

- 400mm - 630mm diameter
- Volume flow up to 7.2m³/s
- Static pressures up to 1000 Pa
- High energy efficiency
- All casings are hot dipped galvanised

- Low installed noise levels
- Motor protection IP55
- Overheat protection fitted as standard
- Inverter controllable on 3φ
- Speed controllable on 1φ and 3φ

Sizes

400mm-630mm MaXfan and 630mm MaXfan Plus

Fan Performance

All fans are tested to the latest internationally recognised standard ISO5801 1997, installation category D for aerodynamic performance and BS848 Part 2 (1985) for acoustic performance.

Impellers

A unique high efficiency aerofoil section blade with a purposely smoothed hub and clamp plate for adjustable pitch angle availability.

The Fläkt Woods impellers are all high pressure die cast to offer thin aerofoil sections for low generation of noise. Every cast aluminium component is X-ray examined using Real Time Radiography prior to assembly.

Motors

All motors are totally enclosed air stream rated class F insulation. Constructed from aluminium as standard with special 'T' slot or pad mounted fixings. Motors are suitable for speed control.

Suitable for horizontal through to vertical shaft operation. Supplied IP55, with removable drain plugs.

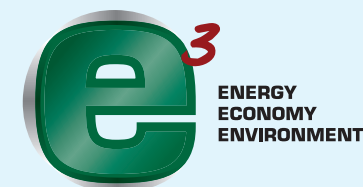
Sealed for life bearings lubricated with wide temperature range grease. Motors are fitted with thermostat overheat protection as standard. Three phase motors are suitable for inverter speed control down to 20% of full speed.

Electrical Supply

220 - 240V / 50Hz / 1φ
380 - 420V / 50Hz / 3φ

MaXfan/MaXfan Plus

Cased Fans



Temperature Range

-40°C to 50°C as standard. (All motors are not suitable for starting at temperatures lower than -20°C.) Fans that include BT or CT motors can be continuously operated at temperatures up to 70°C.

When these fans are operating in excess of 50°C they should be run at full speed only.

Other fans can be operated up to 70°C with appropriate deration of motors.

Casings

MaXfans are available fully cased, complete with an externally mounted pre-wired electrical terminal box. Casings are spun from sheet steel with integral pre-drilled and radiused inlet flanges. The galvanised finish gives a high resistance to corrosion and is ideal for external as well as internal use.

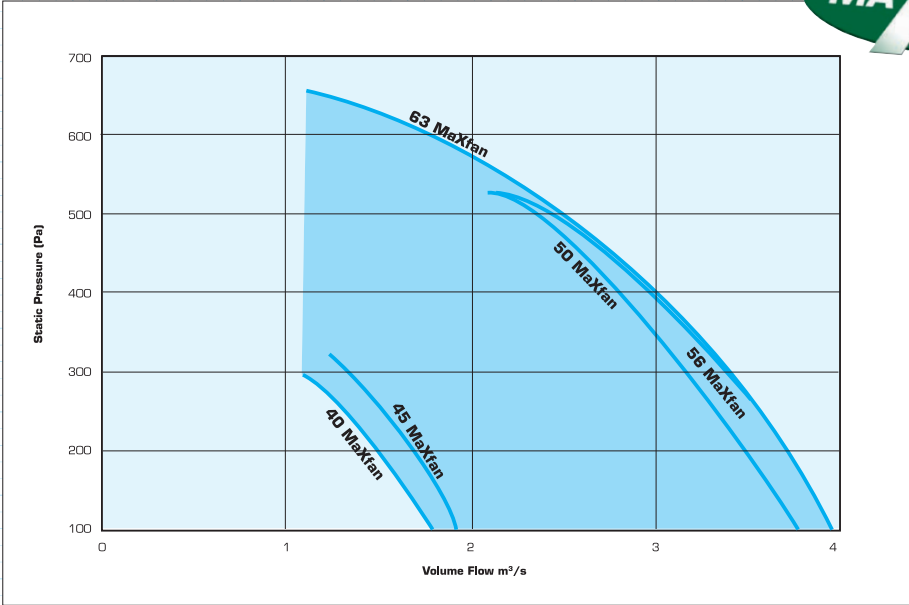
Accessories

Silencers, Mounting feet, Vibration isolators, Matching flanges, Flexible connectors, Air operated non return dampers, Guards, Bell mouth inlets. For a full range please see pages 56-59.

