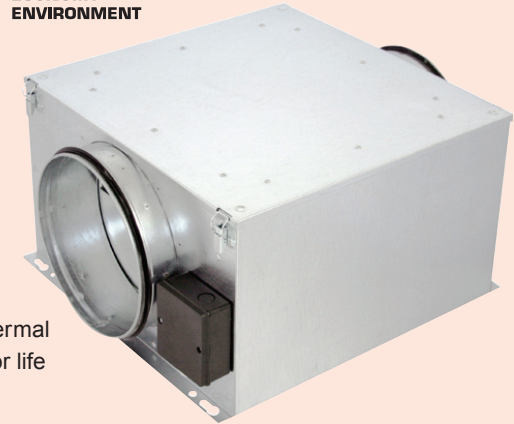


- 125mm - 500mm diameter spigot sizes
- Volume flow up to 1.6m³/s
- Static pressures up to 550 Pa
- Spigots with double lip neoprene seals as standard
- Forward curved impellers
- Acoustically lined box

- Robust construction
- Low noise levels at higher pressures
- Suitable for either horizontal or vertical (air up) mounting
- Operation up to 60°C
- Fitted with terminal box

SingleBox 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 SingleBox unit has been specifically designed to meet these requirements. The SingleBox offers optimum sound installation.

Sizes

Single 125, Single 150, Single 200, Single 250, Single 315, Single 355H, Single 400, Single 500.

Construction

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

SingleBox units have circular inlet and outlet spigots with a double-lip neoprene seal. The units are internally lined with acoustic grade rockwool with an erosion proof facing to prevent the carry over of fibres.

Units are designed for duct mounting within the building, for external mounting (weatherproof) refer to Copford range or contact the Colchester office.

Please note that sizes 315 and 500mm single box fans are supplied with two motors/impellers connected in parallel, to provide a low profile design.

Electrical Supply

220 - 240V / 50Hz / 1 φ

Mounting

Suitable for both horizontal and vertical mounting.

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 40°C and 60°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.

Wiring/Controls

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

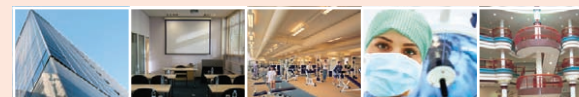
Servicing

The top panel of each unit can be removed for inspection and maintenance. The fan assembly can also be easily removed for cleaning purposes. The units can be inverted if bottom access is required.

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.

Application Guide



SingleBox

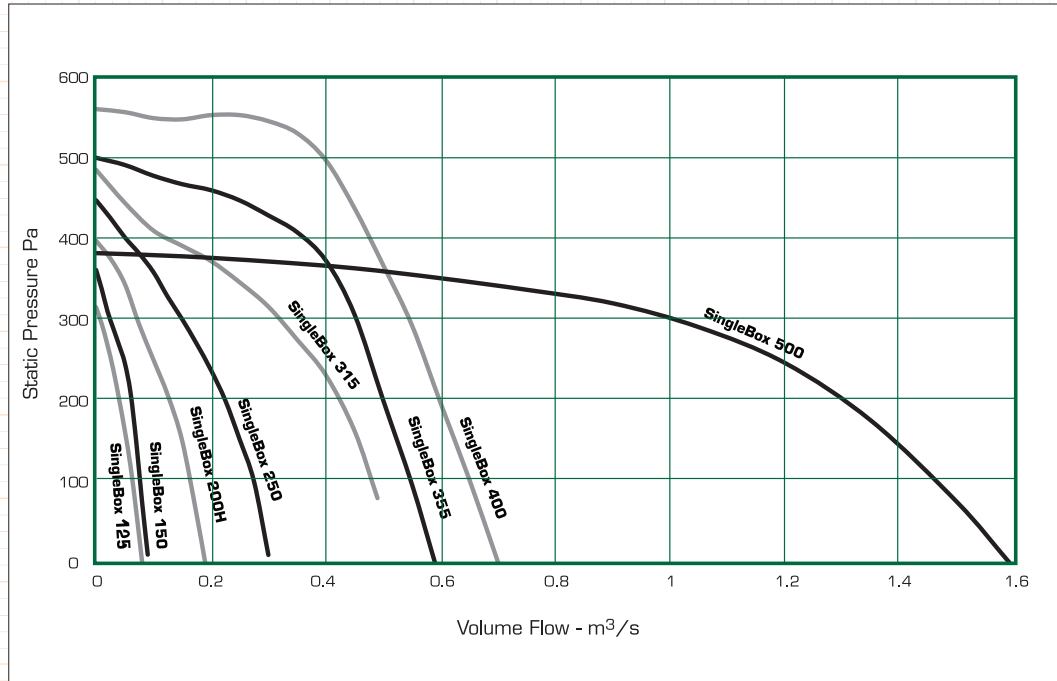
Boxed Fans

Super

XPRESS

Range

Performance Data



Sound Data

Product Code	Sound Power Levels (dB) In Octave Band Centre Frequency - Hz (inlet)							Total dBA @3m
	125	250	500	1K	2K	4K	8K	
Single 125	59	51	45	40	36	33	28	27
Single 150	61	54	45	40	39	36	33	29
Single 200H	68	57	47	45	43	42	41	34
Single 250	69	60	50	45	46	47	44	36
Single 315	69	64	54	52	52	52	49	40
Single 355H	72	65	49	54	51	50	45	40
Single 400	78	66	53	53	53	52	46	44
Single 500	67	72	69	67	68	68	62	40

