

BIFURCATED AXIAL FANS

Univent Bifurcated axial fans are quality, direct motor driven units specially developed for handling hostile air conditions.

Hot, dust laden air, corrosive fumes, or gases can all be handled, although detailed specifications should be discussed with Univent at the time of selection. The units are designed, so that the air throughput totally by-passes the motor, avoiding any detrimental effect to the motor life. Two alternative model ranges and temperature options are available with cylindrical or conical cases.

Cylindrical Range

400 to 1250mm diameter

Univent cylindrically cased bifurcated axial fans, are available in a wide selection of impeller diameters and speeds and have a single entry motor tunnel into the fan casing. The motor tunnel must be either mounted with its opening vertically upwards, or horizontal to ensure adequate motor cooling.

NB. When ordering, please specify standard, or high temperature model.

- n 9 impeller sizes
- n Wide selection of air performances
- n 2 temperature options
- n 50Hz and 60Hz operation



Standard	High Temperatures
150°C	200°C

Conical Range

315 to 630mm diameter

Univent conical bifurcated axial units have a special, conically profiled fan casing to maximise the available space and size of drive motor for a given impeller diameter, without causing undue restriction of airflow. High motor outputs and therefore fan performances are achieved. The motor tunnel traverses the fan casing, with entry from either side.

NB. When ordering, please specify standard, or high temperature model.

- n 5 impeller sizes
- n Higher pressure and airflows
- n 2 temperature options
- n 50Hz and 60Hz operation



Standard	High Temperatures
150°C	250°C

Special Options

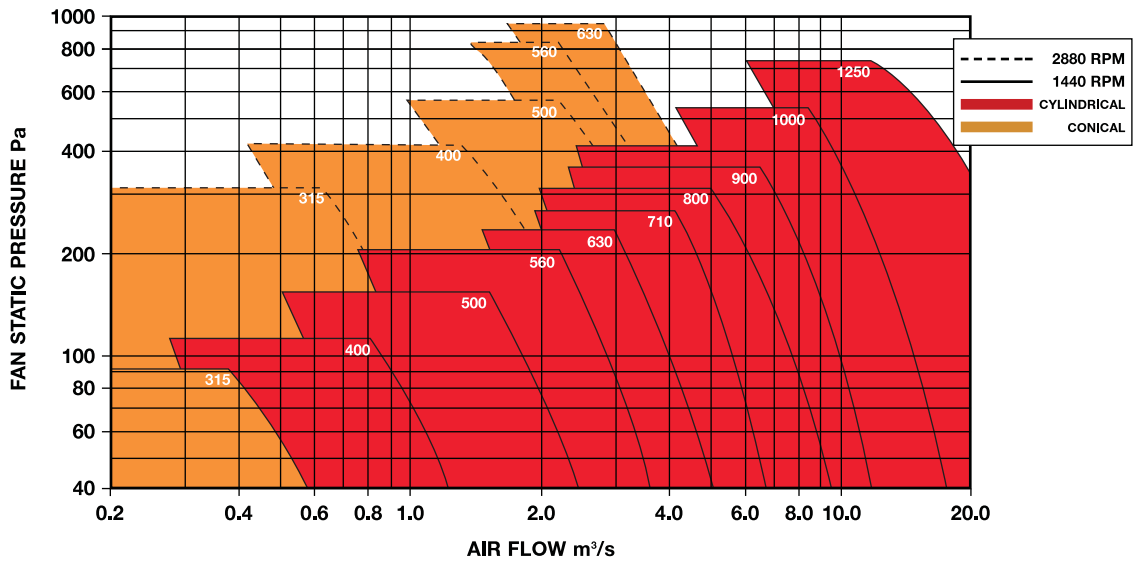
Alternative versions of both products are available to special order including:

- n Painted finish in polyester (colour to suit)
- n Stainless steel construction
- n BASEEFA, or other 'flame proof' approved motors
- n Emergency fume extract models, up to 400°C, short duration

