



CYLINDRICAL CASED AXIAL FLOW FANS

PBB-PBT Series, Portable Cooling Fans



Description

The PBB-PBT industrial cooling fans are designed to provide high volumes of air for numerous personnel, space and drying applications. The range are available in three nominal diameter sizes.

Standard direction of airflow:
Form B, Impeller – Motor.

Applications

The Compact Portable Cooling Fans series are suitable for many commercial and industrial applications including:

- Ventilation and cooling of the work place - offices etc.
- Point cooling of motors, compressors or electrical machines.
- Part paint or oven drying applications.

Before installation, it is important to check that the product electrical characteristics listed on the data plate label (voltage, power, frequency etc), match those of the intended electrical supply.

Construction

The fan casing is formed from heavy gauge rolled sheet steel with the motor support manufactured from steel rod and electrowelded for increased strength. The fan assembly is supported and positioned by a robust cold formed tubular steel stand. All models are fitted with robust steel wire finger guards on both the inlet and outlet sides of the fan. The whole assembly is protected with a tough two stage primer and polyester (black) paint coating.

All wiring connections are made via an IP65 rated terminal box fixed to the exterior of the casing and provided with a two-pole On/Off switch.

All standard models are supplied in Form (B) configuration. Airflow over Impeller-motor.

Impellers

The impellers are manufactured in a UV stabilised injection moulded plastic with reinforced fibreglass resistant to many chemical and abrasive airstreams.

When factory matched to the S&P Compact Motors, all fan assemblies are dynamically balanced to ISO 1940.

Motors

All Compact Portable Cooling fans incorporate asynchronous induction motors with a squirrel cage rotor in die cast aluminium. All motors are constructed in accordance with UNE-113 and CEI-34-1 standards. The motor casings are constructed from die cast aluminium with integrated cooling fins and finished with a tough (black) polyester paint.

The standard Compact Portable Cooling fan range incorporates the following motor specifications:

- IP65 totally enclosed protection.
- Class F Insulation (-40°C to +70°C working temperatures).
- Humidity protection
- Thermal Overload Protection.
- Speed Controllable.
- PG-11 conduit connection to terminal box.

Motors can be supplied for the following electrical supplies:

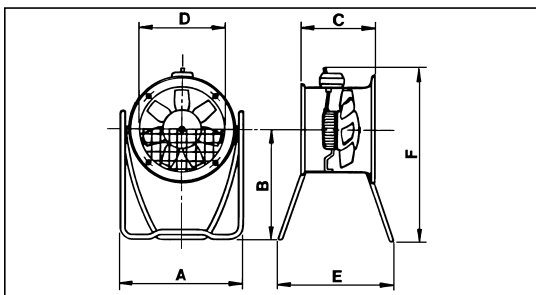
- Single Phase 230V – 50Hz
- Three Phase 230/400V – 50Hz

All single phase motors are supplied complete with a capacitor which is located inside the wiring outlet box.

Technical characteristics

| SINGLE PHASE Type | THREE PHASE Type | Speed (r.p.m.) | SINGLE PHASE | | THREE PHASE | | Maximum air volume (m ³ /h) | Sound pressure level (dB(A)) | Weight (kg) |
|----------------------|---------------------|-------------------|----------------------------|---------------------------|----------------------------|--|---|---------------------------------|----------------|
| | | | Max. power absorbed (W) | Max. power current (A) | Max. power absorbed (W) | Max. power current (A) 230 V 400 V | | | |
| PBB/4-315 | PBT/4-315 | 1300 | 100 | 0,6 | 150 | 0,59 0,34 | 2250 | 54 | 13,5 |
| PBB/4-400 | PBT/4-400 | 1200 | 340 | 1,6 | 300 | 1,40 0,80 | 5200 | 60 | 20 |
| PBB/4-450 | PBT/4-450 | 1230 | 480 | 2,3 | 500 | 1,70 1 | 6760 | 65 | 26 |
| PBB/4-560 | PBT/4-560 | 1250 | 980 | 4,9 | 1210 | 3,90 2,30 | 12000 | 72 | 35 |
| PBB/4-630 | PBT/4-630 | 1200 | 1700 | 7,60 | 1600 | 4,84 2,80 | 16450 | 74 | 40 |

Dimensions (mm)



| Type | A | B | C | Ø D | E | F |
|------|-----|-----|-----|-----|-----|------|
| 315 | 439 | 400 | 211 | 315 | 470 | 642 |
| 400 | 600 | 557 | 227 | 400 | 560 | 841 |
| 450 | 650 | 616 | 237 | 450 | 560 | 925 |
| 560 | 780 | 473 | 307 | 560 | 500 | 837 |
| 630 | 890 | 750 | 307 | 630 | 840 | 1149 |

Electrical accessories



REB

Electronic, single phase speed controller.
See Accessories pages for further details.



RMB/RMT

Auto transformer, single phase speed controller.
See Accessories pages for further details.

■ Air throw curves

PBB-PBT

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