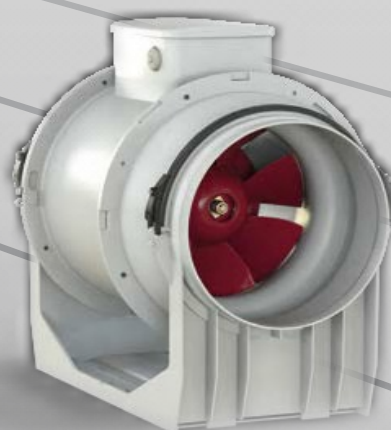


Fan Movement **Product Catalogue**



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

Contents

Section A - Inline Fans

Section B - Silent Fans

Section C - Window, Wall and Ceiling Fans

Section D - Cased Axial Fans

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Section G - Roof Fans

Section H - Centrifugal Fans

Section I - Domestic and Commercial Fans

Section J - Cooling Fans

Section K - Fire Smoke Fans

Section L - Atex Fans

Section M - Side Channel Blowers

Section N - Centrifugal Fans - Howden



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

Section A _ Inline Fan

New Lineo

CDC

VFC



Section B _ Silent Fan

New Lineo Quiet

KSB Boxed Fan



TT - Silent



Section C Window , Wall Ceiling Fan

Punto



Punto Filo



Vario



VP Ceiling Mounted



Airflow



VCN



Section D Cased Axial Fan

HCT



Majax-2 Bifurcated



Majax-2 Belt drive



Majax-2



Max flo

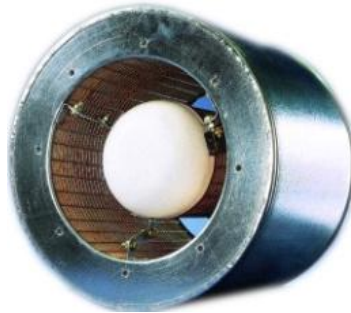


Section E Sound Attenuation

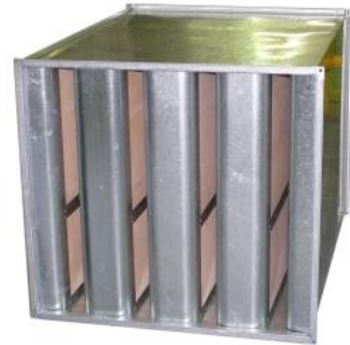
Sonax



Silax



PGL



Section F Plate Mounted Fan

Bellax



HCD

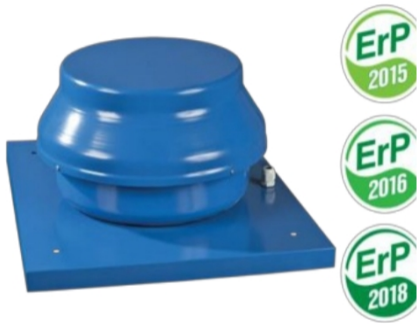


HC



Section G Roof Fan

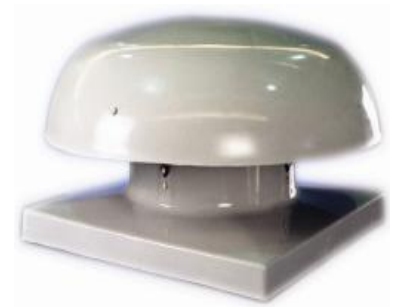
VKMK



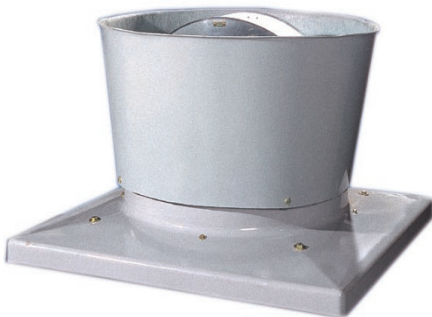
HV J2S



UV



HVJ-2



UV-VJ



Section H – Centrifugal Fans

CMA



HPLV



CMP



CAM



CAS



CPV



CA



AT SC



RB2 6A



Section I : Domestic Commercial Fans

Tiracamino



Dehumido



HV



KP Clean Pack



Section J - Cooling Fans

Airmax



HTM



Section K Fire Smoke Ventilation

Fumax



Circular Jet - O



Circular Jet - C



Centrifugal Jet



Section L - ATEX Fan

HCDF



HDF



C Series



E Series



Majax-2



Section M – Blowers

FPZ



Section N – Centrifugal Fans – Industrial / Commercial / HVAC

BCC



BCC-2



HBC-M, N, S



HRB-M, N, S



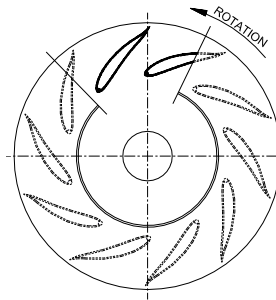
MRB



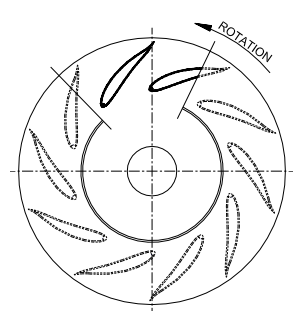
RTF



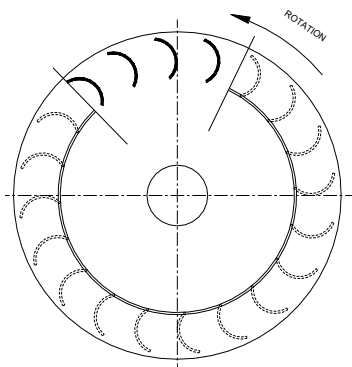
BAC (SI & DI)



NBA (SI & DI)



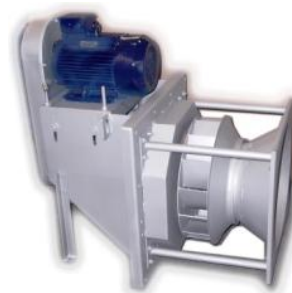
FCC (SI & DI)



LFC



Plug Fans



Section A - Inline Fans

New Lineo



CDC



VFC





FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

NEW

LINEO RANGE

In-line mixed flow fans



NEW

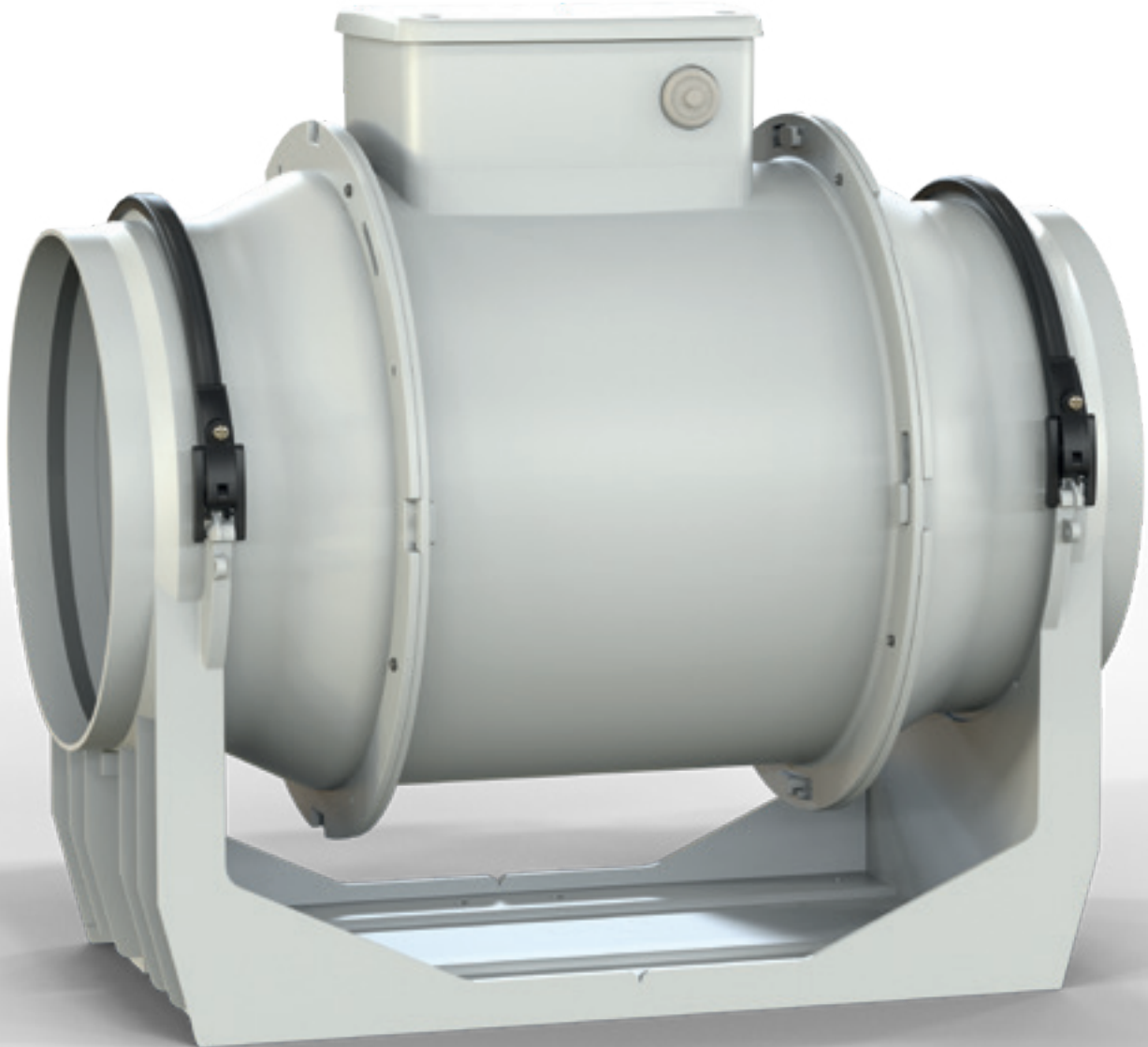
LINEO RANGE

In-line mixed flow fans

LINEO

products are fitted with multi speed induction motors.

THE BEST COMPROMISE AMONG
PERFORMANCE, POWER CONSUMPTION
AND NOISE EMISSION.



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Unit 10, Prolecon Park
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EASY AND FLEXIBLE INSTALLATION

KEY FEATURES

- Complete range, 26 models with a nominal diameter between 100 mm and 315 mm, 18 equipped with AC motors and 8 equipped with brushless EC motors.
- With or without timer and silenced.
- Flexibility and ease of installation ideal for your specific performance-related requirements, consumption, needs and operating costs.

LINEO 315

LINEO 250

LINEO 200

LINEO 160

LINEO 150

LINEO 125

LINEO 100



**FAN
MOVEMENT**

AIR AND GAS MOVEMENT SOLUTIONS

easy

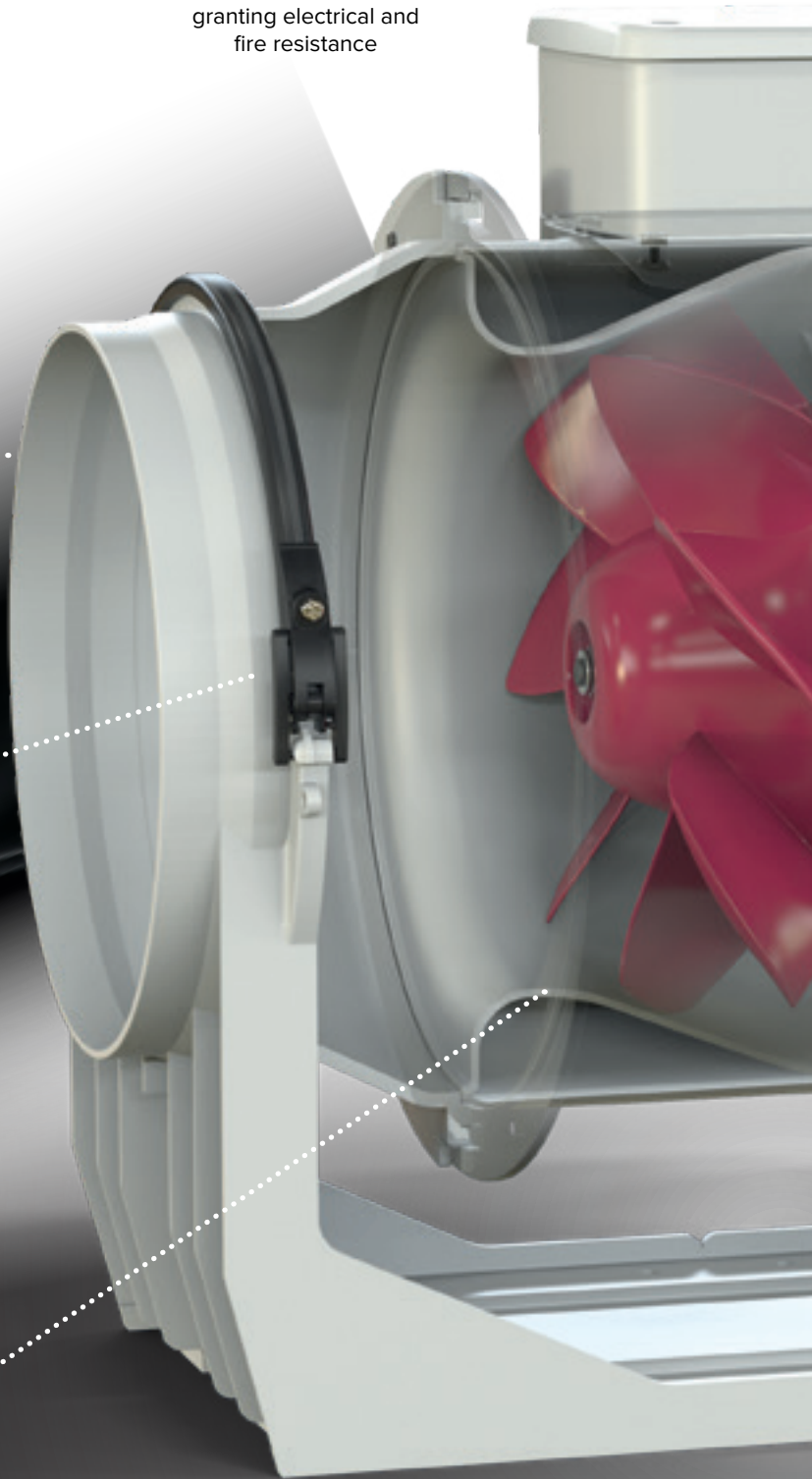
MAINTENANCE

ELECTRIC BOX

Produced in a material
granting electrical and
fire resistance

INLET NOZZLE

Dimensioned to sustain
the product in the wall and
ceiling installation



DIVERGENT ELEMENT

It helps the impeller to increase
the performance



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**FAN
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AIR AND GAS MOVEMENT SOLUTIONS

NEW

LINEO RANGE

In-line mixed flow fans

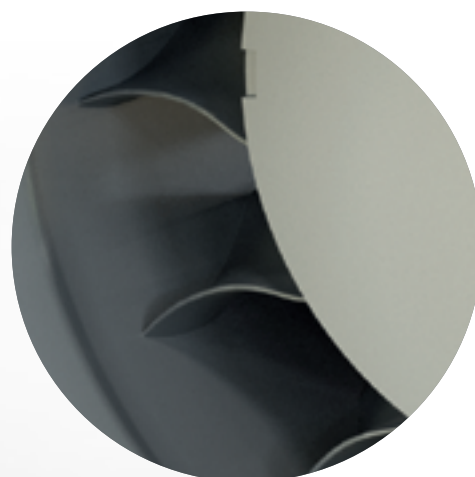


IMPELLER

Designed to reach the ERP efficiency levels

PROTECTIVE COVER

It corrects the airflow after the impeller and the rectifier, avoiding energy losses due to vortices



OUTLET NOZZLE

Dimensioned to sustain the product in the wall and ceiling installation

RECTIFIER BLADES

Designed with the impeller to rectify the airflow and avoid flow problems on the downstream part of the product



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FAN MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS



LINEO RANGE NEW

In-line mixed flow fans equipped with AC motors

TECHNICAL AND PERFORMANCE DATA - LINEO*

Models	Code	V ~ 50/60HZ	W min/max	A min/max	RPM min/max	Max Airflow		Max Pressure		Sound Pressure Lp dB (A)**	Protecion grade***	Max °C	KG
						m³/h min/max	l/s min/max	mmH₂O min/max	Pa min/max				
LINEO 100	17144	220-240	20	0.09	1520	180	50	13	127.5	30.7	IP44	60	1.8
LINEO 100 T	17185		23	0.11	2030	255	70.8	16.5	161.9	39.4			
LINEO 100 Q	17143	220-240	12	0.05	1860	155	43.1	6.5	63.8	29.4	IP44	60	1.8
LINEO 100 Q T	17184		15	0.9	2450	200	55.6	7.5	73.6	37.9			
LINEO 125	17145	220-240	25	0.11	1570	250	69.4	13	127.5	33.9	IP44	60	1.8
LINEO 125 T	17186		33	0.15	2140	365	101.4	17	166.8	43			
LINEO 150	17146	220-240	40	0.18	1580	385	106.9	21	206	41.4	IP44	60	2.5
LINEO 150 T	17187		58	0.26	2100	550	152.8	27	264.9	50.5			
LINEO 160	17147	220-240	40	0.18	1580	385	106.9	21	206	41.7	IP44	60	2.8
LINEO 160 T	17188		58	0.26	2100	550	152.8	27	264.9	50.8			
LINEO 200 Q	17148	220-240	45	0.22	1780	700	194.4	13	127.5	39.6	IP44	60	4.3
LINEO 200 Q T	17189		75	0.37	2740	950	263.9	29	284.5	49.0			
LINEO 250 Q	17149	220-240	85	0.40	1850	720	200	34	333.5	49.1	IP44	60	5.9
LINEO 250 Q T	17197		110	0.50	2550	990	275	53	519.9	56.2			

* All data refered to supply at 50 Hz

** Calculated in free field conditions at 3 m distance

*** Protection refered to ducted units

	Models	Code	V ~ 50 HZ	W min/med/ max	A min/med/ max	RPM min/med/ max	Max Airflow		Max Pressure		Protecion grade***	Max °C	KG
							m³/h min/med/max	l/s min/med/max	mmH₂O min/med/max	Pa min/med/max			
NEW	LINEO 200	17180	220 - 240	80	0.34	1925	815	226.4	21.5	210.9	IPX5	50	4,9
NEW	LINEO 200 T	17177		95	0.42	2450	1025	284.7	27.3	267.7			
				110	0.49	2710	1135	315.3	30	294.2			
NEW	LINEO 250	17181	220 - 240	90	0.41	1500	725	201	13.9	136.5	IPX5	50	5,3
				120	0.54	2240	1145	318	29	284.4			
				145	0.63	2730	1440	400	37.2	364.8			
NEW	LINEO 315	17182	220 - 240	190	1.14	1770	1590	442	27.1	265.8	IPX5	50	9,5
				260	1.57	2300	2115	588	42.2	413.9			
				360	1.60	2690	2590	719	55.4	543.3			

SUOND LEVELS - LINEO 200 - 250 - 315

Models	Code	SOUND POWER Lw dB (A)								
		INTAKE			SUPPLY			BREAKOUT		
		min	med.	max	min	med.	max	min	med.	max
LINEO 200	17180	80	86.4	89.5	78.6	74.9	88.2	57.4	63.7	67.5
LINEO 200 T	17177									
LINEO 250	17181	73.6	83.3	88.2	72.2	81.7	86.4	52.4	60	64
LINEO 315	17182	82.6	88.7	92	82	88.2	91.8	60.1	66.3	69.5

Models	Code	SOUND PRESSURE LP dB(A)*								
		INTAKE			SUPPLY			BREAKOUT		
		min	med.	max	min	med.	max	min	med.	max
LINEO 200	17180	62.5	68.8	72	61.1	67.4	70.7	36.9	43.1	46.9
LINEO 200 T	17177									
LINEO 250	17181	56.1	65.8	70.7	54.6	64.2	68.8	31.9	39.5	43.5
LINEO 315	17182	65	71.1	74.5	64.5	70.6	74.2	39.6	45.8	49

* Calculated in free field conditions at 3 m distance



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AIR AND GAS MOVEMENT SOLUTIONS

NEW

LINEO RANGE

In-line mixed flow fans equipped with AC motors

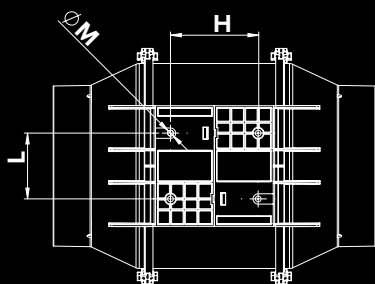


DIMENSIONS - LINEO

Models	Code	A	B	C	Ø D	E	F	G	H	L	Ø M	N
LINEO 100	17144	188.5	211	303	96	101.5	189	90	60	80	5.5	-
LINEO 100 T	17185	188.5	211	303	96	101.5	189	90	60	80	5.5	-
LINEO 100 Q	17143	156	174	231	96	82	152	95	51.5	47.5	4.5	-
LINEO 100 Q T	17184	156	174	231	96	82	152	95	51.5	47.5	5.5	-
LINEO 125	17145	188.5	211	258	122	101.5	189	90	60	80	5.5	-
LINEO 125 T	17186	188.5	211	258	122	101.5	189	90	60	80	5.5	-
LINEO 150	17146	214.5	234	294	146	112.5	212	110	60	80	5.5	-
LINEO 150 T	17187	214.5	234	294	146	112.5	212	110	60	80	5.5	-
LINEO 160	17147	214.5	234	272.5	156	112.5	212	110	60	80	5.5	-
LINEO 160 T	17147	214.5	234	272.5	156	112.5	212	110	60	80	5.5	-
LINEO 200	17180	270	373	396	194.5	195	330	190	120	155	5.5	-
LINEO 200 T	17177	270	373	396	194.5	195	330	190	120	155	5.5	280
LINEO 200 Q	17148	234.5	266	300	196	125.5	235	140	94	100	5.5	-
LINEO 200 Q T	17189	234.5	266	300	196	125.5	235	140	94	100	5.5	-
LINEO 250	17181	300	378	322	243	190	329	200	70	170	5.5	174.5
LINEO 250 Q	17149	300	322	385	247	152.5	292	176.5	140	145	5.5	-
LINEO 250 Q T	17189	300	322	385	247	152.5	292	176.5	140	145	5.5	174.5
LINEO 315	17182	373	446	420	307	224	398	309	110	255	8.5	259.5

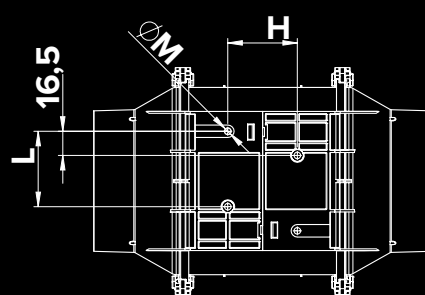
VERSION A

LINEO 100 - LINEO 100 T - LINEO 125 - LINEO 125 T - LINEO 150 - LINEO 150 T
LINEO 160 - LINEO 160 T - LINEO 200 Q - LINEO 200 Q T - LINEO 250 Q - LINEO 250 Q T



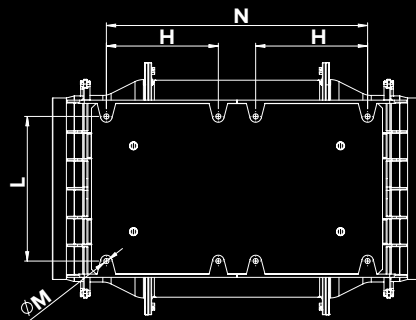
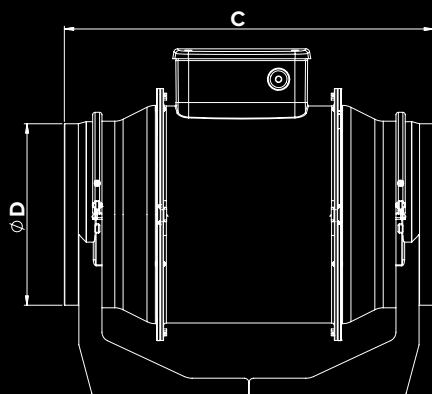
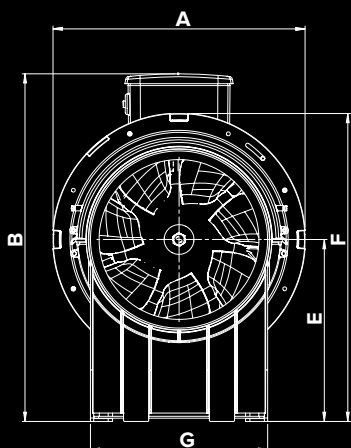
VERSION B

LINEO 100 Q
LINEO Q T



VERSION C

LINEO 200 - LINEO 200 T - LINEO 250 - LINEO 315



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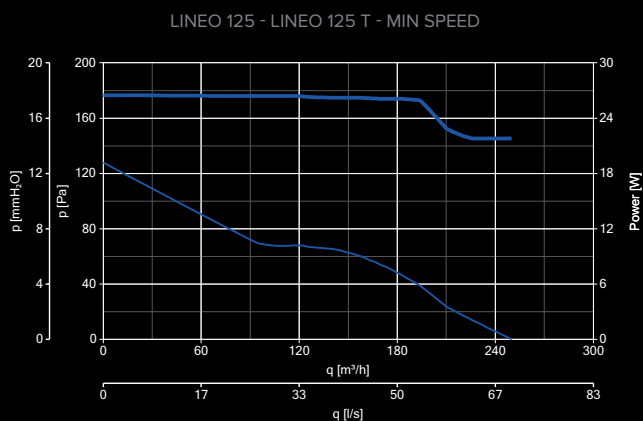
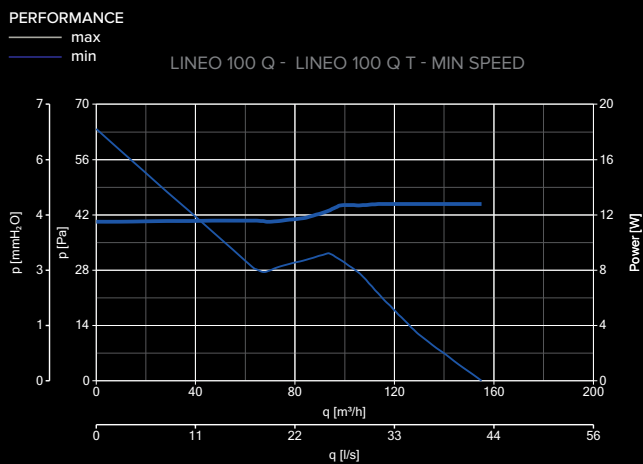
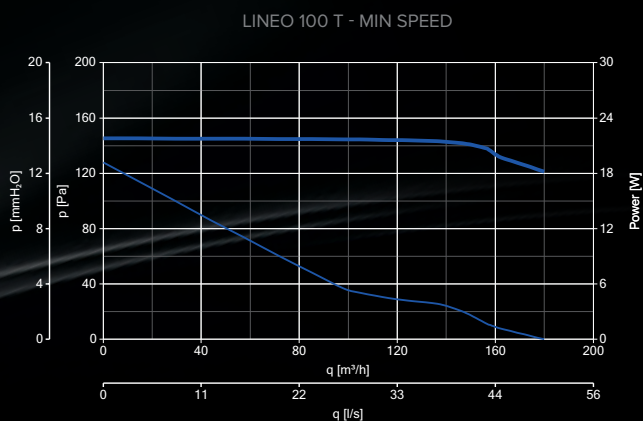
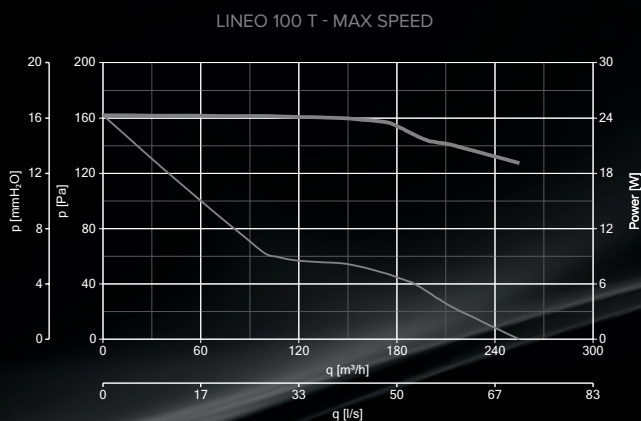
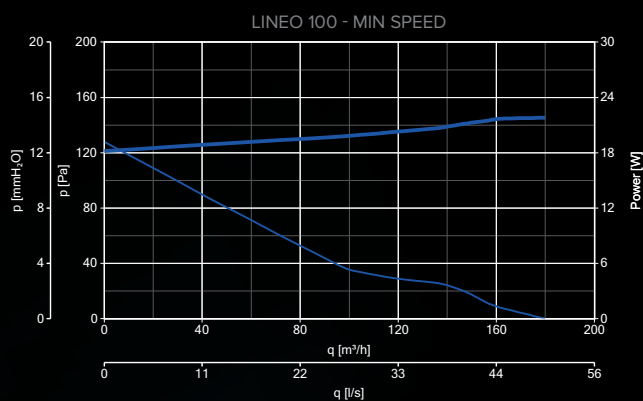
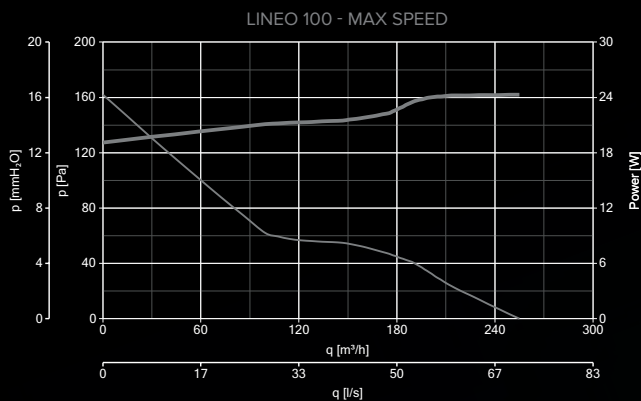
AIR AND GAS MOVEMENT SOLUTIONS



LINEO RANGE NEW

In-line mixed flow fans equipped with AC motors

PERFORMANCE AND ABSORPTION CURVES - LINEO



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AIR AND GAS MOVEMENT SOLUTIONS

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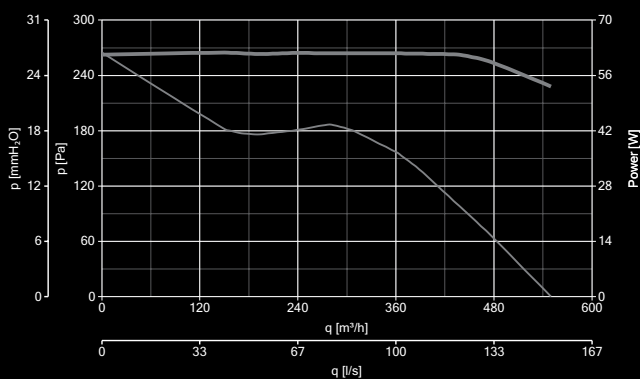
LINEO RANGE

In-line mixed flow fans equipped with AC motors

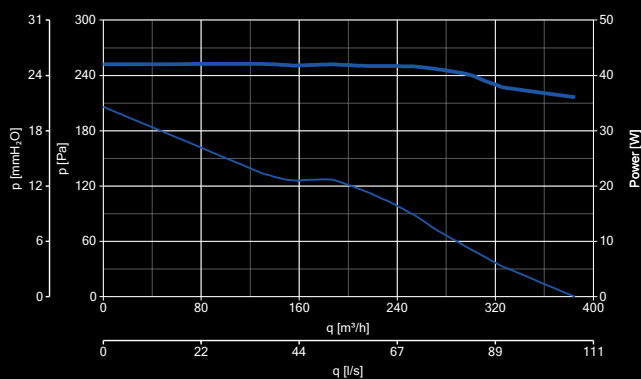


PERFORMANCE AND ABSORPTION CURVES - LINEO

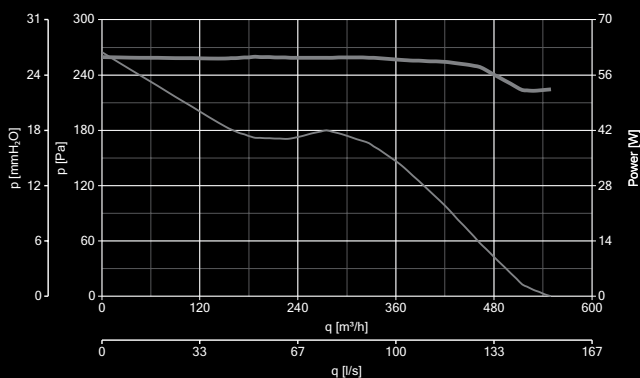
LINEO 150 - LINEO 150 T - MAX SPEED



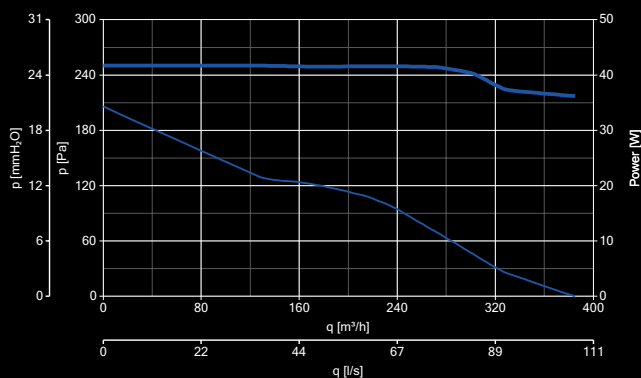
LINEO 150 - LINEO 150 T - MIN SPEED



LINEO 160 - LINEO 160 T - MAX SPEED



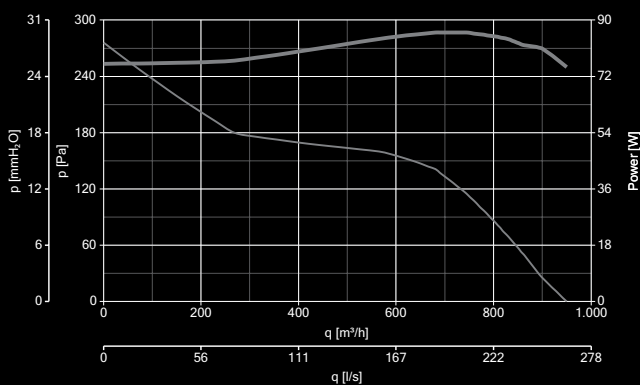
LINEO 160 - LINEO 160 T - MIN SPEED



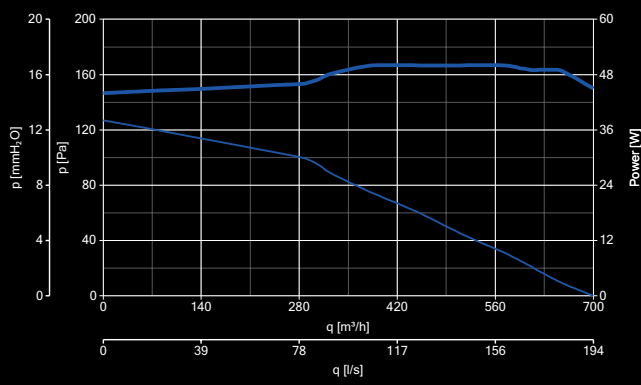
CONSUMPTION
— max
— min

PERFORMANCE
— max
— min

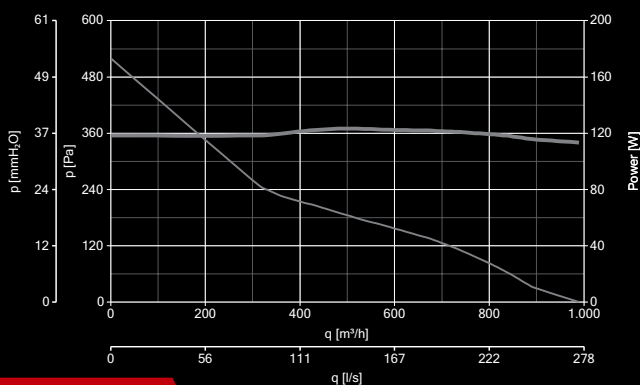
LINEO 200 Q - LINEO 200 Q T - MAX SPEED



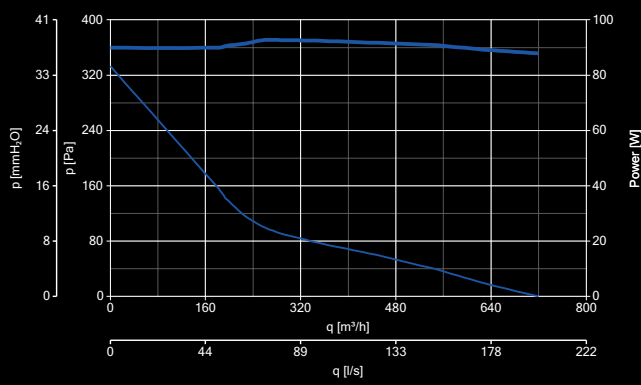
LINEO 200 Q - LINEO 200 Q T MIN SPEED



LINEO 250 Q - LINEO 250 Q T - MAX SPEED



LINEO 250 Q - LINEO 250 Q T - MAX SPEED



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AIR AND GAS MOVEMENT SOLUTIONS

