

Turbulator

High Quality Recirculation Fans



The standard HTS range comprises five model sizes from 355mm to 630mm, producing air volumes of up to 2.86 m³/s.

The standard Turbulator HTS range of fans are specifically designed to have a long throw and move air efficiently to give a measure of control over temperature and humidity in dairy housing, as well as a variety of other applications for farming.



- Rust resistant air straightener for long axial air flow.
- Suitable standard 230V single phase supply.
- A full range of both automatic and manual infinitely variable controllers.



- Rust resistant wire guards for employee safety.
- Waterproof Junction Box and 3 metre cable.
- Large range of thermostats and speed controllers available.



- A full range of electronic / manual thermostats.
- Stainless steel or Alu-Zinc casings supplied with suspension eyes and chain for ease of mounting.



- Available in stainless steel (non-stocked / made to order). Extra chain / cable available - please notify at time of ordering.
- 12 Months product warranty.

Features & Benefits

The Hydor range of Turbulators, are constructed with Alu-Zinc or stainless steel casings, with high efficiency, lightweight motors and non-corrosive plastic impellers, offering various sizes from 355mm to 630mm diameter. The units are suitable for all year round ventilation and movement of air within milking parlours and calf houses, giving evenness of temperature throughout the unit and removing condensation in the building, by circulating the air, thereby improving the cows environment at low cost and power consumption.

There are a number of distinct benefits for dairy applications with 'Turbulators', namely –

1. Control of insects in the summer months – many insects and flies are discouraged by a constant airflow throughout a dairy farm which is created by the circulating fans.
2. Overcomes dunging problems – Where the ventilation rates become too low, cows will tend to congregate wherever the oxygen level is best in their housing. Turbulators gently circulate fresh air evenly throughout the entire building, which culminates in a healthier environment for the cows.
3. A reduction in heat stress, whereby growth loss is reduced from heat stress.
4. A constant airflow will ensure the dairy is kept dry by increasing evaporation of moisture in the air, which means eliminating condensation on walls and ceilings in winter.
5. A reduction in the heat stress of cows when using Turbulators to circulate the air can enhance their reproductive efficiency.
6. Air circulation moves ammonia fumes away from the cows, circulating gases to a higher level within the building, which in turn means open ridges will remove this from the building altogether.
7. Turbulators can be mounted at any angle for optimum coverage in the dairy.
8. Moves stale and humid air from the workspace.
9. Disperses the dust from the feed systems.
10. Keeps farm workers cooler.

HTL 20

The HTL 20 has an extended casing length, specifically developed in the Turbulator range to provide an increased throw of circulated air for the applications required. This is achieved with a more settled airflow pattern as the air discharges from the fan outlet.

This Turbulator variant is supplied with an Alu-Zinc casing as standard, but is available in stainless steel for more corrosive environments.



HTSS 20

The HTSS 20 is a short cased Turbulator, providing duties of up to 1.37m³/s, with a stainless steel casing ensuring a maintenance free, long service life of the product for a variety of applications, where vulnerability to corrosion exists.



HTHB 16

The HTHB 16 is a long cased Turbulator complete with an electric heater battery and integrated controls. The HTHB features include;

- Economy in space as it is suspended rather than floor mounted
- Thermostat with three settings; (Optional extra)
 1. Fan only - Summer Only
 2. Fan heater constant - Severe winter mode
 3. Fan with heater on thermostat - Frost protection

