

HIGH PRESSURE CASED AXIALS - MAXFAN²

FEATURES

- 400 - 630 mm diameter
- Volume up to 7.28 m³/s
- Static pressures up to 1082 Pa
- Fans tested to ISO5801 and BS848
- High energy efficiency
- Low installed noise levels
- Motor protection IP55
- Overheat protection fitted as standard

ELECTRICAL SUPPLY

220-240V/50Hz/1φ
380-420V/50Hz/3φ

TEMPERATURE RANGE

-40°C to 50°C as standard.
BT or CT motors can be continuously operated at temperatures up to 70°C.

SIZES

400, 450, 500, 560 and 630 mm.

IMPELLERS

A unique high efficiency aerofoil section blade with a 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 overheat protection which is provided by a thermostat or thermistor as standard (depending on motor).

CASINGS

MaXfan² 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.



PRODUCT CODE

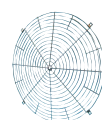
50-1 MaXfan²

- 50 - denotes the fan impeller diameter in centimetres
- 1 - denotes electrical phase
- MaXfan² product type

ACCESSORIES (Pages 77-82) - CONTROLLERS (Pages 219-267)



Damper



Guard



Bellmouth



Flange



Mounting Feet



Rubber AV's



Spring AV's



Flexible Connector



Silencer



Controls Transformer



Controls Electronic



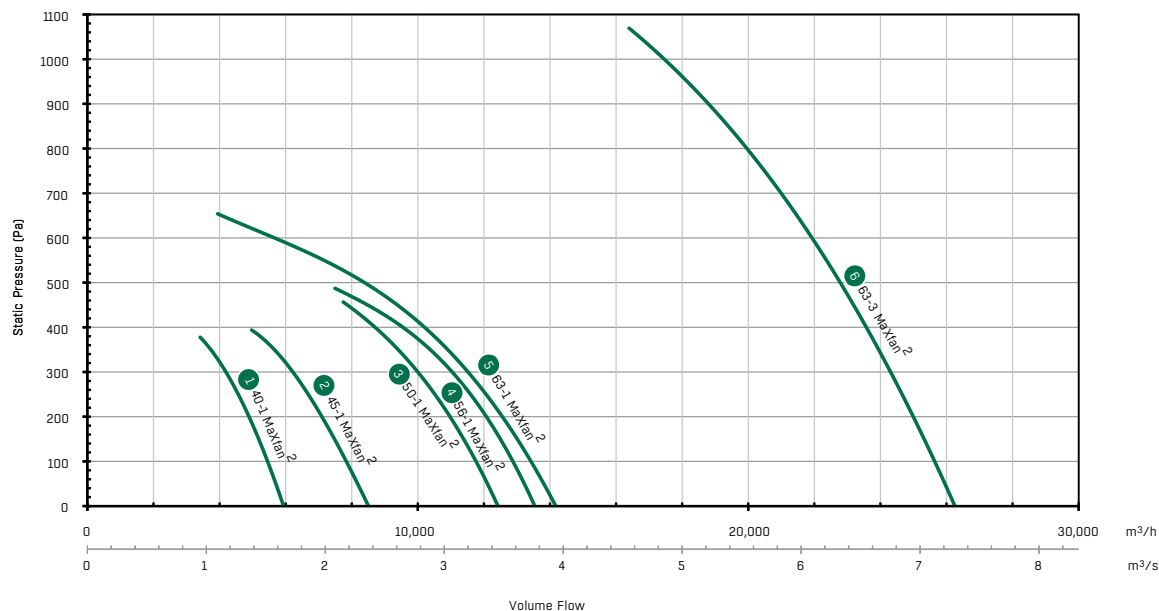
Controls Inverter



MAXFAN² PRODUCT PERFORMANCE & ELECTRICAL DATA

220-240V/50HZ/1 ϕ & 380-420/50HZ/3 ϕ – L TYPE

PERFORMANCE CHART



PERFORMANCE TABLE

Ref	Product Code	m³/s @ Pa (Static)													
		0	50	100	150	200	250	300	400	500	600	700	800	900	1000
1	40-1 MaXfan2/16/4/5/37/30	1.64	1.58	1.51	1.43	1.35	1.26	1.16							