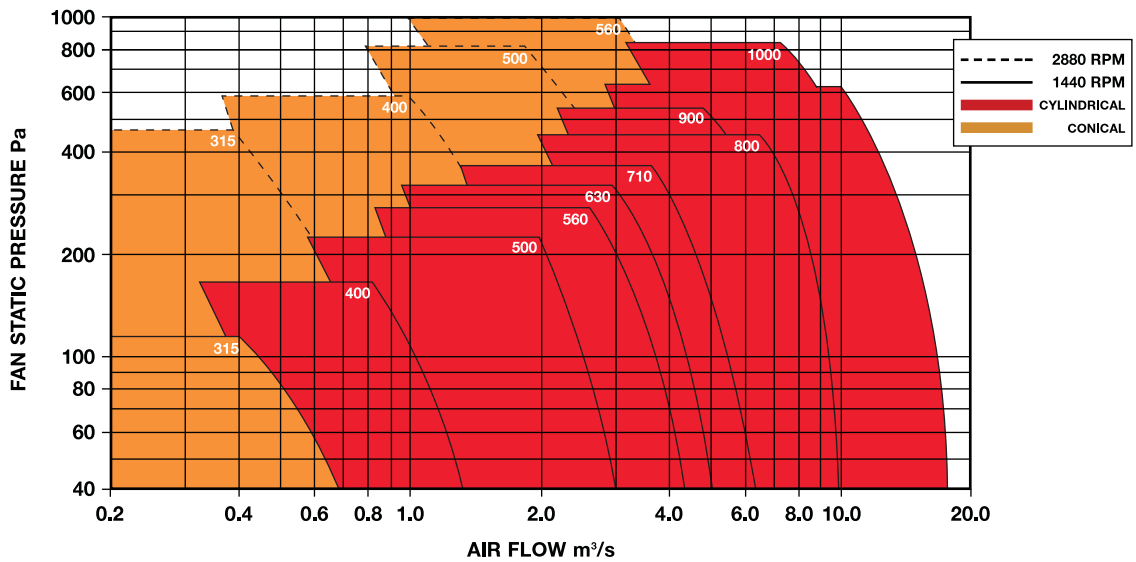
Airflow Performance

For alternative selections please discuss with Univent

50Hz



60Hz



Accessories

Full details of accessories are available in the standard axial catalogue Univent

- ▢ Flanges
- ▢ Inlet cones
- ▢ Flexible collar and clips
- ▢ Anti-vibration mounts
- ▢ Mounting feet
- ▢ Non-return dampers
- ▢ Wire guards

General Specification

Electrical Inputs

380/415V - 3ph - 50Hz or 440/460V - 3ph - 60Hz

N.B. Single phase 220/240V models available for the smaller impeller versions - details on request.

Material and Finish

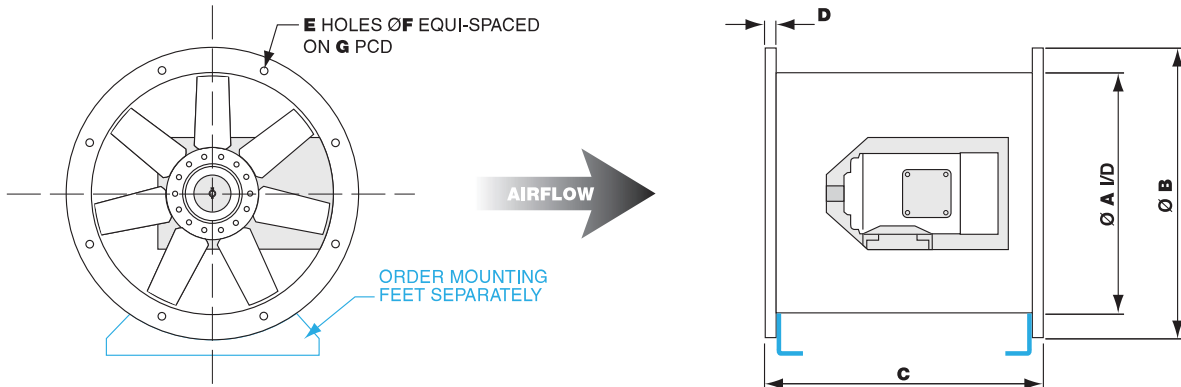
Impeller: Aluminium, adjustable pitch

Casing: Steel fabricated and welded, hot dipped galvanised; with shaft seal

Motor: Quality, standard metric motor (TEFC)