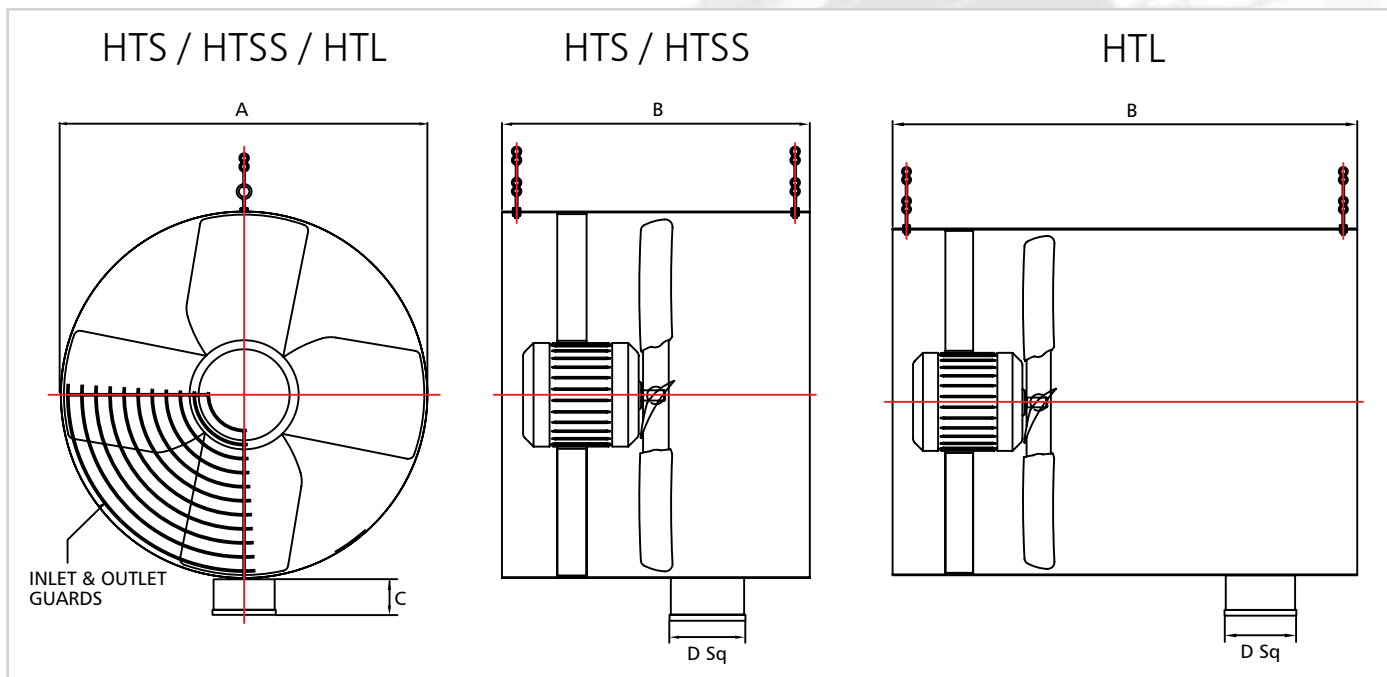
The integrated control panel is attached to the housing of the fan unit.



The HTS range of Turbulators has been complimented with the addition of three other models, from stainless steel casings for more corrosive environments, to heater versions with integrated controls, to long cased options that meet farmers precise market applications in air circulation.

Each of the three Turbulator variants are available with a standard 500mm diameter fan, providing performances of up to 1.37 m³/s. Hydor's capabilities in manufacturing and design extend well beyond this, enabling us to provide any additional sizes or bespoke requirements you may have.