2	45-1 MaXfan2/16/4/5/37/30	2.36	2.27	2.17	2.07	1.97	1.85	1.72							
3	50-1 MaXfan2/16/4/5/42/36	3.45	3.36	3.26	3.16	3.04	2.92	2.77	2.41						
4	56-1 MaXfan2/20/4/6/30/26	3.76	3.67	3.57	3.47	3.35	3.22	3.06	2.65						
5	63-1 MaXfan2/16/4/5/19/18	3.93	3.83	3.72	3.61	3.48	3.35	3.19	2.83	2.33	1.57				
6	*63-3 MaXfan2/25/4/9/40/32	7.28	7.16	7.05	6.95	6.87	6.78	6.67	6.46	6.27	6.01	5.76	5.49	5.2	4.81

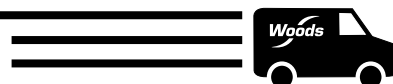
PRODUCT AND ELECTRICAL TABLE

Ref	Product Code	Product Number	Pitch Angle (°)		Speed rev/min	Phase	Motor	Rating (kW) Per Stage	Rating (kW) (Total)	Full Load Current (A) (Total)	Starting Current (A) (Total)	Wiring Diagram	Speed Controller			Sound Levels
			Min	Max									Electronic	Transformer	Inverter	
1	40-1 MaXfan2/16/4/5/37/30	EQ411463	37	303	1420	1	BT9 (IE1)	0.32	0.64	4.4	10.0	CD3027	ME1.6	TEDS 5A	N/A	64
2	45-1 MaXfan2/16/4/5/37/30	EQ461477	37	30	1380	1	CT5 (IE1)	0.52	1.04	7.8	15.6	CD3027	ME1.6	TEDS 5A	N/A	68
3	50-1 MaXfan2/16/4/5/42/36	EQ511467	42	36	1380	1	CT9 (IE1)	0.97	1.94	13.8	27	CD3037	ME1.12	TEDS 13A	N/A	75
4	56-1 MaXfan2/20/4/6/30/26	EQ571460	30	26	1380	1	CT9 (IE1)	0.97	1.94	13.8	27	CD3037	ME1.12/16	TEDS 13A	N/A	76
5	63-1 MaXfan2/16/4/5/19/18	EQ641406	19	18	1350	1	CT9 (IE1)	0.97	1.94	13.8	27	CD3037	ME1.12/16	TEDS 13A	N/A	78
6	*63-3 MaXfan2/25/4/9/40/32	EE661476	40	32	1440	3	112 (IE2)	4.8	9.6	19.4	98.8	ENQ	N/A	N/A	IDDXF54 23	79

For ErP efficiency ratings and grades please refer to our Fan Selector for more information. For speed controllers please see pages 219-267.