Application Guide



Performance Data



MaXfan
Cased Fans

Super
EXPRESS
Range

Sound pressure levels quoted are average dBA at 3m distance over a sphere, based on form B running under free field conditions, and are presented for comparative purposes only. Cylindrical silencers are available as standard. Bifurcated fans are not suitable for speed regulation.

Bold text denotes Super Express Product, next day delivery available if ordered by 4pm.

Electrical Data

Product Code	Speed rev/min	Motor	Product Number	Motor Rating (kW)	220-240V/50Hz/1 ϕ				Sound Level dBA	m³/s at Pa (Static)					
					Full Load Current (at 230 V) (A)	Starting Current (at 230V) (A)	Wiring Diagram Ref	Speed Controller		100	200	300	400	500	600
40 MaXfan	1410	BT9	EQ411453	0.64	4.4	10	CD1705	ME1.6	67	1.54	1.32				
45 MaXfan	1410	CT5	EQ461467	0.78	5.8	11.2	CD1705	ME1.6	65	1.80	1.56	1.27			
50 MaXfan	1380	CT9	EQ511467	1.94	13.4	27	CD1705	ME1.12	75	2.91	2.67	2.40	2.09		
56 MaXfan	1380	CT9	EQ571460	1.94	13.4	27	CD1705	ME1.12	75	3.29	3.03	2.77	2.36		
63 Maxfan	1380	CT9	EQ641406	1.94	13.4	27	CD1705	ME1.12	78	3.62	3.34	2.98	2.54	2.02	1.08

Wiring diagrams can be found on page 47.

The fan noise levels shown are for the specified operating point. When an electronic controller is incorporated, a magnetic not e (enhanced motor noise) can occur - par ticularly if the fan is operating at speeds well below maximum. For noise sensitive applications FWL recommend using an auto transformer speed controller .

Telephone:
01206 222 555

Fax:
01206 222 905

Email:
fans.uk@flaktwoods.com

Express Website:
www.flaktwoods.com/express

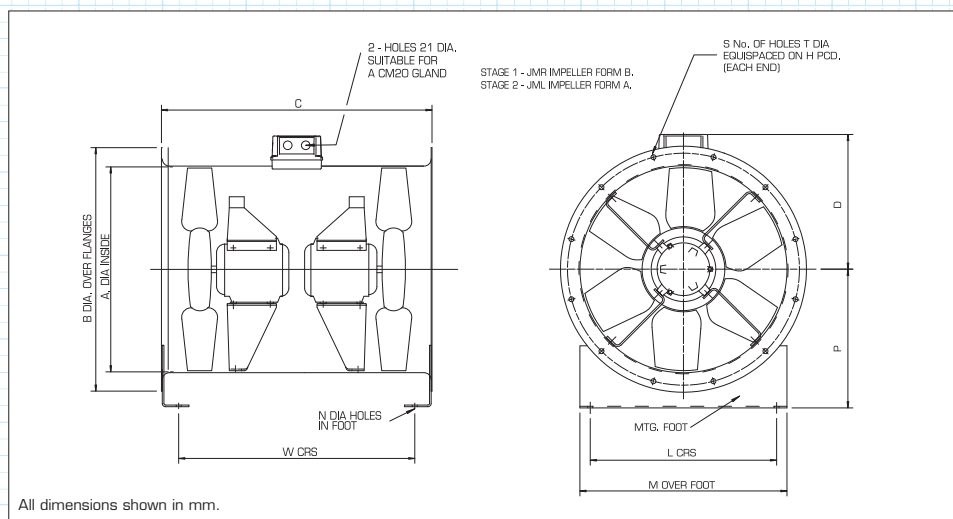
Fan Selector:
www.flaktwoods.com/fanselector

Dimensions

Product Code	Motor	A	B	C	D	H	L	M	N	P	S	T	W	Weight (kg)
40 MaXfan	BT9	400	480	680	279	450	350	400	10	250	8	12	590	38
45 MaXfan	CT5	450	530	620	306	500	400	450	10	280	8	12	530	43
50 MaXfan	CT9	500	594	710	338	560	450	500	10	315	12	12	620	57
56 MaXfan	CT9	560	654	680	368	620	510	560	10	355	12	12	590	61
63 MaXfan	CT9	630	724	710	403	690	580	630	10	400	12	12	624	71