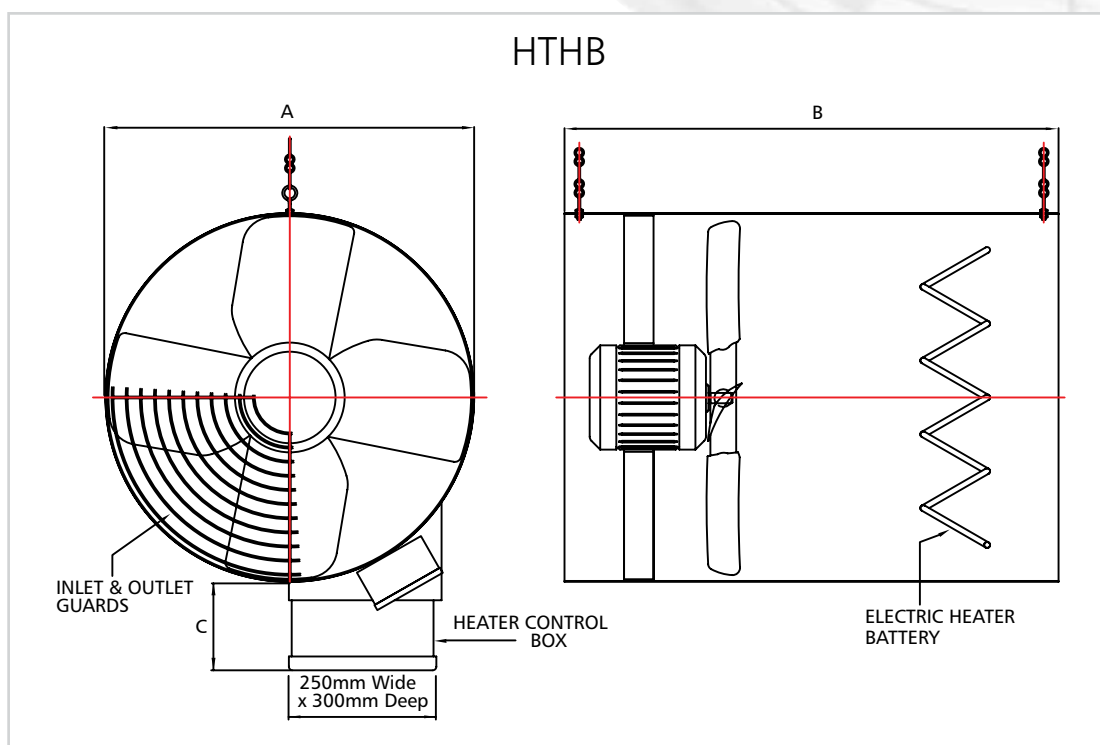
Dimensional Data



Product Code	A	B	C	D	Weight (kg)
HTS 14	360	420	75	115	10
HTS 16	410	420	75	115	13
HTS 18	460	420	75	115	15
HTS 20	510	420	70	115	16
HTS 24	660	420	70	115	29

Product Code	A	B	C	D	Weight (kg)
HTL 20	510	670	70	115	17

Product Code	A	B	C	D	Weight (kg)
HTSS 20	510	420	70	115	16



Product Code	A	B	C	Weight (kg)
HTHB 16	410	670	140	16

N.B. All Dimensions are expressed in millimeters

Performance & Electrical Data

Product Code	Fan Dia (mm)	Speed (r/min)	Airflow (m ³ /s)	Throw (metres)	Sound Level dBA @ 3m	Power (Watts)	FLC (Amps)	Supply (V-Ph-Hz)
HTS 14/4	355	1400	0.86	30-35	57	120	1.10	230-1-50
HTS 16/6	400	900	0.89	30-35	52	70	0.80	230-1-50
HTS 16/4	400	1400	1.27	35-40	62	180	1.60	230-1-50
HTS 18/6	450	900	1.12	35-40	54	80	1.00	230-1-50
HTS 18/4	450	1400	1.70	40-45	64	280	1.90	230-1-50
HTS 20/6	500	900	1.37	40-45	56	90	1.40	230-1-50
HTS 24/6	630	900	2.86	45-50	60	280	2.10	230-1-50

Product Code	Fan Dia (mm)	Speed (r/min)	Airflow (m ³ /s)	Throw (metres)	Sound Level dBA @ 3m	Power (Watts)	FLC (Amps)	Supply (V-Ph-Hz)
HTL 20/6	500	900	1.37	45-50	56	90	1.40	230-1-50

Product Code	Fan Dia (mm)	Speed (r/min)	Airflow (m ³ /s)	Throw (metres)	Sound Level dBA @ 3m	Power (Watts)	FLC (Amps)	Supply (V-Ph-Hz)
HTSS 20/6	500	900	1.37	40-45	56	90	1.40	230-1-50

Product Code	Fan Dia (mm)	Speed (r/min)	Airflow (m ³ /s)	Throw (metres)	Sound Level dBA @ 3m	Power (Watts)	FLC (Amps)	Supply (V-Ph-Hz)
HTHB 16/6	400	900	0.89	30-35	52	2590	12.0	230-1-50

Accessories

Product Code	Control Method	No. Fans*
VMRD	Manual speed control	1-6
VARC	Temperature, variable speed	1-6
VARC /P	Temp, OFF/variable speed	1-6
VARC /HI	As VARC plus heater interlock	1-6
VARC /HP	As VARC /HI plus fan OFF	1-6

* Please specify when ordering



A single fan, manual speed regulator (VMRD1) with overload protection - models available for up to six fans.

Also available is the VARC range of automatic speed controllers with thermistor temperature sensor, for small animal production houses using from one to six fans.