Electrical Data

Product Code	Speed (rev/min)	Product Number	220-240V/50Hz/1ϕ				m ³ /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				
Single 125	2360	DH125101	0.1	0.46	0.48	CDWSBD	MT1.1.5	0.08	0.072	0.063	0.052	0.04	0.026	0.006								
Single 150	2260	DH150101	0.115	0.5	0.65	CDWSBD	MT1.1.5	0.09	0.084	0.077	0.07	0.062	0.048	0.024	0.004							
Single 200H	2430	DH200102	0.17	0.73	0.85	CDWSBD	MT1.1.5	0.19	0.18	0.17	0.15	0.132	0.10	0.072	0.045							
Single 250	2500	DH250101	0.28	1.25	1.6	CDWSBD	MT1.5	0.30	0.29	0.275	0.25	0.225	0.19	0.15	0.107	0.05						
Single 315	2580	DH315101	0.57	2.52	3.5	CDWSBD	MT1.5	-	0.49	0.48	0.46	0.43	0.38	0.32	0.24	0.12	0.4					
Single 355H	1350	DH355102	0.97	4.4	8.4	CDWSBD	MT1.8	0.59	0.57	0.55	0.52	0.50	0.48	0.45	0.42	0.36	0.23					
Single 400	1320	DH400101	0.98	4.45	8.5	CDWSBD	MT1.8	0.70	0.68	0.65	0.62	0.60	0.57	0.54	0.51	0.48	0.44	0.39				
Single 500	1360	DH500101	1.49	6.52	8.7	CDWSBD	MT1.8	1.60	1.53	1.46	1.39	1.30	1.19	1.00	0.60							

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 69.

Telephone:
01206 222 555

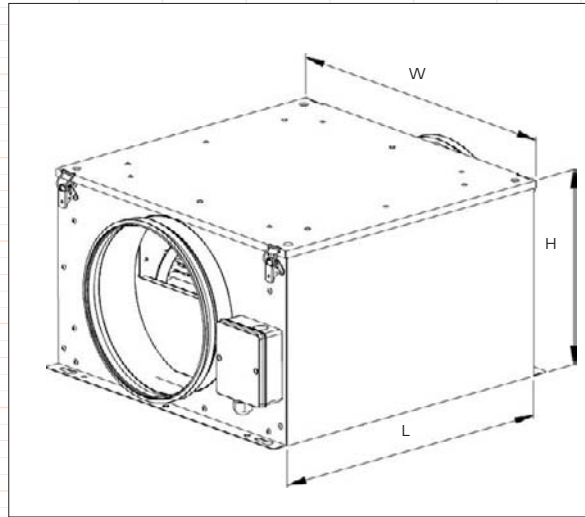
Fax:
01206 222 905

Email:
fans.uk@flaktwoods.com

Express Website:
www.flaktwoods.com/express

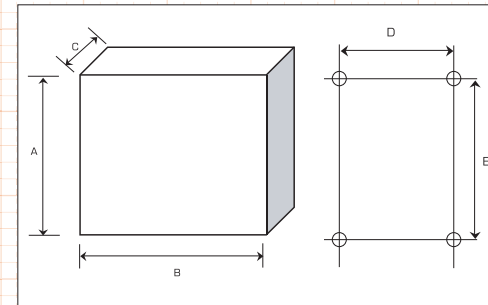
Fan Selector:
www.flaktwoods.com/fanselector

Dimensions



Product Code	L	W	H	Weight (kg)
Single 125	384	383	232	10.95
Single 150	384	383	232	10.8
Single 200H	384	383	286	12.5
Single 250	466	482	287	16.4
Single 315	516	542	386	24.3
Single 355H	656	682	491	43
Single 400	656	682	491	43
Single 500	661	880	587	67.8

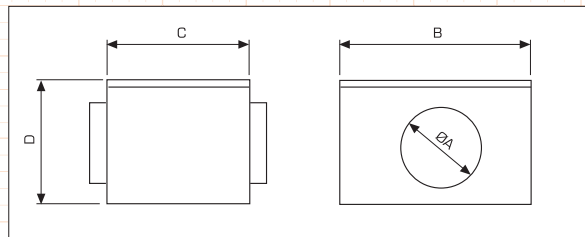
Transformer Speed Controller



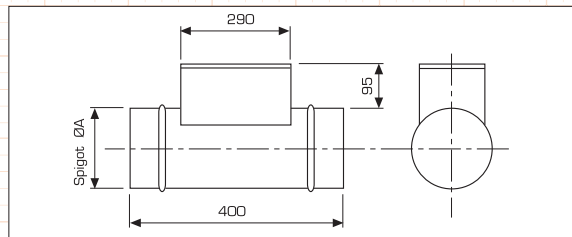
**SingleBox
Boxed Fans**

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
MT1.8	402009	325	300	185	255	255	8