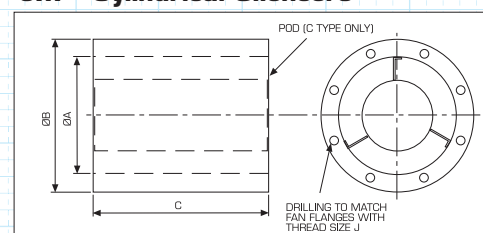


MaXfan Cased Fans



All dimensions shown in mm.

JM - Cylindrical Silencers



Suitable for fan OA	Product Numbers	B	C	J	Weight (kg)	
					B Type	C Type
400	SB241401	500	400	M10	15	18
450	SB251401	600	450	M10	20	24
500	SB271401	650	500	M10	25	29
560	SB281401	710	560	M10	30	35
630	SB301401	780	630	M10	35	42

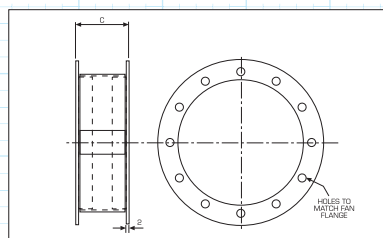
* For C type silencer change prefix from SB to SC

The above silencers give the following approximate dBA reductions:
B Type 1 diameter length - 7 to 10 dBA
For full acoustic details and resistance to air flow for type C see publication SP01.

Bore Dia. mm (D)	Length	Acoustic Performance (dB) - Octave Band Mid Frequency - Hz							
		63	125	250	500	1K	2K	4K	8K
400	1D	2	3	5	10	13	11	9	8
450	1D	2	3	6	12	13	11	10	6
500	1D	2	3	6	13	14	10	10	5
560	1D	2	4	7	14	14	19	10	7
630	1D	2	5	7	15	13	8	9	8

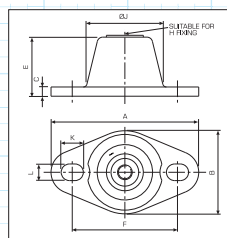
Matching Flanges & Flexible Connector

Suitable for fan OA	Product Numbers		C	Weight (kg)	
	Matching Flange	Flexible Connector		Matching Flange	Flexible Connection
400	DA074913	AS040400	110	1.5	4.5
450	DA501353	AS040450	110	1.7	5
500	DA074914	AS040500	110	2	5.5
560	DA501355	AS040560	110	2.3	6.8
630	DA074915	AS040630	160	3	7.5



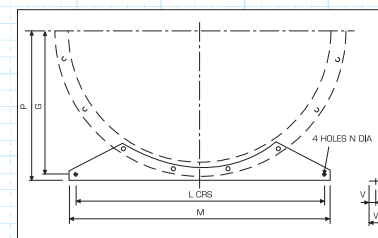
Rubber in Shear Vibration Isolators

Type	Load range per mounting (kg)	Product Number	A	B	C	E	F	H	J	K	L
19.100.Yellow	5-28	DA267336	80	45	5	32	57	M8	41	12	9
19.100.Blue	950	DA267337	80	45	5	32	57	M8	41	12	9



Mounting Feet

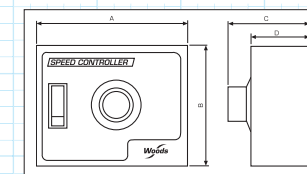
Product Code	Product Number	G	L	M	N	P	T	V	W
400	DA408201	225	350	400	10	250	12	20	60
450	DA408202	255	400	450	10	280	12	20	60
500	DA408203	290	450	500	10	315	12	25	65
560	DA408204	330	510	560	10	355	12	25	65
630	DA243495	375	580	630	10	400	14	25	65



Note:
Flexible Connection weight includes two Matching Flanges.