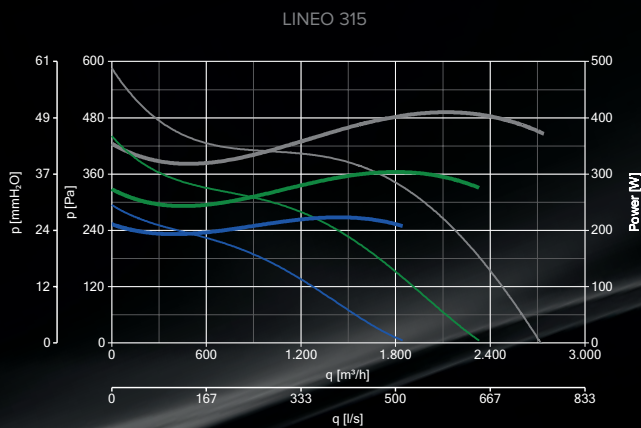
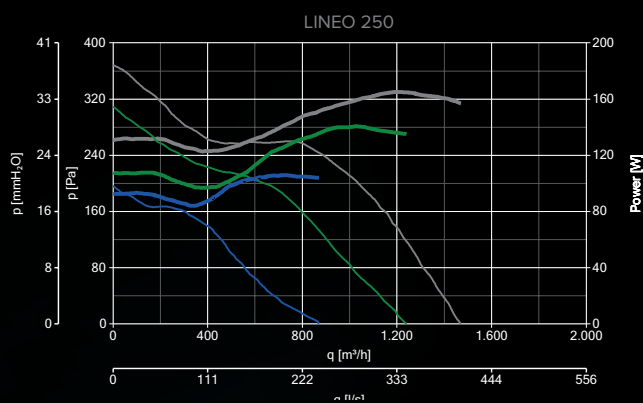
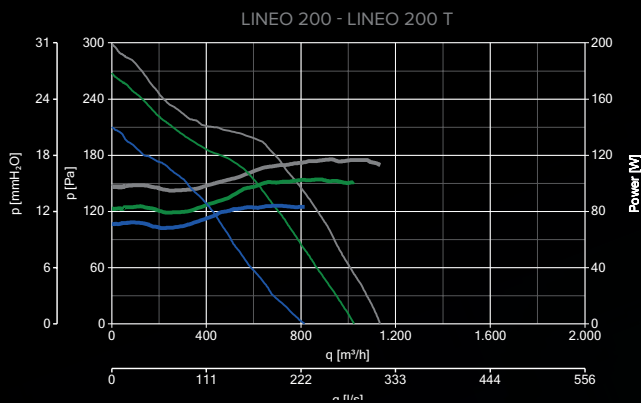


LINEO RANGE

NEW

In-line mixed flow fans equipped with AC motors

PERFORMANCE AND ABSORPTION CURVES - LINEO



CONSUMPTION	PERFORMANCE
MAX	MAX
MID	MID
MIN	MIN



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CDC Inline Fan Backward Curved

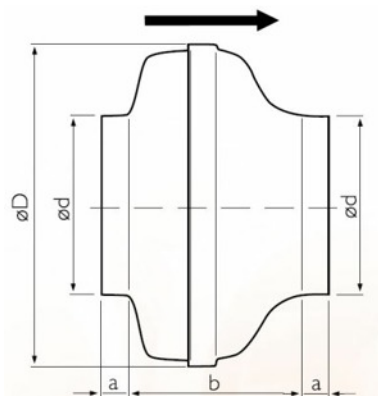


- All models are fitted with backward curved impellers
- The backward curved impeller makes the range suitable for long duct runs where higher pressure needs to be overcome
- Aerodynamic casing designs assist with better fan performance and reduces noise
- The fan design makes the unit easy to install
- Speed controlling can be done by means of voltage variation and several fans can be connected to a single controller
- The CDC range is manufactured with a galvanized casing
- All models are supplied with built-in motor overload protectors
- The range of fans are all fitted with ball bearing motors
- All models are suitable for 220/1/50 power supply
- Units can be used with LT speed controller

Technical Characteristics

	Speed (r.p.m.)	Voltage	Watts	Amps	Max Flow (l/sec)	Max Press (Pa)	Max Temp. (°C)	dBa @ 3m ₁	Encl / Class	Mass (kg)
CDC 100	2530	220	62	0.27	88	366	50	42	IP44 / F	2.9
CDC 125	1640	220	40	0.18	99	302	50	36	IP44 / F	2.9
CDC 160	2540	220	62	0.27	138	335	50	42	IP44 / F	3.2
CDC 200/0.8	2580	220	115	0.5	249	377	50	47	IP44 / F	4.6
CDC 200/1.0	2500	220	158	0.69	294	559	50	48	IP44 / F	5.1
CDC 250	2580	220	115	0.5	245	352	50	47	IP44 / F	4.6
CDC 315	2465	220	190	0.84	393	577	50	47	IP44 / F	6.1

1) dBa @ 3m; Sound Pressure level @ 3m, Hemispherical free field conditions



	a	b	d	D
CDC100	23	148	100	242
CDC 125	25	151	125	242
CDC 160	28	174	160	344
CDC 200/0.8	30	174	200	344
CDC 200/1.0	30	174	200	344
CDC 250	30	170	250	344
CDC 315	34	189	315	402



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

CDC Inline Fan

A-Scaled Sound Power Level (L_{WA})

		63	125	250	500	1K	2K	4K	8K	L_{WA} Total	L_{PA} dBa
CDC 100	Induct	38	50	59	61	61	58	52	36	66	62
	Breakout	-	20	28	28	36	35	34	23	41	37
CDC 125	Induct	30	39	47	50	52	47	38	25	52	56
	Breakout	-	16	16	17	25	27	23	14	27	31
CDC 160	Induct	33	50	57	56	59	54	50	36	60	64
	Breakout	-	21	30	26	34	36	32	17	36	40
CDC 200/0.8	Induct	32	53	61	66	65	60	59	46	66	70
	Breakout	-	30	32	40	43	41	38	32	43	47
CDC 200/1.0	Induct	36	48	61	66	65	60	58	52	66	70
	Breakout	-	33	29	39	43	42	42	34	44	48
CDC 250	Induct	39	51	61	63	65	65	55	41	66	70
	Breakout	-	30	30	38	42	45	34	28	44	48
CDC 315	Induct	38	53	61	67	68	68	63	57	69	73
	Breakout	-	36	32	36	43	51	44	29	49	53

The sound data have been compiled by means of noise intensity measurement methods as follows. Induct equivalent ANSI/ASHRAE 68-1986 (ANSI/AMCA 330-86). To environment equivalent SS4590110 (ISO/DP 9614.2). During measurements the ducts were insulated and the fan uncontrolled (full voltage).

L_{WA} Tot: Total A-weighted sound power level dB(A) (ref. $10^{-12}W$) = the sum of the sound level in the octave ranges.

L_{WA} : A-weighted sound power level in octave ranges dB(A) (ref. $10^{-12}W$)

L_{PA} : A-weighted sound pressure level in dB(A) according to the normed A-weighted correction and related to an effective absorption area of $10m^2$



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Unit 10, Prolecon Park
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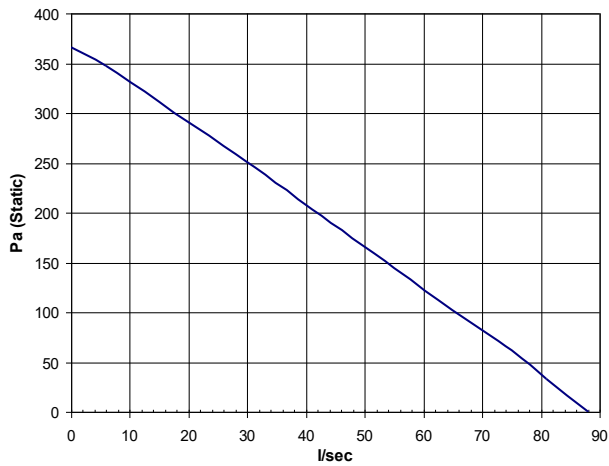


FAN MOVEMENT

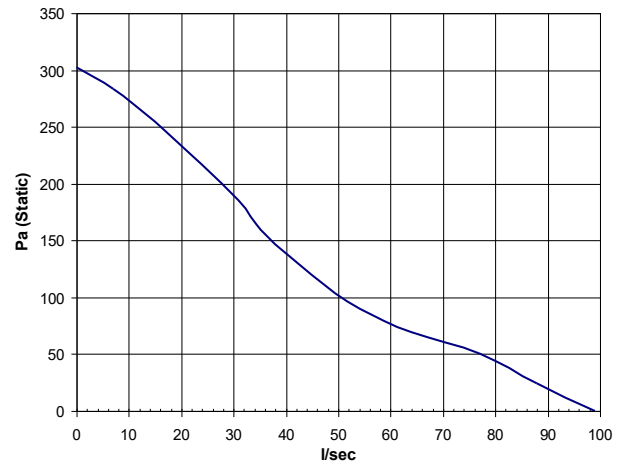
AIR AND GAS MOVEMENT SOLUTIONS

CDC Inline Fan

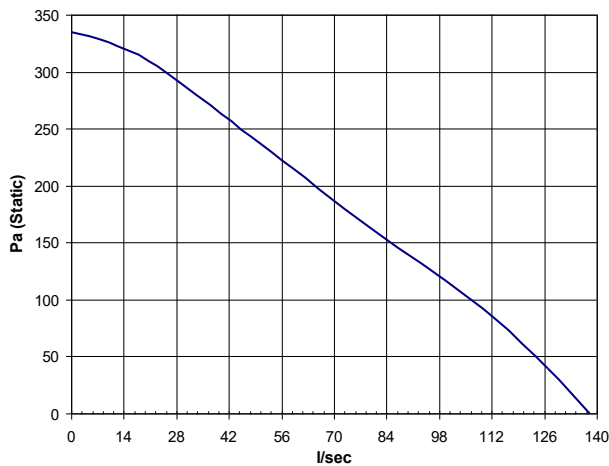
CDC 100



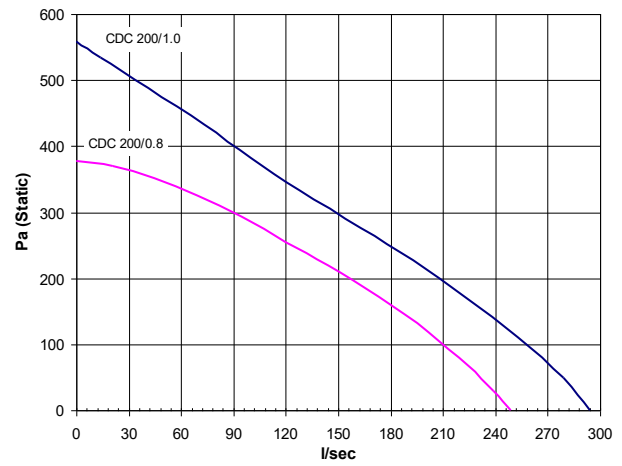
CDC 125



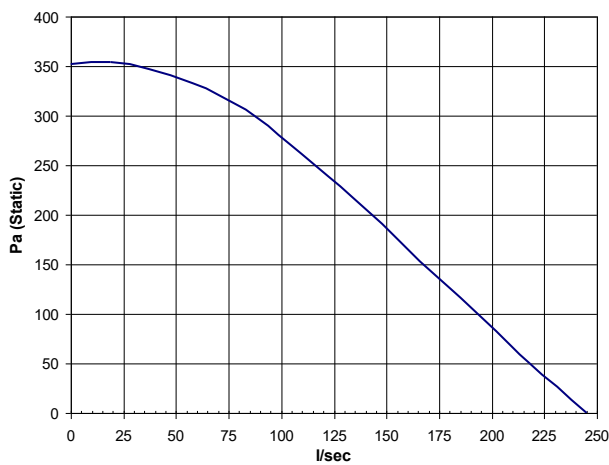
CDC 160



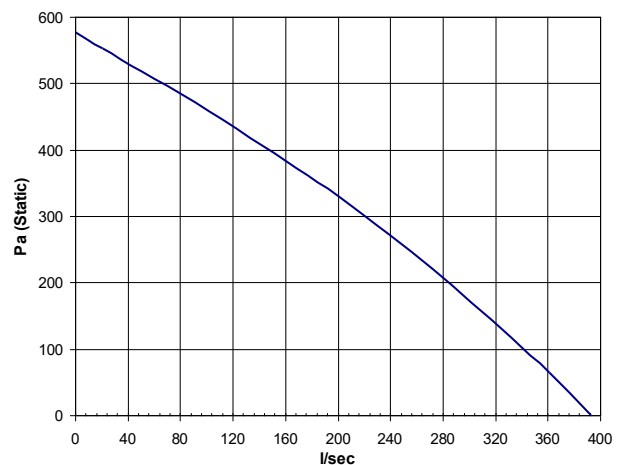
CDC 200/1.0 & 200/0.8



CDC 250



CDC 315



Curves are drawn at 1.2kg/m³, 20°C



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Unit 10, Prolcon Park
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Rectangular Inline Centrifugal Fan



- Designed for easy installation in HVAC and Industrial ducting.
- Casings manufactured from pre-galvanised material.
- All fan casings are supplied with Mez 121 flanges.
- The internal fan is mounted on rubber mounts to minimize vibration into the duct system.
- The units are designed for quiet operation.
- A range of rectangular matching attenuators are available.
- Operating Temperature 0°C to +40°C
- All units are supplied pre-wired to an external terminal box for quick onsite connection.
- The VFC-VS range is speed controllable, using a suitable LT speed controller.
- The speed controller allows accurate system balancing, reduces speed, noise and allows energy saving.

Technical Characteristics

Model	Speed	Volts/Ph/ Hz	Motor Power (Watts)	Amps	Internal Fan IP Protection	Estimated Mass (kg)
VFC 310 / 147	1300	220 / 1 / 50	147 Watts	1.8 A	IP20	16.2 kg
VFC 355 / 300	1300	220 / 1 / 50	300 Watts	3.5 A	IP20	25.1 kg
VFC 355 / 550	1400	220 / 1 / 50	550 Watts	6.8 A	IP20	25.9 kg
VFC 400 / 550	1400	220 / 1 / 50	550 Watts	6.8 A	IP20	29.2 kg
VFC 355 / 245	900	220 / 1 / 50	245 Watts	2.5 A	IP20	24.6 kg
VFC 400 / 500	900	220 / 1 / 50	500 Watts	6.8 A	IP20	31.7 kg
VFC 450 / 1100-9	900	380 / 3 / 50	1100 Watts	4.3 A	IP20	43.8 kg
VFC 450 / 1100-12	900	380 / 3 / 50	1100 Watts	4.5 A	IP20	45.3 kg
VFC VS 310 / 300	1350	220 / 1 / 50	300 Watts ⁽¹⁾	2.3 A	IP44	16.2 kg
VFC VS 355 / 420	1350	220 / 1 / 50	420 Watts ⁽¹⁾	3.6 A	IP55	25.6 kg
VFC VS 355 / 550	1400	220 / 1 / 50	550 Watts ⁽²⁾	6.8 A	IP20	25.9 kg
VFC VS 400 / 550	1400	220 / 1 / 50	550 Watts ⁽²⁾	6.8 A	IP20	29.2 kg
VFC VS 400 / 500	900	220 / 1 / 50	500 Watts ⁽¹⁾	4.0 A	IP55	36.8 kg

(1) – LT 6 Speed Controller (2) – LT 10 Speed Controller



Controller Size	Voltage Input	Max Amp Loading
LT 6	220 / 1 / 50	6 Amps
LT 10	220 / 1 / 50	10 Amps

Box Dimension: 80mmW x 140mmH x 48mm Deep
Controller Mass: 0.4 kg

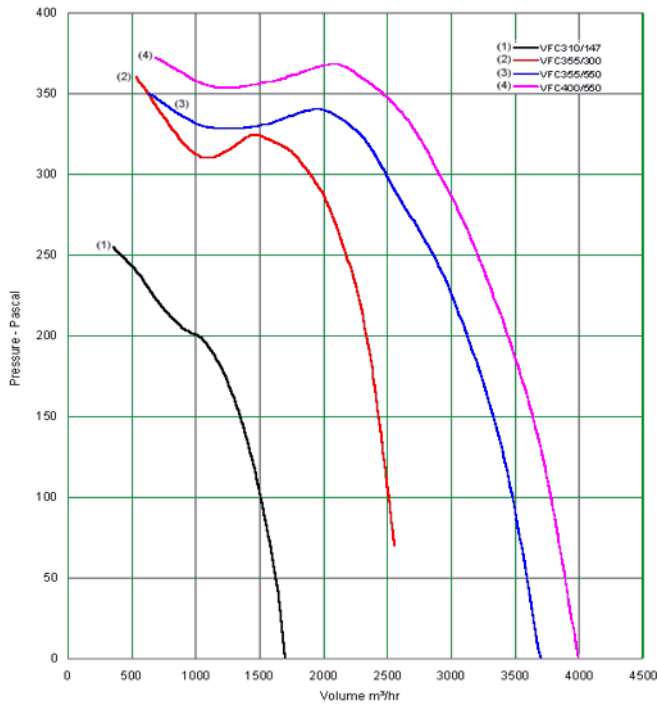


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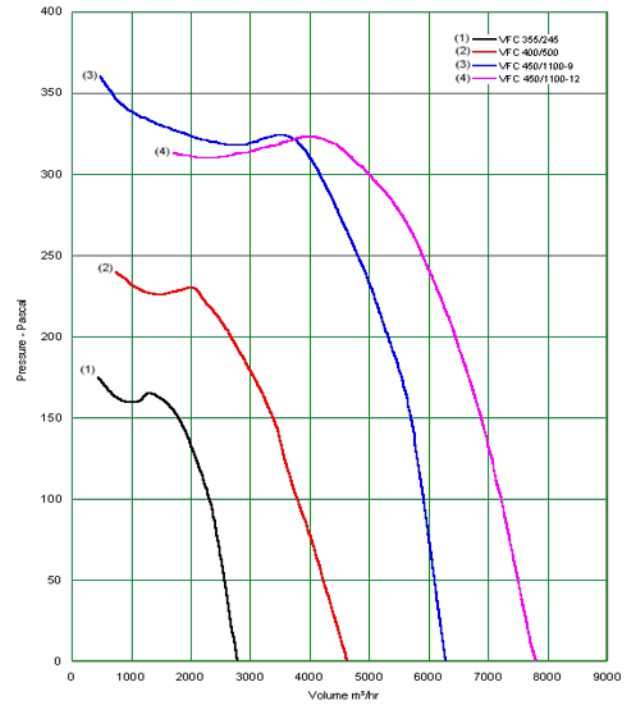
AIR AND GAS MOVEMENT SOLUTIONS

VFC / VFC-VS Fans

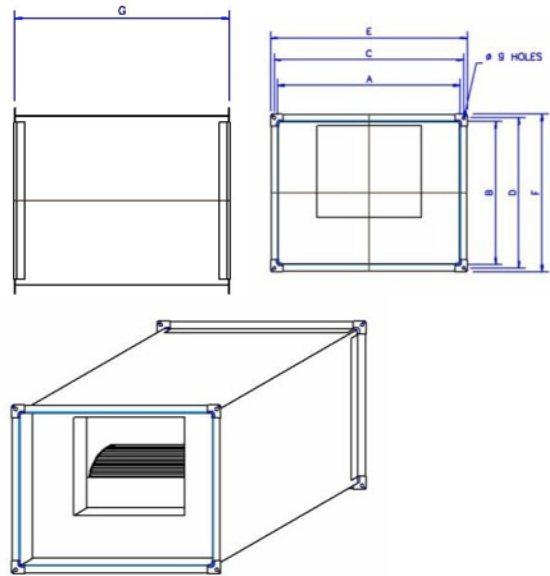
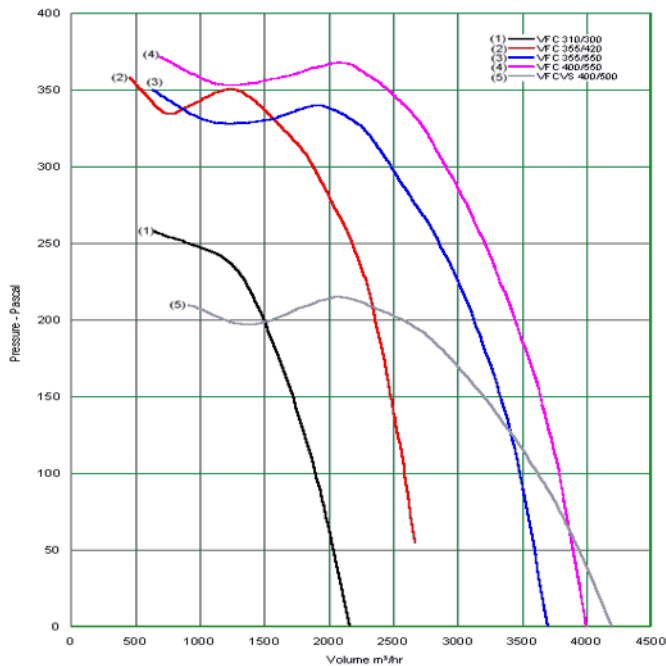
4 Pole – Constant Speed



6 Pole – Constant Speed



VS – Variable Speed



VFC	A	B	C	D	E	F	G
310 /	450	360	468	378	490	400	400
355 /	520	410	538	428	560	450	450
400 /	600	465	618	483	640	505	500
450 /	650	550	668	568	690	590	600

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Section B - Silent Fans

NEW Lineo Quiet



KSB Boxed Fan



TT - Silent



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AIR AND GAS MOVEMENT SOLUTIONS



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NEW LINEO QUIET RANGE

n-line mixed flow fans equipped with AC motors



THE DESIGN

CONSTRUCTION FEATURES COMMON TO THE RANGE

The design consists of the following:

a central motor mount which encloses the fan motor unit and houses the wiring devices externally, in an easily reachable position; the main body, fixed to a pair of end supports arranged for connection to the suction and delivery pipes, which is designed to rotate on its own axis to facilitate the housing of the product in small spaces and its wiring through the contacts positioned on its external surface; The ease with which it can be removed without altering the surrounding piping system, greatly speeds up and facilitates maintenance;

KEY FEATURES

the air flow rectifiers on the delivery side work in synergy with the upstream impeller, optimize the managed air flow, maximizing performance and increasing efficiency, reducing the occurrence of vortices's and minimizing noise emissions; the mixed flow type impellers, combine the advantages of helical fans (high flow rates and flow around the axis of the impeller), with the high pressures of centrifugal fans; the directly coupled motors have shafts mounted on ball bearings, ensuring a virtually "maintenance free" operation; the timer in the T models allows the operation of the appliance to be programmed at maximum speed and ease at a range between 3' and 20', which can be set during installation.

high-performance, top-of-the-range; easy maintenance. Each component allows easy connection and disconnection with the nearby elements, and easy access to the inner components (motor-impeller) and their replacement. In the case of silenced products, the sound absorbing shells refitted at the end of the maintenance process, restore the original sound performance under test conditions; the motors have a minimum guaranteed life in continuous operation at maximum speed and at maximum ambient temperature of 30,000 or 40,000 hours depending on the type; completeness of the range, designed to offer the ideal product to meet the specific requirements of the system in terms of performance, consumption, quiet operation, operating costs and purchase price.



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AIR AND GAS MOVEMENT SOLUTIONS

NEW **LINEO QUIET** RANGE
n-line mixed flow fans equipped with AC motors



The **LINEO QUIET** range products are characterised by the use of a sound-absorbing coating, which is fully integrated in the outer casing and optimised to minimise environmental sound emissions.

**HIGH-LEVEL PERFORMANCE,
AT THE TOP OF THE RANGE**



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NEW

LINEO QUIET RANGE
n-line mixed flow fans equipped with AC motors



TECHNICAL AND PERFORMANCE DATA - LINEO QUIET*

Models	Code	V~50/60 HZ	W min/med/ max	A min/med/ max	RPM min/med/ max	Max Airflow		Max Pressure		Protection grade**	Max °C	KG
						m ³ /h min/med/max	l/s min/med/max	mmH ₂ O min/med/max	Pa min/med/max			
LINEO 100 QUIET	17160	220-240	11	0.09	1455	150	41.7	9	88.3	IP45	45	3,8
LINEO 100 T QUIET	17190		24	0.11	1880	200	55.6	11.5	112.8			
			27	0.13	2260	260	72.2	15	147.1			
LINEO 125 QUIET	17161	220-240	11	0.09	1125	190	52.8	8	78.5	IP45	45	3,6
LINEO 125 T QUIET	17191		24	0.11	1475	250	69.4	10	98.1			
			27	0.13	1880	320	88.9	14	137.3			
LINEO 150 QUIET	17162	220-240	24	0.14	1040	255	70.8	10.5	103	IP45	55	5,4
LINEO 150 T QUIET	17192		37	0.17	1430	350	97.2	15.5	152			
			50	0.22	2030	510	141.7	21.5	210.9			
LINEO 160 QUIET	17163	220-240	24	0.14	1040	255	70.8	10.5	103	IP45	55	5,2
LINEO 160 T QUIET	17193		37	0.17	1430	350	97.2	15.5	152			
			50	0.22	2030	510	141.7	21.5	210.9			
LINEO 200 QUIET	17164	220-240	50	0.34	1880	805	223.6	20.6	202	IPX5	50	8,6
LINEO 200 T QUIET	17194		80	0.42	2380	1045	290.3	26.3	257.9			
			95	0.49	2690	1160	322.2	29	284.4			
LINEO 250 QUIET	17165	220-240	95	0.42	1640	960	266.7	20.2	198.1	IPX5	50	13,4
			125	0.55	2320	1340	372.2	30.3	297.2			
			150	0.65	2750	1550	430.6	34.6	339.3			
LINEO 315 QUIET	17166	220-240	215	0.95	1930	2070	575	30.6	300.1	IPX5	50	28,3
			270	1.15	2360	2530	702.8	43.3	424.6			
			360	1.55	2705	2890	802.8	53.6	525.7			

* all data referred to supply at 50 Hz

** protection grade referred to ducted units

SOUND LEVELS - LINEO QUIET

Models	Code	SOUND POWER Lw dB (A)			SOUND POWER Lw dB (A)			SOUND POWER Lw dB (A)		
		INTAKE			SUPPLY			BREAKOUT		
		min	med.	max	min	med.	max	min	med.	max
LINEO 100 QUIET	17160	62.2	70.5	74.6	62.3	68.7	74.4	36.2	41.8	46.6
LINEO 100 T QUIET	17190									
LINEO 125 QUIET	17161	60.1	64.2	70.4	60.5	64.2	70.9	36.2	41.8	45.5
LINEO 125 T QUIET	17191									
LINEO 150 QUIET	17162	60.3	68.2	77.3	62.1	67.7	76	38.2	43.4	51.2
LINEO 150 T QUIET	17192									
LINEO 160 QUIET	17163	60.3	68.2	77.3	62.1	67.7	76	38.2	43.4	51.2
LINEO 160 T QUIET	17193									
LINEO 200 QUIET	17164	76.9	83.3	86.4	75.1	81.5	85	51.6	57.4	60.7
LINEO 200 T QUIET	17194									
LINEO 250 QUIET	17165	76.3	83.6	85.1	75	83.4	87.4	49.5	57	60.7
LINEO 315 QUIET	17166	82.8	87	91.7	82.8	87	89.8	58.8	62.9	65.9

Models	Code	SOUND PRESSURE LP dB(A)*			SOUND PRESSURE LP dB(A)*			SOUND PRESSURE LP dB(A)*		
		INTAKE			SUPPLY			BREAKOUT		
		min	med.	max	min	med.	max	min	med.	max
LINEO 100 QUIET	17160	44.6	52.9	57.1	44.8	51.2	56.9	15.7	21.3	26.1
LINEO 100 T QUIET	17190									
LINEO 125 QUIET	17161	42.6	46.7	52.9	43	46.6	53.4	15.6	21.1	25
LINEO 125 T QUIET	17191									
LINEO 150 QUIET	17162	42.8	50.7	59.7	44.5	50.1	58.5	17.6	22.9	30.7
LINEO 150 T QUIET	17192									
LINEO 160 QUIET	17163	42.8	50.7	59.7	44.5	50.1	58.5	17.6	22.9	30.7
LINEO 160 T QUIET	17193									
LINEO 200 QUIET	17164	59.3	65.8	68.8	57.6	64	67.5	31	36.9	40.2
LINEO 200 T QUIET	17194									
LINEO 250 QUIET	17165	58.8	67.6	71.5	57.5	65.9	69.9	29	36.5	40.1
LINEO 315 QUIET	17166	66.8	71	74.2	65.3	69.5	72.3	38.3	42.4	45.4

* calculated in free field conditions at 3 m distance



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NEW

LINEO QUIET RANGE
In-line mixed flow fans equipped with AC motors

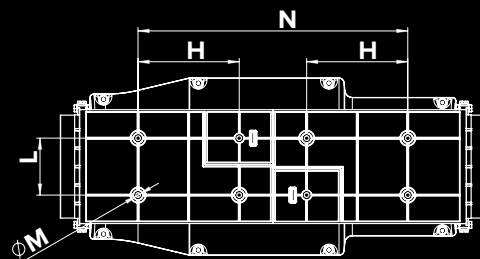
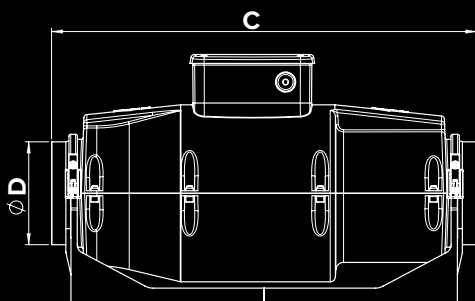
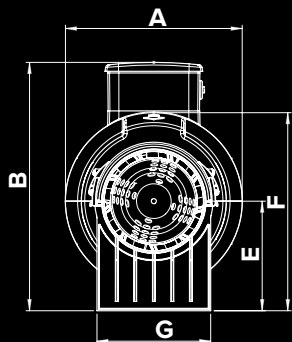
VORTICE

DIMENSIONS - LINEO QUIET

Models	Code	A	B	C	Ø D	E	F	G	H	L	Ø M	N	VERSION
LINEO 100 QUIET	17160	210	294.5	639	97	130	235	135	120	67.5	5.5	320	A
LINEO 100 T QUIET	17190												
LINEO 125 QUIET	17161	210	294.6	504.5	122	130	235	135	120	67.5	5.5	320	A
LINEO 125 T QUIET	17191												
LINEO 150 QUIET	17162	232	320.5	685	147	145	261.5	170	132	85	5.5	360	A
LINEO 150 T QUIET	17192												
LINEO 160 QUIET	17163	232	320.5	570	156.5	145	261.5	170	135	85	5.5	360	A
LINEO 160 T QUIET	17193												
LINEO 200 QUIET	17164	322.5	417.5	625.5	194.5	195	363.5	190	120	155	5.5	510	B
LINEO 200 T QUIET	17194												
LINEO 250 QUIET	17165	318	412	751.5	243	189.5	363.5	200	70	170	6.5	604.5	B
LINEO 315 QUIET	17166	415.5	496.5	940	307	244	441	309	110	255	8.5	780	B

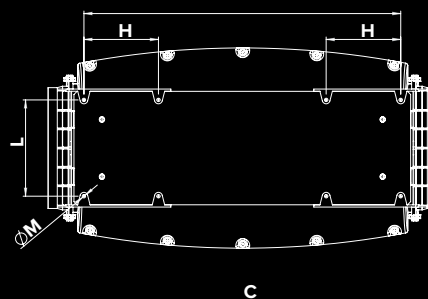
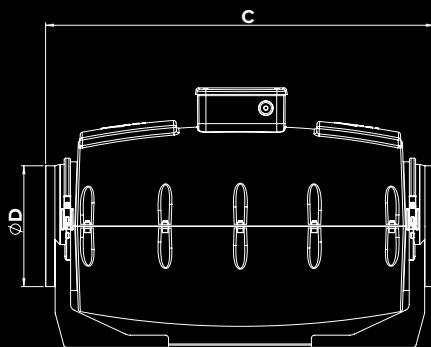
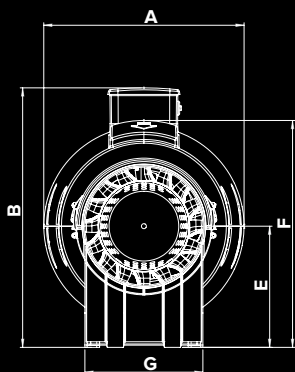
VERSION A

LINEO 100 QUIET - LINEO 100 T QUIET - LINEO 125 QUIET - LINEO 125 T QUIET
LINEO 150 QUIET - LINEO 150 T QUIET - LINEO 160 QUIET - LINEO 160 T QUIET



VERSION B

LINEO 200 QUIET - LINEO 200 T QUIET - LINEO 250 QUIET - LINEO 315 QUIET



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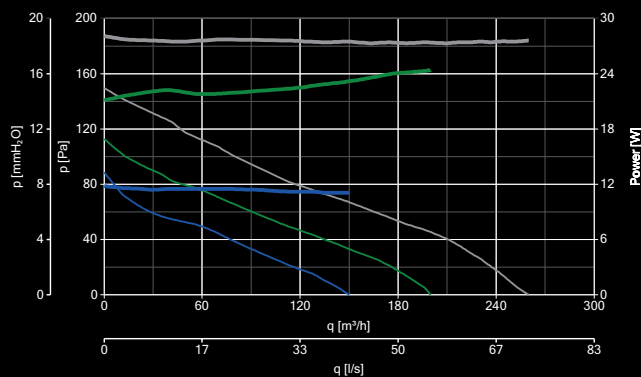
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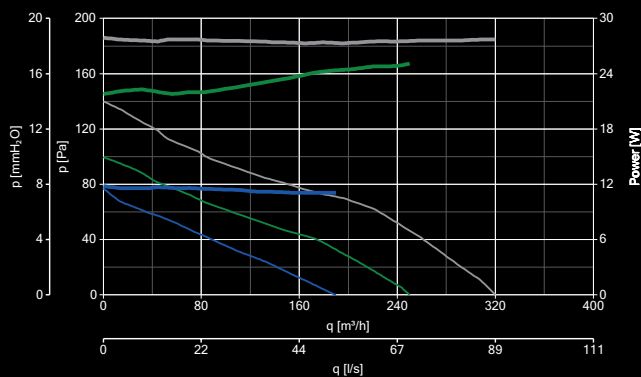
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PERFORMANCE AND ABSORPTION CURVES - LINEO QUIET

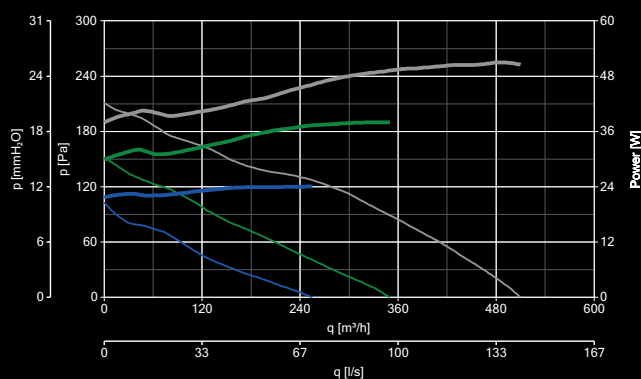
LINEO 100 QUIET - LINEO 100 T QUIET



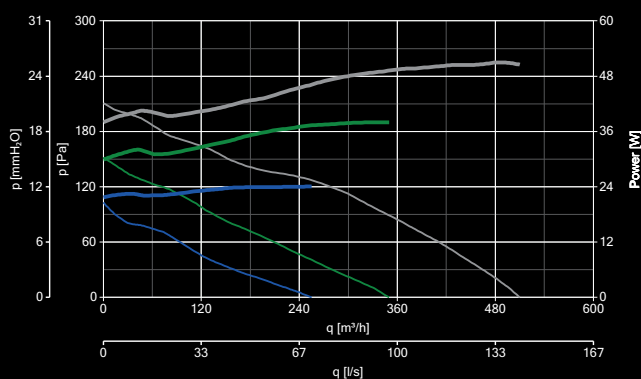
LINEO 125 QUIET - LINEO 125 T QUIET



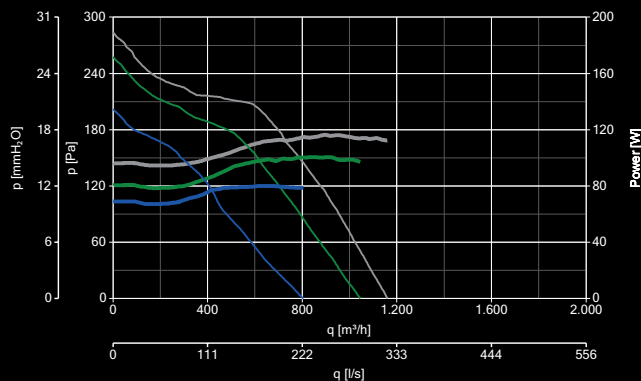
LINEO 150 QUIET - LINEO 150 T QUIET



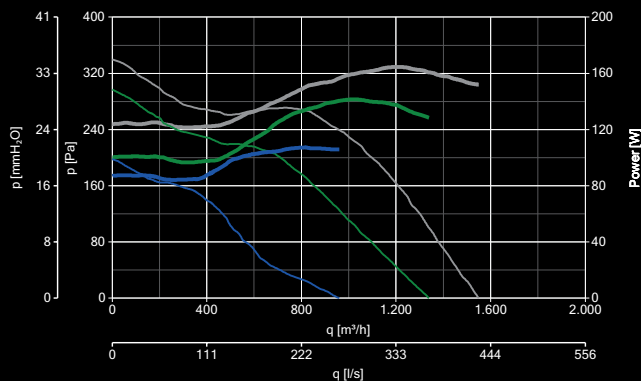
LINEO 160 QUIET - LINEO 160 T QUIET



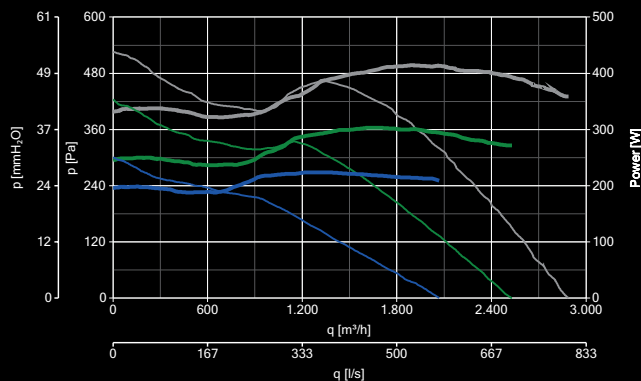
LINEO 200 QUIET - LINEO 100 T QUIET



LINEO 250 QUIET



LINEO 315 QUIET



CONSUMPTION PERFORMANCE
— 10V — 10V
— 6V — 6V
— 4V — 4V



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KSB Boxed Fan – Acoustic Lined & Low Profile

KSB fan design enables its application in supply and exhaust ventilation systems for the use in premises with high requirements to low noise level and limited mounting space. Provision is made for installation in a premise above the suspended ceiling. Suitable for connection with 100, 125, 150, 160, 200, 250 & 315 mm round ducts.

