

- 100mm - 315mm diameter spigot sizes
- Volume flow up to 0.42m³/s
- Static pressures up to 710 Pa
- Low profile unit, robust construction
- Easy installation, suitable for wall or ceiling mounting

- Models 100mm to 150mm with forward curved and 200mm to 315mm with backward curved impellers
- Operation up to 75°C (depending on model)
- Integral capacitor, fitted in side T/box

MiniBox

Boxed Fans



Introduction

Often modern building designs restrict the space available to install ventilation equipment. In these situations the size of the ductwork is limited and often the fan itself has to be mounted in ceiling voids close to the building occupants. These restrictions mean that fans need to be compact, reliable and quiet in operation.

The Fläkt Woods MiniBox units have been specifically designed to meet these requirements. The MiniBox offers an extremely compact single fan unit suitable for installation in the most confined situations.

Sizes

Mini 100, Mini 125, Mini 150, Mini 200, Mini 250, Mini 300, Mini 315.

Construction

Casings are manufactured from pre-galvanised sheet steel and are carefully designed to provide a strong and rigid casing.

MiniBox units are provided with pre-formed circular inlet and outlet spigots and are unlined. An integral fixing bracket with key hole slots is provided offering easy installation.

Motors

The motor is mounted within the centrifugal impeller to form a compact unit, powered by a single phase 220-240V, 50Hz motor, giving silent and virtually vibration free running, operating at temperatures of up to a maximum of between 55°C and 75°C (depending on model). All motors are manufactured in accordance with BS5000 and incorporate thermal overload protection, they are maintenance free, with sealed for life bearings offering an expected life L10 of 40000 hours.

Electrical Supply

220 - 240V / 50Hz / 1 φ

Wiring/Controls

All units are fully speed controllable using Fläkt Woods standard speed controllers. MiniBox units are fitted with a surface mounted Terminal box.

Servicing

The fan assembly can be easily removed from the casing for cleaning and maintenance purposes, with the swing access.

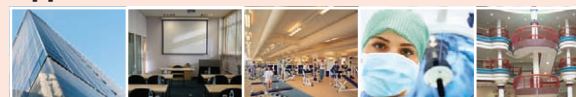
Accessories

Speed controllers, Changeover panels and run on timers, Electric heater batteries, Panel filter cassettes, non return dampers, silencers, flexible connectors and solid duct fasteners. For a full range please see pages 100-101.

Mounting

Suitable for both horizontal and vertical mounting.