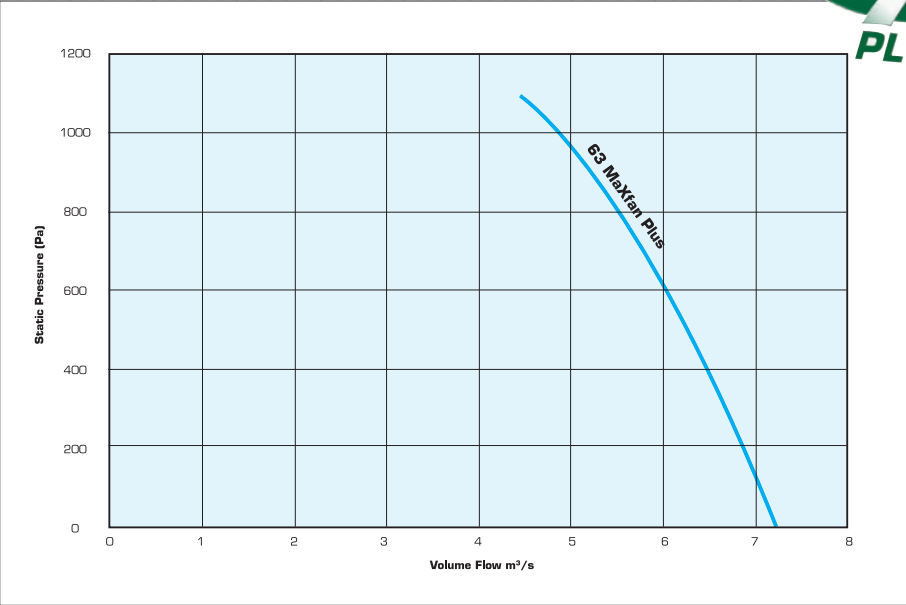
Speed Controller

Type	Product Number	A	B	C	D
ME1.3	DA410290	148	87	62	47
ME1.6	DA410291	148	87	62	47





Performance Data



MaXfan Plus
Cased Fans

Super
XPRESS
Range

Sound pressure levels quoted are average dBA at 3m distance over a sphere, based on form B running under free field conditions, and are presented for comparative purposes only. Cylindrical silencers are available as standard. Bifurcated fans are not suitable for speed regulation.

Bold text denotes Super Express Product, next day delivery available if ordered by 4pm.

Product Code	Speed rev/min	Motor	Product Number	Motor Rating (kW)	380-420V/50Hz/3φ				Sound Level dBA	m³/s at Pa (Static)					
					Full Load Current (at 400V) (A)	Starting Current (at 400V) (A)	Wiring Diagram Ref	Speed Controller		0	200	400	600	800	1000
63 MaXfan Plus	1420	112	EQ661405	8.8	18.6	110	CD1343	FWD7	79	7.21	6.88	6.51	6.03	5.52	4.82

Wiring diagrams can be found on page 47.

The fan noise levels shown are for the specified operating point. When an electronic controller is incorporated, a magnetic not e (enhanced motor noise) can occur - par ticularly if the fan is operating at speeds well below maximum. For noise sensitive applications FWL recommend using an auto transformer speed controller .

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

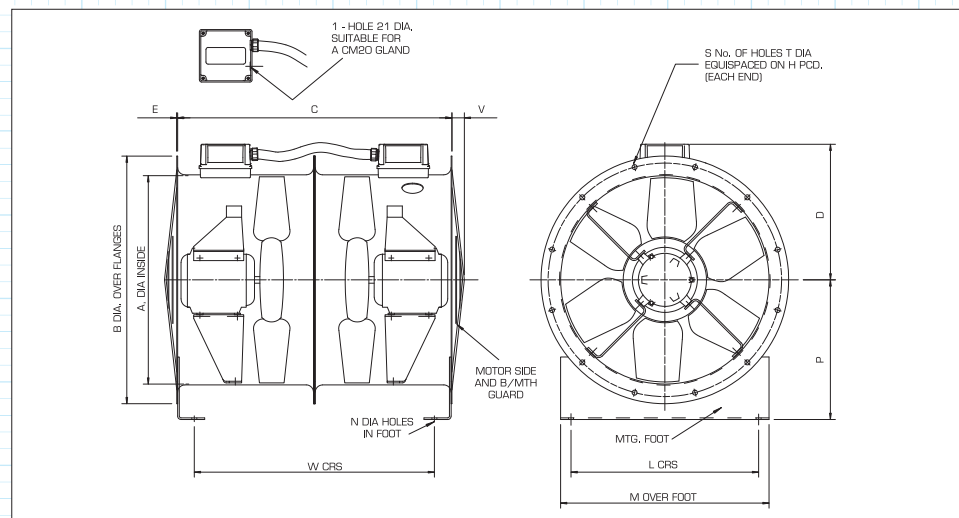
Dimensions

Product Code	Motor	A	B	C	D	E	H	L	M	N	P	S	T	V	W	Weight (kg)
63 MaXfan Plus	112	630	724	1040	403	3	690	580	630	10	400	12	12	50	954	155