The range of KSB fans are suitable for use on single phase 240V 60hz power supply. For detailed performance data contact Donkin Fans.

Construction

The fan casing is made of galvanized steel sheet and provided with heat- and sound-insulating material. Round connecting pipes are fitted with rubber seals.

Motor

The centrifugal impeller with backward curved blades is powered by means of 2-pole asynchronous motor with external rotor. The motors are equipped with built-in thermal overheating protection with automatic restart.

Motor are fitted with ball bearings with selective lubricating oil to ensure

low-noise and maintenance-free fan operation. Our range of KSB models have the motors installed onto rubber anti-vibration mounts to reduce vibration and noise from the motor and impeller to the fan casing.

Motors

Smooth or step speed control with a thyristor or autotransformer speed controller. Several fans may be connected to one speed controller provided that the total power and operating current do not exceed the rated speed controller parameters.

Installation The fans are designed for inline mounting inside an air duct of matching air duct diameter, in any point of the ventilation system and at any angle.

The fan shall be fixed to a building by means of supports provided, suspension brackets or fixation. The fan can be mounted in any position with respect to the air flow direction indicated with a pointer on the fan casing.

Access to the fan maintenance shall be provided.

Certification

CE Mark Applied in 2010

Conforms to the following Product

Specifications: EN 60335-

1:2002+A1+A11+A12, EN 60335-2-

80:2003+A1, EN 61000-3-2:2006, EN

61000-3-3:1995, IEC 61000-3-3:2001

Am.1), EN 61000-3-3/A2:2005, CISPR

14-1:2000, CISPR 14-1:2001 (Am.1),

CISPR 14-1:2002 (Am.2)

Supplementary Information:

We hereby declare that the following complies with the essential protection requirements of Electromagnetic Council Directive 2004/108/EC, and Low Voltage Directive 2006/95/EC and CE marking Directive 93/68/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

This certificate is issued following test carried out on samples of the product referred to above. Assessment of compliance of the product with the requirements relating to electromagnetic.

Compatibility was based on the following standards.

EN 60335-1:2002+A1+A11+A12, EN

60335-2-80:2003+A1, EN 61000-3-

2:2006, EN 61000-3-3:1995, IEC

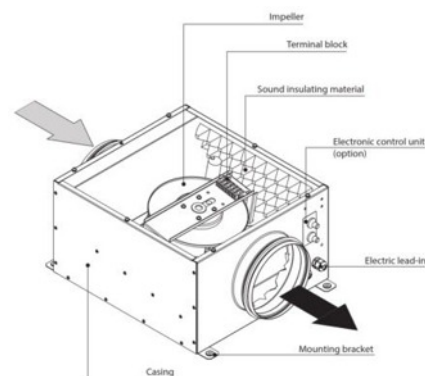
61000-3-3:2001 (Am.1), EN

61000-3-

3/A2:2005, CISPR 14-1:2000, CISPR

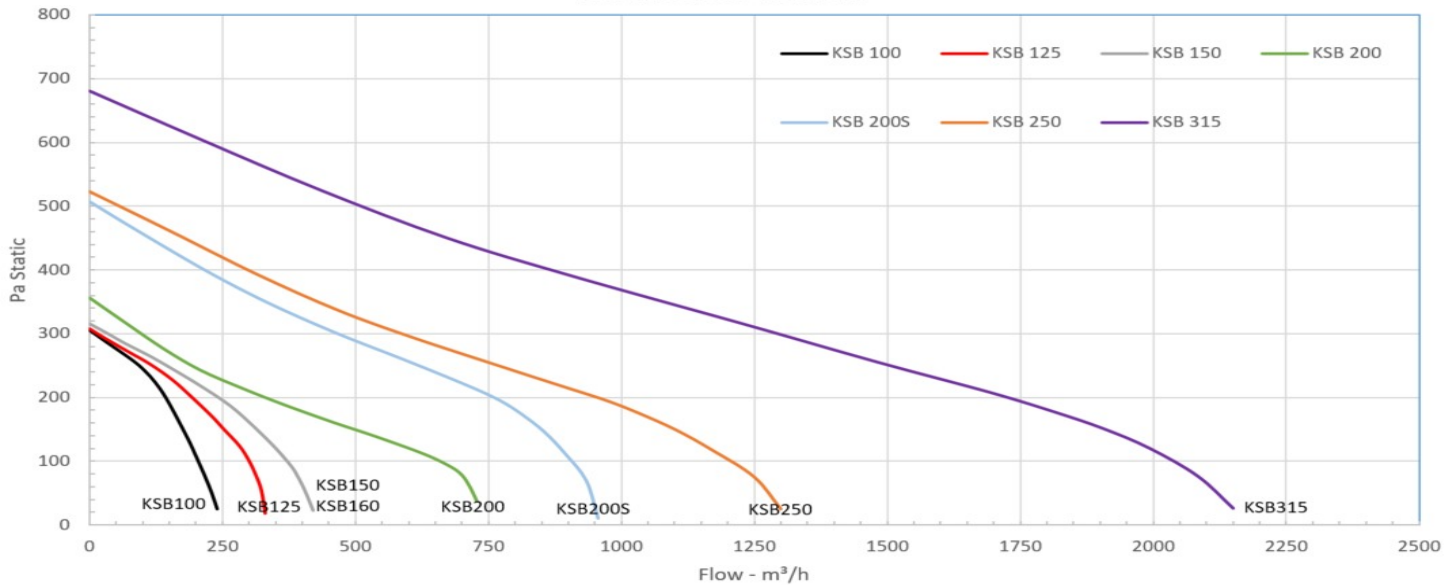
14-1:2001 (Am.1), CISPR 14-

1:2002 (Am.2)





KSB Acoustic Box Fan

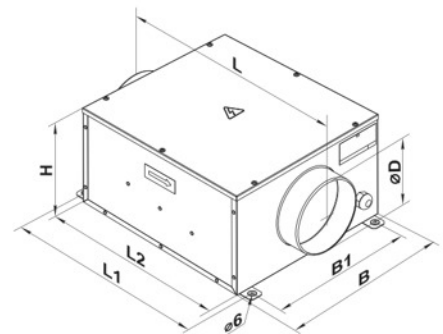


Technical Data

Model	Voltage / Phase	Power (W)	Current (A)	Max Flow (m³/h)	Speed (rpm)	Noise @ 3m (dBa)			Max Temp °C	IP Rating
						Inlet	Disch	Breakout		
KSB 100	220/1	73	0.32	240	2560	59	68	40	-25 ~ +55	X4
KSB 125	220/1	73	0.32	330	2590	64	65	38	-25 ~ +55	X4
KSB 150	220/1	72	0.32	420	2600	62	66	41	-25 ~ +55	X4
KSB 200	220/1	103	0.45	730	2550	52	67	43	-25 ~ +55	X4
KSB200S	220/1	195	0.85	950	2570	53	70	45	-25 ~ +55	X4
KSB 250	220/1	198	0.87	1300	2420	59	74	46	-25 ~ +55	X4
KSB 315	220/1	322	1.40	2150	2670	59	75	48	-25 ~ +55	X4

Dimensions

Model	Dimensions (mm)							Weight (kg)
	ØD	B	B1	H	L	L1	L2	
KSB 100	99	322	280	192	447	380	350	5.4
KSB 125	124	322	280	192	447	380	350	5.4
KSB 150	149	352	310	212	477	410	380	6.4
KSB 200	199	432	368	287	588	506	480	10.0
KSB 200S	199	432	368	287	588	506	480	12.0
KSB 250	249	432	368	287	588	506	480	12.5
KSB 315	314	502	438	397	648	566	540	15.5





Noise Data

			Octave Frequency Band (Hz) dBA							
			General	63	125	250	500	1000	2000	4000
KSB 100	LWA to Inlet	63	53	57	54	52	51	54	51	47
	LWA to Outlet	69	49	50	53	56	66	63	56	54
	LWA to Environment	40	27	29	32	31	34	29	29	20
KSB 125	LWA to Inlet	63	51	51	54	56	54	55	53	51
	LWA to Outlet	67	50	49	59	55	61	61	58	51
	LWA to Environment	41	29	32	33	33	33	31	28	25
KSB 150	LWA to Inlet	64	49	50	58	56	54	55	52	50
	LWA to Outlet	67	43	44	59	55	62	60	55	53
	LWA to Environment	41	26	30	35	34	34	30	26	25
KSB 160	LWA to Inlet	64	49	50	58	56	54	55	52	50
	LWA to Outlet	67	43	44	59	55	62	60	55	53
	LWA to Environment	41	26	30	35	34	34	30	26	25
KSB 200	LWA to Inlet	50	37	38	45	45	39	39	36	26
	LWA to Outlet	67	49	46	55	64	59	60	53	41
	LWA to Environment	42	33	35	33	38	25	31	25	25
KSB 200S	LWA to Inlet	50	37	38	45	45	39	39	36	26
	LWA to Outlet	67	49	46	55	64	59	60	53	41
	LWA to Environment	42	33	35	33	38	25	31	25	25
KSB 250	LWA to Inlet	58	44	45	54	51	47	45	45	38
	LWA to Outlet	74	51	51	62	70	67	64	61	55
	LWA to Environment	46	33	36	41	42	30	26	23	27
KSB 315	LWA to Inlet	59	45	47	59	47	48	50	44	40
	LWA to Outlet	73	52	51	59	68	68	65	62	54
	LWA to Environment	49	41	41	44	43	36	28	32	29

Optional Accessories

Silencer	Neoprene Clamp	Damper	Controller (Manual)	Controller (use with Sensors)
				
SILDDD/LLL	CZDDD	KOMUDDD	RS1400 – 4Amp	RS-3.0TA 4-20mA or 1-10V



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

Donkin Fans

Technical Specifications

TT SILENT-M acoustic inline series



TT-SILENT Inline Mixed Flow Fan

The TT SILENT-M Mixed Flow inline fans are enclosed in a specially designed sound-insulated casing ensuring a silent operation. Operating ranges up to 1950m³/h and pressures up to 620Pa.

The design of the unit makes the installation simple and easy with the fan supplied with spigots on both inlet and discharge sides of the fan. A total of 6 models are available from the range. All models come with a dual speed wiring option.

Typical installation and uses would include office ventilation, smoking room extract and supply, restaurants, fresh air supply etc.

The entire range offered is suitable for 220V 1Ph 50Hz power supply and operating conditions from -10°C ~ 60°C.



All models are fitted with thermal protection embedded in the motor winding.

Construction

The outer casing is manufactured from Polymer coated steel while a perforated inner casing design allows sound waves to be absorbed by a 50mm mineral wool layer between the inner and outer layer of the fan casing. The fan casings is designed with built-in downstream guide vanes to achieve best performance and lowest noise generation possible.

Motors

All models are fitted with ball bearing motors with service life designed at 40 000hrs at non-stop operating conditions and offer a IPX4 insulation rating. The motors have standard thermal overload protection embedded into the motor winding. Fan speed control is achieved by using a TRIAC or autotransformer.

Special Request

The range of fans is also available on special request with the following built-in options:

(Special import only)

- Built-in overrun timer.
- Variable speed drives fixed to the fan terminal box.
- Temperature sensors with speed controls for temperature triggered operation.
- Fitted with EC Electric Motors.



Installation Possibilities

TT-SILENT inline mixed flow fans can be installed in the following configurations:

Single fan, duct mounted.

Two Fans in Series, increasing the pressure.

Two Fans in Parallel, doubling up on the air volume.



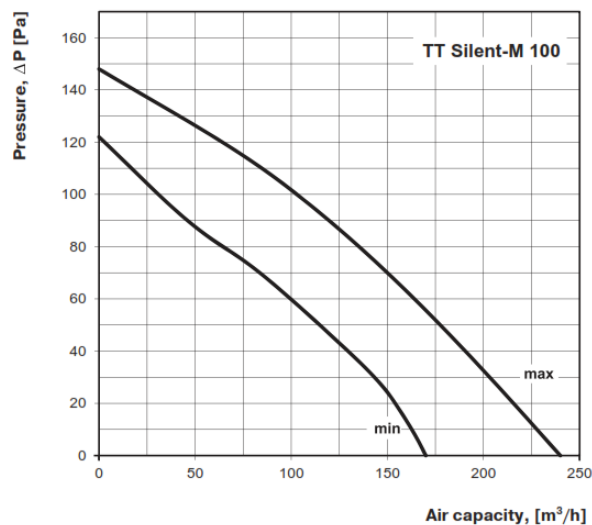
+27 11 682 3020



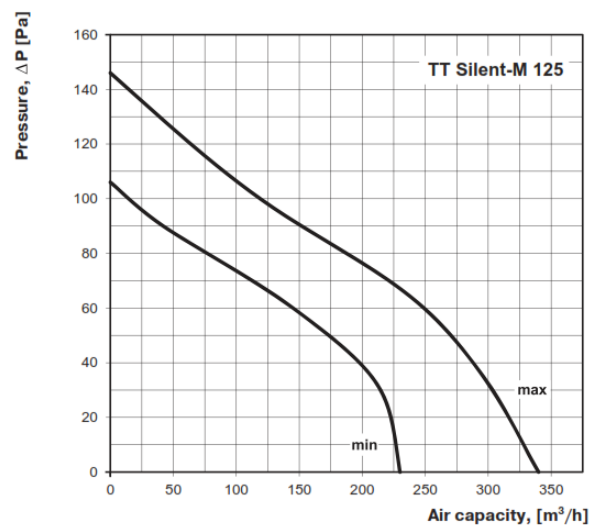
www.fanmovement.co.za
info@fanmovement.co.za



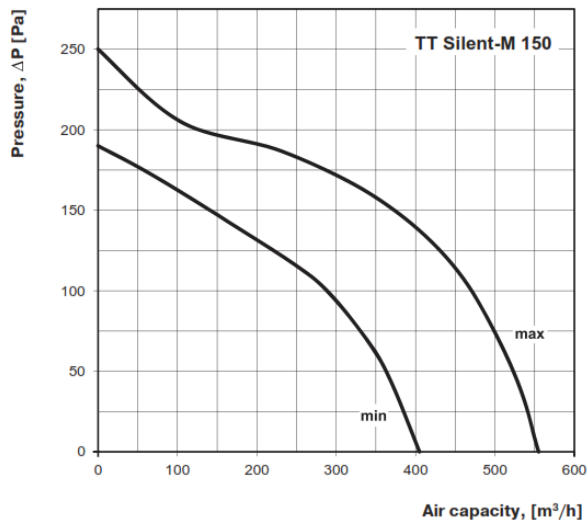
Unit 10, Prolecon Park
4 Prolecon Rd Prolecon Jhb 2001



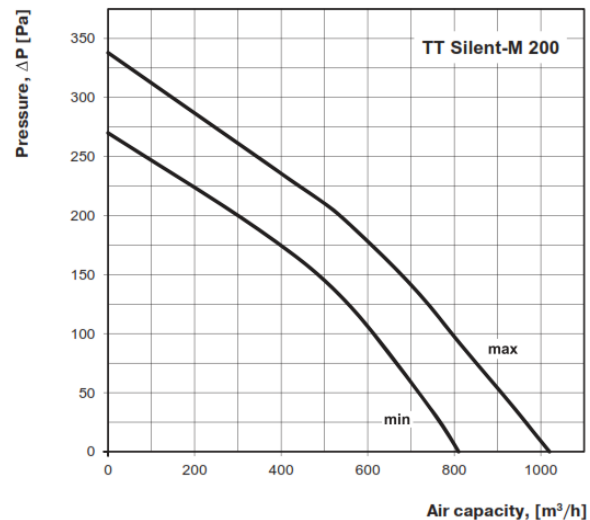
Sound-power level		Octave-frequency band [Hz]								
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L_{WA} to inlet	dBA	42	19	18	29	35	39	39	31	24
L_{WA} to outlet	dBA	45	20	19	30	38	42	35	35	23
L_{WA} to environment	dBA	34	15	14	17	25	29	21	22	14



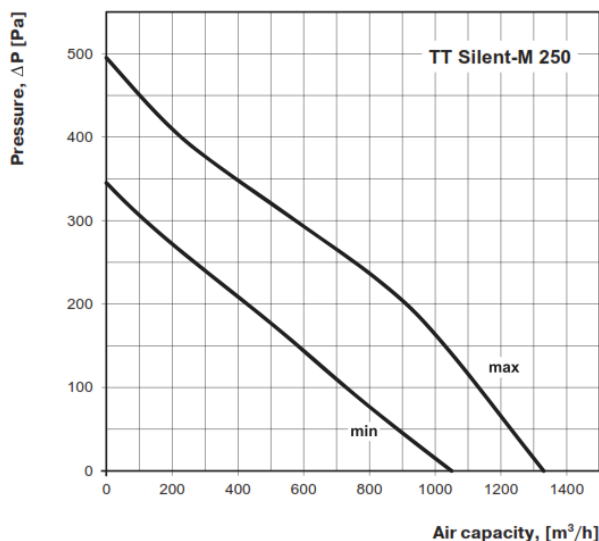
Sound-power level		Octave-frequency band [Hz]								
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L_{WA} to inlet	dBA	47	19	21	35	38	42	41	35	28
L_{WA} to outlet	dBA	46	21	24	35	39	41	43	37	29
L_{WA} to environment	dBA	35	17	20	23	27	28	22	21	15



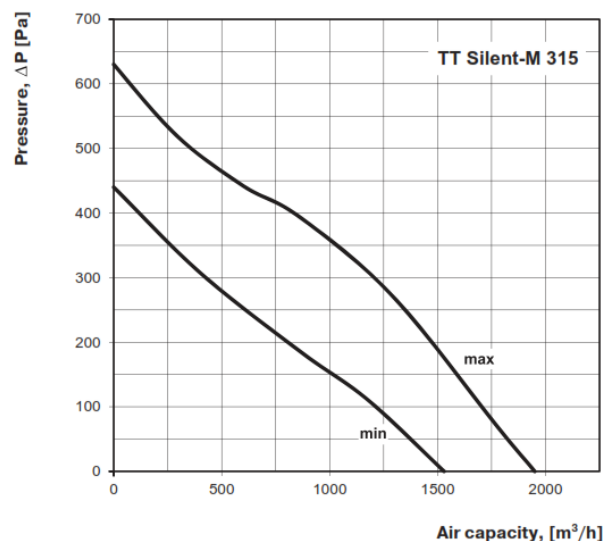
Sound-power level		Octave-frequency band [Hz]								
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L_{WA} to inlet	dBA	61	25	33	49	55	53	55	53	39
L_{WA} to outlet	dBA	59	35	36	51	55	55	55	50	42
L_{WA} to environment	dBA	39	19	22	39	35	36	33	24	21



Sound-power level		Octave-frequency band [Hz]								
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L_{WA} to inlet	dBA	62	26	38	54	57	58	55	52	48
L_{WA} to outlet	dBA	65	28	42	48	62	60	62	50	44
L_{WA} to environment	dBA	45	22	30	31	38	41	42	29	22



Sound-power level		Octave-frequency band [Hz]								
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L_{WA} to inlet	dBA	65	29	41	57	60	61	58	55	51
L_{WA} to outlet	dBA	75	31	45	58	65	73	65	53	47
L_{WA} to environment	dBA	55	25	33	48	41	53	49	41	29



Sound-power level		Octave-frequency band [Hz]								
	Hz	Gen	63	125	250	500	1000	2000	4000	8000
L_{WA} to inlet	dBA	69	35	47	62	61	64	67	58	55
L_{WA} to outlet	dBA	75	40	53	69	69	70	65	55	51
L_{WA} to environment	dBA	58	25	32	41	51	55	52	49	37

Technical Data

Model	Power Supply	Power (Watts)		Current (A)		Max Flow (m³/h)		Speed (rpm)		Noise Level					
										Low speed			High speed		
		Min	Max	Min	Max	Min	Max	Min	Max	Inlet Side	Discharge Side	Breakout	Inlet Side	Discharge Side	Breakout
TT SILENT-M100	220/1/50	24	26	0.10	0.11	170	240	2030	2630	17	18	10	23	24	12
TT SILENT-M125		25	30	0.11	0.13	230	340	1650	2310	18	19	10	26	26	12
TT SILENT-M150		45	52	0.2	0.23	405	555	1970	2645	33	33	10	40	40	22
TT SILENT-M200		78	110	0.35	0.49	810	1020	2015	2445	38	41	21	42	46	25
TT SILENT-M250		127	178	0.52	0.79	1050	1330	1965	2495	40	48	29	45	54	35
TT SILENT-M315		213	313	0.93	1.41	1530	1950	1975	2545	44	48	32	50	54	38

Noise data – Radiant dBA @ 3m, assuming spherical free field conditions.
Breakout noise level, solid rigid ducted both ends. Neoprene Sealed.

Dimensions

	Dimensions in mm					Mass (kg)	Figure #
	ØD	B	B1	H	L		
TT SILENT-M 100	98	215	243	237	505	4.6	1
TT SILENT-M 125	123	215	243	237	474	4.6	1
TT SILENT-M 150	147	247	274	260	580	6.1	1
TT SILENT-M 200	198	293	386	295	550	8	2
TT SILENT-M250	248	358	445	360	658	15	2
TT SILENT-M315	313	432	520	434	780	25	2

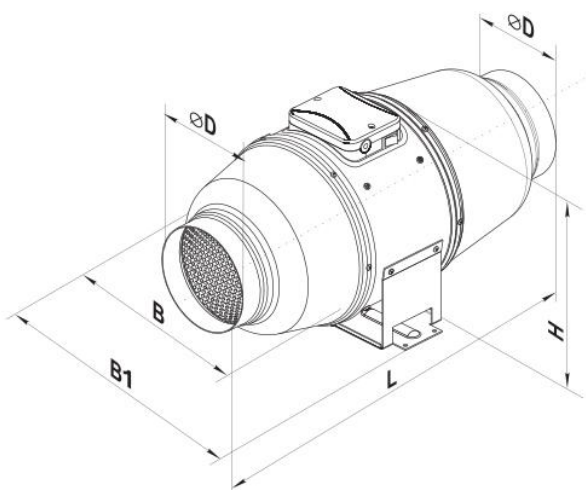


Fig. 1

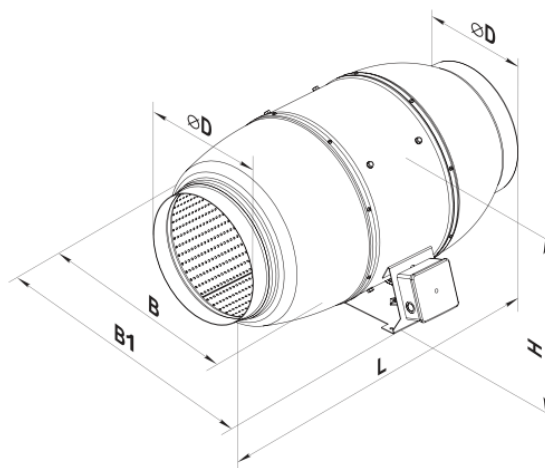


Fig. 2

Optional Accessories

Silencer	Neoprene Clamp	Damper	2 Speed Switch	Controller (Manual)	Controller (use with Sensors)
					
SILDDD/LLL	CZDDD	KOMUDDD	P210 – 10Amp	RS1400 – 4Amp	RS-3.0TA 4-20mA or 1-10V

**Back to Table of
Content**



Section C - Window, Wall & Ceiling Fans

Punto



Punto Filo



Vario



VP Ceiling Mounted



Airflow



VCN



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

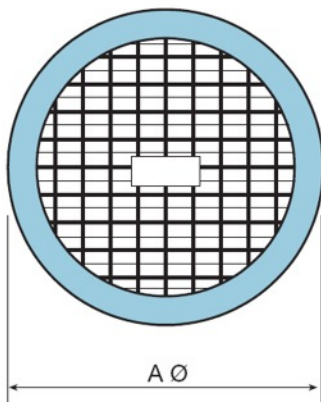
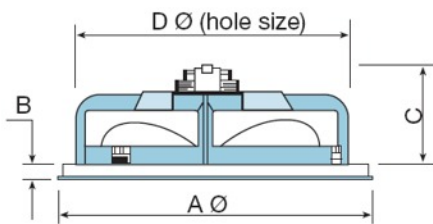
Airflow Ceiling Fans Propeller Type



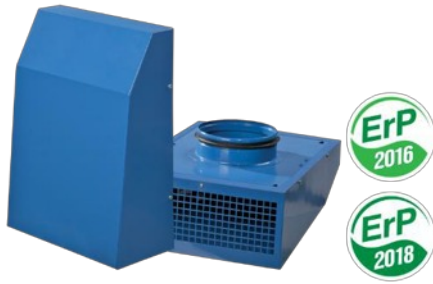
- Airflow range is easy to install
- The range is ideal for offices and homes
- Impeller design enhances efficiency and improves performance
- Compact high volume extract fan
- Aesthetically pleasing
- Silent Operation
- Flush Fitting
- Easily removable grill for easy cleaning
- Ball bearing design motor for continuous operation
- Patented white P.V.C. grill

Technical Characteristics

Model	Diameter	Watts	Airflow (m ³ /hour)	Voltage	Bearing Type
CE 200 BB	200mm	27	260	220 / 1 / 50	Ball Bearing
CE 250 BB	250mm	40	385	220 / 1 / 50	Ball Bearing



Dimensions in mm	CE 200 BB	CE 250 BB
A	305	345
B	23	19
C	110	110
D	232	284
Mass	1.3 kg	1.7 Kg



VCN External Mount Exhaust Fan

Exhaust ventilation system designed for air exhaust with the temperature up to 50°C.

Typical installation and uses would include office ventilation, smoking room extract and supply, restaurants, bathrooms and toilets exhaust air only.

The entire range offered is suitable for 220V 1Ph 50Hz power supply and operating conditions from -10°C ~ 50°C.

All models are fitted with thermal protection embedded in the motor winding.



Construction

Manufactured with a steel casing and protected by means of a polymeric coating. The external design is designed to project the motor again weather elements. Discharging downwards and fitted with a protective screen.

The cowl design limited wind pressure on the fan system reduces back flow of air to the premises.

Internally the fan spigot is fitted with a spring loaded back draft damper and soft closing function.

Motors

All models are fitted with ball bearing motors with service life designed at 40 000hrs at non-stop operating conditions and offer a IPX4 insulation rating. The motors have standard thermal overload protection embedded into the motor winding.



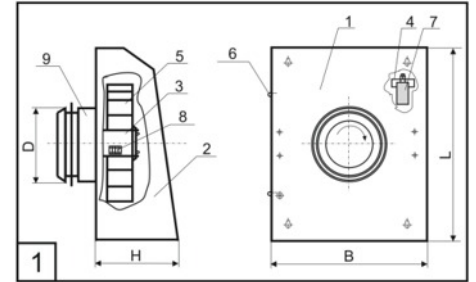
Speed Control

Smooth or step speed control is performed by means of the thyristor or autotransformer controller. Several fans can be connected to one controller in case the total power and operating current do not exceed the rated controller values.

Installation

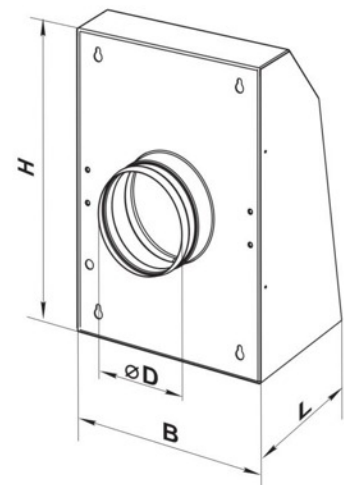
The fan is designed for outdoor surface wall mounting and connection to round duct of the respective diameter. The fan is powered through the external terminals. Electric connection

and mounting shall be performed in compliance with the manual and wiring diagram provided in unit operation manual.



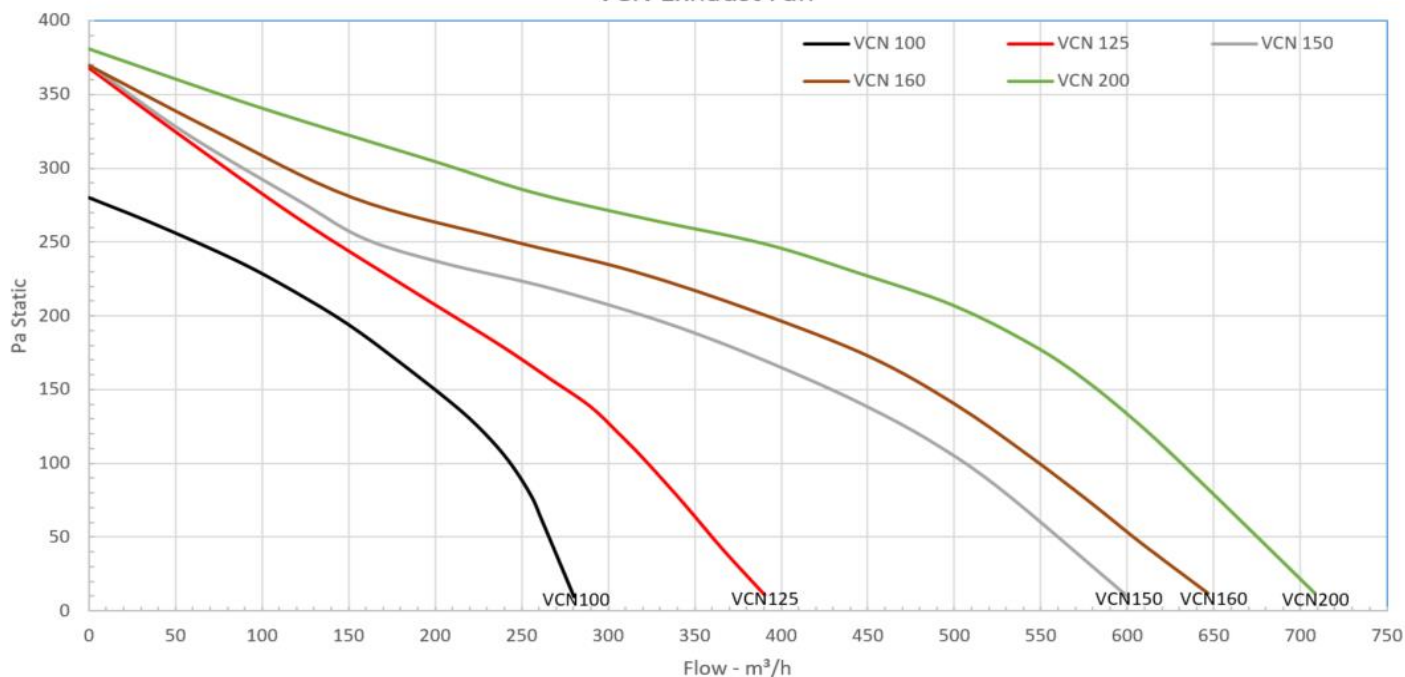
1 – casing, 2 – weather cover, 3 – motor bracket, 4 – capacitor bracket, 5 – motor & impeller, 6 – cover set screws, 7 – capacitor, 8 – electrical connection, 9 – connection spigot.

	ØD	B	H	L
VCN100	99	260	355	138
VCN125	124	260	355	138
VCN150	149	300	400	138
VCN160	159	300	400	138
VCN200	199	300	400	138





VCN Exhaust Fan



Technical Data

	Power	Watts (W)	Amps (A)	Max Flow (m³/h)	Rpm	Noise dBa @ 3m	Max Temp °C	IP	Mass (kg)
VCN100	230/1/50	71	0.31	325	2530	54	50	IP X4	3.82
VCN125	230/1/50	75	0.33	485	2475	54	50	IP X4	3.82
VCN150	230/1/50	96	0.42	630	2400	58	50	IP X4	4.53
VCN160	230/1/50	95	0.41	650	2440	60	50	IP X4	4.53
VCN200	230/1/50	96	0.42	700	2515	62	50	IP X4	4.62

Optional Accessories

Silencer	Neoprene Clamp	Damper	Controller (Manual)	Controller (use with Sensors)	
					
SILDDD/LLL	CZDDD	KOMUDDD	RS1400 – 4Amp	RS-3.0TA 4-20mA or 1-10V	

Punto Filo – Slim Range

Punto Filo - Slim Slim Wall & Ceiling Mount



- Face thickness only 17mm.
- All models are fitted with an auto back draft shutter.
- Units are suitable for intermittent or continuous ventilation of bathrooms, toilets, kitchens or utility rooms in domestic or commercial properties.
- Models are available with the option of Long Life bearings and timer.
- All the units are supplied with thermal cut out switches.
- Standard models can be speed controlled with a suitable Vortice controller.
- The styling was performed in parallel with a high advanced aerodynamic design that was accomplished by making a new impeller emitting very limited noise.
- IPX4 splashproof protection offered on all models.
- Motor support and grille made of anti-UV ABS.
- Timer models offer a 3-20minute overrun timer.
- Units can operate in ambient temperatures up to 50°C.

Punto Filo Wall & Ceiling

Technical Characteristics

	V ~ 50Hz	Watts	Amps	Rpm	Extraction Rate		Max Operating pressure <i>Pa</i>	Lp dB(A) 3m	Mass (kg)	IP Rating	Max Temp (°C)
					<i>m³/h</i>	<i>l/sec</i>					
MF100	230V	15	0.09	2400	85	24	29	31	0.51	X4	50
MF120	230V	20	0.12	2150	175	49	49	34.4	0.61	X4	50
MF150	230V	28	0.15	2100	335	93	59	40.1	0.97	X4	50
MF100 LL	230V	15	0.09	2400	85	24	29	31	0.52	X4	50
MF120 LL	230V	20	0.12	2150	175	49	49	34.4	0.62	X4	50
MF150 LL	230V	28	0.15	2100	335	93	59	40.1	0.98	X4	50

STANDARD

Models are fitted with shaded poles and have bronze bushes fitted.

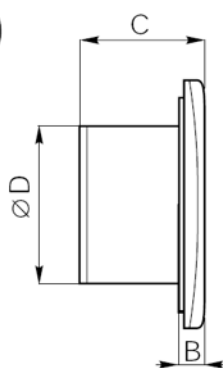
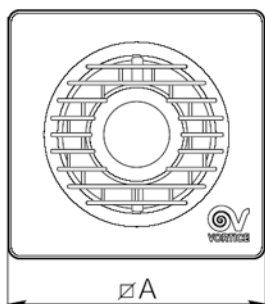
LONG LIFE 30.000 h

Long Life (LL) models are fitted with long life ball bearing motors, designed for 30,000hrs continuous, trouble free operation.