Application Guide

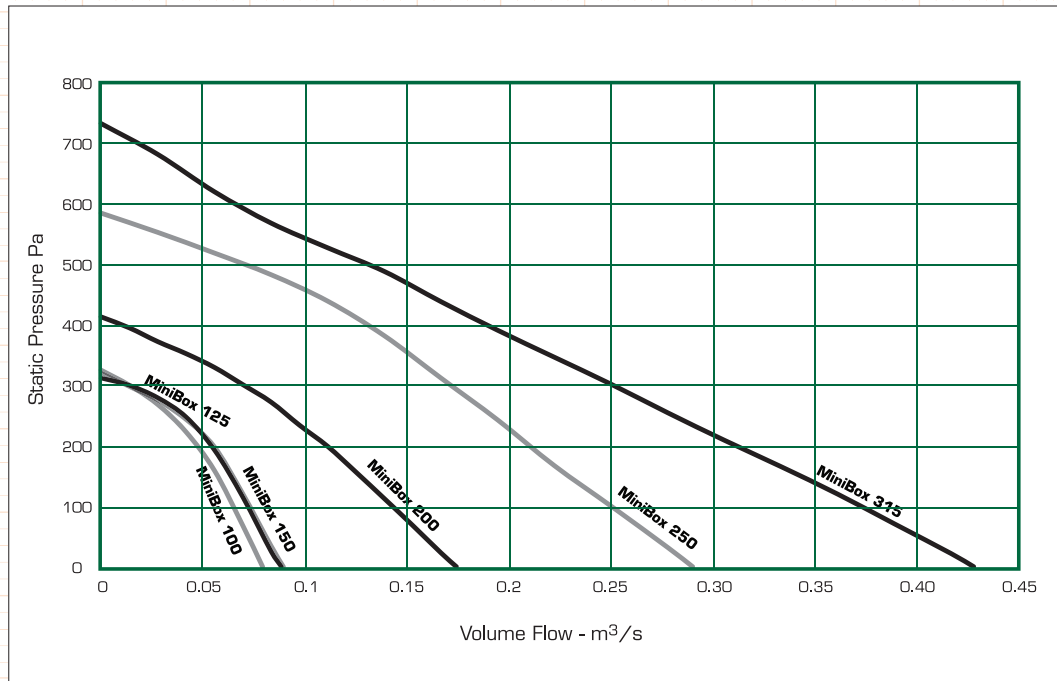


MiniBox

Boxed Fans

Super
XPRESS
 Range

Performance Data



Sound Data

| Product Code | Speed (rev/min) | Sound Power Levels (dB) In Octave Band Centre Frequency - Hz | | | | | | | Total dBA @ 3m |
|--------------|-----------------|---|-----|-----|----|----|----|----|----------------|
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| Mini 100 | 2330 | 70 | 61 | 54 | 53 | 51 | 51 | 48 | 39 |
| Mini 125 | 2280 | 69 | 65 | 57 | 54 | 53 | 52 | 49 | 41 |
| Mini 150 | 2300 | 67 | 67 | 58 | 54 | 53 | 53 | 50 | 42 |
| Mini 200 | 2520 | 69 | 68 | 68 | 59 | 57 | 55 | 47 | 47 |
| Mini 250 | 2530 | 76 | 74 | 70 | 64 | 61 | 61 | 57 | 51 |
| Mini 315 | 2270 | 74 | 74 | 69 | 65 | 64 | 62 | 58 | 51 |

Electrical Data

| Product Code | Speed (rev/min) | Product Number | 220-240V/50Hz/1ϕ | | | | | m³/s @ Pa (Static) | | | | | | | | | | | | | | | | | |
|--------------|-----------------|----------------|-------------------|---------------------------------|--------------------------------|----------------|------------------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|--|--|--|
| | | | Motor Rating (kW) | Full Load Current (at 230V) (A) | Starting Current (at 230V) (A) | Wiring Diagram | Speed Controller Transformer | 0 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | | | |
| | | | | | | | | 0 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | | | |
| Mini 100 | 2330 | DC100211 | 0.090 | 0.4 | 0.48 | CDWMBD | MT1.1.5 | 0.08 | 0.072 | 0.064 | 0.057 | 0.047 | 0.034 | 0.014 | | | | | | | | | | | |
| Mini 125 | 2280 | DC125211 | 0.095 | 0.41 | 0.5 | CDWMBD | MT1.1.5 | 0.088 | 0.078 | 0.071 | 0.063 | 0.054 | 0.04 | 0.012 | | | | | | | | | | | |
| Mini 150 | 2300 | DC150211 | 0.095 | 0.41 | 0.5 | CDWMBD | MT1.1.5 | 0.089 | 0.08 | 0.072 | 0.064 | 0.055 | 0.39 | 0.012 | | | | | | | | | | | |
| Mini 200 | 2520 | DC200211 | 0.095 | 0.41 | 0.5 | CDWMBD | MT1.1.5 | 0.173 | 0.157 | 0.143 | 0.126 | 0.11 | 0.092 | 0.068 | 0.042 | 0.1 | | | | | | | | | |
| Mini 250 | 2530 | DC250211 | 0.190 | 0.83 | 1.4 | CDWMBD | MT1.1.5 | 0.29 | 0.27 | 0.25 | 0.23 | 0.21 | 0.19 | 0.17 | 0.15 | 0.13 | 0.11 | 0.07 | 0.03 | | | | | | |
| Mini 315 | 2270 | DC315211 | 0.290 | 1.3 | 2.0 | CDWMBD | MT1.5 | 0.43 | 0.40 | 0.37 | 0.34 | 0.31 | 0.28 | 0.25 | 0.22 | 0.19 | 0.16 | 0.13 | 0.09 | 0.06 | 0.04 | 0.02 | | | |

Performance tested in accordance with DIN 24163, noise levels to DIN 45635. Sound pressure levels quoted are average dBA at 3m distance over a sphere, under free field conditions and are presented for comparative purposes only.