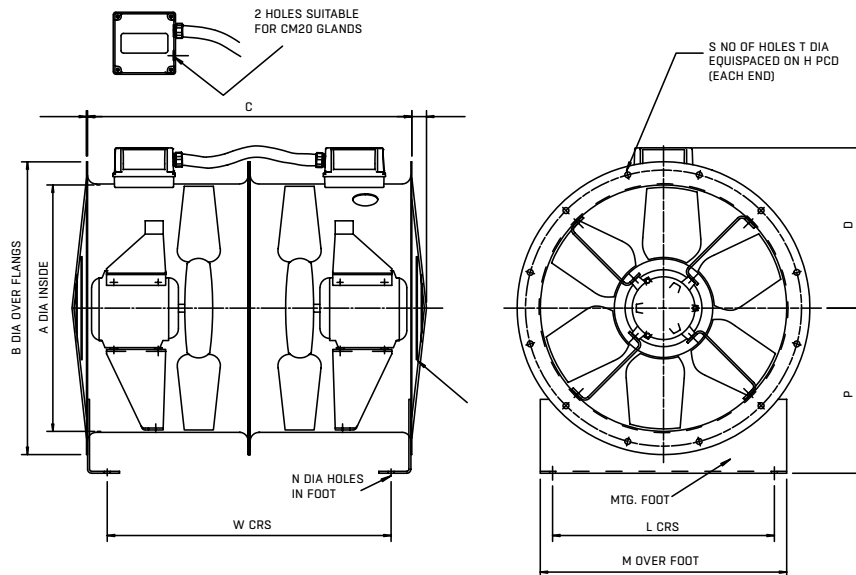
Sound pressure levels quoted are at the inlet, and are average dBA at 3m distance over a sphere at the mid point at the highest angle given, under free field conditions. These are presented for comparative purposes only. *3 phase only.

Products in **bold** are available from our UK Distributors on next day delivery, if ordered by 4pm. Please call to confirm availability on 01206 222 555.



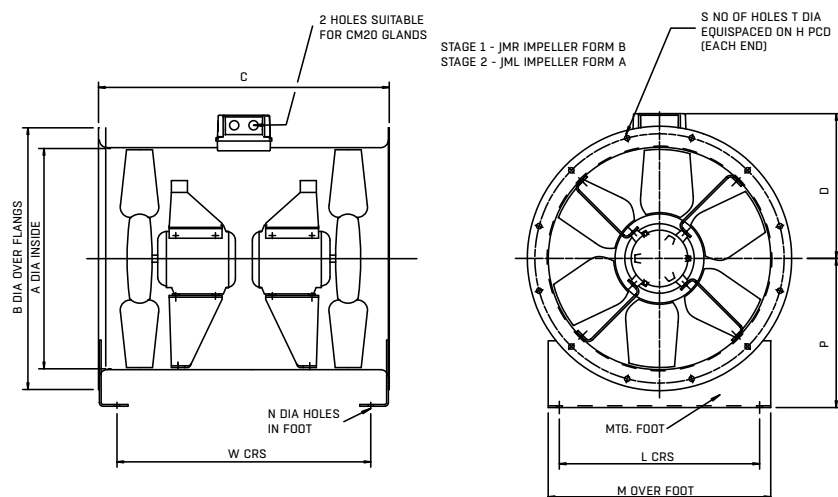
DRAWINGS

MAXFAN² 40-1, 45-1 AND 63-3



Product Code	Motor	A	B	C	D	E	H	L	M	N	P	S	T	V	W	Weight (kg)
40-1 MaXfan ²	BT9	400	480	680	279	2.5	450	350	400	10	250	8	12	30	660	44
45-1 MaXfan ²	CT5	450	530	620	306	2.5	500	400	450	10	280	8	12	30	571	44
63-3 MaXfan ²	112	630	724	1040	403	3	690	580	630	10	400	12	12	50	954	155

MAXFAN² 50-1, 56-1 AND 63-1



Product Code	Motor	A	B	C	D	H	L	M	N	P	S	T	W	Weight (kg)
50-1 MaXfan ²	CT9 (IE1)	500	594	710	338	560	450	500	10	315	12	12	620	57
56-1 MaXfan ²	CT9 (IE1)	560	654	680	368	620	510	560	10	355	12	12	590	61
63-1 MaXfan ²	CT9 (IE1)	630	724	710	403	690	580	630	10	400	12	12	624	71