TIMER

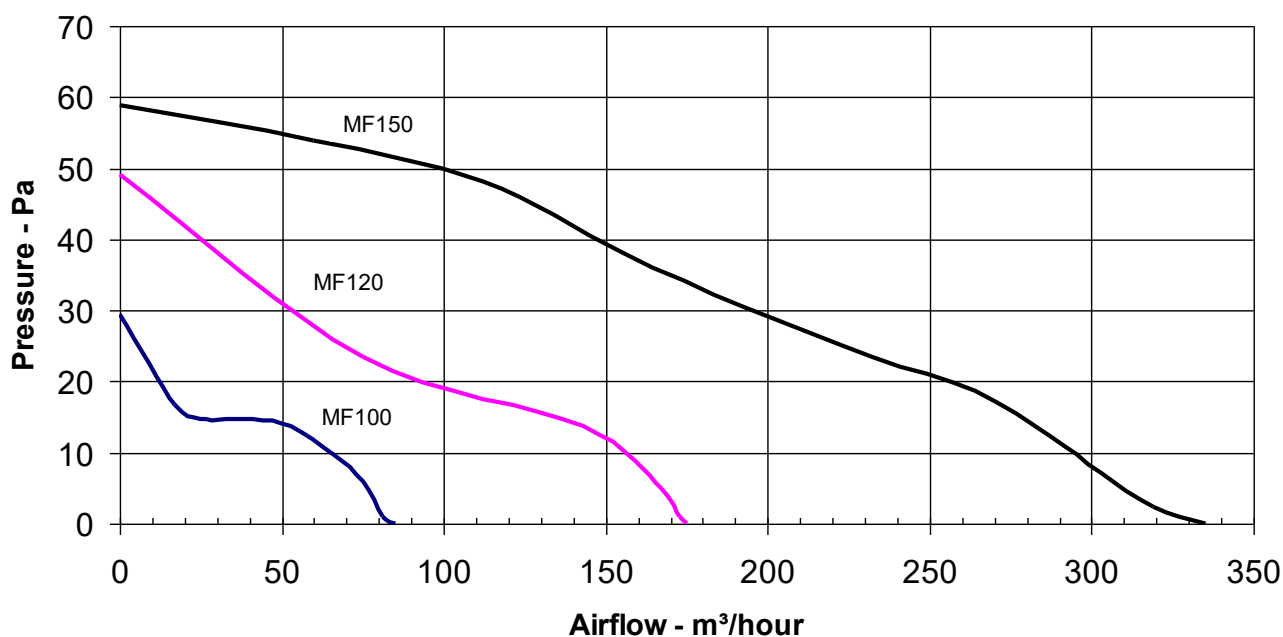
The timer comes on when the light is switched on. When the light is switched off the unit will continue to operate between 3-20 minutes, depending on the timer setting.

Dimensions (mm)



	A	B	C	D
MF100	159	17	77	98
MF120	179	17	89	119
MF150	214	17	96	156

Pressure / Performance Curves (1.2kg/m³, 20°C)



Accessories

C1.5 electronic controller	Suitable for MF100, MF100LL, MF120, MF120LL, MF150, MF150LL
Fixed Grilles	Suitable for all models
Ceiling Kits	Suitable for LL models only
Passive Sensor	Suitable for Standard, Automatic & LL Models

Ceiling Kit



Kit Codes

SF100

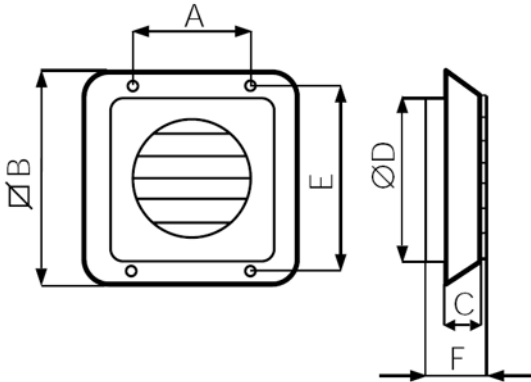
Made of soft rubber to prevent water infiltration and to maintain IPX4 protection on all surfaces.

SF120

Use only LL models for Ceiling type installations.

SF150

Fixed Grilles



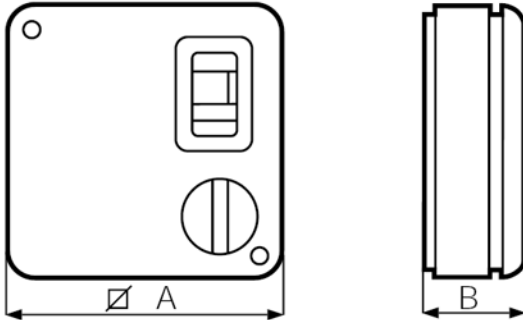
For outside Walls.

Grilles are supplied in Grey Colour.

Suitable for use with all Punto Filo Models.

	A	B	C	D	E	F
GF1 / 10	100	150	24	97	133	50
GF 1 / 12/15	110	197	30	155	180	-

Speed Controller – C1.5



Non reversible variable electronic speed controller.

Maximum load capacity, 200Watts.

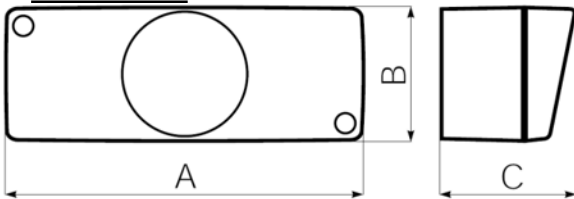
Not suitable for products fitted with timers.

Model is double insulated for added safety.

Surface mount box only.

	A	B	Max Load
C 1.5	120	43	200 Watt

PIR Sensor



Passive infrared movement sensor.

3-20minute adjustable timer.

Maximum load capacity, 200Watts.

Surface mount box only.

	A	B	C	Max Load
C-PIR	144	54	55.8	200 Watt

Specifications may change without prior notice.

Punto

Punto Window / Wall / Ceiling Mount

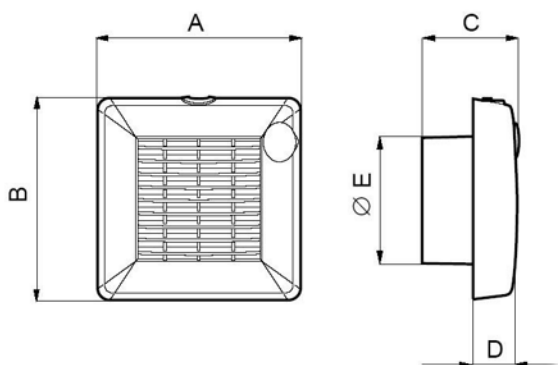


- Units are suitable for intermittent or continuous ventilation of bathrooms, toilets, kitchens or utility rooms in domestic or commercial properties.
- Models are available with the option of Long Life bearings, timer or automatic shutters.
- All the units are supplied with thermal cut out switches.
- Standard models can be speed controlled with a suitable Vortice controller.
- High airflow rate, low operating noise level and low power consumption due to the wing profile blades and motor support.
- IPX4 splashproof protection offered on all models.
- Motor support and grille made of anti-UV ABS.
- Timer models offer a 3-20minute overrun timer.
- Units can operate in ambient temperatures up to 50°C.
- M100/4 & M100/4A - 12V units available on special request.

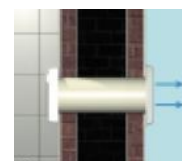
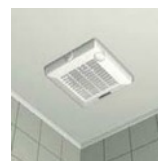
Punto Window / Wall / Ceiling

Technical Characteristics

	V ~ 50Hz	Watts	Amps	Rpm	Extraction Rate		Max Operating pressure	Lp dB(A) 3m	Mass (kg)	IP Rating	Max Temp (°C)
					m³/h	l/sec	Pa				
M100/4	230V	18	0.1	2300	90	25	29	37.5	0.6	IPX4	50°C
M120/5	230V	20	0.12	2100	175	48.6	44	39.5	0.8	IPX4	50°C
M150/6	230V	30	0.15	2100	335	93.1	59	46	1.1	IPX4	50°C



	A	B	C	D	E
M100/4	159	160	100	47	99
M120/5	179	181	110	49	119
M150/6	214	215	117	47	156





STANDARD

Models are fitted with shaded poles and have bronze bushes fitted.

LONG LIFE 30.000 h

Long Life (LL) models are fitted with long life ball bearing motors, designed for 30,000hrs continuous, trouble free operation.



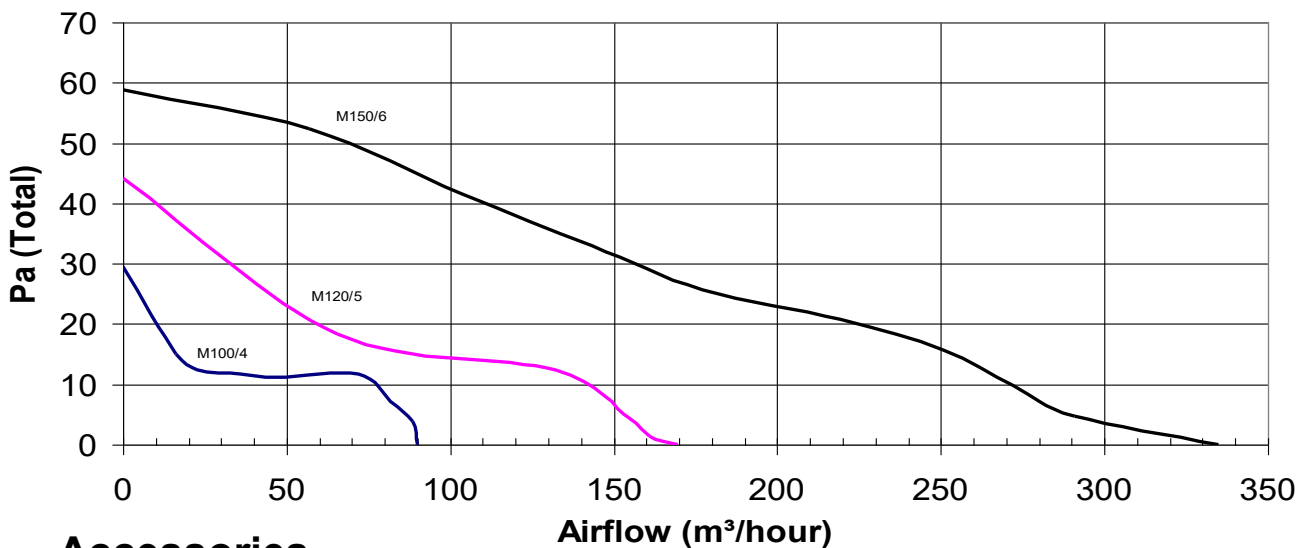
AUTOMATIC

The integral shutters positioned behind the front grill automatically open and close slowly when the unit is operated. The shutters are made from shockproof anti-UV-treated plastic.

TIMER

The timer comes on when the light is switched on. When the light is switched off the unit will continue to operate between 3-20 minutes, depending on the timer setting.

Pressure / Performance Curves (1.2kg/m³, 20°C)



Accessories

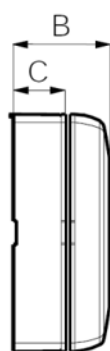
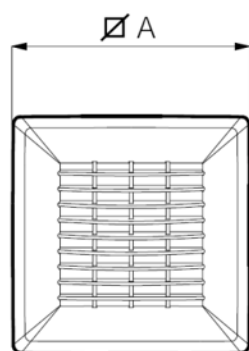
C1.5 electronic controller	Suitable for M100/4, M100/4LL, M120/5, M120/5LL, M150/6, M150/6LL
Fixed Grilles	Suitable for all models
Gravity Grilles	Suitable for all models
Window kits	Suitable for all models
Ceiling Kits	Suitable for LL models only
Flexible Ducting	Max 4m & 2 x 90° bends, Available on request, all Models
Passive Sensor	Suitable for Standard, Automatic & LL Models



Window Kits



- Window kits will convert any Vortice Punto model suitable for window type installations.
- The performance data for the fan and kit combination referenced below.
- The kit consist of closed cell, expanded-polyethylene gasket, external grille, intermediate flange fitting, spacer and anti-UV-treated ABS ring.
- Glass thickness; 3mm min to 20mm max.



	A	B	C	Ø hole in glass	Max Thickness
F100/4	158	69	22	123-128	20
F120/5	179	80	33	143-148	20
F150/6	213	87	40	178-183	20

The following are the performance values for the product operating with the Window Kit

	V ~ 50Hz	Watts	Amps	Rpm	Extraction Rate		Lp dB(A) 3m	Mass (kg)	IP Rating	Max Temp (°C)
					m³/h	l/sec				
F100/4	230V	18	0.1	2300	85	23.6	38	0.85	IPX4	50°C
F120/5	230V	20	0.12	2000	140	38.9	40.5	1.15	IPX4	50°C
F150/6	230V	30	0.15	1950	280	77.8	44.5	1.56	IPX4	50°C

Ceiling Kit



Kit Codes

S100/4

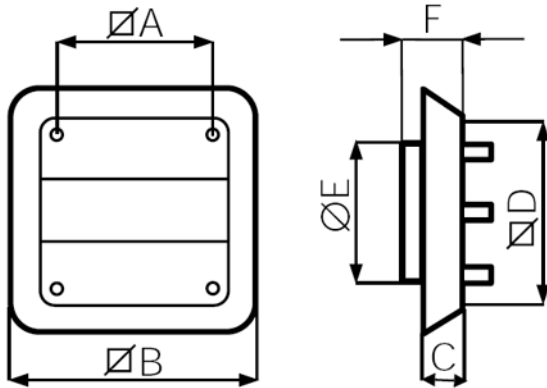
Made of soft rubber to prevent water infiltration and to maintain IPX4 protection on all surfaces.

S120/5

Use only LL models for Ceiling type installations.

S150/5

Gravity Grilles



For outside Walls.

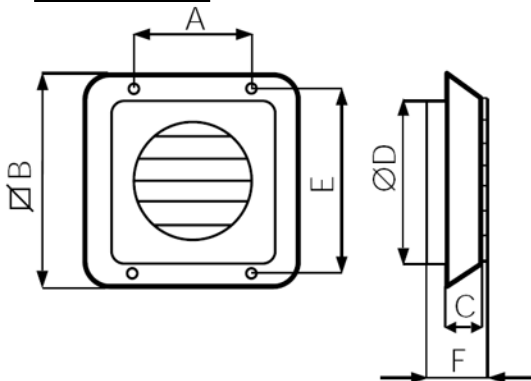
The shutters are automatically opened when the fan is switched on.

Grilles are supplied in Grey Colour.

Suitable for use with all Punto Models.

	A	B	C	D	E	F
GGR10	94	149	23.6	115	95.5	33.5
GGR12	126	197	30	152	118	40
GGR15	126	197	30	152	152	40

Fixed Grilles



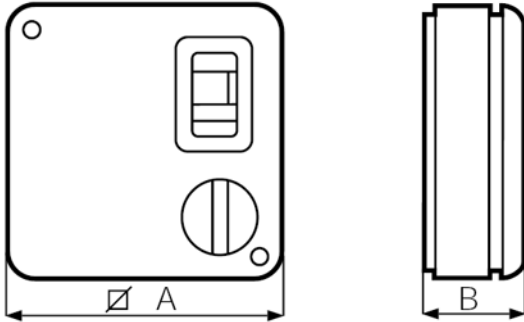
For outside Walls.

Grilles are supplied in Grey Colour.

Suitable for use with all Punto Models.

	A	B	C	D	E	F
GF1 / 10	100	150	24	97	133	50
GF 1 / 12/15	110	197	30	155	180	-

Speed Controller – C1.5



Non reversible variable electronic speed controller.

Maximum load capacity, 200Watts.

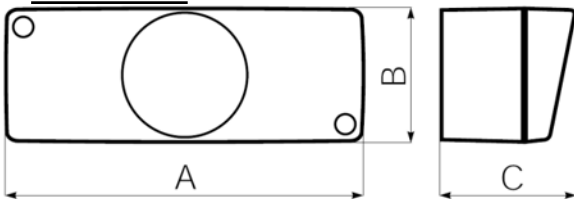
Not suitable for products fitted with timers or automatic shutters.

Model is double insulated for added safety.

Surface mount box only.

	A	B	Max Load
C 1.5	120	43	200 Watt

PIR Sensor



Passive infrared movement sensor.

3-20minute adjustable timer.

Maximum load capacity, 200Watts.

Surface mount box only.

	A	B	C	Max Load
C-PIR	144	54	55.8	200 Watt

Specifications may change without prior notice.

Vortice Vario Window / Wall / Ceiling Fans



- Easy and quick to install and maintain.
- Ideal for ventilation of small to large rooms in both domestic and commercial applications.
- A Wide range of products make installations suitable in nearly any type of application.
- The casings are made from shock resistant , UV stabilized ABS.
- The fans are fitted with impellers of the latest design offering the best efficiency, resulting in low power consumption.
- All models are IPX4 rated in compliance to IEC EN 60529 standards.
- Vario range offer silent operating conditions.
- All "AR" models are supplied with the option to operate in reverse.
- All materials used are recyclable.

Installation Types

Surface Mount
(Window / Wall)



Build-in



Pull Cord



Abbreviation on Models

P	Pull Cord – Manual Switching
A	Automatic – Automatic Back Draft Shutters
R	Reversible – Use with Reversible Switch
LL	Long Life – Motors fitted with Ball Bearings
S	Super – Enhanced Performance
I	Built-In



Technical Characteristics

Product	V 50/60Hz	W	A	Rpm	Performance		Lp dB(A) 3m	Kg	Ins.	IP	°C Max
					m³/h	L/s					
150/6 P	220/240	18	0.1	1340	235	65.3	37.5	2.07	Cł II	X4	50
230/9 P	220/240	22	0.1	790	480	133	35.6	3.45	Cł II	X4	50
150/6 AR	220/240	25	0.11	1340 ₁ 2040 ₂	235 ₁ 150 ₂	65.3 ₁ 41.7 ₂	37.5	2.07	Cł II	X4	50
230/9 AR	220/240	26	0.13	790 ₁ 1080 ₂	480 ₁ 310 ₂	133 ₁ 86 ₂	35.6	3.45	Cł II	X4	50
300/12 AR	220/240	45	0.21	840 ₁ 1085 ₂	1050 ₁ 700 ₂	292 ₁ 194.4 ₂	40.2	6.13	Cł II	X4	50
150/6 AR LLS	220/240	35	0.17	2110 ₁ 2520 ₂	380 ₁ 215 ₂	105.6 ₁ 59.7 ₂	49.6	2.07	Cł II	X4	50
230/9 AR LLS	220/240	35 ₁ 40 ₂	0.19	1200 ₁ 1300 ₂	700 ₁ 370 ₂	194.4 ₁ 102.8 ₂	43.6	3.45	Cł II	X4	50
300/12 AR LLS	220/240	75 ₁ 90 ₂	0.41	1215 ₁ 1280 ₂	1650 ₁ 920 ₂	458.3 ₁ 255.6 ₂	53.6	6.13	Cł II	X4	50
150/6 ARI	220/240	25	0.11	1330 ₁ 1880 ₂	220 ₁ 130 ₂	61.1 ₁ 36.6 ₂	38.2	2.52	Cł II	X4	50
230/9 ARI	220/240	26	0.13	810 ₁ 1080 ₂	450 ₁ 300 ₂	125 ₁ 83.3 ₂	35.7	3.88	Cł II	X4	50
300/12 ARI	220/240	45	0.21	850 ₁ 1150 ₂	1200 ₁ 850 ₂	333.3 ₁ 236.1 ₂	40.7	7.2	Cł II	X4	50
150/6 ARI LLS	220/240	35	0.17	2080 ₁ 2460 ₂	350 ₁ 200 ₂	97.2 ₁ 55.6 ₂	49.1	2.52	Cł II	X4	50
230/9 ARI LLS	220/240	35 ₁ 40 ₂	0.19	1160 ₁ 1260 ₂	680 ₁ 350 ₂	188.9 ₁ 97.2 ₂	45.3	3.88	Cł II	X4	50
300/12 ARI LLS	220/240	75 ₁ 90 ₂	0.41	1230 ₁ 1310 ₂	1750 ₁ 1000 ₂	486.1 ₁ 277.7 ₂	53.5	7.2	Cł II	X4	50

1) Extract Mode

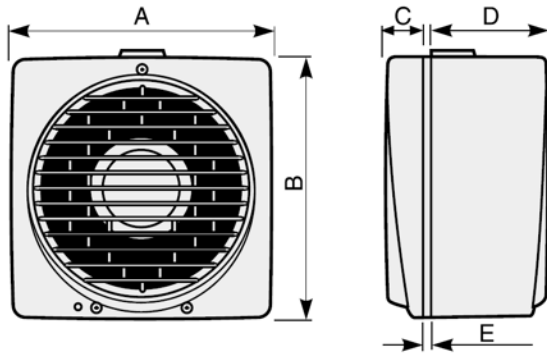
2) Intake (Reverse)

Any information published in this pamphlet is subject to change without prior notice.

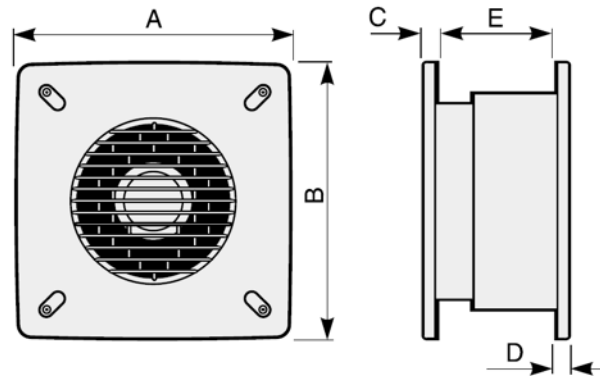


Dimensions - mm

Window / Wall Mount



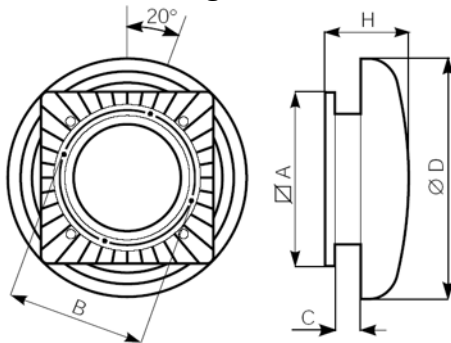
Built-In Configuration



Window Wall	A	B	C	D	E Min Max	Hole Ø
150/6	215	218	31	97.5	2 ~ 38	185 ~ 190
230/9	294	297	31	130	2 ~ 38	257 ~ 262
300/12	390	393	31	147	2 ~ 38	324 ~ 329

Built-In	A/B	C	D	E Min	Hole Size Sq
150/6	300	9.5	10.5	135	260 ~ 265
230/9	400	10	11	180	335 ~ 340
300/12	495	10.5	11.5	210	435 ~ 440

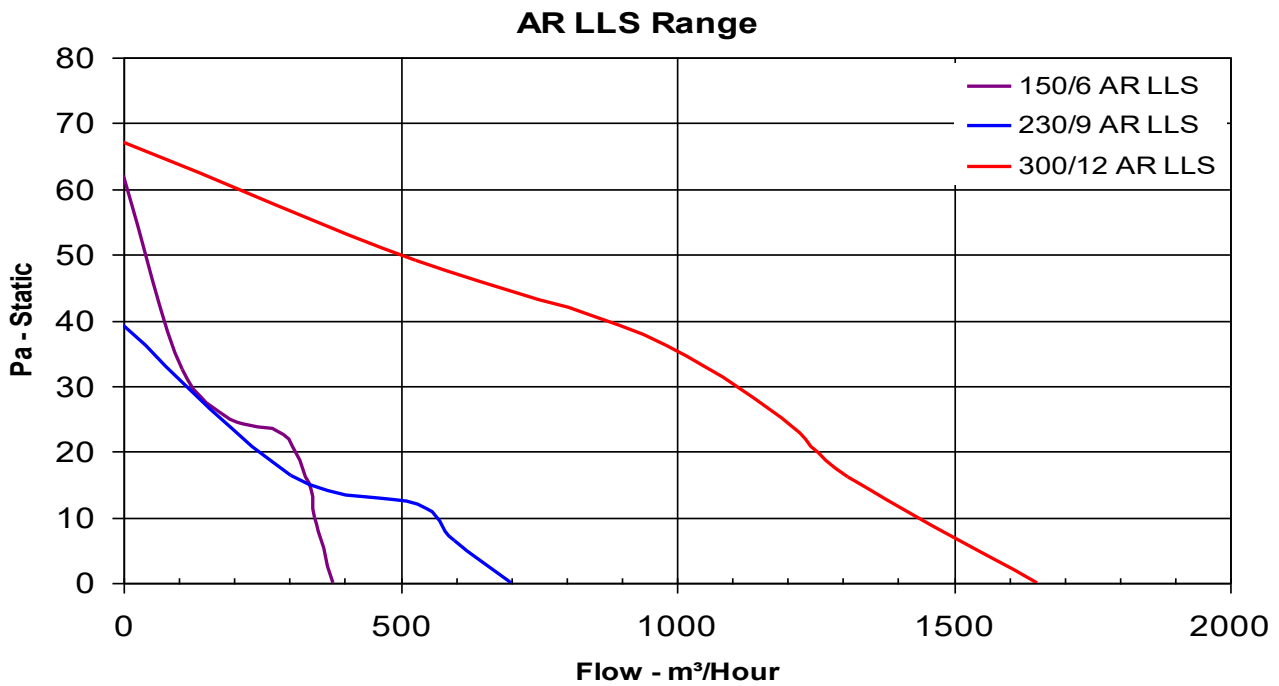
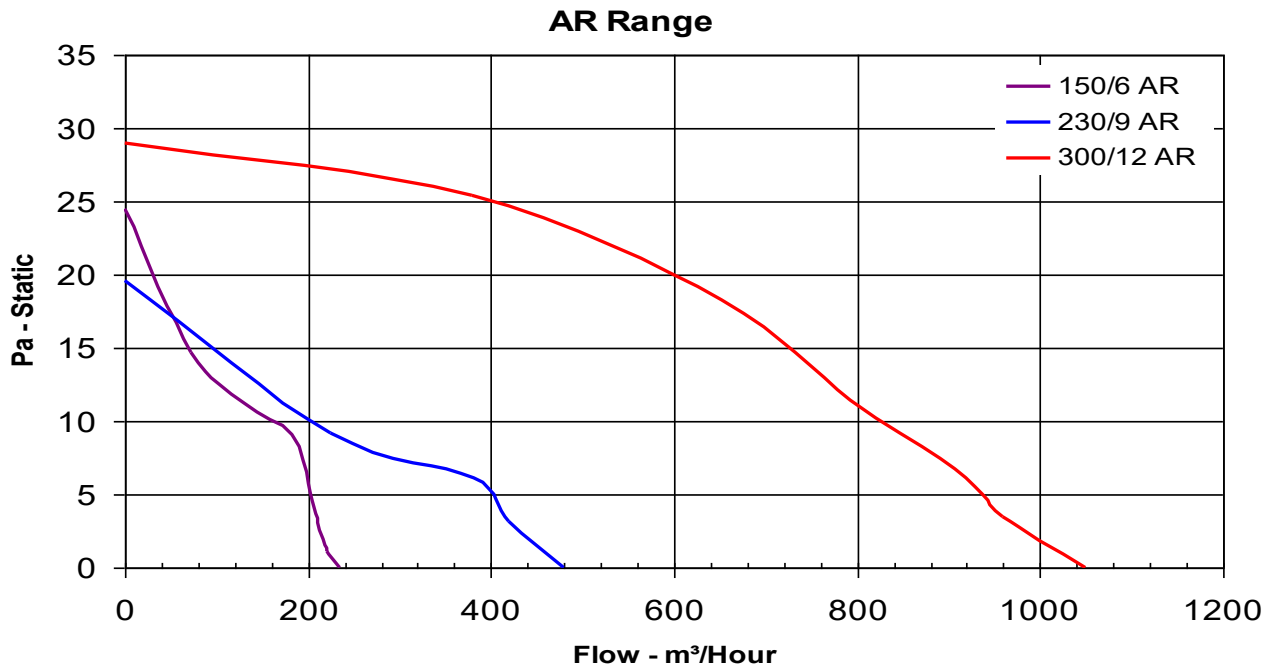
Roof Mounting Kit



Model	Code	ØD	SQ A	B	C	H
150/6	13001	300	215	175	28	111
230/9	13002	400	294	249	30	145
300/12	13003	534	390	316	33	181

Dark Room Cows are available upon request.

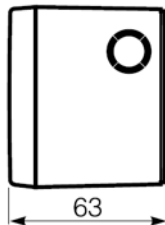
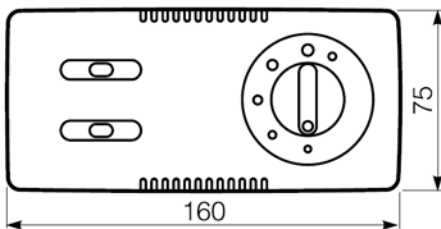
Performance Curves (1.2kg/m³, 20°C)



Suitable Accessories

CR5	5 Speed, On/Off., Reversible
CR5N	5 Speed, On/Off., Reversible, Natural Ventilation
CRN	On/Off., Reversible, Natural Ventilation
CPIR	Detects the presence of a moving body
C-HCS Humidity	Measures ambient Relative Humidity

Controller – CR5



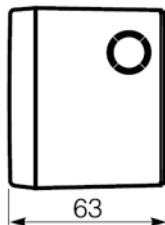
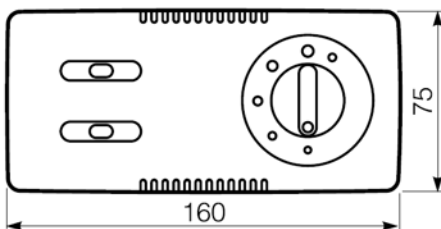
Maximum load capacity, 100Watts.

Not suitable for products fitted with timers.

Model is double insulated for added safety.

Surface mount box only.

Controller – CR5N



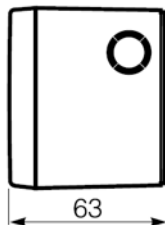
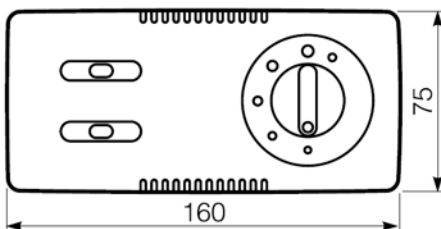
Maximum load capacity, 100Watts.

Not suitable for products fitted with timers.

Model is double insulated for added safety.

Surface mount box only.

Controller – CRN



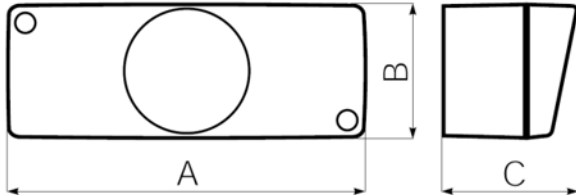
Maximum load capacity, 100Watts.

Not suitable for products fitted with timers.

Model is double insulated for added safety.

Surface mount box only.

CPIR Sensor



Passive infrared movement sensor.

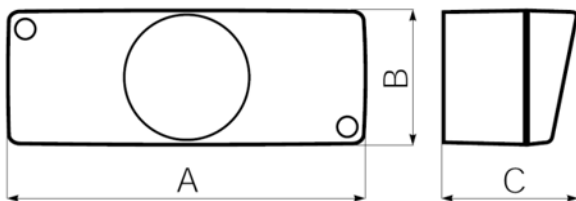
3-20minute adjustable timer.

Maximum load capacity, 200Watts.

Surface mount box only.

	A	B	C	Max Load
C-PIR	144	54	55.8	200 Watt

C-HCS Humidity Sensor



Measures ambient Relative Humidity.

Starts the fan when the RH exceeds 65%, Can also be wired to start fan when RH drops below 65%

3-20minute adjustable timer.

Maximum load capacity, 200Watts.

Surface mount box only.

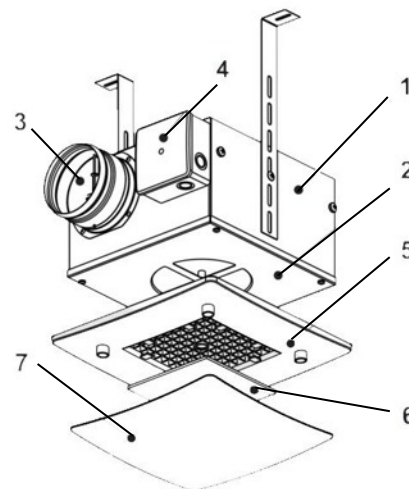
	A	B	C	Max Load
C-PIR	144	54	55.8	200 Watt

Specifications may change without prior notice.



Motor

Single phase external rotor motor with a centrifugal impeller and backward curved blades. The motor is equipped with built-in overheating protection with automatic restart. The motor ball bearings ensure 40 000 hours service life. For precise features, safe operation and low noise, each impeller is dynamically balanced while assembly. Motor ingress protection rating IP 44.



- 1 - Casing 2 - Lid
- 3 - Discharge Spigot
- 4 - Electrical Connection Terminal Box
- 5 - Grill 6 - Filter
- 7 - Decorative Panel

VP Ceiling mounted – Ducted Exhaust Fan

The VP Ceiling fans are enclosed in a low profile pre-galvanised designed casing fitted with a plastic front face with integral filter medium. Operating ranges up to 485m³/h and pressures up to 500Pa.

Application

The low profile design of the VP ceiling fans make them ideal for small ceiling spaces where a ducted exhaust system is required. VP models are fitted with backward curved impellers making the units ideal for ducted systems with medium to long duct run of either galvanised or flexible material.

Speed Control

Smooth or step speed control with a thyristor or autotransformer speed controller. Several fans may be connected to one speed controller provided that the total power and operating current do not exceed the rated speed controller parameters.



VP fan office ventilation example

Special Request

The range of fans is also available on special request with the following built-in or add on options:

(Special import only)

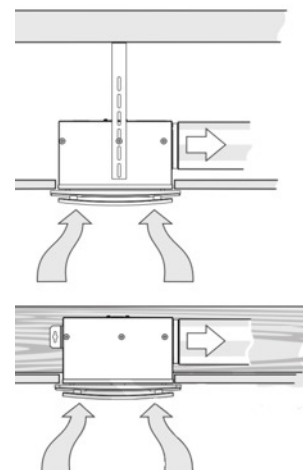
- Built-in overrun timer.
- Temperature sensors with speed controls for temperature triggered operation.
- Occupancy Sensors with timer control.
- Humidity Sensors with timer control.

Design

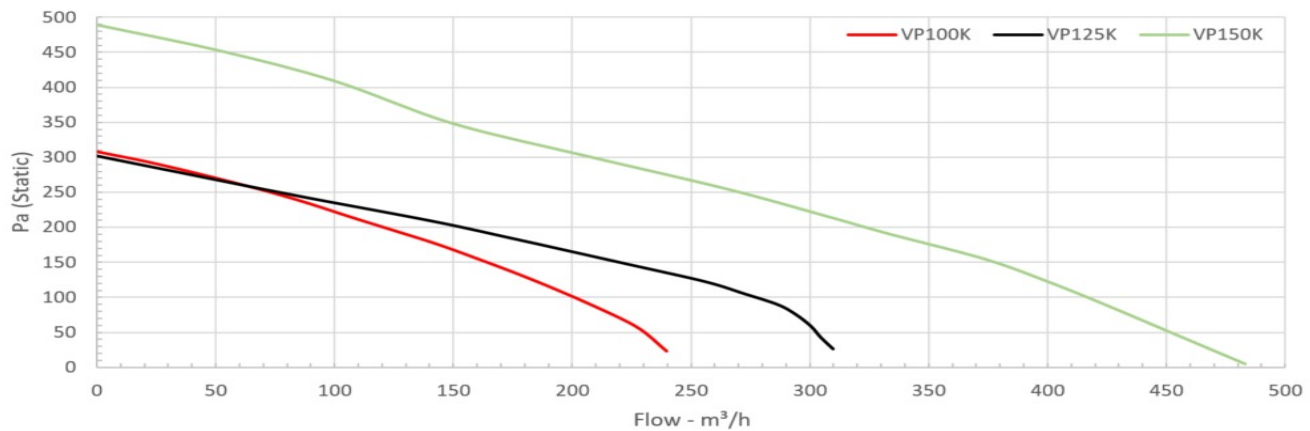
The fan casing is made of galvanized steel and the decorative front plate is made of ABS plastic and fitted with a filter. The front plate design ensures easy access to the filter without any tools. The fan is equipped with a backdraft damper to prevent reverse air flow. The damper blades are opened by air pressure generated by the fan and are closed with a spring.

