

DESCRIPTION

The stylish ZOO (Zone Of Occupancy) Fan destratifies by producing a gentle, precise column of air that draws warm air from the ceiling and forces it down to floor level. By doing this it helps to create a more pleasant and comfortable indoor environment for workers and customers. It can also help to lower a building's operating costs by reducing the energy consumption of a heating system in cooler weather.

Available in AC and EC configurations with fan diameters of 250mm and 300mm.

Typical Applications

Ideal for buildings that are heated and have high ceilings such as warehouses, airports, churches, school halls, greenhouses, and shopping centres. Particularly effective when used in aisles due to their narrow band of air and variable speed control motor that provides air flow adjustment. Can be also used as a quiet and unobtrusive cooling fan in warmer weather.

Features

- Helps to create a more productive, more comfortable environment that has the potential to reduce energy consumption.
- Can be installed so its air flow avoids or targets areas.
- Adjustable air flow using a speed controller.
- EC ZOO fans used as a demand control destratification system with EC speed controller and two temperature sensors.
- Model with finger guards on inlet and outlet available (See special note).
- Pivoting handle allows quick change to airflow direction.
- Fire resistant (5VB), UV-treated PC ABS plastic.
- Fitted with Gripple attachments that make it quick and easy to install.

Construction

UV-treated PC ABS plastic housing that is fire resistant (5VB).

Fitted with an easy to reach IP44 terminal box.

Motors

AC type - external rotor, squirrel cage induction motors.

EC type - Electronically commutated motor.

Electricity supply - 230V single-phase, 50/60Hz.

Bearings - sealed-for-life, ball.

Speed-controllable.

Motor Protection IP44.

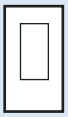
See pages O-2/3 for details on AC motors.

See page O-7 for details on EC motors.

DIMENSIONS



VA - Speed controllers
Ref. G-19



ZOO Fan EC Controllers & Sensor s
Ref. G-19

Internal Thermal Protection

Auto-reset thermal protection

Testing

Air flow tests to DIN24166, Class1

Noise tests to DIN3745, Class1

Wiring Diagram

See page N-8, diagram ER4

Special Note

Finger guards must be fitted to fans if being mounted less than 2.1 metres from floor level.

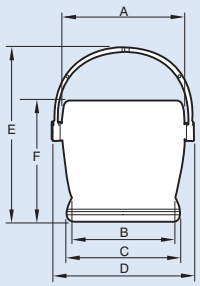
Suggested Specification

The destratification fans shall be of the ZOO (Zone Of Occupancy) Series as supplied by Fantech Pty Ltd and be of the model number shown on the schedule/drawings.

They shall be constructed from fire resistant (5VB), UV-treated PC ABS plastic and include a robust pivoting handle. They shall be fitted with a speed-controllable motor and an IP44 terminal box. Wire finger guards (if fitted) shall be of zinc plated wire.

All models shall be fully tested to DIN24166, Class1 for air flow and DIN3745, Class1 for noise.

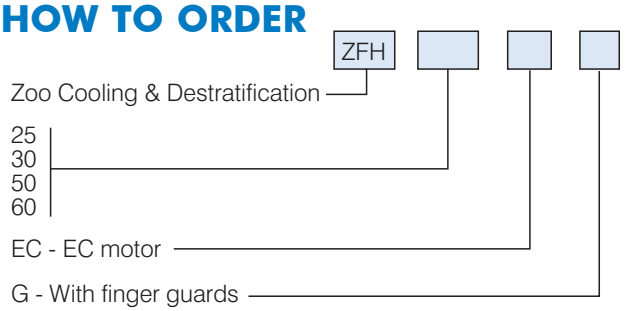
DIMENSIONS



Model Num.	Dimensions, mm A	B	C	D	E	F	Approx Weight kg.
ZFH25	379	300	352	445	539	378	9
ZFH30							7
ZFH50	453	367	421	533	656	460	11
ZFH60							10