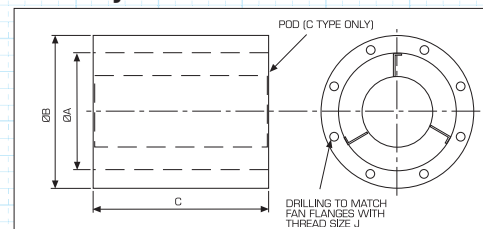


MaXfan Plus

Cased Fans



JM - Cylindrical Silencers



Bore Dia. mm (D)	Length	Acoustic Performance (dB) - Octave Band Mid Frequency - Hz						
		63	125	250	500	1K	2K	4K
630	1D	2	5	7	15	13	8	9

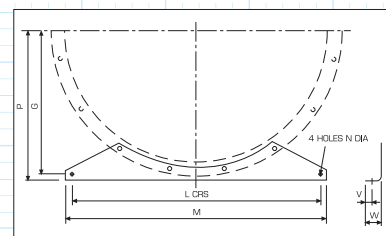
Suitable for fan OA	Product Numbers	B	C	J	Weight (kg)	
					B Type	C Type
630	SB301401	780	630	M10	35	42

* For C type silencer change prefix from SB to SC

The above silencers give the following approximate dBA reductions:
B Type 1 diameter length - 7 to 10 dBA
For full acoustic details and resistance to air flow for type C see publication SP01.

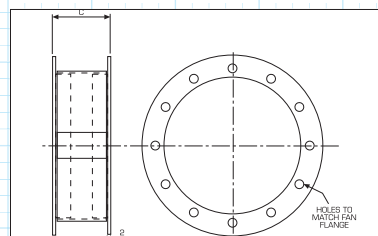
Mounting Feet

Product Code	Product Number	G	L	M	N	P	T	V	W
630	DA243495	375	580	630	10	400	14	25	65



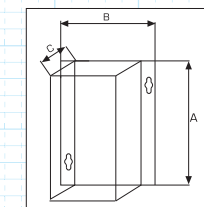
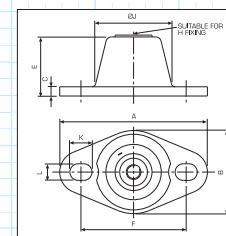
Matching Flanges & Flexible Connector

Suitable for fan OA	Product Numbers		C	Weight (kg)	
	Matching Flange	Flexible Connector		Matching Flange	Flexible Connection
630	DA074915	AS040630	160	3	7.5



Rubber in Shear Vibration Isolators

Type	Max Load per mounting (kg)	Product Number	A	B	C	E	F	H	J	K	L
19.100.Blue	50	DA267337	80	45	5	32	57	M8	41	12	9



Inverter

Type	Product Number	A	B	C	Weight (kg)
FWD7	416522	480	242	260	23

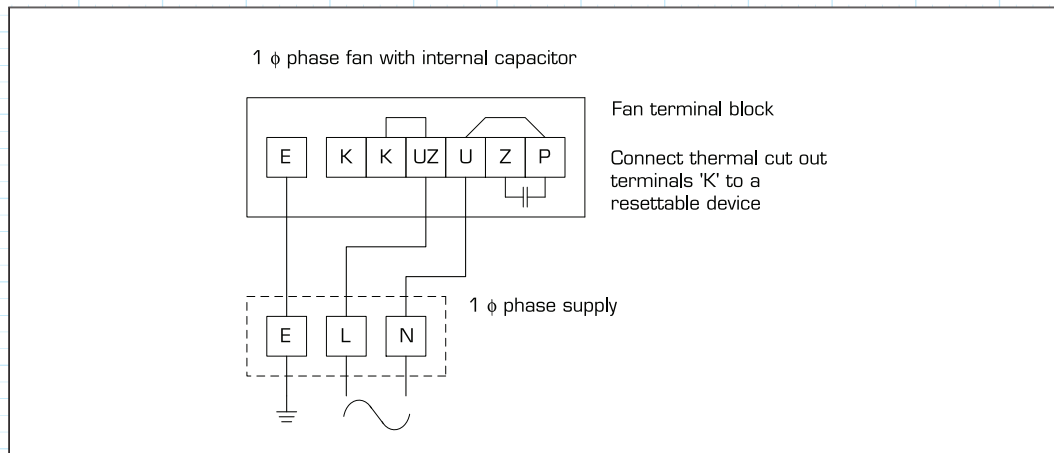
Note: Flexible Connection weight includes two Matching Flanges.