Installation

The fan is mounted between the floor framing and false ceiling with brackets. The distance from the floor framing to the false ceiling may range from 165 mm to 390 mm. The fan is connected to power mains through the external terminal block. Electric connections and installation operations must be in compliance with installation guidelines and wiring diagram.



VP Ceiling Fans

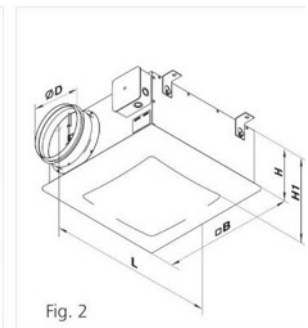
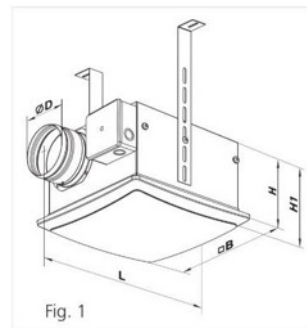


Technical Data

	Power Supply	Watts	Amps	Max flow	rpm	Noise @ 3m dBa	Operation temp - °C	IP Rating
VP100K	230/1/50	61	0.26	240	2500	47	-25 ~ +45	IPX4
VP125K	230/1/50	61	0.26	310	2500	48	-25 ~ +45	IPX4
VP150K	230/1/50	112	0.5	485	2465	52	-25 ~ +45	IPX4

Dimensions

	Dimensions in mm					Mass (kg)	Fig #
	ØD	B	H	H1	L		
VP100K	100	240	160	189	305	3.4	1
VP125K	125	240	160	189	305	3.4	1
VP150K	149	355	235	215	419	6.5	2



Optional Accessories

Silencer	Neoprene Clamp	Controller (Manual)	Controller (use with Sensors)	Occupancy Sensor	Run on Timer
				On Request	On Request
SILDDD/LLL	CZDDD	RS1400 – 4Amp	RS-3.0TA 4-20mA or 1-10V		

**Back to Table
of Content**

Section D - Cased Axial Fans

HCT



Majax-2 Bifurcated



Majax-2 Belt Drive



Majax-2



Maxflo



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

Long Cased Axial Fans

HCT FANS

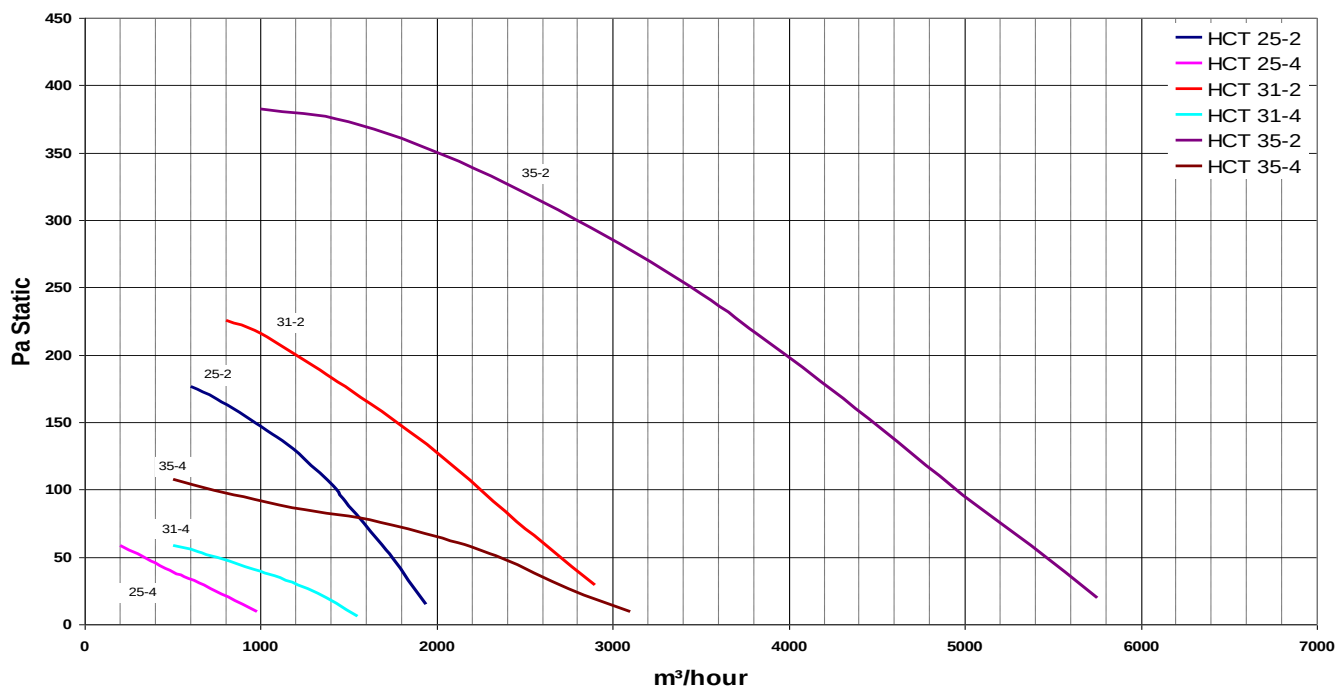


- Airflow direction; motor to impeller.
- Rolled sheet steel casing.
- IP-55 protected external connection box.
- Impeller: variable pitch blades, reinforced fibreglass polyamide 6 hub and blades.
- Three Phase motors 230/400V, 50 Hz
- Single Phase 230V, 50 Hz motors.
- IP55, Class F protection, ball bearings in motors.
- Operating temperature -25°C to +40°C.
- Anticorrosive finish in polyester resin, polymerised at 180°C, after degreasing, phosphating and passivation pre-treatment.
- On request:
 - Fans with form A impellers. (Over motor through Imp)
 - 100% reversible impellers
 - Category 2 ATEX certification for explosive atmospheres and CE Mark Ex II 2 G/D Eex E or D.

HCT Cased Axial Fans

Technical Characteristics

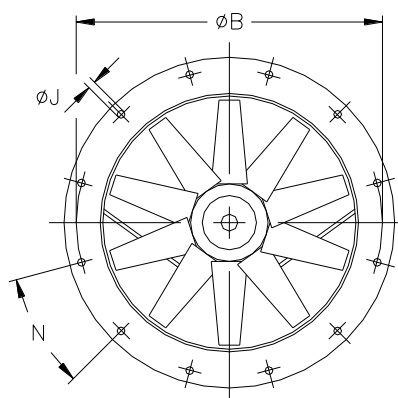
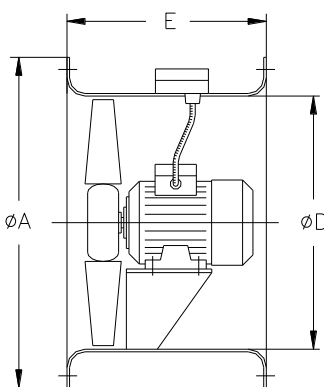
Model	Speed	Full Load current (A)			Installed Power (kW)	Max Airflow m ³ /hour	Sound level pressure dB(A) ¹	Approximate Mass (Kg)
		230V	400V	690V				
HCT 25-2T	2775	0.58	0.34	-	0.12	1 940	64	7
HCT 25-2M	2775	0.90	-	-	0.12	1 940	64	7
HCT 25-4T	1445	0.57	0.33	-	0.06	980	50	7
HCT 25-4M	1445	0.58	-	-	0.06	980	50	7
HCT 31-2T	2750	1.12	0.65	-	0.18	2 900	70	8
HCT 31-2M	2700	1.45	-	-	0.18	2 900	70	8
HCT 31-4T	1450	0.60	0.34	-	0.08	1 550	52	8
HCT 31-4M	1450	0.65	-	-	0.08	1 550	52	8
HCT 35-2T	2800	2.15	1.25	-	0.37	5 750	77	12
HCT 35-2M	2750	2.90	-	-	0.37	5 750	77	12
HCT 35-4T	1440	0.64	0.37	-	0.10	3 100	59	10
HCT 35-4M	1440	0.67	-	-	0.10	3 100	59	10



Note 1 (Page J1): Sound power levels in dB(A), obtained in hemispherical free field conditions, at a distance equivalent to twice the fan span plus the impeller diameter, with a minimum of 1.5m

	63	125	250	500	1000	2000	4000	8000
HCT 25-2	35	50	69	68	69	68	63	54
HCT 25-4	21	36	55	54	55	54	49	40
HCT 31-2	41	56	75	74	75	74	69	60
HCT 31-4	23	38	57	56	57	56	51	42
HCT 35-2	48	63	82	81	82	81	76	67
HCT 35-4	30	45	64	63	64	63	58	49

	ØA	ØB	ØD	E	E1	ØJ	N
HCT 25	310	280	240	230	10	10	4x90°
HCT 31	350	320	280	230	-	10	4x90°
HCT 35	425	395	355	230	-	10	8x90°





Majax2 Cased Axial Belt Driven

- Fans fitted with IP55 TEFC Class F electric motors.
- Casings include as standard an access panel.
- Variable pitch impeller blades.
- Range covers sizes from 400 to 1600mmØ
- Aerofoil aluminium blades in pressed steel hub
- Fans are selected from Majax2 performance curves
- Impellers dynamically balanced to ISO 1940 – G6.3
- Operating temperature 0 °C to 40°C
- *On special request;
Other voltages, finishes and material
Impellers available in Fabricated fixed pitch
arrangement
Twin Motors available upon request*

Majax2 Belt Driven axial flow fans are manufactured in diameter ranging from 400 to 2000mm (Bigger sizes available on special request) and incorporate manually adjustable pitch aluminium bladed impellers.

Applications

This range of fans is ideally suited for moving large volumes of air against low and medium pressures in the following typical applications:

Smoke control and exhausting heat from buildings

Spray booth extraction or where the fan would move contaminated flammable fumes.

Combinations of motor speeds, impellers blade pitch settings and the number of blades per impeller (Full and half solidity), provide flexibility in terms of selection. Fans offering good efficiencies can be selected over a range of volumes from 0.3m³/sec to over 50m³/sec at pressures up to 1000 Pa.

Sizes

Sizes vary in accordance with the preferred increments covered in ISO 4971973(E) R20. These sizes are:

400, 500, 560, 630, 710, 800, 900, 1000, 1250 & 1600mm Diameters.

Impellers

Impellers incorporate diecast aluminium alloy blades of aerofoil section, which are clamped in split steel hubs. (Majax2 1250H impellers have split aluminium hubs)

Blade pitch adjustment is achieved by slackening the hub clamp bolts and setting the blades to the required pitch prior to retensioning the clamp bolts.

Majax2 400 to 1250F impeller hubs are electro coated, Majax2 1250H hubs are aluminium cast and Majax2 1600 hubs are fabricated and hot dip galvanized. All aluminium surfaces are left natural. Fasteners used are zinc plated.

Balancing

Impellers are dynamically balanced to ISO 1940 grade G6.3.

Casings

Standard casing lengths (SL) usually cover the impeller and motor assemblies.

Casings incorporate viewing access panels for impeller / bearing inspection and relubrication where required.

Flange Dimensions and Drillings

Flange dimensions and drillings are in accordance with BS 6339, see dimension table for details.

Casing Finish

Casings are Hot Dip Galvanised to ISO 1461. All fasteners used are zinc plated.

Motors

Foot mounted motors are totally enclosed with minimum IP55 protection. Standard motors have Class F insulation. Standard voltages are 400V 3Ph 50Hz and 220V 1Ph 50Hz. Electrical performance complied with IEC 34.

Motors with nonstandard classes of insulation, special grease for low / high temperature, flameproof construction, special voltages, multi speed, etc are available on application.

Motor Supports

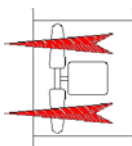
Belt driven fans utilize foot mounted motors fitted to motor support mounted externally on the fan casing.

Direction of Air Flow

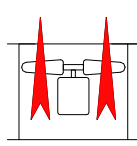
Forms A, AU and AB are standard arrangements for belt driven fans, having the bearing and drive assembly mounted upstream of the fan impellers. These forms can also be used on direct driven fans.

Mechanical details and bearing selection on all Majax2 fans, whether direct or belt driven, are suitable for any of these attributes.

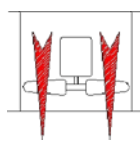
Form A



Form AU



Form AD



Bearing Life

Belt driven units are designed to have a 20 000 hour statistical bearing life.

Temperature Limitations

Majax2 fans are suitable for operating within the following temperature ranges:

Standard belt driven fans: 0°C ~ 40°C

Operating temperatures outside these limits are available upon special request.

Moisture Treatment

Standard fans are suitable for continuous operation in relative humidities up to 95%. Special treatment of fans is available to render them suitable for continuous operation in moisture laden atmospheres. This procedure involves additional mechanical and electrical sealing procedures.

Performance

All performance data is based on tests carried out in accordance with BS 848: Part 1 – test method No 1. Ratings are based on standard air density of 1.2kg/m³ corresponding to an air temperature of 20°C, a barometric pressure of 101.325 kPa and a relative humidity of 62%.

Power values given reflect fan shaft power without provision for drive losses.

Reversal of Air Flow

The direction of airflow of a standard impeller can be reversed by changing the direction of fan rotation. For selection details refer to Majax2 direct driven brochure.

Optional Features

Mounting feet, counter flanges, wire screens, conical inlet cones (bolton and integral), anti vibration mounts, casing access panels and flexible connections.

Manual, motorized or airstream operated dampers.

Matching size cylindrical sound attenuators.

Nonstandard casing lengths.

Special protective coatings.

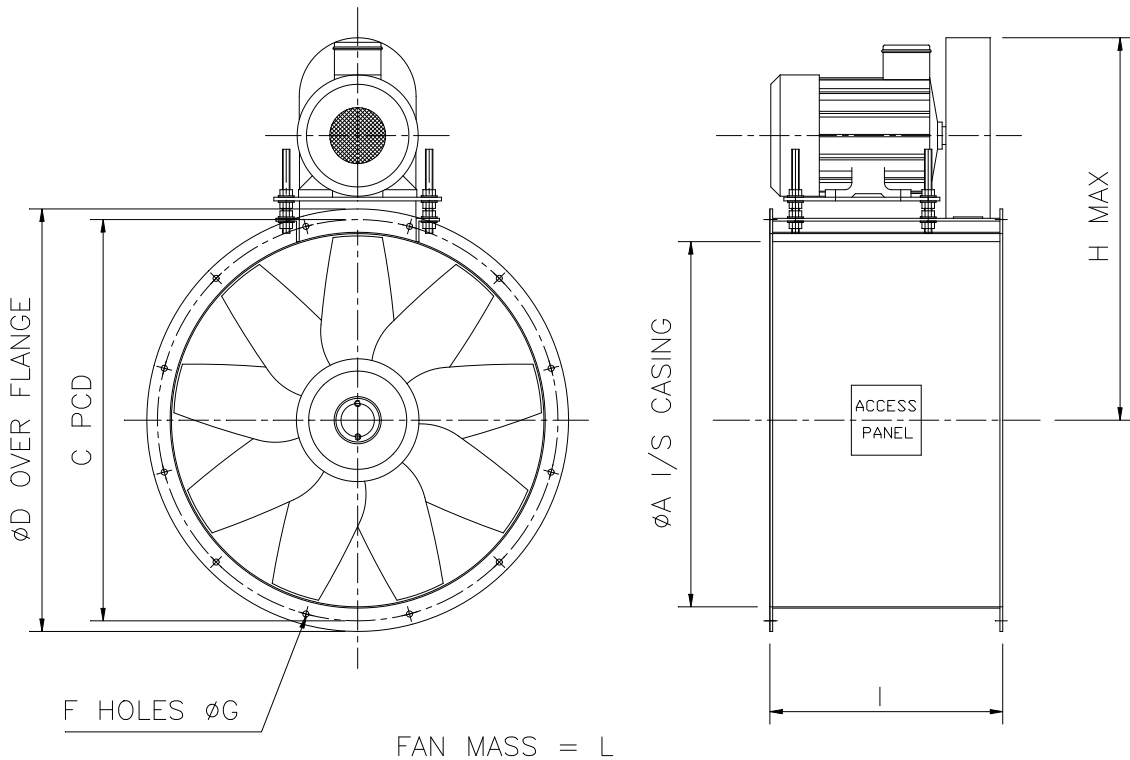
Sound Data

The sound data indicated on the performance graphs are "induct" values obtained from tests conducted in accordance with BS 848: Part 2 – Induct method. The higher values on the sound level contours are overall sound power levels (suffixed dBW), and the lower levels are average sound pressure levels, under free field conditions, at a distance of 3 impeller diameters from the fan inlet or outlet. Sound power levels are given in decibels re: 10^{12} Watts. Sound pressure levels are given in decibels re: 2×10^5 Pa. An octave band analysis can be obtained by subtracting the spectrum constants, tabulated on each performance curve, from the overall sound levels.

AScale levels are obtained by subtracting an A scale correction constant, given on each performance graph, from the overall sound level. "Freefield" sound levels incorporating inlet / outlet end reflection losses, are obtained by subtracting the constants (indicted on table 1) from the "Induct" octave band sound levels.

Fan Size	Octave Band Mean Frequency				
	63	125	250	500	1000+
400	13	8	3	1	0
500	11	6	2	0	0
560	10	5	2	0	0
630	9	5	1	0	0
710	8	4	1	0	0
800	7	3	1	0	0
900	6	2	1	0	0
1000	6	1	0	0	0
1250	5	1	0	0	0
1600	3	0	0	0	0
2000	2	0	0	0	0

Table 1



Fan Size A	Belt Drive Motor Power (kW)	C	D	F	G	H	I	L Mass (kg)
400	0.25 ~ 0.75	450	485	8	13	512	500	51
	1.1 ~ 1.5					585		60
	2.2 ~ 4.0					627		91
500	0.25 ~ 0.75	560	607	12	13	573	500	62
	1.1 ~ 1.5					626		71
	2.2 ~ 4.0					688		103
	5.5 ~ 7.5					725		135
560	0.25 ~ 0.75	620	667	12	13	627	500	67
	1.1 ~ 1.5					680	500	76
	2.2 ~ 4.0					722	500	108
	5.5 ~ 7.5					759	500	139
	11.0 ~ 15.0					874	740	246
630	0.25 ~ 0.75	690	737	12	13	666	500	71
	1.1 ~ 1.5					718		80
	2.2 ~ 4.0					761		112
	5.5 ~ 7.5					798		145
710	0.55 ~ 0.75	770	817	16	13	689	500	75
	1.1 ~ 1.5					742		84
	2.2 ~ 4.0					804		116
	5.5 ~ 7.5					841		149
800	0.75	860	907	16	13	737	500	87
	1.1 ~ 1.5					790		95
	2.2 ~ 4.0					852		129
	5.5 ~ 7.5					889		161
900	0.75	970	1039	16	13	810	500	110
	1.1 ~ 1.5					863	500	120
	2.2 ~ 4.0					905	500	152
	5.5 ~ 7.5					942	500	184
	11.0 ~ 15.0					1066	740	324



FAN MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

Majax2 Belt Driven

Fan Size A	Belt Drive Motor Power (kW)	C	D	F	G	H	I	L Mass (kg)
1000	1.1 ~ 1.5	1070	1141	16	15	915	500	131
	2.2 ~ 4.0					957	500	164
	5.5 ~ 7.5					994	500	194
	11.0 ~ 15.0					1119	740	362
	18.5 ~ 22.0					1159	740	412
	30.0					1172	990	573
	37.0					1238	990	670
1250H	5.5 ~ 7.5	1320	1392	20	15	1172	710	330
	11.0 ~ 15.0					1250	800	454
	18.5 ~ 22.0					1290	800	513
	30.0					1312	850	612
	37.0 ~ 45.0					1378	850	704
	55.0 ~ 75.0					1514	1000	1101
1600	5.5 ~ 7.5	1680	1743	24	19	1350	740	431
	11.0 ~ 15.0					1431	990	616
	18.5 ~ 22.0					1471	990	672
	30.0					1500	990	779
	37.0 ~ 45.0					1566	990	867
	55.0 ~ 75.0					1704	1190	1280
2000	18.5 ~ 22.0	2080	2173	24	19	1670	990	841
	30.0					1704	990	958
	37.0 ~ 45.0					1770	990	1045
	55.0 ~ 75.0					1914	1190	1480
	90.0 ~ 110.0					1968	1190	1792



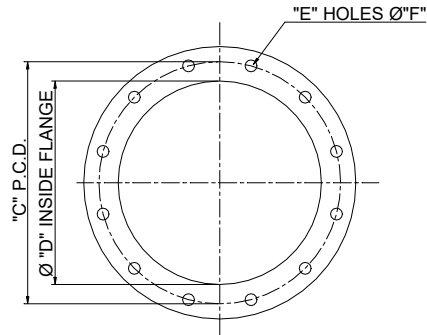
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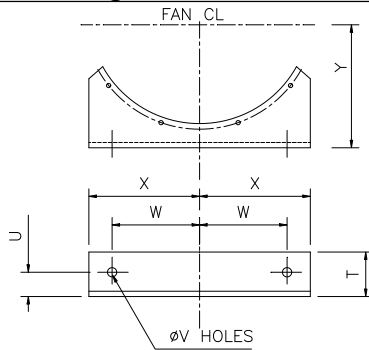
www.fanmovement.co.za
info@fanmovement.co.za



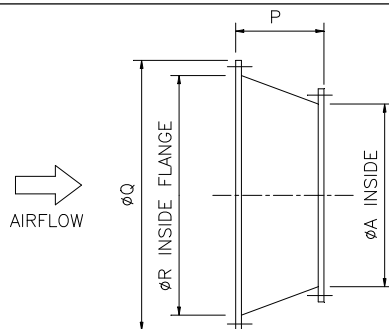
Unit 10, Prolecon Park
 4 Prolecon Rd Prolecon Jhb 2001

Counter Flange


Fan Size	C	D	E	F	Mass (kg)
400	450	405	8	13	2.64
500	560	507	12	13	4.12
560	620	567	12	13	4.56
630	690	637	12	13	5.08
710	770	717	16	13	5.68
800	860	807	16	13	12.68
900	970	909	16	13	18.28
1000	1070	1011	16	15	20.70
1250	1320	1262	20	15	25.52
1600	1680	1613	24	19	32.28

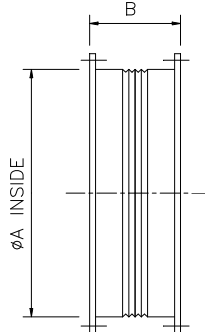
Mounting Feet


Fan Size	T	U	V	W	X	Y	Mass (kg)
400	40	22	13	162	180	285	0.59
500	40	22	13	232	250	355	1.28
560	39	22	13	232	250	385	1.91
630	39	22	13	262	280	420	2.20
710	39	22	13	282	300	465	2.21
800	39	22	13	332	350	518	3.81
900	54	30	15	355	380	595	4.86
1000	59	35	15	385	410	653	7.59
1250	60	35	15	525	555	812	13.05
1600	75	40	19	590	625	1035	20.54

Inlet Cone


Fan Size	P	Q	R	Mass (kg)
400	71	524	474	6.09
500	90	648	598	9.11
560	100	720	670	10.39
630	112	804	754	12.04
710	125	905	855	15.38
800	140	1006	956	17.85
900	162	1170	1090	31.18
1000	181	1286	1206	35.67
1250	224	1603	1503	50.41
1600	280	2050	1920	89.09

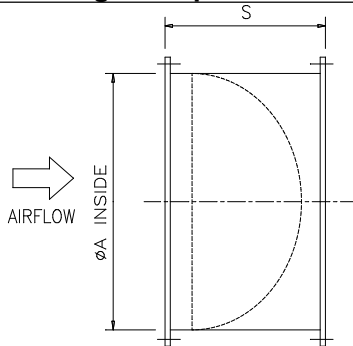
Flexible Connection



Flexible connection prices include a flanged flexible sleeve c/w a set of backing flanges.

Fan Size	B	Mass (kg)
400	120	2.77
500	120	4.33
560	120	4.79
630	120	5.33
710	120	5.96
800	120	13.31
900	120	19.19
1000	120	21.74
1250	160	26.80
1600	160	33.89

Discharge Damper



Discharge Dampers are available in gravity close, hand operation and pneumatic / electric actuator control. Air / Gravity operated dampers are suitable for horizontal or vertical up airflow only.

Fan Size	S	Mass (kg)
400	260	18
500	300	25
560	310	29
630	345	34
710	385	48
800	430	58
900	480	85
1000	530	102
1250	655	157
1600	830	340

Additional Accessories Available

- Casing access panels
- Inlet wire screen – bolt on to fan flange
- Discharge wire screen – bolt on to fan flange
- Inlet cone wire screen – bolt on to cone inlet flange
- Sound attenuators – see Silax brochure for details



Majax2 Bifurcated Aerofoil Axial Flow Fan

- Robust industrial construction
- Fitted with standard Majax2 Majax1 impellers
- Casing coated with standard finish
- Manually adjustable pitch impeller
- Electric motor removed from the air stream
- Easy motor access with Donkin tunnel design
- Suitable for temperatures up to 200°C
- Motors are all supplied IP55 TEFC Class F
- All Fasteners used are electroplated

On Request

- Special voltages
- Special materials including stainless steel
- Special coatings including Hot Dip Galvanised
- Special fabricated fixed pitch impellers

Majax2 Bifurcated axial flow fans are manufactured in diameter ranging from 400 to 1250mm and incorporate manually adjustable pitch aluminium bladed impellers.

Applications

The Bifurcated fan range is specially designed to handle air and fumes at temperatures up to 200°C.

Typically used on oven circulation, stack exhausts and the extraction of toxic / corrosive fumes.

Combinations of motor speeds, impellers blade pitch settings, provide flexibility in terms of selection. Fans offering good efficiencies can be selected over a range of volumes. Selections are done from the standard Majax2 curves with special correction factors as indicated in this brochure.

Sizes

Sizes vary in accordance with the preferred increments covered in ISO 4971973(E) R20. These sizes are:
400, 500, 560, 630, 710, 800, 900, 1000, 1250mm
Diameters.

Impellers

Impellers incorporate diecast aluminium alloy blades of aerofoil section, which are clamped in split steel hubs. (Majax2 1250H impellers have split aluminium hubs)

Blade pitch adjustment is achieved by slackening the hub clamp bolts and setting the blades to the required pitch prior to retensioning the clamp bolts.

Majax2 315 to 1250F impeller hubs are electro coated, Majax2 1250H hubs are aluminium cast. Selections are only possible in full blade solidities.

Balancing

Impellers are dynamically balanced to ISO 1940 grade G6,3.

Casings

Standard casings incorporate transverse motor mounting tunnels which, being open to the surrounding atmosphere, isolate the fan driving motors from the contaminated or hot air handled by these fans.

The casing length contains the impeller and motor assembly.

Flange Dimensions and Drillings

Flange dimensions and drillings are in accordance with BS 6339, see dimension table for details.



FAN MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

Casing Finish

Casings are generally supplied Hot Dip Galvanised to ISO 1461 for fans up to and including T125 rating. Fans rated T200 are coated with Donkin standard high temperature paint. Refer to Donkin for paint specification. All fasteners used are zinc plated. Fans below T125 can be supplied with special paint finishes if required.

Motors

Foot mounted motors are totally enclosed with minimum IP55 protection. Standard motors have Class F insulation. Standard voltages are 400V 3Ph 50Hz and 220V 1Ph 50Hz. Electrical performance complied with IEC 34.

Motors with nonstandard classes of insulation, special grease for low / high temperature, flameproof construction, special voltages, multi speed, etc are available on application.

Temperature Limitations

Majax2 Bifurcated fans are suitable for operating within the following temperature ranges.

Temperature ranges are identified by designations T70, T125 T200.

T70 0°C ~ 70°C

T125 0°C ~ 125°C

T200 0°C ~ 200°C

Operating temperatures outside these limits are available upon special request.

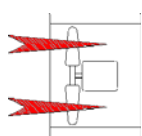
Bearing Life

2 pole units are designed to have a 20 000 hour statistical bearing life, and 4,6 and 8 pole units are designed to have a 20 000 hour statistical bearing life.

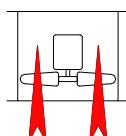
Direction of Air Flow

The Majax2 Bifurcated fan range is available only in a form B, BU and BA, having motors mounted downstream of the impellers.

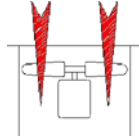
Form B



Form BU



Form BD



Moisture Treatment

Standard fans are suitable for continuous operation in relative humidities up to 95%. Special

treatment of fans is available to render them suitable for continuous operation in moisture laden atmospheres. This procedure involves additional mechanical and electrical sealing procedures.

Performance

All performance data is based on tests carried out in accordance with BS 848: Part 1 – test method No 1. Ratings are based on standard air density of 1.2kg/m³ corresponding to an air temperature of 20°C, a barometric pressure of 101.325 kPa and a relative humidity of 62%.

Power values given reflect fan shaft power without provision for drive losses.

Selection Procedure

The range of fans are selected from the Majax2 Majax1 standard selection curves or by using the Donkin fan selection program. On selection the following correction factors need to be applied to correct the additional losses induced by the motor tunnel.

Select the fans from the standard curves.

Maximum selectable blade angle – 26°

On selection, add 2° to the angle selected.

(Therefore a maximum blade angle of 28° after the correction factor has been applied)

Use the absorbed power for the higher pitch setting to select a suitable motor size.

Note that only full solidity selection can be made.

Permitted Motor Frame Sizes per Fan Size

The fans are limited to specific motor sizes as a result of the size of the motor tunnel. Below find a table with permitted motor frame sizes per fan size.

Fan Size	Motor Frame Size's							
	90S	90L	100L	112M	132S	132M	160 / L	180M
400	✓	✓	✓					
500	✓	✓	✓	✓				
560	✓	✓	✓	✓				
630	✓	✓	✓	✓				
710	✓	✓	✓	✓				
800			✓	✓	✓	✓		
900				✓	✓	✓		
1000					✓	✓	✓	
1250							✓	✓



Motor kW vs Frame Size's

Motor Frame Size	Motor Speed - Poles		
	2 Pole	4 Pole	6 Pole
90S	1.5	1.1	0.75
90L	2.2	1.5	1.1
100L	3.0	2.2 / 3.0	1.5
112M	4.0	4.0	2.2
132S	5.5 / 7.5	5.5	3.0
132M	9.2	7.5 / 9.2	4.0 / 5.5
160M	11 / 15	11	7.5
160L	18.5	15	11
180M	22	18.5	-

kW / Frame size's indicated above should be used as a guide only as this could vary from manufacturer to manufacturer.

Speed Limitations

Selections of the Bifurcated fans must be limited to the following maximum continuous operating speed as indicated below:

Fan Size	2 Pole	4 Pole	6 Pole
400	✓	✓	✓
500	✓	✓	✓
560	✓	✓	✓
630		✓	✓
710		✓	✓
800		✓	✓
900		✓	✓
1000			✓
1250			✓

Sound Data

The sound data indicated on the performance graphs are "induct" values obtained from tests conducted in accordance with BS 848: Part 2 – Induct method. The higher values on the sound level contours are overall sound power levels (suffixed dBW), and the lower levels are average sound pressure levels, under free field conditions, at a distance of 3 impeller diameters from the fan inlet or outlet.

Sound power levels are given in decibels re: 10^{12} Watts. Sound pressure levels are given in decibels re: 2×10^5 Pa.

An octave band analysis can be obtained by subtracting the spectrum constants, tabulated on each performance curve, from the overall sound levels.

AScale levels are obtained by subtracting an A scale correction constant, given on each performance graph, from the overall sound level. "Freefield" sound levels incorporating inlet / outlet end reflection losses, are obtained by subtracting the constants (indicted on table below) from the "Induct" octave band sound levels.

Fan Size	Octave Band Mean Frequency				
	63	125	250	500	1000+
400	13	8	3	1	0
500	11	6	2	0	0
560	10	5	2	0	0
630	9	5	1	0	0
710	8	4	1	0	0
800	7	3	1	0	0
900	6	2	1	0	0
1000	6	1	0	0	0
1250	5	1	0	0	0

Optional Features

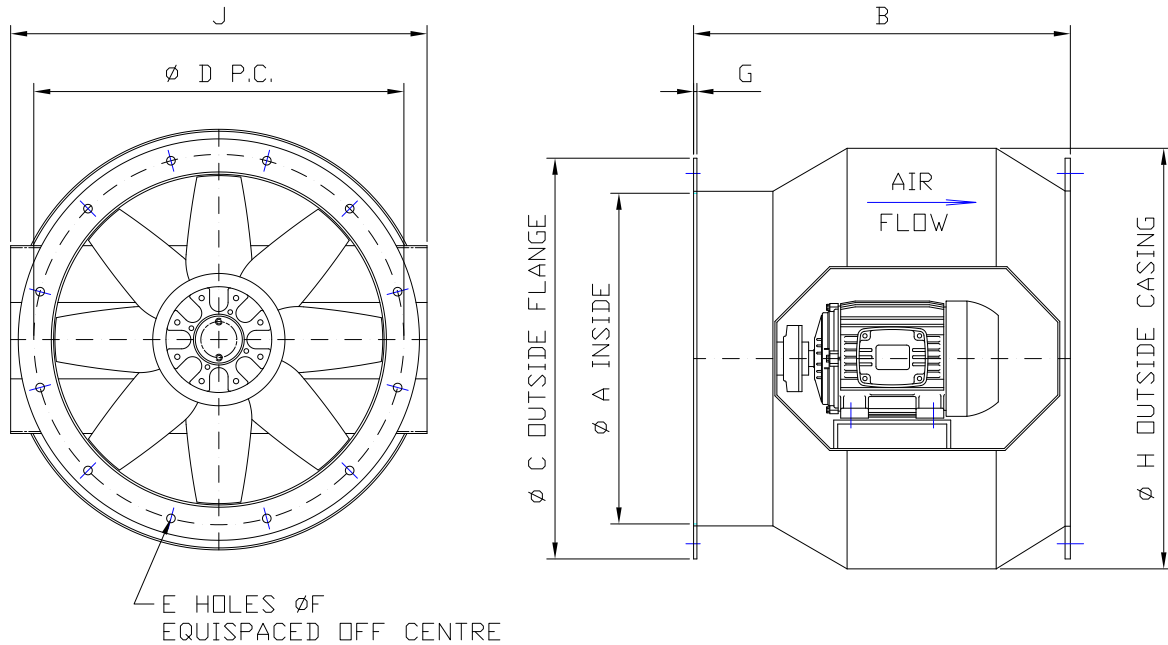
Mounting feet, counter flanges, wire screens, conical inlet cones (bolton and integral), anti vibration mounts, casing access panels and flexible connections.

Manual, motorized or airstream operated dampers.

Matching size cylindrical sound attenuators.

Nonstandard casing lengths.

Special protective coatings.