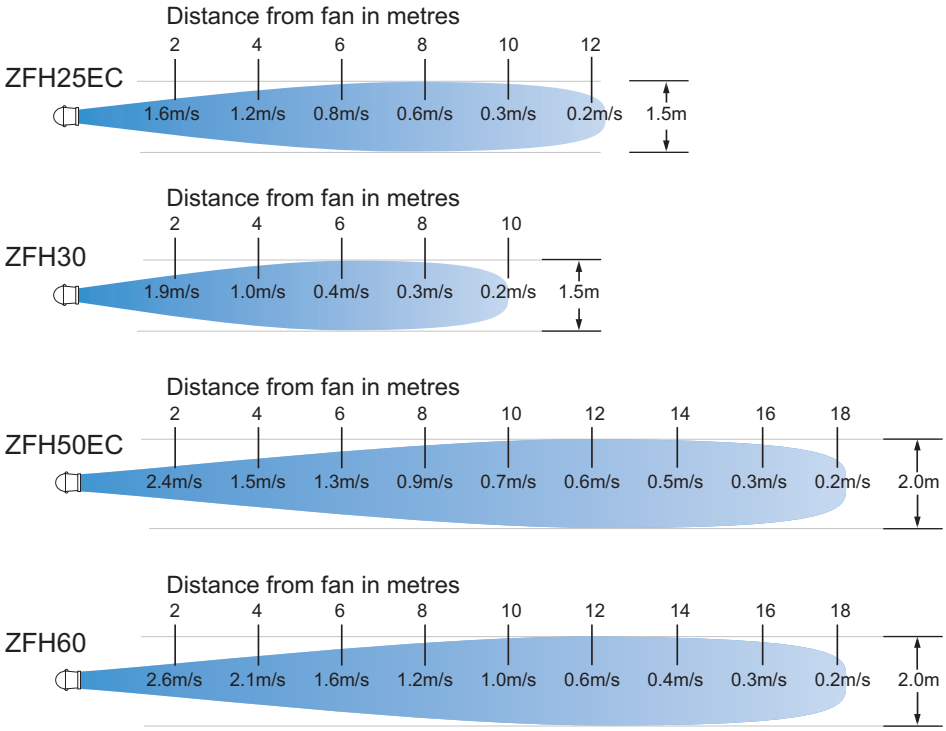
Add G to the end of code if finger guards on inlet and outlet are required.

HOW TO ORDER



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VELOCITY PROFILE



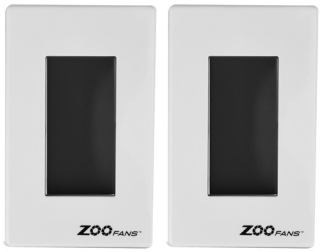
TECHNICAL DATA & NOISE LEVEL

Model ZFH...	Fan Size (mm)	Nom. Speed, rev/sec	Max Operating Temp (°C)	Free Air m^3/s	kW	Amps	Sound Power Levels, (dBA) @ Ceiling Height 6m	8m	10m	12m	15m	18m
25EC	250	36	60	0.31	0.06	0.50	55.4	52.9	51.0	-	-	-
30	250	22	55	0.32	0.05	0.23	44.4	41.9	40.0	-	-	-
50EC	300	31	60	0.59	0.11	0.87	-	-	-	49.4	46.9	45.9
60	300	22	60	0.54	0.10	0.42	-	-	-	40.4	38.5	36.9

ZOO AUTO EC SPEED CONTROLLER AND SENSORS



Zoo Fan EC Controller (Code: ZF-BRT-F606)



Temperature Sensors (Code: ZF-BRT-T601)

Features

- Dynamic control for quiet, variable speed operation
- Automatically controlled fan speed and air flow is based on the delta T and entered ceiling height
- Dynamic management of fan speed via the auto function typically results in fans running at lower speeds overall, while still maintaining thermal equilibrium in the space

Description

This intuitive EC ZOO controller can be used to manually control fan speed, or create a flexible demand control destratification system. When set to auto operation it will adjust air flows according to the temperature difference between two temperature sensors typically placed near the floor and the ceiling.

Model Number	Permissible Temperature Range	Mounting	Dimensions, mm
ZF-BRT-F606	0 to 50°C	Recess	72W x 115H x 35D
ZF-BRT-T601			

Wiring Diagram