Dimensional Details

Cylindrical Range

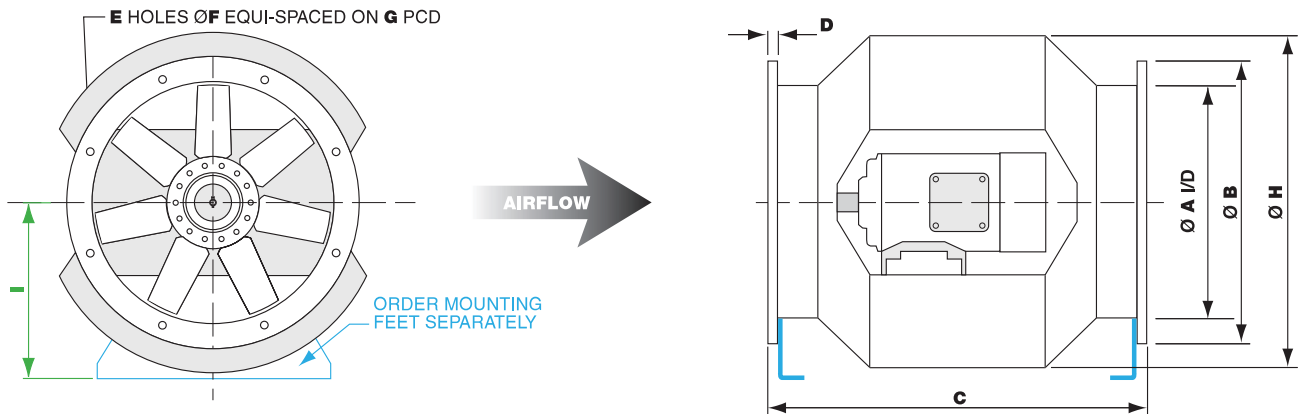


A	MOTOR FRAME*	B	C	D	E	F	G	WEIGHT KGS	ANTI-VIBRATION MOUNT
400	71/80	475	450	3.0	8	12	450	27/32	S2B
500	71/80/90	585	450/450/570	3.0	12	12	560	41/45/56	S2
560	71/80/90/100	645	450/450/570/570	3.0	12	12	620	48/52/63/70	S2
630	80/90/100/112	715	450/570/570/570	3.0	12	12	690	59/72/78/86	S2/S2/S2G/S2G
710	90/100/112	795	570	3.0	16	12	770	74/81/91	S2G/S2G/S2Y
800	90/100/112/132	885	570/570/570/710	3.0	16	12	860	80/86/96/134	S2G/S2Y/S2Y/S3B
900	112/132	1000	570/710	4.0	16	15	970	134/175	S3B
1000	112/132/160	1100	590/790/840	4.0/5.0/5.0	16	15	1070	147/196/287	S3B/S3G/S3G
1250	132/160/180	1350	790/840/1000	5.0	20	15	1320	239/326/491	S3G

* Motor frame selection depends on air performance selected - please discuss with Elite

ALL DIMENSIONS IN mm

Conical Range



A	MOTOR FRAME*	B	C	D	E	F	G	H	I	WEIGHT KGS	ANTI-VIBRATION MOUNT
315	71	380	500	3.0	8	10	355	460	250	25	S2B
400	90	485	650	3.0	8	12	450	570	305	45	S2
500	100/112	585	710	5.0	12	12	560	700	370	64/74	S2
560	112/132	645	710/790	5.0	12	12	620	760	420	81/102	S2G/S2Y
630	132	715	790	5.0	12	12	690	880	460	107	S2Y

* Motor frame selection depends on air performance selected - please discuss with Elite