All dimensions shown in mm.

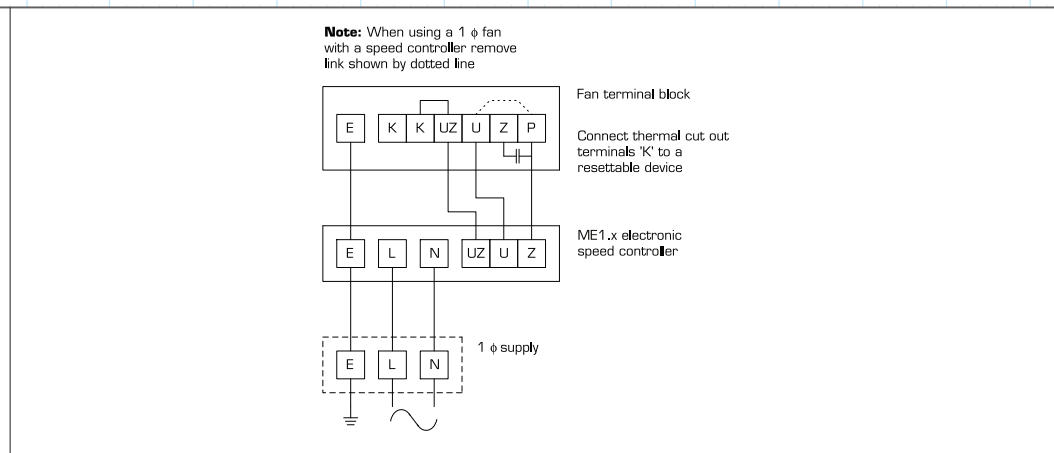
Wiring Diagrams

CD1705

Fan

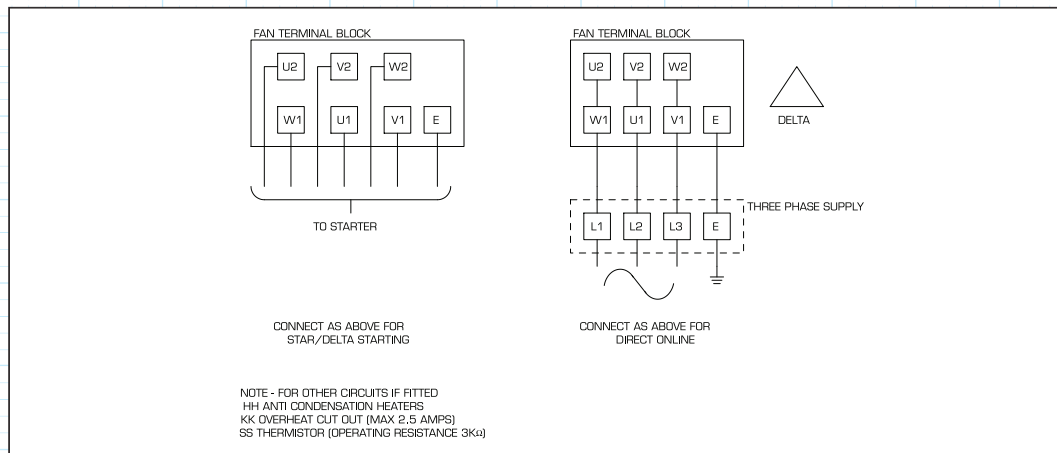


Fan + Electronic Speed Controller



CD1343

Fan



MaXfan/MaXfan Plus

Cased Fans