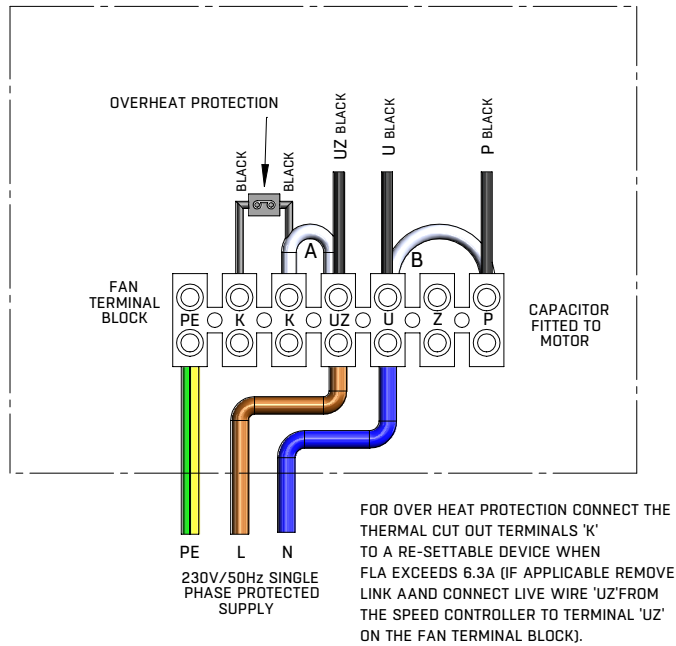
All dimensions in mm.

WIRING DIAGRAMS - MAXFAN²

1 Phase only (3 phase enquire)

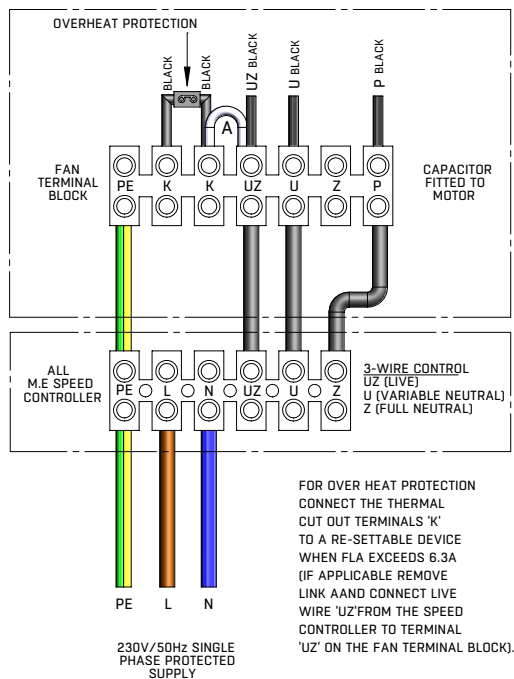
CD3037 - 500-630 MAXFAN²

SINGLE PHASE FAN
WITH INTERNAL CAPACITOR
AND OVERHEAT PROTECTION



FAN CONNECTED TO SUPPLY (FULL SPEED)

CD3037 - 400-630 MAXFAN² (ME SPEED CONTROLLER)