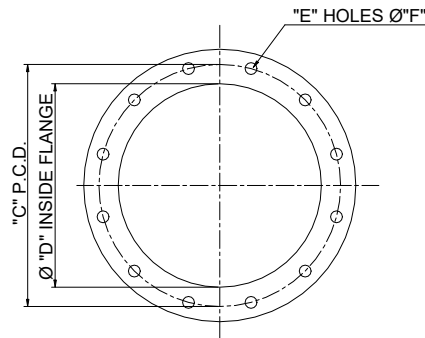
Fan Size A	B	C	D	E	F	G	H	J	Mass (kg)
400	560	485	450	8	13	2.8 / 5	526	520	40
500	570	604	560	12	13	2.8 / 5	636	630	53
560	580	667	620	12	13	4 / 5	690	680	62
630	580	737	690	12	13	4 / 5	766	760	68
710	660	817	770	16	13	4 / 5	861	855	84
800	750	907	860	16	13	5 / 5	958	950	142
900	800	1039	970	16	13	5 / 6	1078	1070	174
1000 ₁	800	1141	1070	16	15	5 / 6	1178	1170	196
1000 ₂	940	1141	1070	16	15	5 / 6	1178	1170	216
1250	1065	1392	1320	20	15	6 / 6	1520	1510	377

- 1) 1000mm Diameter fan fitted with 132 Frame Size motor
 2) 1000mm Diameter fan fitted with 160 Frame size motor
 3) Mass excludes the motor mass, indicated below

Motor Frame Size	Motor Mass
90 S	17 kg
90 L	19 kg
100 L	26 kg
112 M	28 kg

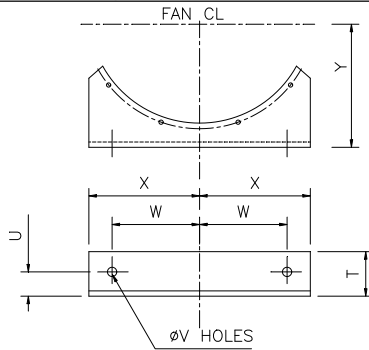
Motor Frame Size	Motor Mass
132 S	57 kg
132 M	65 kg
160 & 160 L	139 kg
180 M	175 kg

Counter Flange



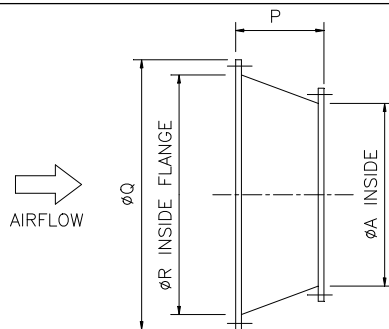
Fan Size	C	D	E	F	Mass (kg)
400	450	405	8	13	2.64
500	560	507	12	13	4.12
560	620	567	12	13	4.56
630	690	637	12	13	5.08
710	770	717	16	13	5.68
800	860	807	16	13	12.68
900	970	909	16	13	18.28
1000	1070	1011	16	15	20.70
1250	1320	1262	20	15	25.52

Mounting Feet



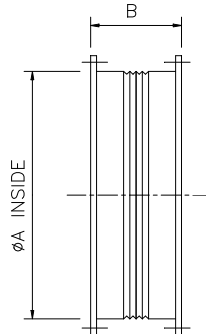
Fan Size	T	U	V	W	X	Y	Mass (kg)
400	40	22	13	162	180	285	0.59
500	40	22	13	232	250	355	1.28
560	39	22	13	232	250	385	1.91
630	39	22	13	262	280	420	2.20
710	39	22	13	282	300	465	2.21
800	39	22	13	332	350	518	3.81
900	54	30	15	355	380	595	4.86
1000	59	35	15	385	410	653	7.59
1250	60	35	15	525	555	812	13.05

Inlet Cone



Fan Size	P	Q	R	Mass (kg)
400	71	524	474	6.09
500	90	648	598	9.11
560	100	720	670	10.39
630	112	804	754	12.04
710	125	905	855	15.38
800	140	1006	956	17.85
900	162	1170	1090	31.18
1000	181	1286	1206	35.67
1250	224	1603	1503	50.41

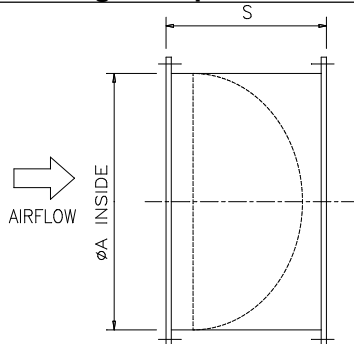
Flexible Connection



Flexible connection prices include a flanged flexible sleeve c/w a set of backing flanges.

Fan Size	B	Mass (kg)
400	120	2.77
500	120	4.33
560	120	4.79
630	120	5.33
710	120	5.96
800	120	13.31
900	120	19.19
1000	120	21.74
1250	160	26.80

Discharge Damper



Discharge Dampers are available in gravity close, hand operation and pneumatic / electric actuator control. Air / Gravity operated dampers are suitable for horizontal or vertical up airflow only.

Fan Size	S	Mass (kg)
400	260	18
500	320	25
560	350	29
630	385	34
710	430	48
800	480	58
900	565	85
1000	620	102
1250	700	157

Additional Accessories Available

- Inlet wire screen – bolt on to fan flange
- Discharge wire screen – bolt on to fan flange
- Inlet cone wire screen – bolt on to cone inlet flange
- Sound attenuators – see Silax brochure for details

Majax-2 Long Cased Axial Direct Driven



- Fans fitted with IP55 TE Class F electric motors.
- Motors wired to external fixed terminal box.
- PAD mounted motors are mounted on internal anti-vibration mounts.
- Variable pitch impeller blades.
- Range covers sizes from 315 to 2250mmØ
- Aerofoil aluminium blades in pressed steel hub
- Fans are selected from Majax-2 performance curves or Donkin Fan selection program
- Impellers dynamically balanced to ISO 1940 – G6.3
- Operating temperature 0°C to 40°C
- *On special request;*
 - Other voltages, finishes and material
 - Impellers available in Fabricated fixed pitch arrangement
 - Dual directional airflow

Majax-2 axial flow fans are manufactured in diameters ranging from 315 to 2000mm (2250mm Diameter on special request) and incorporate manually adjustable pitch aluminium bladed impellers.

Applications

This range of fans is ideally suited for moving large volumes of air against low and medium pressures in the following typical applications:

- General Ventilation: kitchen canopies, supermarkets, airport buildings, underground car parks, stairwell pressurization, gymnasiums, stadium cloak rooms, industrial buildings etc.
- Air-conditioning
- Smoke control and exhausting heat from buildings
- Condenser cooling
- Cooling towers

Combinations of motor speeds, impellers blade pitch settings and the number of blades per impeller (Full and half solidity), provide flexibility in terms of selection. Fans offering good efficiencies can be selected over a range of volumes from 0.1m³/sec to over 100m³/sec at pressures up to 1000 Pa.

Sizes

Sizes vary in accordance with the preferred increments covered in ISO 497-1973(E) R20. These sizes are:

315, 400, 500, 560, 630, 710, 800, 900, 1000, 1250, 1600, 2000 & 2250mm Diameters.

Impellers

Impellers incorporate die-cast aluminium alloy blades of aerofoil section, which are clamped in split steel hubs. (Majax-2 1250-H impellers have split aluminium hubs)

Blade pitch adjustment is achieved by slackening the hub clamp bolts and setting the blades to the required pitch prior to re-tensioning the clamp bolts.

Majax-2 315 to 1250-F impeller hubs are electro coated, Majax-2 1250-H hubs are cast aluminium and Majax-2 1600, 2000 & 2250 hubs are fabricated and hot dip galvanized. All aluminium surfaces are left natural. Fasteners used are zinc plated.

Balancing

Impellers are dynamically balanced to ISO 1940 grade G6,3.

Fan Movement reserves the right to change product specifications without prior notice.

Casings

Standard casing lengths (SL) usually cover the impeller and motor assemblies. External terminal boxes are provided on the casings of fans fitted with standard totally enclosed motors. Casings incorporate viewing ports unless access panels are provided.

Flange Dimensions and Drillings

Flange dimensions and drillings are in accordance with BS 6339, see dimension table for details.

Casing Finish

Casings are Hot Dip Galvanised to ISO 1461. All fasteners used are zinc plated.

Motors

Motor frame size up to and including 160 are generally pad mounted motors. All other applications foot mounted motors are used. Pad and Foot mounted motors are totally enclosed with minimum IP55 protection. Standard motors have Class F insulation. Standard voltages are 400V 3Ph 50Hz and 220V 1Ph 50Hz. Electrical performance complied with IEC 34. Motors with non-standard classes of insulation, special grease for low / high temperature, flameproof construction, special voltages, multi-speed, etc are available on application.

Motor Supports

Fans up to size 1000, fitted with pad mounted motors up to frame 132, have motors mounted on plates suspended in rubber mountings to minimize noise and vibration. Bigger pad mounted motors are mounted by means of support rods.

Temperature Limitations

Majax-2 fans are suitable for operating within the following temperature ranges:

- *Standard direct driven fans:* 0 °C ~ +40°C

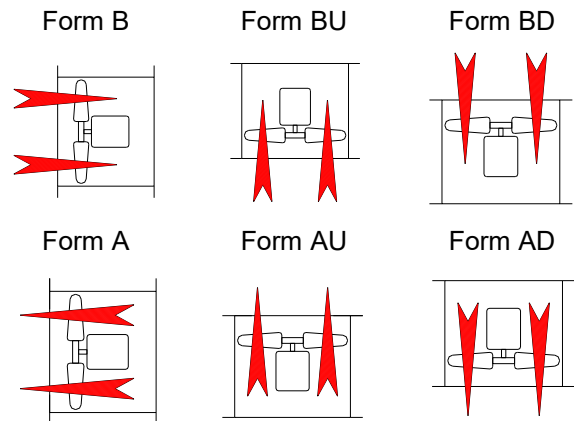
Operating temperatures outside these limits are available upon special request.

Bearing Life

2 pole units are designed to have a 20 000 hour statistical bearing life. 4,6 and 8 pole units are designed to have a 20 000 hour (vertical installation) and 40 000 hrs (Horizontal installation) statistical bearing life.

Direction of Air Flow

Standard form of airflow would be form B, BU and BA, having motors mounted downstream of the impellers.



Forms A, AU and AB are standard arrangements for belt driven fans, having the bearing and drive assembly mounted upstream of the fan impellers. These forms can also be used on direct driven fans.

Mechanical details and bearing selection on all Majax-2 fans are suitable for any of these attributes.

Moisture Treatment

Standard fans are suitable for continuous operation in relative humidities up to 95%. Special treatment of fans is available to render them suitable for continuous operation in moisture laden atmospheres. This procedure involves additional mechanical and electrical sealing procedures.

Performance

All performance data is based on tests carried out in accordance with BS 848: Part 1 – test method No 1. Ratings are based on standard air density of 1.2kg/m³ corresponding to an air temperature of 20°C, a barometric pressure of 101.325 kPa and a relative humidity of 62%.

Power values given reflect fan shaft power without provision for drive losses.

Fan Movement reserves the right to change product specifications without prior notice.

Reversal of Air Flow

The direction of airflow of a standard impeller can be reversed by changing the direction of fan rotation. Equal volume flow in either direction can be provided by means of special blade adjustments. The approximate resultant fan performance for the above conditions when compared with standard fan performance is as follows: (Table 1)

	Standard Impeller	Reversible Impeller
Volume Reduction	30%	15%
Pressure Reduction	55%	25%
Power Reduction	25%	20%

Table 1.

Sound Data

The sound data indicated on the performance graphs are "in-duct" values obtained from tests conducted in accordance with BS 848: Part 2 – In-duct method. The higher values on the sound level contours are overall sound power levels (suffixed dBW), and the lower levels are average sound pressure levels, under free field conditions, at a distance of 3 impeller diameters from the fan inlet or outlet. Sound power levels are given in decibels re: 10^{-12} Watts. Sound pressure levels are given in decibels re: 2×10^{-5} Pa.

An octave band analysis can be obtained by subtracting the spectrum constants, tabulated on each performance curve, from the overall sound levels.

A-scale levels are obtained by subtracting an A-scale correction constant, given on each performance graph, from the overall sound level.

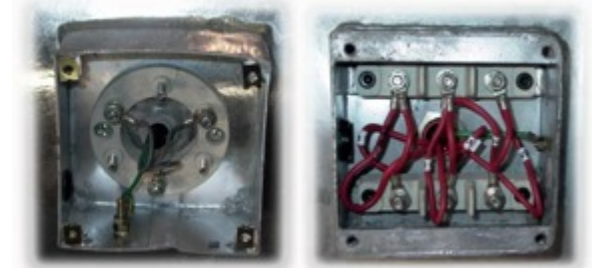
"Free-field" sound levels incorporating inlet / outlet end reflection losses, are obtained by subtracting the constants (indicated on table 2) from the "In-duct" octave band sound levels.

Alternatively refer to Donkin Fan selection software.

Fan Size	Octave Band Mean Frequency				
	63	125	250	500	1000+
315	14	9	5	2	0
400	13	8	3	1	0
500	11	6	2	0	0
560	10	5	2	0	0
630	9	5	1	0	0
710	8	4	1	0	0
800	7	3	1	0	0
900	6	2	1	0	0
1000	6	1	0	0	0
1250	5	1	0	0	0
1600	3	0	0	0	0
2000	2	0	0	0	0

Table 2.

Typical External Terminal Box



Optional Features

Mounting feet, counter flanges, wire screens, conical inlet cones (bolt-on and integral), anti-vibration mounts, casing access panels and flexible connections.

Manual, motorized or airstream operated dampers.

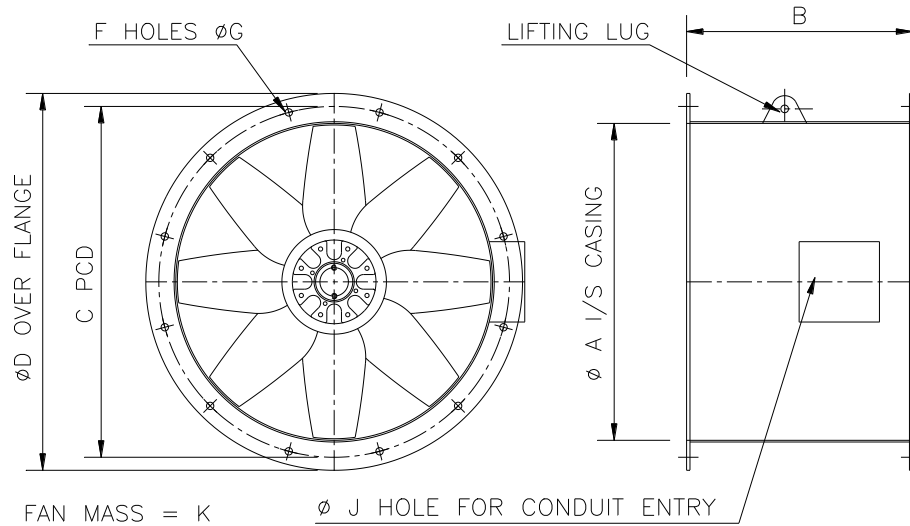
Matching size cylindrical sound attenuators.

Non-standard casing lengths.

Special protective coatings.

Fan Movement reserves the right to change product specifications without prior notice.





Fan Size A	Direct Drive Fan Speed / Motor kW				B	C	D	F	G	J	Mass (Kg)
	2 Pole	4 Pole	6 Pole	8 Pole							
315	0.25~0.75	0.08~0.55	0.06~0.55	-	315	355	380	8	11	22	27
400	0.55~2.2	0.18~0.55	0.12~0.55	-	400	450	485	8	13	22	38
500	0.75~2.2	0.18~1.5	0.12~0.55	-	400	560	607	12	13	22	47
	3.0~4.0	-	-	-							75
560	1.1~2.2	0.37~1.5	0.12~0.55	-	400	620	667	12	13	22	44
	3.0~4.0	-	-	-	400						79
	5.5~7.5	-	-	-	500						110
630	-	0.37~1.5	0.12~1.1	-	400	690	737	12	13	22	47
	3.0~4.0	2.2~3.0	-	-	400					22	81
	5.5~7.5	-	-	-	500					22	116
	11.0	-	-	-	630					34	167
710	-	0.55~1.5	0.55~1.2	0.25	400	770	817	16	13	22	54
	-	2.2~4.0	1.5~2.2	0.75~1.5	400						89
	-	5.5~7.5	3.0~5.5	-	500						123
800	-	0.75~1.5	0.55~1.1	0.25	400	860	907	16	13	22	64
	-	2.2~4.0	1.5~2.2	0.75~1.5	400					22	98
	-	5.5~7.5	3.0	-	500					22	123
	-	11.0	-	-	710					34	223

Fan Movement reserves the right to change product specifications without prior notice.



Fan Size A	Direct Drive Fan Speed / Motor kW				B	C	D	F	G	J	Mass (Kg)
	2 Pole	4 Pole	6 Pole	8 Pole							
900	-	1.1~1.5	0.55~1.1	-	400	970	1039	16	13	22	86
	-	2.2~4.0	1.5~2.2	0.75~1.5	400					22	123
	-	5.5~7.5	3.0~5.5	2.2~3.0	500					22	160
	-	11.0~15.0	-	-	630					34	233
1000	-	-	1.1	-	400	1070	1141	16	15	22	94
	-	3.0~4.0	1.5~2.2	0.75~1.5	400					22	133
	-	5.5~7.5	3.0~5.5	2.2~3.0	560					22	180
	-	11.0~15.0	7.5~11.0	4.0	770					34	279
	-	18.5~22.0	-	-	770					34	337
1250-H	-	-	3.0~5.5	-	560	1320	1392	20	15	22	300
	-	11.0~15.0	7.5~11.0	-	800					34	420
	-	18.5~22.0	15	-	800					34	480
	-	30.0	18.5~22.0	-	850					42	540
	-	37.0~45.0	30	-	1000					*1	670
	-	55.0~75.0	-	-	1000					*1	879
	-	90	-	-	1120					*1	1112
1250-F	-	-	2.2	1.1~1.5	560	1320	1392	20	15	22	195
	-	-	3.0~5.5	2.2~3.0	560					22	243
	-	-	7.5~11.0	4.0~7.5	800					34	363
	-	-	15	11.0	800					34	418
	-	-	18.5~22	-	850					42	478
1600	-	-	11.0	4.0~7.5	740	1680	1743	24	19	34	514
	-	-	15.0	11.0	740					34	572
	-	-	18.5~22.0	15.0	990					42	708
	-	-	30	18.5~22.0	1190					*1	905
	-	-	37.0~45.0	30.0~37.0	1190					*1	1072
	-	-	55.0~75.0	-	1490					*1	1313
2000	-	-	-	11.0	740	2080	2173	24	19	34	737
	-	-	-	15.0	990					42	883
	-	-	-	18.5~22.0	1190					*1	1127
	-	-	-	30.0~37.0	1190					*1	1274
	-	-	-	45.0~55.0	1490					*1	1593
	-	-	-	75.0	1490					*1	1806

1) Terminal Boxes are supplied with a 180*90mm cut out, covered with a bolt on cover for onsite drilling of the cable entry.



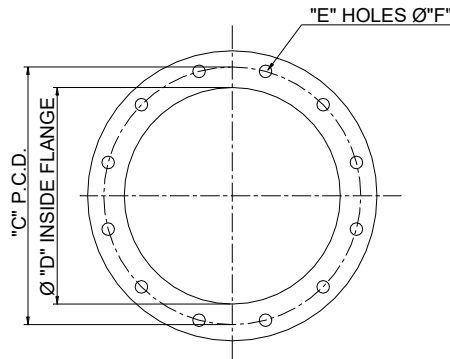


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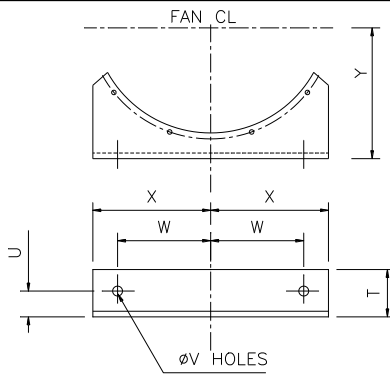
Majax-2 Long Cased

Counter Flange



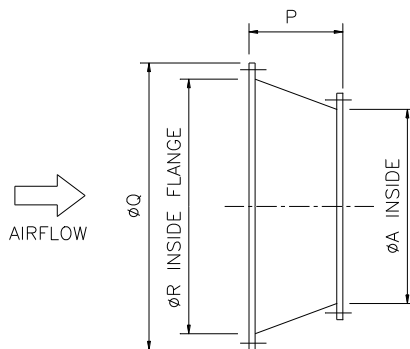
Fan Size	C	D	E	F	Mass (kg)
315	355	320	8	11	1.52
400	450	405	8	13	2.64
500	560	507	12	13	4.12
560	620	567	12	13	4.56
630	690	637	12	13	5.08
710	770	717	16	13	5.68
800	860	807	16	13	12.68
900	970	909	16	13	18.28
1000	1070	1011	16	15	20.70
1250	1320	1262	20	15	25.52
1600	1680	1613	24	19	32.28
2000	2080	2013	24	19	49.56

Mounting Feet



Fan Size	T	U	V	W	X	Y	Mass (kg)
315	35	20	11	125	140	240	0.41
400	40	22	13	162	180	285	0.59
500	40	22	13	232	250	355	1.28
560	39	22	13	232	250	385	1.91
630	39	22	13	262	280	420	2.20
710	39	22	13	282	300	465	2.21
800	39	22	13	332	350	518	3.81
900	54	30	15	355	380	595	4.86
1000	59	35	15	385	410	653	7.59
1250	60	35	15	525	555	812	13.05
1600	75	40	19	590	625	1035	20.54
2000	75	40	19	790	825	1234	29.19

Inlet Cone



Fan Size	P	Q	R	Mass (kg)
315	56	422	372	3.99
400	71	524	474	6.09
500	90	648	598	9.11
560	100	720	670	10.39
630	112	804	754	12.04
710	125	905	855	15.38
800	140	1006	956	17.85
900	162	1170	1090	31.18
1000	181	1286	1206	35.67
1250	224	1603	1503	50.41
1600	280	2050	1920	89.09
2000	355	2537	2407	142.22



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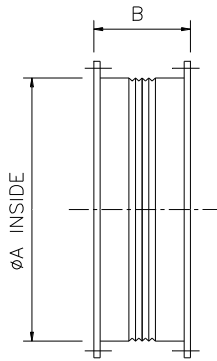


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Majax-2 Long Cased

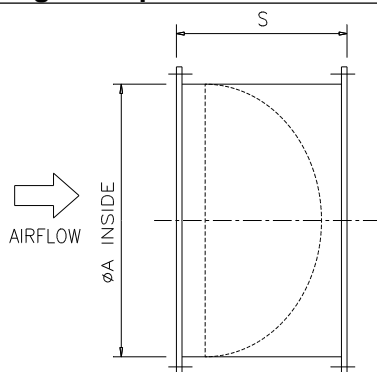
Flexible Connection



Fan Size	B	Mass (kg)
315	120	1.60
400	120	2.77
500	120	4.33
560	120	4.79
630	120	5.33
710	120	5.96
800	120	13.31
900	120	19.19
1000	120	21.74
1250	160	26.80
1600	160	33.89
2000	160	52.04

Flexible connection prices include a flanged flexible sleeve c/w a set of backing flanges.

Discharge Damper



Fan Size	S	Mass (kg)
315	220	13
400	260	18
500	320	25
560	350	29
630	385	34
710	430	48
800	480	58
900	565	85
1000	620	102
1250	700	157
1600	880	340
2000	1080	421

Discharge Dampers are available in gravity close, hand operation and pneumatic / electric actuator control.
Air / Gravity operated dampers are suitable for horizontal or vertical up airflow only.

Additional Accessories Available

- Casing access panels
- Inlet wire screen – bolt onto fan flange
- Discharge wire screen – bolt onto fan flange
- Inlet cone wire screen – bolt onto cone inlet flange
- Sound attenuators – see Silax brochure for details



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Maxflo Long Cased Axial Direct Driven



- Fans fitted with IP55 TE Class F electric motors.
- Motors wired to external fixed terminal box.
- PAD mounted motors are mounted on internal anti vibration mounts.
- Impeller blades are adjustable at standstill
- Range covers sizes from 315 to 1000mmØ
- Aerofoil aluminium blades in cast aluminium hub
- Fans are selected from maxflo performance curves
- Impellers dynamically balanced to ISO 1940 – G6.3
- Operating temperature 0 °C to +40°C

• *On special request;
Other voltages, finishes and material*

Maxflo axial flow fans are manufactured in diameter ranging from 315 to 1000mm and incorporate manually adjustable pitch aluminium bladed impellers.

Applications

This range of fans is ideally suited for moving large volumes of air against low and medium pressures in the following typical applications:

General Ventilation: kitchen canopies, supermarkets, airport buildings, underground car parks, stairwell pressurization, gymnasiums, stadium cloak rooms, industrial buildings etc.

Airconditioning

Smoke control and exhausting heat from buildings

Condenser cooling

Cooling towers

Combinations of motor speeds, impellers blade pitch settings and the number of blades per impeller (Full and half solidity), provide flexibility in terms of selection. Fans offering good efficiencies can be selected over a range of volumes from 0.1m³/sec to over 27m³/sec at pressures up to 950 Pa.

Sizes

Sizes vary in accordance with the preferred increments covered in ISO 4971973(E) R20.

These sizes are:

315, 400, 500, 560, 630, 710, 800, 900, 1000mm
Diameters.

Impellers

Impellers incorporate diecast aluminium alloy blades of aerofoil section, which are clamped in split aluminium hub. Blades are also available in a glass reinforced nylon.

Blade pitch adjustment is achieved by slackening the hub clamp bolts and setting the blades to the required pitch prior to retensioning the clamp bolts.

Balancing

Impellers are dynamically balanced to ISO 1940 grade G6,3.

Casings

Standard casing lengths (SL) usually cover the impeller and motor assemblies. External terminal boxes are provided on the casings of fans fitted with standard totally enclosed motors.

Casings incorporate viewing ports unless access panels are provided.

Flange Dimensions and Drillings

Flange dimensions and drillings are in accordance with BS 6339, see dimension table for details.

Casing Finish

Casings are Hot Dip Galvanised to ISO 1461. All fasteners used are zinc plated.

Motors

Motor frame size up to and including 160 are generally pad mounted motors. All other applications foot mounted motors are used. Pad and Foot mounted motors are totally enclosed with minimum IP55 protection. Standard motors have Class F insulation. Standard voltages are 400V 3Ph 50Hz and 220V 1Ph 50Hz. Electrical performance complied with IEC 34.

Motors with nonstandard classes of insulation, special grease for low / high temperature, flameproof construction, special voltages, multi speed, etc are available on application.

Motor Supports

Fans up to size 1000, fitted with pad mounted motors up to frame 132, have motors mounted on plates suspended in rubber mountings to minimize noise and vibration. Bigger pad mounted motors are mounted by means of support rods.

Temperature Limitations

Majax2 fans are suitable for operating within the following temperature ranges:

Standard direct driven fans: $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$

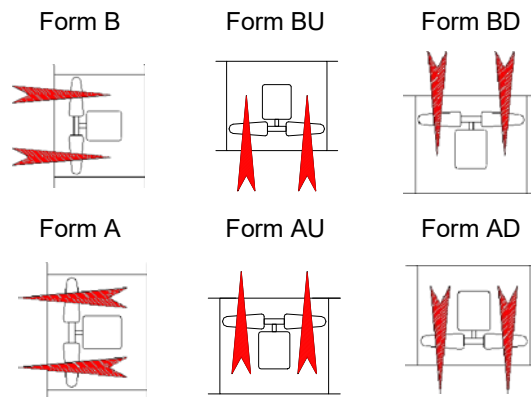
Operating temperatures outside these limits are available upon special request.

Bearing Life

Direct driven 2 pole units are designed to have a 20 000 hour statistical bearing life. 4,6 and 8 pole units are designed to have a 20 000 hour (vertical installation) and 40 000 hrs (Horizontal installation) statistical bearing life.

Direction of Air Flow

Standard form of airflow for direct driven arrangement would be form B, BU and BA, having motors mounted downstream of the impellers.



Forms A, AU and AB can also be used on direct driven fans. Mechanical details and bearing selection on all Maxflo fans are suitable for any of these attributes.

Moisture Treatment

Standard fans are suitable for continuous operation in relative humidities up to 95%. Special treatment of fans is available to render them suitable for continuous operation in moisture laden atmospheres. This procedure involves additional mechanical and electrical sealing procedures.

Performance

All performance data is based on tests carried out in accordance with BS 848: Part 1 – test method No 1. Ratings are based on standard air density of 1.2kg/m^3 corresponding to an air temperature of 20°C , a barometric pressure of 101.325 kPa and a relative humidity of 62%.

Power values given reflect fan shaft power without provision for drive losses.

Sound Data

Total sound power levels (dBW) in duct (Re: 10^{12} Watts) are indicated on the performance curves for each blade angle configuration. To obtain the full sound power spectrum over the midoctave frequencies, the figures indicated in the tables below should be deducted from these levels.

Octave Band mid Frequencies (Hz)	63	125	250	500	1000	2000	4000	8000
Table 1: 150 Hub – 5 Blade Impeller								
In Duct	8	6	11	8	6	10	15	22
Table 2: 150 Hub – 10 Blade Impeller								
In Duct	10	11	7	6	6	8	14	22
Table 3: 250 Hub – 7 Blade Impeller								
In Duct	12	9	11	6	5	9	15	24
Table 4: 250 Hub – 14 Blade Impeller								
In Duct	10	12	10	6	6	8	14	22

Free field sound power spectrum may be obtained by deducting the figures in table 5 below for each fan diameter.

Octave Band mid Frequencies (Hz)	63	125	250	500	1000	2000	4000	8000
315	14	9	5	1	0	0	0	0
400	12	8	4	1	0	0	0	0
500	10	6	2	0	0	0	0	0
560	9	5	2	0	0	0	0	0
630	9	4	2	0	0	0	0	0
710	8	4	1	0	0	0	0	0
800	7	3	1	0	0	0	0	0
900	6	2	0	0	0	0	0	0
1000	5	2	0	0	0	0	0	0

Optional Features

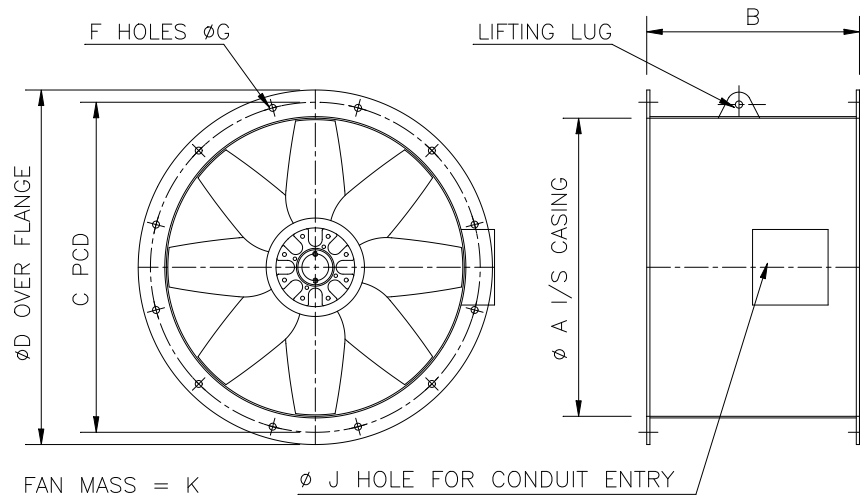
Mounting feet, counter flanges, wire screens, conical inlet cones (bolton and integral), antivibration mounts, casing access panels and flexible connections.

Manual, motorized or airstream operated dampers.

Matching size cylindrical sound attenuators.

Nonstandard casing lengths.

Special protective coatings.



Fan Size A	Direct Drive Fan Speed / Motor kW				B	C	D	F	G	J	Mass (Kg)
	2 Pole	4 Pole	6 Pole	8 Pole							
315	0.25~0.75	0.08~0.55	0.06~0.55		315	355	380	8	11	22	27
400	0.55~2.2	0.18~0.55	0.12~0.55		400	450	485	8	13	22	38
500	0.75~2.2	0.18~1.5	0.12~0.55		400	560	607	12	13	22	47
	3.0~4.0										75
560	1.1~2.2	0.37~1.5	0.12~0.55		400	620	667	12	13	22	44
	3.0~4.0				400						79
	5.5				500						110
630		0.37~1.5	0.12~1.1		400	690	737	12	13	22	47
	3.0~4.0	2.2~3.0			400					22	81
710		0.55~1.5	0.55~1.2	0.25	400	770	817	16	13	22	54
		2.2~4.0	1.5~2.2	0.75~1.5	400						89
		5.5	3.0~5.5		500						123
800		0.75~1.5	0.55~1.1	0.25	400	860	907	16	13	22	64
		2.2~4.0	1.5~2.2	0.75~1.5	400					22	98
		5.5~7.5	3.0		500					22	123



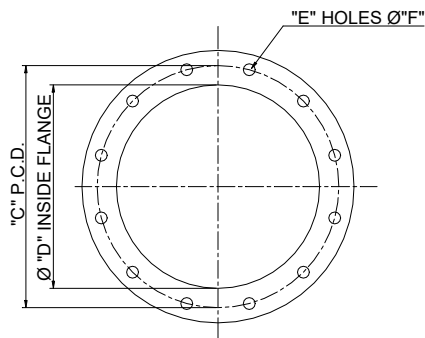
**FAN
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AIR AND GAS MOVEMENT SOLUTIONS

Maxflo Long Cased

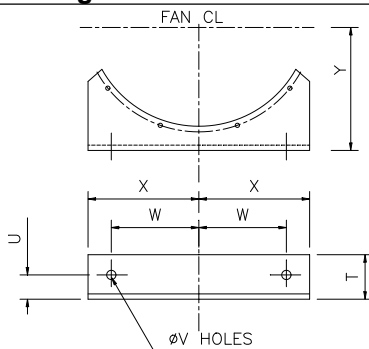
Fan Size A	Direct Drive Fan Speed / Motor kW				B	C	D	F	G	J	Mass (Kg)
	2 Pole	4 Pole	6 Pole	8 Pole							
900		1.1~1.5	0.55~1.1		400	970	1039	16	13	22	86
		2.2~4.0	1.5~2.2	0.75~1.5	400					22	123
		5.5~7.5	3.0~5.5	2.2~3.0	500					22	160
1000			1.1		400	1070	1141	16	15	22	94
		3.0~4.0	1.5~2.2	0.75~1.5	400					22	133
		5.5~7.5	3.0~5.5	2.2~3.0	560					22	180

Counter Flange



Fan Size	C	D	E	F	Mass (kg)
315	355	320	8	11	1.52
400	450	405	8	13	2.64
500	560	507	12	13	4.12
560	620	567	12	13	4.56
630	690	637	12	13	5.08
710	770	717	16	13	5.68
800	860	807	16	13	12.68
900	970	909	16	13	18.28
1000	1070	1011	16	15	20.70

Mounting Feet



Fan Size	T	U	V	W	X	Y	Mass (kg)
315	35	20	11	125	140	240	0.41
400	40	22	13	162	180	285	0.59
500	40	22	13	232	250	355	1.28
560	39	22	13	232	250	385	1.91
630	39	22	13	262	280	420	2.20
710	39	22	13	282	300	465	2.21
800	39	22	13	332	350	518	3.81
900	54	30	15	355	380	595	4.86
1000	59	35	15	385	410	653	7.59



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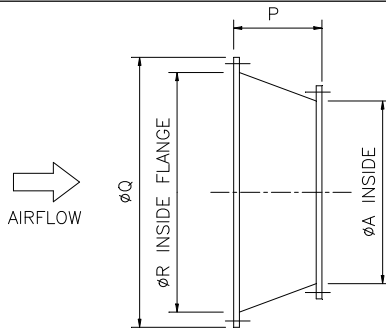


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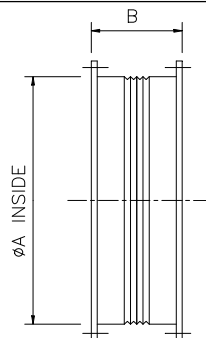
Maxflo Long Cased

Inlet Cone



Fan Size	P	Q	R	Mass (kg)
315	56	422	372	3.99
400	71	524	474	6.09
500	90	648	598	9.11
560	100	720	670	10.39
630	112	804	754	12.04
710	125	905	855	15.38
800	140	1006	956	17.85
900	162	1170	1090	31.18
1000	181	1286	1206	35.67

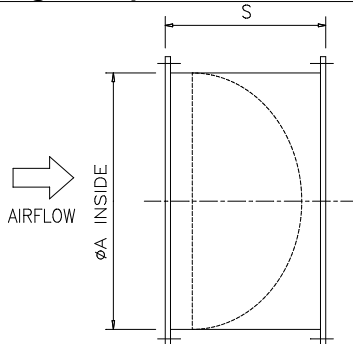
Flexible Connection



Fan Size	B	Mass (kg)
315	120	1.60
400	120	2.77
500	120	4.33
560	120	4.79
630	120	5.33
710	120	5.96
800	120	13.31
900	120	19.19
1000	120	21.74

Flexible connection prices include a flanged flexible sleeve c/w a set of backing flanges.

Discharge Damper



Fan Size	S	Mass (kg)
315	220	13
400	260	18
500	320	25
560	350	29
630	385	34
710	430	48
800	480	58
900	565	85
1000	620	102

Discharge Dampers are available in gravity close, hand operation and pneumatic / electric actuator control. Air / Gravity operated dampers are suitable for horizontal or vertical up airflow only.

