top view

DESCRIPTION

The HB Series exhaust fan is specifically designed for ceiling mounting and is suitable for residential and light commercial applications. These high performance products feature a reliable external rotor motor and include a corrosion-free housing and grille.

Typical Applications

Exhausts air from residential or light commercial rooms such as laundries, bathrooms, kitchens, ensuites, wine cellars and bars. Particularly suited to applications where space is restricted.

Features

- High performance backward-curved centrifugal fan.
- Fitted with a reliable external rotor motor.
- Available in 2 pole or 4 pole speeds.
- Designed for use in ducted systems.
- Model HB12E includes a built-in speed-controller.
- Surface-mounted grille is removable.

Construction

Housing is of vacuum formed plastic.
The grille is of injected moulded plastic.
Fans are backward-curved centrifugal, driven by an external rotor motor.

Motor

Type - external rotor, squirrel cage induction motor.
Electricity supply - 230V, single-phase, 50Hz.
Bearings - sealed for life, ball.
Model HB12E is speed-controllable.
Class B motor, IP44 rated.
See pages *O-2/3* for details on these motors.

Internal Thermal Protection

Manual-reset thermal protection is fitted as standard

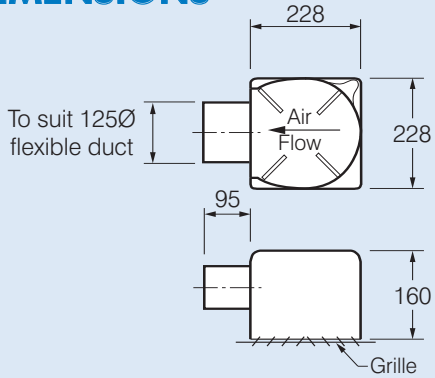
Testing

Air flow to ISO5801:1997
Noise to BS848: Part 2, 1985.

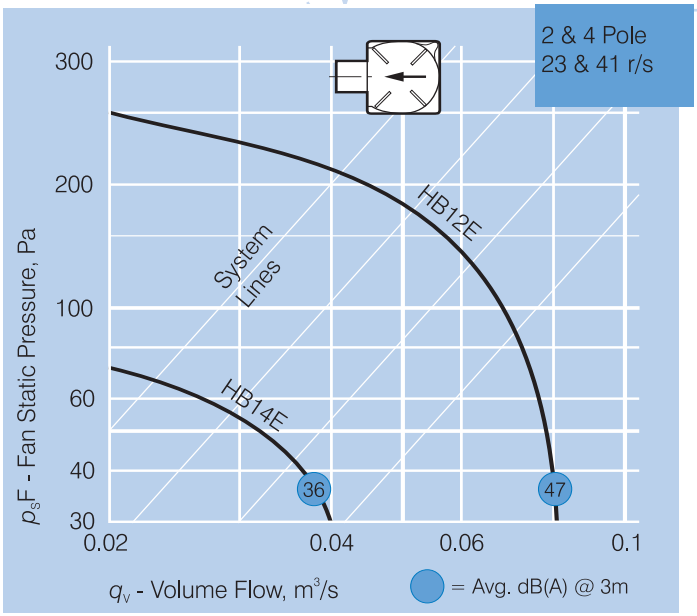
Wiring Diagram

See page *N-8*, diagram *ER4*

DIMENSIONS



Dimensions, mm



TECHNICAL DATA

Model Number	Fan Speed rev/sec	Avg. dB(A) @ 3m	HB.. 1 ph. Watts	Amps	App. Wt. kg
HB12E	41	47	70	0.30	3.6
HB14E	23	36	30	0.16	3.6

NOISE DATA

Model Number	In-duct Sound Power Levels L_wdB re 1pW 63	125	250	500	1k	2k	4k	8k
HB12E	68	69	69	66	59	58	56	49
HB14E	65	63	58	55	47	47	45	39

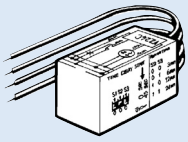
SUGGESTED SPECIFICATION

The fans shall be the HB Series Fan Header Box units manufactured and supplied by Fantech Pty. Ltd. The HB12E unit shall incorporate speed-controllers as standard. Motors are to have thermal cut-out protection.

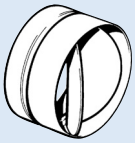
ANCILLARY EQUIPMENT

VA - Speed controller
Ref. *M-5*

Ducting, Louvres & Grilles
Ref. *L-6/14*



VZ - Run-on timer
Ref. *M-14*



Backdraft dampers
Ref. *J-3*

HOW TO ORDER

Select the model that meets your air flow and application requirements from the graph. If the performance required falls between two models, the one handling the most air should be selected.

Scan the QR Code to view more information online.