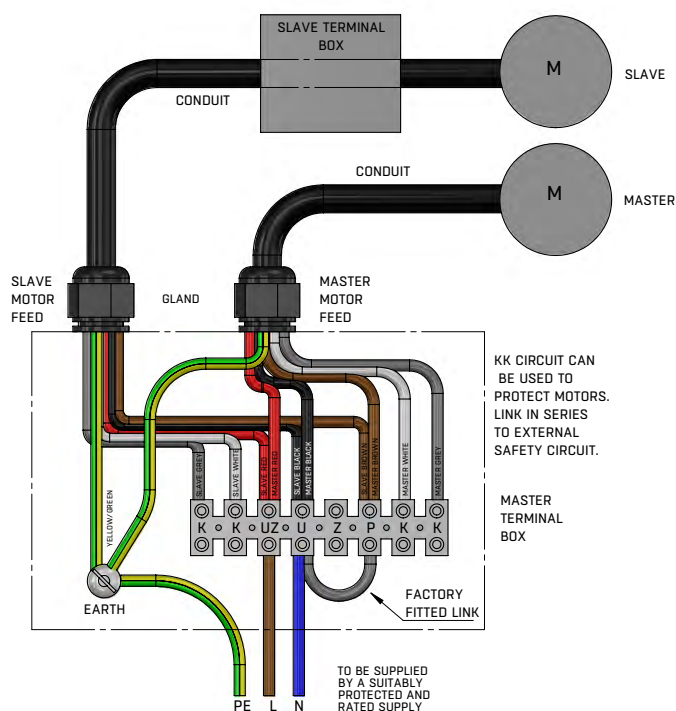


FAN CONNECTED TO SPEED CONTROLLER (VARIABLE SPEED)

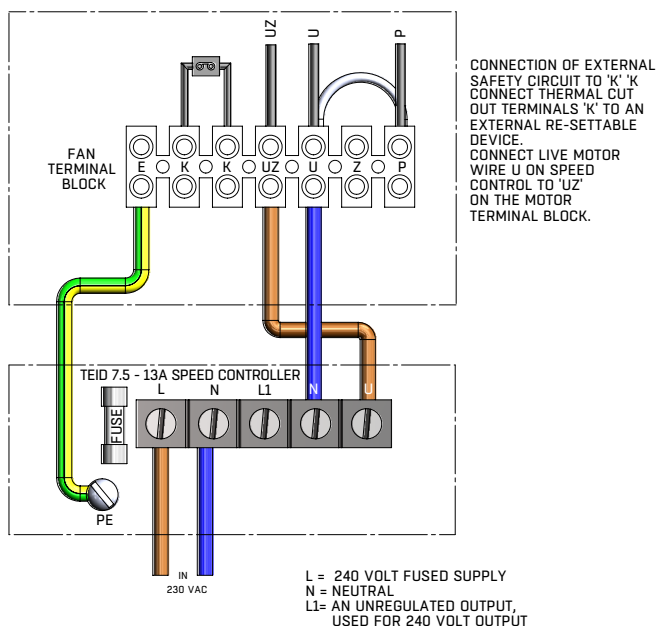
WIRING DIAGRAMS - MAXFAN²

1 Phase only (3 phase enquire)

CD3027 - 400-450 MAXFAN²



CD3034 - 400-630 MAXFAN² (TEID SPEED CONTROLLER)



ALSO AVAILABLE FROM THE **WOODS** RANGE



**JMv
Aerofoil**



MaXfan²



**JM
Aerofoil**



**HT JM
Aerofoil**



**JM
Bifurcated**



Series 33



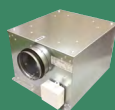
Plate Fans



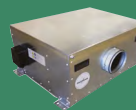
**Cased &
Plate Axial
Accessories**



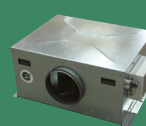
Tube Fans



**Sabina EC
Box Fans**



**Daisho AC
Box Fans**



**Daisho EC
Box Fans**



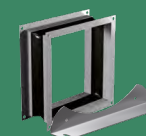
Estoc



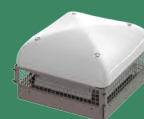
Estoc Targe



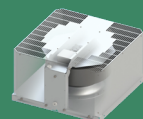
Estoc EC



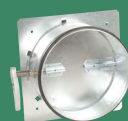
**Tube & Box
Accessories**



**Roof Units
Horizontal**



**Roof Units
Vertical**



**Fire
Dampers**



**Iris
Dampers**



Fire Valves



**Valves
Supply KE**



**Valves
Extract KK**



**Valves
Exhaust
VEFS**



**Nozzles DK
& DR**



**Louvres/
Cowls
EYMA and
DYMA**



**External
Louvres
USAV**



Controllers

Selected products available from our UK Distributors on next day delivery, if ordered by 4pm. Please call 01206 222 555 for more information.