Additional Accessories Available

- Casing access panels
- Inlet wire screen – bolt on to fan flange
- Discharge wire screen – bolt on to fan flange
- Inlet cone wire screen – bolt on to cone inlet flange
- Sound attenuators – see Silax brochure for details

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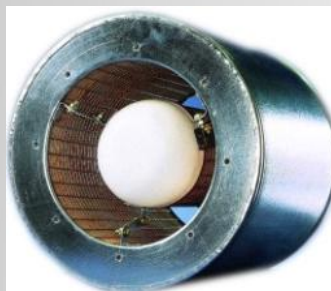
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4 Prolecon Rd Prolecon Jhb 2001

Section E - Sound Attenuation

Sonax



Silax



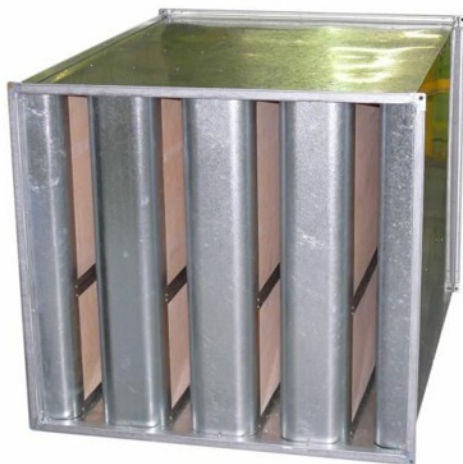
PGL



FAN
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AIR AND GAS MOVEMENT SOLUTIONS

Rectangular Sound Attenuators



- Rectangular inline sound attenuators
- Flanges available in MEZ or angle flange
- High noise insertion loss for maximum sound attenuation
- Six different lengths available for optimum selection flexibility
- Various internal linings to suit a wide range of applications
- Manufactured from pre-galvanized material with the option of heavy casings for high pressure applications
- Low pressure drop due to splitter design
- Units are also available in clean seal and Melinex lined

On Request

- Special material grades of construction
- Casings in welded construction
- Special coatings

Standard Product Abbreviations

Length Code (1)	3	4	5	6	7	8
Length (mm)	850	1150	1450	1750	2050	2350

Width Code (2)	A	B	C	D	E	F
Module increments, up to max (mm)	275 / 2200	300 / 2100	325 / 2275	350 / 2100	375 / 2250	400 / 2000

Splitter Code (3)	Casing Code (4)	Connection Code (5)	Installation Code (6)
E = Eurolon (Standard) D = Perforated Sheet DM = Perforated with Melinex Lining WM = Wire Mesh with Melinex Lining C = Clean Seal (Hospital Applications)	1 = Low Velocity (Up to 1kPa) 2 = High Velocity (Up to 2kPa) 3 = Above 2.5kPa (Welded Construction)	F = Flanged P = Plain Spigot M = Mez	V = Vertical Splitters H = Horizontal Splitters

How to Order

PGL	-	(1)	(2)	-	(3)	(4)	(5)	(6)	-	Width (mm)	x	Height (mm)	x	Length (mm)
-----	---	-----	-----	---	-----	-----	-----	-----	---	------------	---	-------------	---	-------------

Individual numbers in "How to Order" refer to the various abbreviations explained and numbered above

Example: **PGL - 5B - E1MF - 900 x 600 x 1450**



FAN MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

PGL Rectangular Attenuators

Attenuator Performance - PGL – Airway Code A

Splitter Construction Codes **E** (Eurolon), **D** (Perforated Sheet), **DM** (Perforated Sheet & Melinex)

Length Code 3 and 4 (850 & 1150mm Long)										Length Code 5 and 6 (1450 & 1750mm Long)									
Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)								Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K			63	125	250	500	1K	2K	4K	8K
E & D	3	7	11	19	33	38	35	27	23	E & D	5	9	17	29	46	44	42	37	31
	4	8	14	24	41	41	39	33	27		6	10	20	35	50	46	44	39	35
DM	3	7	12	20	28	32	27	19	15	DM	5	9	18	30	39	36	33	28	22
	4	8	15	25	35	34	31	25	19		6	10	21	36	46	37	34	29	25

Table of Volume Flow Rate (m³/sec)										Table of Volume Flow Rate (m³/sec)									
Height (mm)	Width (mm)									Height (mm)	Width (mm)								
	275	550	825	1100	1375	1650	1925	2200	-		275	550	825	1100	1375	1650	1925	2200	-
300	0.38	0.76	1.14	1.52	-	-	-	-	-	300	0.34	0.68	1.01	1.35	-	-	-	-	-
400	0.51	1.02	1.53	2.04	2.55	-	-	-	-	400	0.46	0.91	1.37	1.82	2.28	-	-	-	-
500	0.65	1.29	1.94	2.58	3.23	3.87	4.52	-	-	500	0.58	1.16	1.73	2.31	2.89	3.47	4.04	-	-
600	0.79	1.57	2.35	3.14	3.92	4.70	5.49	6.27	-	600	0.71	1.41	2.11	2.81	3.52	4.22	4.92	5.62	-
700	0.92	1.83	2.75	3.66	4.57	5.49	6.40	7.32	-	700	0.82	1.64	2.46	3.28	4.10	4.92	5.74	6.56	-
800	1.05	2.09	3.14	4.18	5.23	6.27	7.32	8.36	-	800	0.94	1.88	2.81	3.75	4.69	5.62	6.56	7.50	-
900	1.18	2.35	3.53	4.70	5.88	7.05	8.23	9.40	-	900	1.06	2.11	3.16	4.22	5.27	6.33	7.38	8.43	-
1000	1.31	2.62	3.92	5.23	6.53	7.84	9.14	10.5	-	1000	1.17	2.35	3.52	4.69	5.86	7.03	8.20	9.37	-
1100	1.44	2.88	4.31	5.75	7.18	8.62	10.1	11.5	-	1100	1.29	2.58	3.87	5.16	6.44	7.73	9.02	10.3	-
1200	-	3.14	4.70	6.27	7.84	9.40	11.0	12.6	-	1200	-	2.81	4.22	5.62	7.03	8.43	9.84	11.3	-
1300	-	3.40	5.10	6.79	8.49	10.2	11.9	13.6	-	1300	-	3.05	4.57	6.09	7.61	9.14	10.7	12.2	-
1400	-	3.66	5.49	7.32	9.14	11.0	12.8	14.7	-	1400	-	3.28	4.92	6.56	8.20	9.84	11.5	13.2	-
1500	-	3.92	5.88	7.84	9.80	11.8	13.7	15.7	-	1500	-	3.52	5.27	7.03	8.78	10.6	12.3	14.1	-
1600	-	4.18	6.27	8.36	10.5	12.6	14.7	16.8	-	1600	-	3.75	5.62	7.50	9.37	11.3	13.2	15.0*	-
1700	-	4.44	6.66	8.88	11.1	13.4	15.6	17.8	-	1700	-	3.98	5.97	7.96	9.96	12.0	14.0	16.0*	-
1800	-	4.70	7.05	9.40	11.8	14.1	16.5	18.8	-	1800	-	4.22	6.33	8.43	10.6	12.7	14.8*	16.9*	-
1900	-	4.97	7.45	9.93	12.4	14.9	17.4	19.9	-	1900	-	4.45	6.68	8.90	11.2	13.4	15.6*	-	-
2000	-	5.23	7.84	10.5	13.1	15.7	18.3	20.9	-	2000	-	4.69	7.03	9.37	11.7	14.1	16.4*	-	-
2100	-	5.49	8.23	11.0	13.7	16.5	19.2	22.0	-	2100	-	4.92	7.38	9.84	12.3	14.8*	17.2*	-	-
2200	-	5.75	8.62	11.5	14.4	17.3	20.1	23.0	-	2200	-	5.16	7.73	10.3	12.9	15.5*	-	-	-
2300	-	-	9.01	12.1	15.1	18.1	21.1	24.1	-	2300	-	-	8.08	10.8	13.5	16.2*	-	-	-
2400	-	-	9.40	12.6	15.7	18.8	22.0	25.1*	-	2400	-	-	8.43	11.3	14.1	16.9*	-	-	-

* See Note 7

Length Code 7 and 8 (2050 & 2350mm Long)									
Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
E & D	7	12	23	40	50	50	45	43	41
	8	13	26	44	50	50	46	46	43
DM	7	12	24	41	50	40	34	32	30
	8	13	27	45	50	42	34	34	31

Height (mm)	Table of Volume Flow Rate (m³/sec)								
	Width (mm)								
	275	550	825	1100	1375	1650	1925	2200	-
300	0.31	0.62	0.92	1.23	-	-	-	-	-
400	0.42	0.83	1.25	1.66	2.08	-	-	-	-
500	0.53	1.06	1.58	2.11	2.63	3.16	3.69	-	-
600	0.65	1.29	1.93	2.57	3.21	3.85	4.49	5.14	-
700	0.75	1.50	2.25	3.00	3.75	4.49	5.24	5.99	-
800	0.86	1.71	2.57	3.43	4.28	5.14	5.99	6.85	-
900	0.97	1.93	2.89	3.85	4.82	5.78	6.74	7.70	-
1000	1.07	2.14	3.21	4.28	5.35	6.42	7.49	8.56	-
1100	1.18	2.36	3.53	4.71	5.88	7.06	8.24	9.41	-
1200	-	2.57	3.85	5.14	6.42	7.70	8.99	10.3*	-
1300	-	2.78	4.17	5.56	6.95	8.34	9.73	11.2*	-
1400	-	3.00	4.49	5.99	7.49	8.99	10.5*	-	-
1500	-	3.21	4.82	6.42	8.02	9.63	11.3*	-	-
1600	-	3.43	5.14	6.85	8.56	10.3*	-	-	-
1700	-	3.64	5.46	7.27	9.09	10.9*	-	-	-
1800	-	3.85	5.78	7.70	9.63	-	-	-	-
1900	-	4.07	6.10	8.13	10.2*	-	-	-	-
2000	-	4.28	6.42	8.56	10.7*	-	-	-	-
2100	-	4.49	6.74	8.99	11.3*	-	-	-	-
2200	-	4.71	7.06	9.41	-	-	-	-	-
2300	-	-	7.38	9.84	-	-	-	-	-
2400	-	-	7.70	10.3*	-	-	-	-	-

* See Note 7

Notes:

- Tabulated volume flow rates will result in the following pressure losses for the ducted attenuators, at air density of 1.2kg/m³

Splitter Code	Pressure Loss
E	50 Pa
D	60 Pa
DM & WM	60 Pa

- Pressure loss varies in proportion to density.
- Pressure loss varies in proportion to the square of the volume flow rate.
- Maximum allowable volume flow rate is 1.25 x the values given in the tables, pressure loss varying in proportion to the square of the factor.
- Approximate regenerated noise.

Volume Flow Rate	NC	A-Scale level
Over 0.63 to 0.8 tabulated value	30	35
Over 0.8 to 1.0 tabulated value	35	40
Over 1.0 to 1.25 tabulated value	40	45

- Tabulated values apply to attenuators ducted both sides. For plenum entry and / or discharge the pressure loss is to be multiplied by the appropriate factor below.

Splitter Construction Code E			
Length Code	Plenum to Duct	Duct to Plenum	Plenum to Plenum
3 & 4	1.18	3.14	3.43
5 & 6	1.15	2.81	2.96
7 & 8	1.12	2.51	2.63

Splitter Construction Code D, DM & WM			
Length Code	Plenum to Duct	Duct to Plenum	Plenum to Plenum
3 & 4	1.15	2.78	3.03
5 & 6	1.13	2.51	2.63
7 & 8	1.10	2.26	2.36

- Selections marked * are available only with the shorter attenuator



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PGL Rectangular Attenuators

Attenuator Performance - PGL – Airway Code B

Splitter Construction Codes **E** (Eurolon), **D** (Perforated Sheet), **DM** (Perforated Sheet & Melinex)

Length Code 3 and 4 (850 & 1150mm Long)										Length Code 5 and 6 (1450 & 1750mm Long)									
Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)								Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K			63	125	250	500	1K	2K	4K	8K
E & D	3	7	10	16	31	37	31	22	18	E & D	5	8	14	25	46	43	41	34	24
	4	8	12	21	40	40	36	28	21		6	9	16	30	50	45	43	38	27
DM	3	7	11	17	26	31	23	14	10	DM	5	8	15	26	39	35	32	25	15
	4	8	13	22	34	33	28	20	13		6	9	17	31	46	36	33	28	17
Height (mm)	Table of Volume Flow Rate (m³/sec)									Height (mm)	Table of Volume Flow Rate (m³/sec)								
	Width (mm)										Width (mm)								
	300	600	900	1200	1500	1800	2100				300	600	900	1200	1500	1800	2100		
300	0.53	1.05	1.57	2.09	-	-	-	-	-	300	0.46	0.92	1.38	1.83	-	-	-	-	-
400	0.71	1.41	2.12	2.82	3.53	-	-	-	-	400	0.63	1.25	1.87	2.49	3.11	-	-	-	-
500	0.90	1.79	2.68	3.57	4.47	5.36	-	-	-	500	0.80	1.59	2.38	3.18	3.97	4.76	-	-	-
600	1.09	2.17	3.26	4.34	5.43	6.51	7.60	-	-	600	0.98	1.95	2.92	3.89	4.86	5.83	6.80	-	-
700	1.27	2.53	3.80	5.07	6.33	7.60	8.86	-	-	700	1.14	2.27	3.40	4.54	5.67	6.80	7.94	-	-
800	1.45	2.90	4.34	5.79	7.24	8.68	10.2	-	-	800	1.30	2.59	3.89	5.18	6.48	7.77	9.07	-	-
900	1.63	3.26	4.88	6.51	8.14	9.77	11.4	-	-	900	1.46	2.92	4.37	5.83	7.29	8.75	10.2	-	-
1000	1.81	3.62	5.43	7.24	9.04	10.9	12.7	-	-	1000	1.62	3.24	4.86	6.48	8.10	9.72	11.4	-	-
1100	1.99	3.98	5.97	7.96	9.95	12.0	14.0	-	-	1100	1.78	3.57	5.35	7.13	8.91	10.7	12.5	-	-
1200	2.17	4.34	6.51	8.68	10.9	13.1	15.2	-	-	1200	1.95	3.89	5.83	7.77	9.72	11.7	13.6	-	-
1300	-	4.70	7.05	9.40	11.8	14.1	16.5	-	-	1300	-	4.21	6.32	8.42	10.6	12.7	14.8	-	-
1400	-	5.07	7.60	10.2	12.7	15.2	17.8	-	-	1400	-	4.54	6.80	9.07	11.4	13.6	15.9	-	-
1500	-	5.43	8.14	10.9	13.6	16.3	19.0	-	-	1500	-	4.86	7.29	9.72	12.2	14.6	17.0	-	-
1600	-	5.79	8.68	11.6	14.5	17.4	20.3	-	-	1600	-	5.18	7.77	10.4	13.0	15.6	18.2	-	-
1700	-	6.15	9.22	12.3	15.4	18.5	21.6	-	-	1700	-	5.51	8.26	11.0	13.8	16.6	19.3*	-	-
1800	-	6.51	9.77	13.1	16.3	19.6	22.8	-	-	1800	-	5.83	8.75	11.7	14.6	17.5	20.4*	-	-
1900	-	6.87	10.3	13.8	17.2	20.6	24.1	-	-	1900	-	6.16	9.23	12.3	15.4	18.5	21.6*	-	-
2000	-	7.24	10.9	14.5	18.1	21.7	25.3	-	-	2000	-	6.48	9.72	13.0	16.2	19.5*	-	-	-
2100	-	7.60	11.4	15.2	19.0	22.8	26.6	-	-	2100	-	6.80	10.2	13.6	17.0	20.4*	-	-	-
2200	-	7.96	12.0	15.9	19.9	23.9	27.9	-	-	2200	-	7.13	10.7	14.3	17.8	21.4*	-	-	-
2300	-	8.32	12.5	16.7	20.8	25.0	29.1	-	-	2300	-	7.45	11.2	14.9	18.7*	-	-	-	-
2400	-	8.68	13.1	17.4	21.7	26.1	30.4	-	-	2400	-	7.77	11.7	15.6	19.5*	-	-	-	-

* See Note 7

Length Code 7 and 8 (2050 & 2350mm Long)									
Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
E & D	7	10	19	35	50	48	46	43	31
	8	11	22	40	50	50	48	47	34
DM	7	10	20	36	50	38	35	32	20
	8	11	23	41	50	40	36	35	22
Height (mm)	Table of Volume Flow Rate (m³/sec)								
	Width (mm)								
	300	600	900	1200	1500	1800	2100		
300	0.42	0.84	1.26	1.67	-	-	-	-	-
400	0.57	1.14	1.71	2.28	2.84	-	-	-	-
500	0.73	1.45	2.18	2.90	3.63	4.35	-	-	-
600	0.89	1.78	2.67	3.56	4.45	5.34	6.22	-	-
700	1.04	2.08	3.11	4.15	5.19	6.22	7.26	-	-
800	1.19	2.37	3.56	4.74	5.93	7.11	8.30	-	-
900	1.34	2.67	4.00	5.34	6.67	8.00	9.33	-	-
1000	1.48	2.97	4.45	5.93	7.41	8.89	10.4	-	-
1100	1.63	3.26	4.89	6.52	8.15	9.78	11.4	-	-
1200	1.78	3.56	5.34	7.11	8.89	10.7	12.5	-	-
1300	-	3.85	5.78	7.70	9.63	11.6	13.5	-	-
1400	-	4.15	6.22	8.30	10.4	12.5	-	-	-
1500	-	4.45	6.67	8.89	11.1	13.4*	-	-	-
1600	-	4.74	7.11	9.48	11.9	14.3*	-	-	-
1700	-	5.04	7.56	10.1	12.6	-	-	-	-
1800	-	5.34	8.00	10.7	13.4*	-	-	-	-
1900	-	5.63	8.44	11.3	14.1*	-	-	-	-
2000	-	5.93	8.89	11.9	-	-	-	-	-
2100	-	6.22	9.33	12.5	-	-	-	-	-
2200	-	6.52	9.78	13.1*	-	-	-	-	-
2300	-	6.82	10.3	13.7*	-	-	-	-	-
2400	-	7.11	10.7	14.3*	-	-	-	-	-

* See Note 7

Notes:

- 8) Tabulated volume flow rates will result in the following pressure losses for the ducted attenuators, at air density of 1.2kg/m³

Splitter Code	Pressure Loss
E	50 Pa
D	60 Pa
DM & WM	60 Pa

- 9) Pressure loss varies in proportion to density.
10) Pressure loss varies in proportion to the square of the volume flow rate.
11) Maximum allowable volume flow rate is 1.25 x the values given in the tables, pressure loss varying in proportion to the square of the factor.
12) Approximate regenerated noise.

Volume Flow Rate	NC	A-Scale level
Over 0.63 to 0.8 tabulated value	30	35
Over 0.8 to 1.0 tabulated value	35	40
Over 1.0 to 1.25 tabulated value	40	45

- 13) Tabulated values apply to attenuators ducted both sides. For plenum entry and / or discharge the pressure loss is to be multiplied by the appropriate factor below.

Splitter Construction Code E			
Length Code	Plenum to Duct	Duct to Plenum	Plenum to Plenum
3 & 4	1.24	3.63	3.86
5 & 6	1.19	3.11	3.30
7 & 8	1.16	2.76	2.92

Splitter Construction Code D, DM & WM			
Length Code	Plenum to Duct	Duct to Plenum	Plenum to Plenum
3 & 4	1.20	3.19	3.38
5 & 6	1.16	2.76	2.92
7 & 8	1.13	2.47	2.60

- 14) Selections marked * are available only with the shorter attenuator



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PGL Rectangular Attenuators

Attenuator Performance - PGL – Airway Code C

Splitter Construction Codes **E** (Eurolon), **D** (Perforated Sheet), **DM** (Perforated Sheet & Melinex)

Length Code 3 and 4 (850 & 1150mm Long)										Length Code 5 and 6 (1450 & 1750mm Long)									
Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)								Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K			63	125	250	500	1K	2K	4K	8K
E & D	3	6	9	15	26	32	27	18	15	E & D	5	7	12	23	42	41	37	28	19
	4	7	10	19	35	37	32	24	16		6	8	15	28	46	43	41	33	21
DM	3	6	10	16	21	26	19	10	7	DM	5	7	13	24	35	33	28	19	10
	4	7	11	20	29	30	24	16	8		6	8	16	29	38	34	31	23	11
Table of Volume Flow Rate (m³/sec)										Table of Volume Flow Rate (m³/sec)									
Height (mm)	Width (mm)									Height (mm)	Width (mm)								
	325	650	975	1300	1625	1950	2275				325	650	975	1300	1625	1950	2275		
300	0.67	1.33	2.00	-	-	-	-	-	-	300	0.60	1.20	1.79	-	-	-	-	-	-
400	0.91	1.81	2.72	3.62	-	-	-	-	-	400	0.82	1.63	2.44	3.25	-	-	-	-	-
500	1.16	2.31	3.46	4.61	5.77	6.92	-	-	-	500	1.04	2.08	3.11	4.15	5.18	6.22	-	-	-
600	1.42	2.83	4.24	5.65	7.07	8.48	9.89	-	-	600	1.28	2.55	3.82	5.09	6.36	7.63	8.90	-	-
700	1.65	3.30	4.95	6.59	8.24	9.89	11.6	-	-	700	1.49	2.97	4.45	5.94	7.42	8.90	10.4	-	-
800	1.89	3.77	5.56	7.54	9.42	11.3	13.2	-	-	800	1.70	3.39	5.09	6.78	8.48	10.2	11.9	-	-
900	2.12	4.24	6.36	8.48	10.6	12.8	14.9	-	-	900	1.91	3.82	5.73	7.63	9.54	11.5	13.4	-	-
1000	2.36	4.71	7.07	9.42	11.8	14.2	16.5	-	-	1000	2.12	4.24	6.36	8.48	10.6	12.8	14.9	-	-
1100	2.59	5.18	7.77	10.4	13.0	15.6	18.2	-	-	1100	2.33	4.67	7.00	9.33	11.7	14.0	16.4	-	-
1200	2.83	5.65	8.48	11.3	14.2	17.0	19.8	-	-	1200	2.55	5.09	7.63	10.2	12.8	15.3	17.8	-	-
1300	3.06	6.12	9.18	12.3	15.3	18.4	21.5	-	-	1300	2.76	5.51	8.27	11.1	13.8	16.6	19.3	-	-
1400	-	6.59	9.89	13.2	16.5	19.8	23.1	-	-	1400	-	5.94	8.90	11.9	14.9	17.8	20.8	-	-
1500	-	7.07	10.6	14.2	17.7	21.2	24.8	-	-	1500	-	6.36	9.54	12.8	15.9	19.1	22.3	-	-
1600	-	7.54	11.3	15.1	18.9	22.6	26.4	-	-	1600	-	6.78	10.2	13.6	17.0	20.4	23.8*	-	-
1700	-	8.01	12.0	16.0	20.0	24.0	28.1	-	-	1700	-	7.21	10.8	14.4	18.1	21.7	25.3*	-	-
1800	-	8.48	12.8	17.0	21.2	25.5	29.7	-	-	1800	-	7.63	11.5	15.3	19.1	22.9*	26.7*	-	-
1900	-	8.95	13.5	17.9	22.4	26.9	31.3	-	-	1900	-	8.06	12.1	16.1	20.2	24.2*	-	-	-
2000	-	9.42	14.2	18.9	23.6	28.3	33.0	-	-	2000	-	8.48	12.8	17.0	21.2	25.5*	-	-	-
2100	-	9.89	14.9	19.8	24.8	29.7	34.6	-	-	2100	-	8.90	13.4	17.8	22.3	26.7*	-	-	-
2200	-	10.4	15.6	20.8	25.9	31.1	36.3	-	-	2200	-	9.33	14.0	18.7	23.3*	-	-	-	-
2300	-	10.9	16.3	21.7	27.1	32.5	37.9*	-	-	2300	-	9.75	14.7	19.5	24.4*	-	-	-	-
2400	-	11.3	17.0	22.6	28.3	33.9	39.6*	-	-	2400	-	10.2	15.3	20.4	25.5*	-	-	-	-

* See Note 7

Length Code 7 and 8 (2050 & 2350mm Long)									
Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
E & D	7	9	17	32	50	47	44	38	24
	8	10	20	37	50	50	47	44	28
DM	7	9	18	33	44	37	33	27	13
	8	10	21	38	49	39	35	32	16
Table of Volume Flow Rate (m³/sec)									
Height (mm)	Width (mm)								
	325	650	975	1300	1625	1950	2275		
300	0.54	1.08	1.62	-	-	-	-	-	-
400	0.74	1.48	2.21	2.95	-	-	-	-	-
500	0.95	1.89	2.84	3.78	4.73	5.67	-	-	-
600	1.17	2.34	3.50	4.67	5.83	7.00	8.16	-	-
700	1.36	2.72	4.08	5.44	6.80	8.16	9.52	-	-
800	1.56	3.11	4.67	6.22	7.77	9.33	10.9	-	-
900	1.75	3.50	5.25	7.00	8.75	10.5	12.3	-	-
1000	1.95	3.89	5.83	7.77	9.72	11.7	13.6	-	-
1100	2.14	4.28	6.41	8.55	10.7	12.9	15.0	-	-
1200	2.34	4.67	7.00	9.33	11.7	14.0	16.4*	-	-
1300	2.53	5.06	7.58	10.1	12.7	15.2	-	-	-
1400	-	5.44	8.16	10.9	13.6	16.4*	-	-	-
1500	-	5.83	8.75	11.7	14.6	17.5*	-	-	-
1600	-	6.22	9.33	12.5	15.6*	-	-	-	-
1700	-	6.61	9.91	13.3	16.6*	-	-	-	-
1800	-	7.00	10.5	14.0	17.5*	-	-	-	-
1900	-	7.39	11.1	14.8	-	-	-	-	-
2000	-	7.77	11.7	15.6*	-	-	-	-	-
2100	-	8.16	12.3	16.4*	-	-	-	-	-
2200	-	8.55	12.9	17.1*	-	-	-	-	-
2300	-	8.94	13.4	-	-	-	-	-	-
2400	-	9.33	14.0	-	-	-	-	-	-

* See Note 7

Notes:

- 15) Tabulated volume flow rates will result in the following pressure losses for the ducted attenuators, at air density of 1.2kg/m³

Splitter Code	Pressure Loss
E	50 Pa
D	60 Pa
DM & WM	60 Pa

- 16) Pressure loss varies in proportion to density.
 17) Pressure loss varies in proportion to the square of the volume flow rate.
 18) Maximum allowable volume flow rate is 1.25 x the values given in the tables, pressure loss varying in proportion to the square of the factor.
 19) Approximate regenerated noise.

Volume Flow Rate	NC	A-Scale level
Over 0.63 to 0.8 tabulated value	30	35
Over 0.8 to 1.0 tabulated value	35	40
Over 1.0 to 1.25 tabulated value	40	45

- 20) Tabulated values apply to attenuators ducted both sides. For plenum entry and / or discharge the pressure loss is to be multiplied by the appropriate factor below.

Splitter Construction Code E			
Length Code	Plenum to Duct	Duct to Plenum	Plenum to Plenum
3 & 4	1.30	3.98	4.28
5 & 6	1.24	3.41	3.66
7 & 8	1.20	3.03	2.23

Splitter Construction Code D, DM & WM			
Length Code	Plenum to Duct	Duct to Plenum	Plenum to Plenum
3 & 4	1.25	3.48	3.72
5 & 6	1.20	3.01	3.22
7 & 8	1.17	2.69	2.86

- 21) Selections marked * are available only with the shorter attenuator



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PGL Rectangular Attenuators

Attenuator Performance - PGL – Airway Code D

Splitter Construction Codes **E** (Eurolon), **D** (Perforated Sheet), **DM** (Perforated Sheet & Melinex)

Length Code 3 and 4 (850 & 1150mm Long)										Length Code 5 and 6 (1450 & 1750mm Long)									
Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)								Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K			63	125	250	500	1K	2K	4K	8K
E & D	3	6	7	14	22	30	23	15	12	E & D	5	7	11	21	39	39	34	24	15
	4	6	9	18	31	34	28	19	13		6	7	14	25	44	43	38	29	17
DM	3	6	8	15	17	24	15	7	4	DM	5	7	12	22	32	31	25	15	6
	4	6	10	19	25	27	20	11	5		6	7	15	26	36	34	28	19	7
Height (mm)	Table of Volume Flow Rate (m³/sec)									Height (mm)	Table of Volume Flow Rate (m³/sec)								
	Width (mm)										Width (mm)								
	350	700	1050	1400	1750	2100					350	700	1050	1400	1750	2100			
300	0.83	1.66	2.49	-	-	-	-	-	-	300	0.74	1.47	2.21	-	-	-	-	-	-
400	1.13	2.26	3.39	4.52	-	-	-	-	-	400	1.01	2.02	3.03	4.04	-	-	-	-	-
500	1.45	2.89	4.33	5.78	7.22	-	-	-	-	500	1.3	2.60	3.89	5.19	6.49	-	-	-	-
600	1.78	3.55	5.32	7.09	8.86	10.7	-	-	-	600	1.61	3.21	4.82	6.42	8.03	9.63	-	-	-
700	2.07	4.14	6.21	8.27	10.4	12.4	-	-	-	700	1.88	3.75	5.62	7.49	9.37	11.3	-	-	-
800	2.37	4.73	7.09	9.45	11.9	14.2	-	-	-	800	2.14	4.28	6.42	8.56	10.7	12.9	-	-	-
900	2.66	5.32	7.98	10.7	13.3	16.0	-	-	-	900	2.41	4.82	7.23	9.63	12.1	14.5	-	-	-
1000	2.96	5.91	8.86	11.9	14.8	17.8	-	-	-	1000	2.68	5.35	8.03	10.7	13.4	16.1	-	-	-
1100	3.25	6.50	9.75	13.0	16.3	19.5	-	-	-	1100	2.95	5.89	8.83	11.8	14.8	17.7	-	-	-
1200	3.55	7.09	10.7	14.2	17.8	21.3	-	-	-	1200	3.21	6.42	9.63	12.9	16.1	19.3	-	-	-
1300	4.14	7.68	11.6	15.4	19.2	23.1	-	-	-	1300	3.48	6.96	10.5	14.0	17.4	20.9	-	-	-
1400	-	8.27	12.4	16.6	20.7	24.8	-	-	-	1400	3.75	7.49	11.3	15.0	18.8	22.5	-	-	-
1500	-	8.86	13.3	17.8	22.2	26.6	-	-	-	1500	-	8.03	12.1	16.1	20.1	24.1	-	-	-
1600	-	9.45	14.2	18.9	23.7	28.4	-	-	-	1600	-	8.56	12.9	17.2	21.4	25.7	-	-	-
1700	-	10.1	15.1	20.1	25.1	30.2	-	-	-	1700	-	9.10	13.7	18.2	22.8	27.3*	-	-	-
1800	-	10.7	16.0	21.3	26.6	31.9	-	-	-	1800	-	9.63	14.5	19.3	24.1	28.9*	-	-	-
1900	-	11.3	16.9	22.5	28.1	33.7	-	-	-	1900	-	10.2	15.3	20.4	25.5	30.5*	-	-	-
2000	-	11.9	17.8	23.7	29.6	35.5	-	-	-	2000	-	10.7	16.1	21.4	26.8*	-	-	-	-
2100	-	12.4	18.6	24.8	31.0	37.2	-	-	-	2100	-	11.3	16.9	22.5	28.1*	-	-	-	-
2200	-	13.0	19.5	26.0	32.5	39.0	-	-	-	2200	-	11.8	17.7	23.6	29.5*	-	-	-	-
2300	-	13.6	20.4	27.2	34.0	40.8	-	-	-	2300	-	12.3	18.5	24.7	30.8*	-	-	-	-
2400	-	14.2	21.3	28.4	35.5	42.6	-	-	-	2400	-	12.9	19.3	25.7	-	-	-	-	-

* See Note 7

Length Code 7 and 8 (2050 & 2350mm Long)									
Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
E & D	7	8	16	30	48	46	42	34	20
	8	9	19	34	50	48	46	39	22
DM	7	8	17	31	39	36	31	23	9
	8	9	20	35	45	37	34	27	10
Height (mm)	Table of Volume Flow Rate (m³/sec)								
	Width (mm)								
	350	700	1050	1400	1750	2100			
300	0.68	1.35	2.03	-	-	-	-	-	-
400	0.93	1.86	2.78	3.71	-	-	-	-	-
500	1.20	2.39	3.58	4.77	5.96	-	-	-	-
600	1.48	2.96	4.43	5.91	7.38	8.86	-	-	-
700	1.73	3.45	5.17	6.89	8.61	10.4	-	-	-
800	1.97	3.94	5.91	7.87	9.84	11.8	-	-	-
900	2.22	4.43	6.64	8.86	11.1	13.3	-	-	-
1000	2.46	4.92	7.38	9.84	12.3	14.8	-	-	-
1100	2.71	5.41	8.12	10.9	13.6	16.3	-	-	-
1200	2.96	5.91	8.86	11.8	14.8	17.7	-	-	-
1300	3.20	6.40	9.60	12.8	16.0	19.2*	-	-	-
1400	3.45	6.89	10.4	13.8	17.3	-	-	-	-
1500	-	7.38	11.1	14.8	18.5*	-	-	-	-
1600	-	7.87	11.8	15.8	19.7*	-	-	-	-
1700	-	8.37	12.6	16.8	-	-	-	-	-
1800	-	8.86	13.3	17.7	-	-	-	-	-
1900	-	9.35	14.1	18.7*	-	-	-	-	-
2000	-	9.84	14.8	19.7*	-	-	-	-	-
2100	-	10.4	15.5	-	-	-	-	-	-
2200	-	10.9	16.3	-	-	-	-	-	-
2300	-	11.4	17.0	-	-	-	-	-	-
2400	-	11.8	17.7	-	-	-	-	-	-

* See Note 7

Notes:

- 22) Tabulated volume flow rates will result in the following pressure losses for the ducted attenuators, at air density of 1.2kg/m³

Splitter Code	Pressure Loss
E	50 Pa
D	60 Pa
DM & WM	60 Pa

- 23) Pressure loss varies in proportion to density.
 24) Pressure loss varies in proportion to the square of the volume flow rate.
 25) Maximum allowable volume flow rate is 1.25 x the values given in the tables, pressure loss varying in proportion to the square of the factor.
 26) Approximate regenerated noise.

Volume Flow Rate	NC	A-Scale level
Over 0.63 to 0.8 tabulated value	30	35
Over 0.8 to 1.0 tabulated value	35	40
Over 1.0 to 1.25 tabulated value	40	45

- 27) Tabulated values apply to attenuators ducted both sides. For plenum entry and / or discharge the pressure loss is to be multiplied by the appropriate factor below.