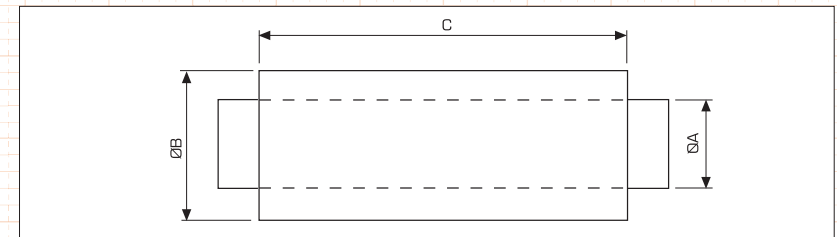
Panel Filter



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	aA	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	aA	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).

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

Wiring Diagrams

SingleBox

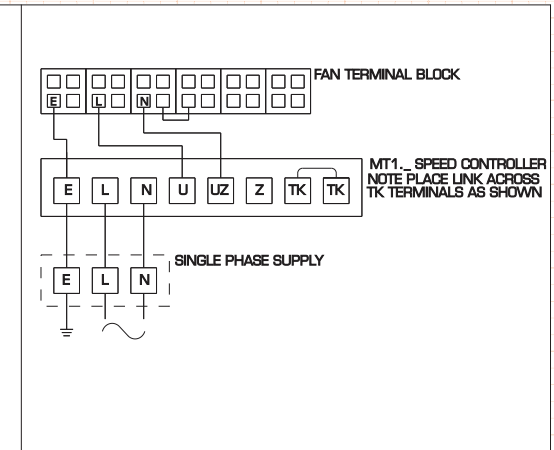
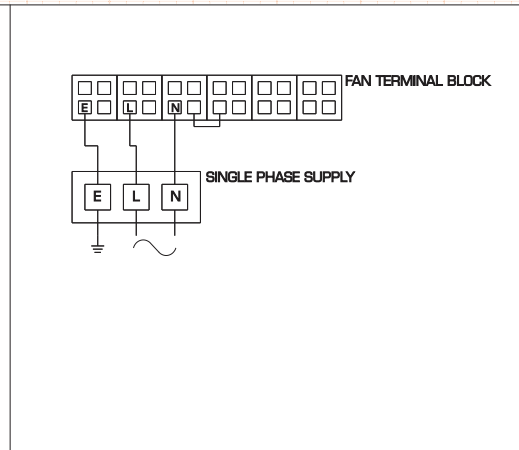
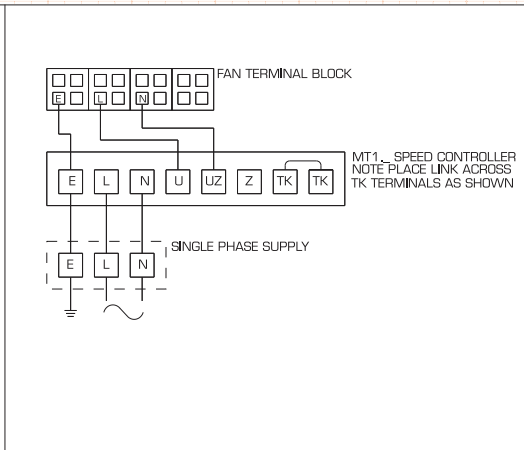
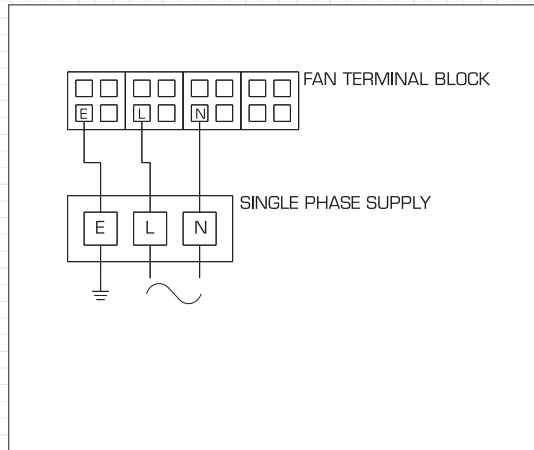
Boxed Fans

CDWSBD

Fan - 125, 150, 200H & 250

Fan + Transformer Speed Controller Fan - 315

Fan + Transformer Speed Controller



Fan - 355H & 400

Fan + Transformer Speed Controller Fan - 500

Fan + Transformer Speed Controller