Sound power levels are non-ducted, measured at mid point on the fan characteristic. **Bold text denotes Super Express Product, next day delivery available if ordered by 4pm.**

The fan noise levels shown are for the specified operating point. When an electronic controller is incorporated, a magnetic noise (enhanced motor noise) can occur - particularly if the fan is operating at speeds well below maximum. For noise sensitive applications FWL recommend using an auto transformer speed controller.

Wiring diagrams can be found on page 65.

Telephone:
01206 222 555

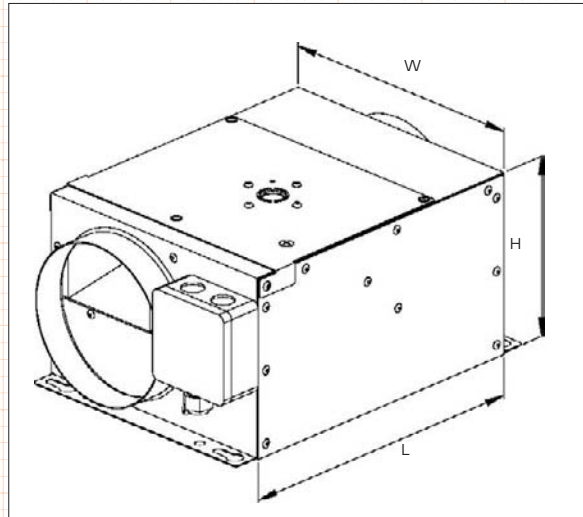
Fax:
01206 222 905

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fans.uk@flaktwoods.com

Express Website:
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Fan Selector:
www.flaktwoods.com/fanselector

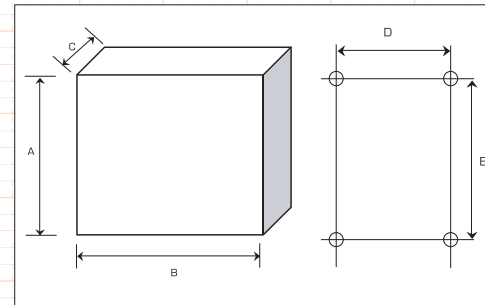
Dimensions



| Product Code | L | W | H | Conduit | Weight (kg) |
|--------------|-----|-----|-----|---------|-------------|
| Mini 100 | 300 | 248 | 170 | M20 | 5.3 |
| Mini 125 | 300 | 248 | 170 | M20 | 5.3 |
| Mini 150 | 300 | 248 | 170 | M20 | 5.3 |
| Mini 200 | 400 | 353 | 231 | M20 | 8.8 |
| Mini 250 | 400 | 353 | 280 | M20 | 10.5 |
| Mini 315 | 400 | 402 | 345 | M20 | 12.9 |

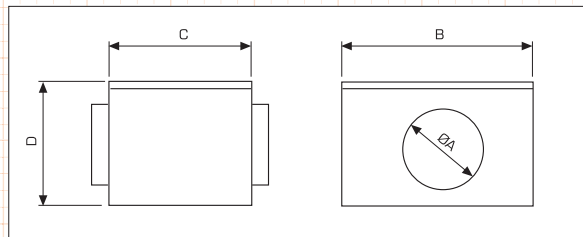
MiniBox
Boxed Fans

Transformer Speed Controller

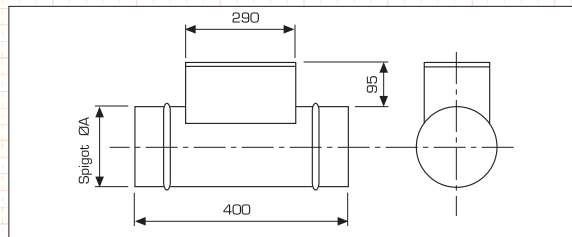


| Type | Number Product | A | B | C | D | E | Max. Weight (kg) |
|---------|----------------|-----|-----|-----|-----|-----|------------------|
| MT1.1.5 | 402008 | 205 | 115 | 100 | 98 | 140 | 2.1 |
| MT1.5 | 423099 | 255 | 170 | 140 | 155 | 194 | 5.5 |

