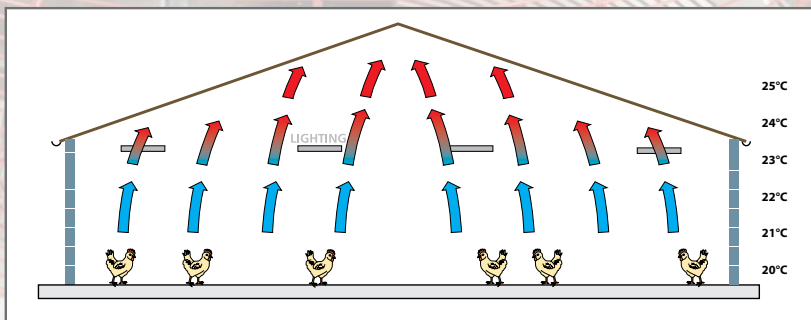


Figure 1.

Without the De-Stratification fans installed (Figure 1.), heat rises from floor level and collects in the ceiling void. In a well ventilated poultry building the difference in temperature levels can be as much as 5°C.

Heaters are required to operate more frequently in this situation to restore temperatures at floor height to acceptable levels for the livestock housed. This results in higher fuel costs and wasted energy.

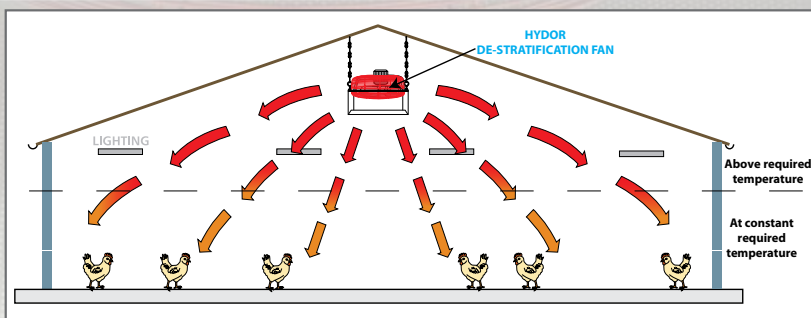


Figure 2.

With Hydor De-Stratification fans installed in the ceiling space (Figure 2.), the accumulated warm air is redistributed down towards floor level and re-circulated around the building. This operation creates a more even temperature around the housing and allows the floor level temperature to be sustained for longer without the prolonged and frequent use of heaters, thereby reducing energy expenditure significantly.

Tests have also proven that the fans aid maintenance of a constant temperature at floor level. In comparison a shed reliant solely on heaters recorded considerable fluctuations in temperature which is unsuitable for the wellbeing of the birds.

Features & Benefits



- Available in 630mm.
- High efficiency fan easily accessible for cleaning and maintenance.



- Suspension eyelets fitted as standard for easy installation.
- Fitted with motor-side and propeller-side guards for safety.



- Robust, heavy duty construction for arduous agricultural conditions.

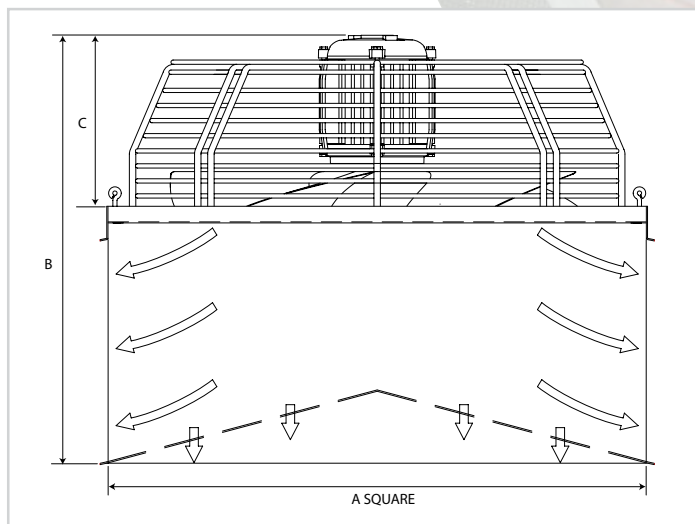
The Hydor De-Stratification Fan incorporates the renowned Hydor HE Fan, one of the most efficient fans available on the market and produces air volumes of up to 4.84m³/s.

With a heavy duty construction, the fans are robust for arduous environments. The units include both motor-side and propeller-side guards for safety. Suspension eyelets are fitted as standard.

With the installation of Hydor De-Stratification Fans the litter in poultry houses is notably drier, alleviating the problems incurred with frequent wet litter. Improved air quality with reduced levels of ammonia result in an improved crop of birds and greater profit potential.

Differential temperature and manual speed controllers are available on request.

Dimensional Data



Product Code	A	B	C
HDSF630	730	616	256

Performance & Electrical Data

Product Code	Airflow m ³ /s	Speed (r/min)	Power Watts	FL Amps	Start Amps	Capacitor uF	Sound dBA @ 3m
HDSF630	3.11	900	390	2.9	7.6	12	60



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