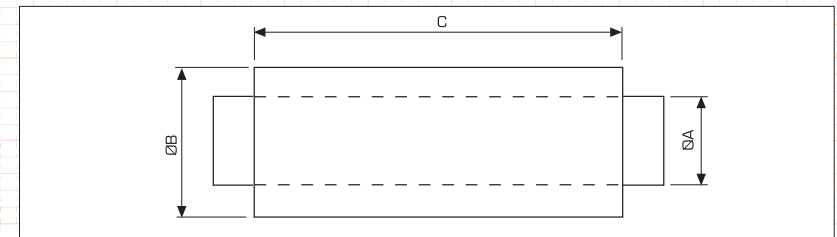
Panel Filter



Electric Heater Battery



Silencer



Note: There are no Panel Filters or Electric Heater Battery for the Mini 100 Unit, if you require these please select a 125mm fan.

| Product Code | Product Number | øA | B | C | D | Weight (kg) | Press. loss Pa @ Mid flow |
|--------------|----------------|-----|-----|-----|-----|-------------|---------------------------|
| WCF-125 | DH125001 | 125 | 200 | 122 | 200 | 3 | 16 |
| WCF-150 | DH150001 | 150 | 200 | 122 | 200 | 2 | 28 |
| WCF-200 | DH200001 | 200 | 245 | 122 | 245 | 3 | 48 |
| WCF-250 | DH250001 | 250 | 295 | 122 | 295 | 4 | 68 |
| WCF-315 | DH315001 | 315 | 345 | 122 | 345 | 5 | 111 |
| WCF-355 | DH355001 | 355 | 395 | 122 | 395 | 6 | 121 |
| WCF-400 | DH400001 | 400 | 445 | 122 | 445 | 8 | 77 |
| WCF-500 | DH500001 | 500 | 600 | 400 | 600 | 20 | 78 |

| Product Code | Product Number | øA | Weight (kg) | Press. loss Pa @ Mid flow | Min Airflow m ³ /s |
|----------------|----------------|-----|-------------|---------------------------|-------------------------------|
| WEHB-125/1kW | DH125051 | 125 | 4 | 5 | 0.03 |
| WEHB-150/1.5kW | DH150051 | 150 | 4 | 15 | 0.04 |
| WEHB-200/2kW | DH200051 | 200 | 6 | 15 | 0.07 |
| WEHB-250/2.5kW | DH250051 | 250 | 7 | 20 | 0.1 |
| WEHB-315/3kW | DH315051 | 315 | 8 | 30 | 0.16 |
| WEHB-355/6kW | DH355051 | 355 | 10 | 30 | 0.2 |
| WEHB-400/9kW | DH400051 | 400 | 11 | 22 | 0.26 |
| WEHB-500/18kW | DH500051 | 500 | 16 | 20 | 0.4 |

| Product Code | Product Number | Acoustic Performance (dB) Octave Band Centre Frequency - Hz | | | | | | Dimensions | | | | |
|--------------|----------------|--|-----|-----|-----|----|----|------------|-----|-----|-----|-------------|
| | | 63 | 125 | 250 | 500 | 1K | 2K | 4K | ø A | ø B | C | Weight (kg) |
| S100 | DH100061 | 3 | 8 | 13 | 25 | 40 | 50 | 40 | 100 | 200 | 600 | 4.8 |
| S125 | DH125062 | 2 | 7 | 12 | 23 | 39 | 47 | 32 | 125 | 225 | 600 | 5.2 |
| S150 | DH150062 | 3 | 4 | 8 | 21 | 37 | 40 | 22 | 150 | 250 | 600 | 6.3 |
| S200 | DH200062 | 2 | 4 | 8 | 20 | 31 | 32 | 20 | 200 | 300 | 600 | 7.5 |
| S250 | DH250062 | 1 | 2 | 6 | 15 | 27 | 25 | 15 | 250 | 355 | 900 | 9.3 |
| S315 | DH315062 | 3 | 3 | 7 | 12 | 17 | 14 | 11 | 315 | 415 | 900 | 12.7 |

Accessories are fitted to units using Solid Duct Fasteners (SDF - Size).

Where Panel Filters/Electric Heater Batteries are required for Mini 100, please use spigot size 125mm (i.e. Mini 125).

Heaters 9kW and above are made of 3kW elements therefore can be connected to 3ø supply.

MiniBox fans now supplied with connection cable and plug & socket for ease of connection.

CDWMBD

Fan

Fan + Transformer Speed Controller