Splitter Construction Code E			
Length Code	Plenum to Duct	Duct to Plenum	Plenum to Plenum
3 & 4	1.35	4.40	4.72
5 & 6	1.29	3.79	4.05
7 & 8	1.24	3.35	3.58

Splitter Construction Code D, DM & WM			
Length Code	Plenum to Duct	Duct to Plenum	Plenum to Plenum
3 & 4	1.29	3.83	4.10
5 & 6	1.24	3.33	3.54
7 & 8	1.20	2.96	3.15

- 28) Selections marked * are available only with the shorter attenuator



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Attenuator Performance - PGL – Airway Code E

Splitter Construction Codes **E** (Eurolon), **D** (Perforated Sheet), **DM** (Perforated Sheet & Melinex)

Length Code 3 and 4 (850 & 1150mm Long)										Length Code 5 and 6 (1450 & 1750mm Long)									
Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)								Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K			63	125	250	500	1K	2K	4K	8K
E & D	3	5	7	13	20	26	20	13	9	E & D	5	7	10	20	34	37	29	18	12
	4	6	8	17	27	31	25	15	10		6	7	12	24	39	40	34	22	13
DM	3	5	8	14	15	20	12	5	2	DM	5	7	11	21	28	29	20	9	3
	4	6	9	18	21	24	17	7	2		6	7	13	25	31	31	24	12	3
Table of Volume Flow Rate (m³/sec)										Table of Volume Flow Rate (m³/sec)									
Height (mm)		Width (mm)								Height (mm)		Width (mm)							
		375	750	1125	1500	1875	2250					375	750	1125	1500	1875	2250		
300	1.01	2.02	3.03	5.50	-	-	-	-	-	300	0.92	1.84	2.75	5.01	-	-	-	-	-
400	1.38	2.75	4.13	5.50	-	-	-	-	-	400	1.26	2.51	3.76	5.01	-	-	-	-	-
500	1.76	3.52	5.28	7.04	8.80	-	-	-	-	500	1.61	3.22	4.82	6.43	8.03	-	-	-	-
600	2.17	4.33	6.50	8.66	10.9	13.0	-	-	-	600	1.99	3.97	5.95	7.93	9.91	11.9	-	-	-
700	2.53	5.06	7.58	10.1	12.7	15.2	-	-	-	700	2.32	4.63	6.94	9.25	11.6	13.9	-	-	-
800	2.89	5.78	8.66	11.6	14.5	17.4	-	-	-	800	2.65	5.29	7.93	10.6	13.2	15.9	-	-	-
900	3.25	6.50	9.75	13.0	16.3	19.5	-	-	-	900	2.98	5.95	8.92	11.9	14.9	17.9	-	-	-
1000	3.61	7.22	10.9	14.5	18.1	21.7	-	-	-	1000	3.31	6.61	9.91	13.2	16.6	19.9	-	-	-
1100	3.97	7.94	11.9	15.9	19.9	23.9	-	-	-	1100	3.64	7.27	10.9	14.6	18.2	21.8	-	-	-
1200	4.33	8.66	13.0	17.4	21.7	26.0	-	-	-	1200	3.97	7.93	11.9	15.9	19.9	23.8	-	-	-
1300	4.69	9.39	14.1	18.8	23.5	28.2	-	-	-	1300	4.30	8.59	12.9	17.2	21.5	25.8	-	-	-
1400	5.06	10.1	15.2	20.2	25.3	30.4	-	-	-	1400	4.63	9.25	13.9	18.5	23.2	27.8	-	-	-
1500	5.42	10.9	16.3	21.7	27.1	32.5	-	-	-	1500	4.96	9.91	14.9	19.9	24.8	29.8	-	-	-
1600	-	11.6	17.4	23.1	28.9	34.7	-	-	-	1600	-	10.6	15.9	21.2	26.5	31.7*	-	-	-
1700	-	12.3	18.4	24.6	30.7	36.8	-	-	-	1700	-	11.3	16.9	22.5	28.1	33.7*	-	-	-
1800	-	13.0	19.5	26.0	32.5	39.0	-	-	-	1800	-	11.9	17.9	23.8	29.8	35.7*	-	-	-
1900	-	13.8	20.6	27.5	34.3	41.2	-	-	-	1900	-	12.6	18.9	25.1	31.4*	-	-	-	-
2000	-	14.5	21.7	28.9	36.1	43.3	-	-	-	2000	-	13.2	19.9	26.5	33.1*	-	-	-	-
2100	-	15.2	22.8	30.4	37.9	45.5	-	-	-	2100	-	13.9	20.8	27.8	34.7*	-	-	-	-
2200	-	15.9	23.9	31.8	39.7	47.7	-	-	-	2200	-	14.6	21.8	29.1	36.4*	-	-	-	-
2300	-	16.6	24.9	33.2	41.5	49.8	-	-	-	2300	-	15.2	22.8	30.4*	-	-	-	-	-
2400	-	17.4	26.0	34.7	43.3	52.0*	-	-	-	2400	-	15.9	23.8	31.7*	-	-	-	-	-

* See Note 7

Length Code 7 and 8 (2050 & 2350mm Long)									
Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
E & D	7	7	15	28	44	45	38	25	14
	8	8	17	32	47	50	42	28	15
DM	7	7	16	29	35	35	27	14	3
	8	8	18	33	37	39	30	16	3
Table of Volume Flow Rate (m³/sec)									
Height (mm)		Width (mm)							
		375	750	1125	1500	1875	2250		
300	0.84	1.67	2.51	-	-	-	-	-	-
400	1.15	2.30	3.45	4.59	-	-	-	-	-
500	1.49	2.97	4.45	5.94	7.42	-	-	-	-
600	1.85	3.69	5.54	7.38	9.23	11.1	-	-	-
700	2.16	4.31	6.46	8.61	10.8	13.0	-	-	-
800	2.46	4.92	7.38	9.84	12.3	14.8	-	-	-
900	2.77	5.54	8.30	11.1	13.9	16.6	-	-	-
1000	3.08	6.15	9.23	12.3	15.4	18.5	-	-	-
1100	3.39	6.77	10.2	13.6	16.9	20.3	-	-	-
1200	3.69	7.38	11.1	14.8	18.5	22.2*	-	-	-
1300	4.00	8.00	12.0	16.0	20.0	24.0*	-	-	-
1400	4.31	8.61	13.0	17.3	21.6*	-	-	-	-
1500	4.62	9.23	13.9	18.5	23.1*	-	-	-	-
1600	-	9.84	14.8	19.7	-	-	-	-	-
1700	-	10.5	15.7	20.9	-	-	-	-	-
1800	-	11.1	16.6	22.2*	-	-	-	-	-
1900	-	11.7	17.6	23.4*	-	-	-	-	-
2000	-	12.3	18.5	-	-	-	-	-	-
2100	-	13.0	19.4	-	-	-	-	-	-
2200	-	13.6	20.3	-	-	-	-	-	-
2300	-	14.2	21.3*	-	-	-	-	-	-
2400	-	14.8	22.2*	-	-	-	-	-	-

* See Note 7

Notes:

- 29) Tabulated volume flow rates will result in the following pressure losses for the ducted attenuators, at air density of 1.2kg/m³

Splitter Code	Pressure Loss
E	50 Pa
D	60 Pa
DM & WM	60 Pa

- 30) Pressure loss varies in proportion to density.
 31) Pressure loss varies in proportion to the square of the volume flow rate.
 32) Maximum allowable volume flow rate is 1.25 x the values given in the tables, pressure loss varying in proportion to the square of the factor.
 33) Approximate regenerated noise.

Volume Flow Rate	NC	A-Scale level
Over 0.63 to 0.8 tabulated value	30	35
Over 0.8 to 1.0 tabulated value	35	40
Over 1.0 to 1.25 tabulated value	40	45

- 34) Tabulated values apply to attenuators ducted both sides. For plenum entry and / or discharge the pressure loss is to be multiplied by the appropriate factor below.

Splitter Construction Code E			
Length Code	Plenum to Duct	Duct to Plenum	Plenum to Plenum
3 & 4	1.42	4.83	5.23
5 & 6	1.34	4.21	4.55
7 & 8	1.30	3.78	4.07

Splitter Construction Code D, DM & WM			
Length Code	Plenum to Duct	Duct to Plenum	Plenum to Plenum
3 & 4	1.35	4.19	4.53
5 & 6	1.28	3.68	3.96
7 & 8	1.25	3.32	3.56

- 35) Selections marked * are available only with the shorter attenuator



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PGL Rectangular Attenuators

Attenuator Performance - PGL – Airway Code F

Splitter Construction Codes **E** (Eurolon), **D** (Perforated Sheet), **DM** (Perforated Sheet & Melinex)

Length Code 3 and 4 (850 & 1150mm Long)										Length Code 5 and 6 (1450 & 1750mm Long)									
Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)								Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K			63	125	250	500	1K	2K	4K	8K
E & D	3	5	6	12	18	21	16	11	7	E & D	5	6	10	20	30	35	25	14	9
	4	5	8	16	24	28	21	12	8		6	6	12	23	35	39	28	15	10
DM	3	5	7	13	13	15	8	3	1	DM	5	6	11	21	23	27	16	5	2
	4	5	9	17	15	22	13	4	1		6	6	13	34	27	30	18	5	2
Table of Volume Flow Rate (m³/sec)										Table of Volume Flow Rate (m³/sec)									
Height (mm)		Width (mm)								Height (mm)		Width (mm)							
		400	800	1200	1600	2000						400	800	1200	1600	2000			
300	1.20	2.41	3.61	-	-	-	-	-	-	300	1.11	2.22	3.32	6.07	-	-	-	-	-
400	1.65	3.29	4.93	6.57	-	-	-	-	-	400	1.52	3.04	4.56	6.07	-	-	-	-	-
500	2.11	4.21	6.32	8.43	10.6	-	-	-	-	500	1.96	3.91	5.86	7.82	9.77	-	-	-	-
600	2.60	5.20	7.79	10.4	13.0	-	-	-	-	600	2.42	4.84	7.26	9.68	12.1	-	-	-	-
700	3.03	6.06	9.09	12.2	15.2	-	-	-	-	700	2.83	5.65	8.47	11.3	14.2	-	-	-	-
800	3.47	6.93	10.4	13.9	17.3	-	-	-	-	800	3.23	6.46	9.68	12.9	16.2	-	-	-	-
900	3.90	7.79	11.7	15.6	19.5	-	-	-	-	900	3.63	7.26	10.9	14.6	18.2	-	-	-	-
1000	4.33	8.66	13.0	17.3	21.7	-	-	-	-	1000	4.04	8.07	12.1	16.2	20.2	-	-	-	-
1100	4.76	9.52	14.3	19.1	23.8	-	-	-	-	1100	4.44	8.88	13.3	17.8	22.2	-	-	-	-
1200	5.20	10.4	15.6	20.8	26.0	-	-	-	-	1200	4.84	9.68	14.6	19.4	24.2	-	-	-	-
1300	5.63	11.3	16.9	22.5	28.2	-	-	-	-	1300	5.25	10.5	15.8	21.0	26.3	-	-	-	-
1400	6.06	12.2	18.2	24.3	30.3	-	-	-	-	1400	5.65	11.3	17.0	22.6	28.3	-	-	-	-
1500	6.50	13.0	19.5	26.0	32.5	-	-	-	-	1500	6.05	12.1	18.2	24.2	30.3	-	-	-	-
1600	6.93	13.9	20.8	27.7	34.7	-	-	-	-	1600	6.46	12.9	19.4	25.8	32.3	-	-	-	-
1700	-	14.8	22.1	29.5	36.8	-	-	-	-	1700	-	13.8	20.6	27.5	34.3	-	-	-	-
1800	-	15.6	23.4	31.2	39.0	-	-	-	-	1800	-	14.6	21.8	29.1	36.3*	-	-	-	-
1900	-	16.5	24.7	32.9	41.2	-	-	-	-	1900	-	15.4	23.0	30.7	38.3*	-	-	-	-
2000	-	17.3	26.0	34.7	43.3	-	-	-	-	2000	-	16.2	24.2	32.3	40.4*	-	-	-	-
2100	-	18.2	27.3	36.4	45.5	-	-	-	-	2100	-	17.0	25.4	33.9	-	-	-	-	-
2200	-	19.1	28.6	38.1	47.6	-	-	-	-	2200	-	17.8	26.7	35.5*	-	-	-	-	-
2300	-	19.9	29.9	39.9	49.8	-	-	-	-	2300	-	18.6	27.9	37.1*	-	-	-	-	-
2400	-	20.8	31.2	41.6	52.0	-	-	-	-	2400	-	19.4	29.1	38.8*	-	-	-	-	-

* See Note 7

Length Code 7 and 8 (2050 & 2350mm Long)									
Splitter Code	Length Code	Static Insertion Loss Octave Band mean Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
E & D	7	7	14	27	40	45	32	17	10
	8	8	16	30	45	50	36	18	11
DM	7	7	15	28	31	35	21	6	2
	8	8	17	31	35	39	24	6	2
Table of Volume Flow Rate (m³/sec)									
Height (mm)		Width (mm)							
		400	800	1200	1600	2000			
300	1.02	2.04	3.06	-	-	-	-	-	-
400	1.41	2.81	4.22	5.63	-	-	-	-	-
500	1.83	3.66	5.48	7.31	9.13	-	-	-	-
600	2.29	4.57	6.86	9.14	11.5	-	-	-	-
700	2.67	5.33	8.00	10.7	13.4	-	-	-	-
800	3.05	6.10	9.14	12.2	15.3	-	-	-	-
900	3.43	6.86	10.3	13.7	17.2	-	-	-	-
1000	3.81	7.62	11.5	15.3	19.1	-	-	-	-
1100	4.19	8.38	12.6	16.8	21.0	-	-	-	-
1200	4.57	9.14	13.7	18.3	22.9	-	-	-	-
1300	4.95	9.90	14.9	19.8	24.8*	-	-	-	-
1400	5.33	10.7	16.0	21.4	26.7*	-	-	-	-
1500	5.71	11.5	17.2	22.9	-	-	-	-	-
1600	6.10	12.2	18.3	24.4*	-	-	-	-	-
1700	-	13.0	19.5	25.9*	-	-	-	-	-
1800	-	13.7	20.6	27.4*	-	-	-	-	-
1900	-	14.5	21.7	-	-	-	-	-	-
2000	-	15.3	22.9	-	-	-	-	-	-
2100	-	16.0	24.0	-	-	-	-	-	-
2200	-	16.8	25.2*	-	-	-	-	-	-
2300	-	17.6	26.3*	-	-	-	-	-	-
2400	-	18.3	27.4*	-	-	-	-	-	-

* See Note 7

Notes:

- 36) Tabulated volume flow rates will result in the following pressure losses for the ducted attenuators, at air density of 1.2kg/m³

Splitter Code	Pressure Loss
E	50 Pa
D	60 Pa
DM & WM	60 Pa

- 37) Pressure loss varies in proportion to density.
38) Pressure loss varies in proportion to the square of the volume flow rate.
39) Maximum allowable volume flow rate is 1.25 x the values given in the tables, pressure loss varying in proportion to the square of the factor.
40) Approximate regenerated noise.

Volume Flow Rate	NC	A-Scale level
Over 0.63 to 0.8 tabulated value	30	35
Over 0.8 to 1.0 tabulated value	35	40
Over 1.0 to 1.25 tabulated value	40	45

- 41) Tabulated values apply to attenuators ducted both sides. For plenum entry and / or discharge the pressure loss is to be multiplied by the appropriate factor below.

Splitter Construction Code E			
Length Code	Plenum to Duct	Duct to Plenum	Plenum to Plenum
3 & 4	1.48	5.33	5.83
5 & 6	1.41	4.76	5.20
7 & 8	1.37	4.35	4.74

Splitter Construction Code D, DM & WM			
Length Code	Plenum to Duct	Duct to Plenum	Plenum to Plenum
3 & 4	1.40	4.61	5.03
5 & 6	1.34	4.13	4.50
7 & 8	1.31	3.79	4.12

- 42) Selections marked * are available only with the shorter attenuator



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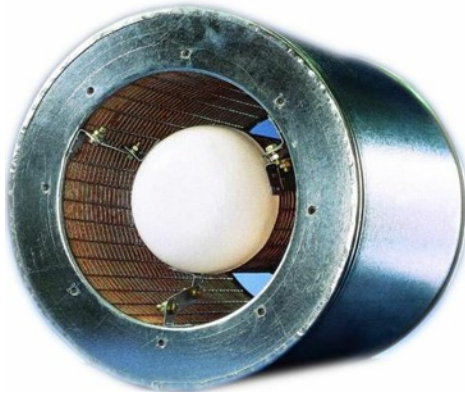


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Circular Sound Attenuators with or without POD

Silencer



Inline sound attenuators

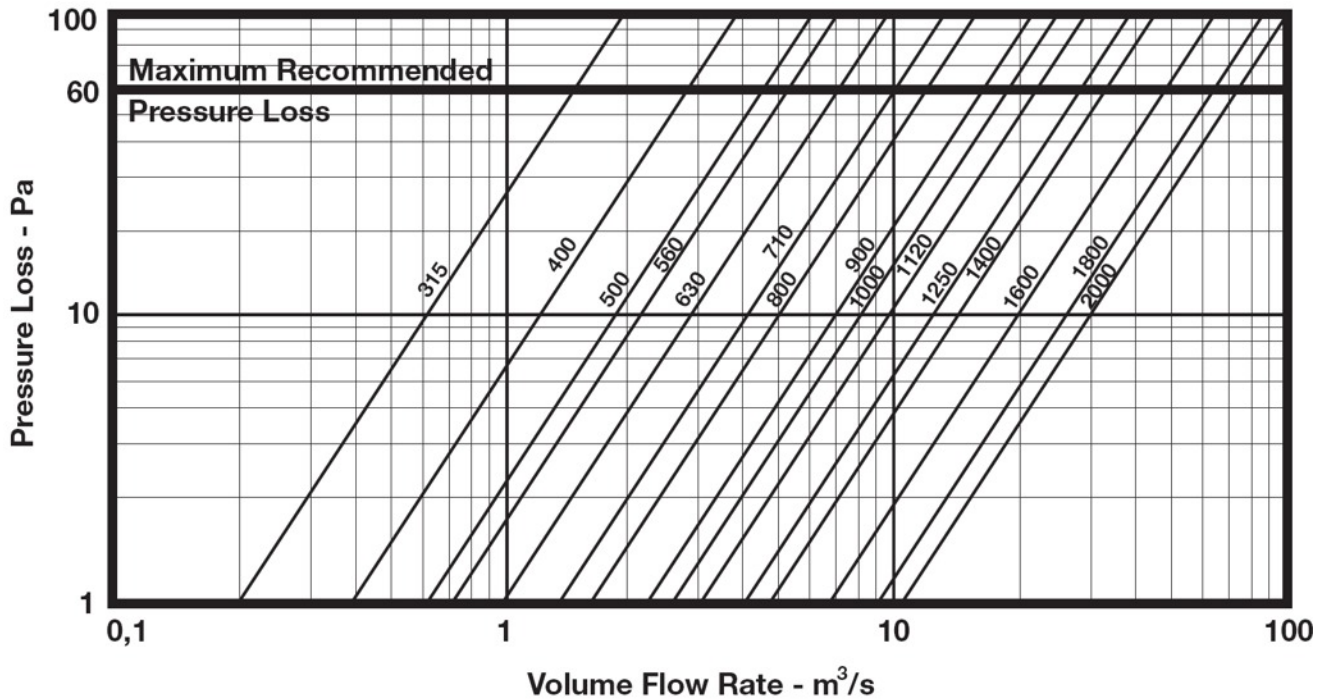
- High noise insertion loss for maximum sound attenuation
- Three different lengths available for optimum selection flexibility
- Units available with or without centre POD's
- Manufactured from pre-galvanized material
- Infill material kept in place with galvanized wire mesh
- Low pressure drop due to aerodynamic POD design
- Units are also available in clean seal and Melinex lined
- Casings are designed to withstand pressures up to 2500Pa

On Request

- Special construction material grades
- Heavy welded construction

Circular Sound Attenuators

Pressure Loss Chart



The pressure loss of series Circular attenuators can be considered as negligible for the range of velocities normally encountered in ventilation and air-conditioning systems.



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Acoustic Performance – Dynamic attenuation value in dB

	Octave Band – Mean Frequency								Octave Band – Mean Frequency							
	Circular 1.0D								Circular-P 1.0D							
	63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K
315	2	4	6	10	14	10	7	8	3	5	7	11	17	16	13	12
400	2	4	6	10	14	10	7	8	3	5	7	11	17	16	13	12
500	2	4	6	10	14	10	7	8	3	5	7	11	17	16	13	12
560	2	4	6	10	14	10	7	8	3	5	7	11	17	16	13	12
630	3	4	8	14	14	9	8	7	4	5	9	16	13	16	15	10
710	3	4	8	14	14	9	8	7	4	5	9	16	13	16	15	10
800	3	4	8	14	14	9	8	7	4	5	9	16	13	16	15	10
900	3	4	9	14	12	8	7	7	4	5	10	18	17	13	11	10
1000	3	4	9	14	12	8	7	7	4	5	10	18	17	13	11	10
1120	3	4	9	14	12	8	7	7	4	5	10	18	17	13	11	10
1250	3	4	9	14	12	8	7	7	4	5	10	18	17	13	11	10
1400	4	5	10	14	11	7	6	6	5	6	11	17	16	11	9	8
1600	4	5	10	14	11	7	6	6	5	6	11	17	16	11	9	8
1800	4	5	10	14	11	7	6	6	5	6	11	17	16	11	9	8
2000	4	5	10	14	11	7	6	6	5	6	11	17	16	11	9	8

	Octave Band – Mean Frequency								Octave Band – Mean Frequency							
	Circular 1.5D								Circular-P 1.5D							
	63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K
315	3	6	9	14	18	14	10	10	4	6	9	14	19	16	13	12
400	3	6	9	14	18	14	10	10	4	6	9	14	19	16	13	12
500	3	6	9	14	18	14	10	10	4	6	9	14	19	16	13	12
560	3	6	9	14	18	14	10	10	4	6	9	14	19	16	13	12
630	5	6	11	18	18	12	11	8	5	8	12	21	21	21	19	13
710	5	6	11	18	18	12	11	8	5	8	12	21	21	21	19	13
800	5	6	11	18	18	12	11	8	5	8	12	21	21	21	19	13
900	5	6	11	18	15	10	9	9	5	8	14	21	20	17	15	12
1000	5	6	11	18	15	10	9	9	5	8	14	21	20	17	15	12
1120	5	6	11	18	15	10	9	9	5	8	14	21	20	17	15	12
1250	5	6	11	18	15	10	9	9	5	8	14	21	20	17	15	12
1400	5	6	11	17	15	10	9	8	6	9	15	20	20	16	12	10
1600	5	6	11	17	15	10	9	8	6	9	15	20	20	16	12	10
1800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Acoustic Performance – Dynamic attenuation value in dB

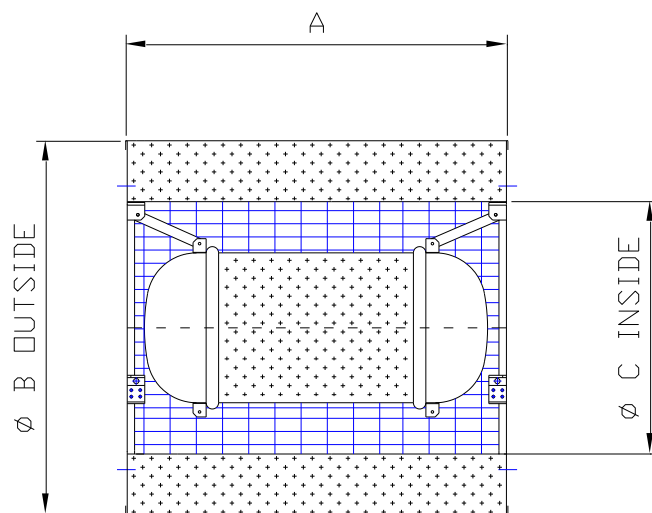
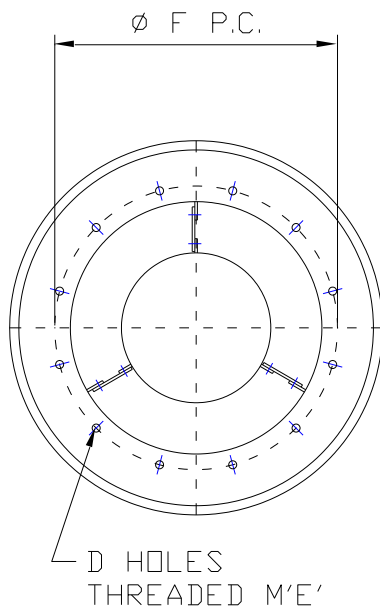
	Octave Band – Mean Frequency								Octave Band – Mean Frequency							
	Circular 2.0D								Circular-P 2.0D							
	63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K
315	4	7	11	17	21	17	13	12	4	7	11	17	21	17	13	12
400	4	7	11	17	21	17	13	12	6	9	14	20	24	23	20	19
500	4	7	11	17	21	17	13	12	6	9	14	20	24	23	20	19
560	4	7	11	17	21	17	13	12	6	9	14	20	24	23	20	19
630	6	8	13	22	22	14	13	9	7	10	15	25	29	26	23	16
710	4	7	11	17	21	17	13	12	7	10	15	25	29	26	23	16
800	4	7	11	17	21	17	13	12	7	10	15	25	29	26	23	16
900	6	8	13	21	18	12	11	10	7	10	17	24	24	21	18	15
1000	6	8	13	21	18	12	11	10	7	10	17	24	24	21	18	15
1120	6	8	13	21	18	12	11	10	7	10	17	24	24	21	18	15
1250	6	8	13	21	18	12	11	10	7	10	17	24	24	21	18	15
1400	5	7	12	19	18	13	11	9	8	12	19	23	24	21	14	13
1600	5	7	12	19	18	13	11	9	8	12	19	23	24	21	14	13
1800	5	7	12	19	18	13	11	9	8	12	19	23	24	21	14	13
2000	5	7	12	19	18	13	11	9	8	12	19	23	24	21	14	13



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	A - 1.0D mm	A - 1.5D mm	A - 2.0D mm	B - mm	C - mm	D	E - mm	F - mm	Circular 1.0D - Kg	Circular 1.5D - kg	Circular 2.0D - kg	Circular 1.0D - kg	Circular 1.5D - kg	Circular 2.0D - kg
315	315	475	630	467	315	8	8	355	10	13	20	13	19	26
400	400	600	800	552	400	8	10	450	14	20	28	19	27	38
500	500	750	1000	692	500	12	10	560	23	31	46	31	43	62
560	560	840	1120	752	560	12	10	620	27	36	54	38	54	76
630	630	945	1260	822	630	12	10	690	32	38	64	44	54	88
710	710	1065	1420	902	710	16	10	770	44	62	88	58	84	116
800	800	1200	1600	992	800	16	10	860	54	76	108	73	107	146
900	900	1350	1800	1092	900	16	12	970	68	97	136	91	119	182
1000	1000	1500	2000	1192	1000	16	12	1070	83	119	166	114	167	228
1120	1120	1680	2240	1312	1120	20	12	1190	140	189	280	183	255	366
1250	1250	1875	2500	1442	1250	20	12	1320	162	226	324	211	301	422
1400	1400	2100	2800	1593	1400	20	12	1470	222	313	444	290	418	580
1600	1600	2400	3200	1843	1600	24	16	1680	322	446	644	401	579	802
1800	1800	-	-	2043	1800	24	16	1880	390	-	-	481	-	-
2000	2000	-	-	2243	2000	24	16	2080	470	-	-	598	-	-



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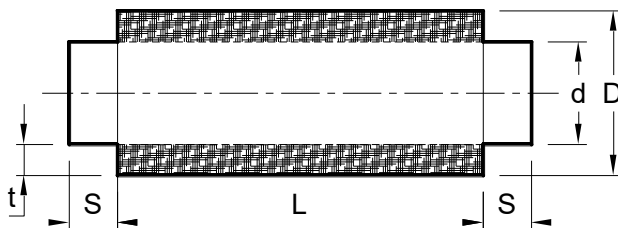
Tube Attenuators



- Compact, Low cost inline sound attenuators.
- Range fitted with spigots for easy duct connection and sized to match Inline fans supplied by Fan Movement
- High noise insertion loss for maximum sound attenuation.
- Three different lengths available for optimum selection flexibility.
- Units are manufactured from pre-galvanized material.
- Infill material kept in place with galvanized wire mesh.
- The pressure drop through the units are marginal and can be assumed as the same equivalent on a straight duct.
- Units are also available in clean seal and Melinex lined.
- Outer casings are also available in other material grades.

Technical Characteristics, insertion loss and Dimensions.

Model	Attenuation dB Mid frequency Hz							Dimensions mm				Weight Kg
	63	125	250	500	1000	2000	4000	d	D	L	S	
100-315	3	3	9	17	23	26	25	100	180	315	55	1.90
100-600	6	9	15	34	40	40	37	100	180	600	55	2.60
125-315	3	3	7	16	20	24	22	125	205	315	55	2.30
125-600	5	8	13	29	35	35	32	125	205	600	55	3.00
125-900	10	12	19	37	40	38	34	125	205	900	55	5.00
150-315	3	3	6	13	19	23	22	150	235	315	55	2.50
150-600	5	7	12	24	30	35	31	150	235	600	55	3.60
150-900	8	10	15	32	38	37	34	150	235	900	55	3.60
200-315	2	4	7	15	21	24	14	200	280	315	55	3.0
200-600	4	6	10	20	27	33	19	200	280	600	55	4.50
200-900	8	9	14	28	32	35	28	200	280	900	55	7.50
250-375	2	3	7	14	19	23	13	250	330	375	55	4.0
250-600	4	5	10	19	25	29	18	250	330	600	55	5.50
250-900	6	7	12	23	30	30	22	250	330	900	55	9.00
315-500	2	3	6	11	15	16	12	315	395	500	55	6.00
315-600	4	5	8	15	20	22	17	315	395	600	55	6.50
315-900	5	7	10	20	30	29	18	315	395	900	55	13.00



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Section F - Plate Mounted Fans

Bellax



HCD



HC



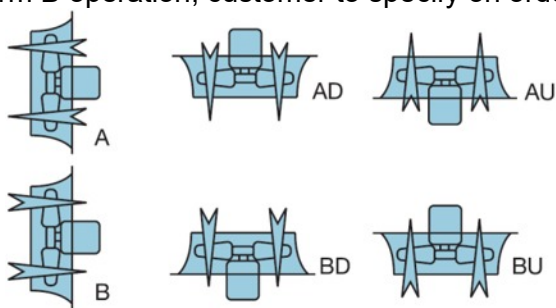
Bellax Bell Entry Axial Fans



- Fibreglass construction
- Standard bell inlet
- Epoxy coated motor side screen
- Fans are designed to move large quantities of air
- Range covers sizes from 315 to 1000mmØ
- Aerofoil aluminium blades in pressed steel hub
- Fans are selected from Majax-2 performance curves
- Impellers dynamically balanced to ISO 1940 – G6.3
- Operating temperature -10 to 40°C
- Motor; IP55 TE Class F, EFF2 efficiency
- *On special request;*
 - Other voltages, and motor insulations

Form of Running

Bellax models are generally supplied for Form A operation, these models are suitable for AD & AU installations. The range can be supplied for Form B operation, customer to specify on order.



Motor Side Guards

Fans from 315 to 500mmØ with the max motor frame of 100 (Standard IP55 only) are all screen mounted fans, the motor is supported by the motor side screen. All the others are supplied with pipe type motor arms with a separate motor side screen.

Impellers and Selection

The Bellax range of fans use Majax-2 impellers. The impeller is an aerofoil aluminium blade, locked in a pressed steel hub, dynamically balanced.

Use the Majax-2 curves for fan selection.

Starting

Standard motors up to and including 2.2kW are usually started direct-on-line. Motors 3kW and greater can be either direct-on-line or star-delta starting.

Mounting Plates

Mounting plates are moulded in glass reinforced plastic materials with external surfaces permanently colour impregnated – Navy Light Grey to SABS 1091-1975 colour G35.

Sound Data

Use the sound data from the Majax-2 performance curves.

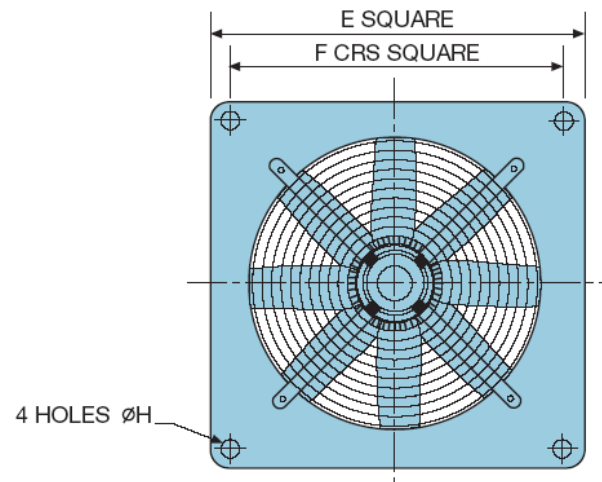
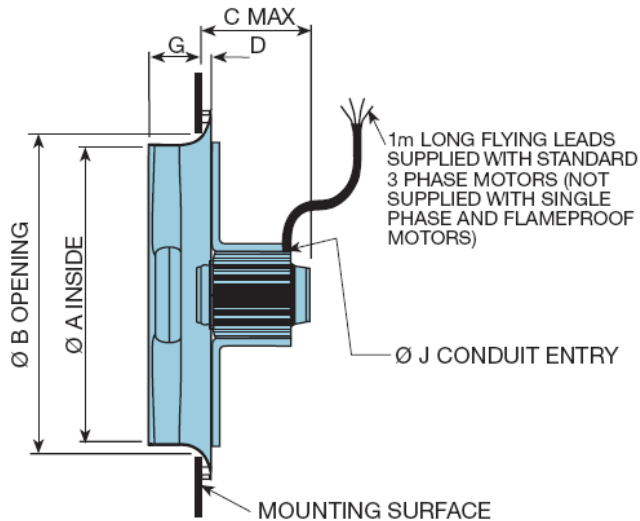
Optional Features

- Inlet and discharge wire screens
- Hot dip galvanized steel components
- Discharge wall cowls
- Aluminium gravity shutters



**FAN
MOVEMENT**

AIR AND GAS MOVEMENT SOLUTIONS



Bellax – Bell Entry Axial Fan

Fan Size	Speed / kW			A	B	C	D	E	F	G	H	J	App. Mass
	4P	6P	8P										
315	0.37	0.12	-	318	360	188	25	390	330	63	11	20	10
400	0.37	0.12	-	403	450	179	25	490	420	73	11	20	11
500	0.37	0.12	-	503	570	171	25	620	550	85	11	20	15
500	0.55 0.75	0.55	-	503	570	186	25	620	550	85	11	20	17
560	0.37	0.12	-	564	630	178	25	690	610	95	13	20	24
560	0.55 to 1.5	0.55	-	564	630	205	25	690	610	95	13	20	26
630	0.55 to 1.5	0.55	-	634	720	196	25	790	710	105	13	20	28
630	2.2	-	-	634	720	234	25	790	710	105	13	20	31
800	-	0.55	-	805	900	180	25	990	900	115	15	20	42
800	1.5	0.75 1.1	-	805	900	192	25	990	900	115	15	20	44
800	2.2 3.0	1.5	0.75 1.1	805	900	230	25	990	900	115	15	20	48
800	4.0	2.2	-	805	900	254	25	990	900	115	15	20	53
1000	-	2.2	1.5	1005	1120	273	40	1190	1090	110	15	20	61
1000	-	3.0 to 5.5	2.2 3.0	1005	1120	368	40	1190	1090	110	15	25	86

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Unit 10, Prolecon Park
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Arrangement: Wall-Mounted Type: Axial Fans

HC FANS



- Sheet steel support Frames
- Polyamide 6 Fiberglass – reinforced impeller; dynamically balanced in compliance with ISO 1940 standard
- Asynchronous motors, with squirrel-cage rotor with ball bearings.
- IP55 protection (IP44 models, 45-4MH, 50-4MH, 50-6MH, 56-4ML, 56-6MH)
- Class F insulation. Standard models can operate at temperatures between -25 & +60°C.
- Standard models supplied with three phase 230/400V, 50Hz up to 5.5HP
- Motor support including protection guard according to 24167 DIN and 20-359-74 UNE standards.
- Corrosion Proof finish in polyester resin, polymerized at 180°C, after degreasing, phosphating and passivation pre-treatment.

HC Wall Mounted Fans

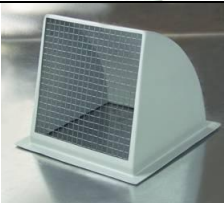
Technical Characteristics

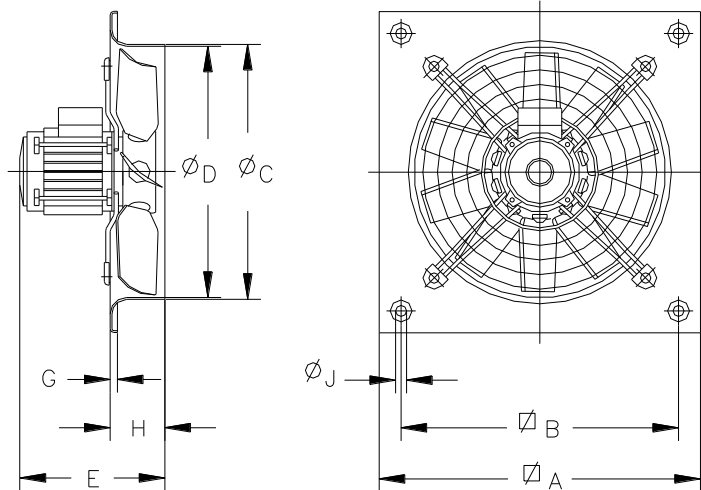
Model	Speed	Full Load current (A)			Installed Power (kW)	Max Airflow m ³ /hour	Sound level pressure dB(A) ¹	Approximate Mass (Kg)
		230V	400V	690V				
HC 31-4 M/H	1430	0.75	-	-	0.10	2 400	54	6
HC 31-4 T/H	1430	0.64	0.37	-	0.10	2 400	54	6
HC 35-4 M/H	1360	0.87	-	-	0.10	3 500	58	7
HC 35-4 T/H	1360	0.72	0.42	-	0.10	3 500	58	7
HC 40-6 M/H	970	1.30	-	-	0.25	3 700	55	10
HC 40-6 T/H	970	1.30	0.75	-	0.25	3 700	55	10
HC 40-4 M/H	1400	2.18	-	-	0.25	5 200	63	10
HC 40-4 T/H	1400	1.82	1.05	-	0.25	5 200	63	10
HC 45-6 M/H	950	1.50	-	-	0.25	5 200	57	14
HC 45-6 T/H	950	1.47	0.85	-	0.25	5 200	57	14
HC 45-4 M/H	1375	3.10	-	-	0.37	7 300	66	14
HC 45-4 T/H	1380	2.08	1.20	-	0.37	7 300	66	14
HC 50-4 M/H	1350	5.02	-	-	0.55	10 200	69	18
HC 50-4 T/H	1380	2.94	1.70	-	0.55	10 200	69	18
HC 50-6 M/H	960	2.50	-	-	0.37	6 300	59	18
HC 50-6 T/H	960	2.08	1.20	-	0.37	6 300	59	18
HC 56-4 M/L	1380	4.60	-	-	0.55	11 050	70	18
HC 56-4 T/H	1440	4.68	2.70	-	1.10	13 000	72	24
HC 56-6 M/H	940	2.50	-	-	0.37	8 400	61	19
HC 56-6 T/H	940	2.25	1.30	-	0.37	8 400	61	19
HC 63-4 T/L	1430	3.84	2.22	-	0.75	14 400	73	19
HC 63-4 T/H	1415	5.20	3.00	-	1.10	16 450	74	26
HC 63-4 M/L	1430	4.78	-	-	0.55	14 400	73	19
HC 63-6 M/H	890	3.00	-	-	0.37	12 400	64	21
HC 63-6 T/H	890	2.42	1.40	-	0.37	12 400	64	21

Note 1) Sound power levels in dB(A), obtained in the open at a distance equivalent to twice the fan span plus the impeller diameter, with a minimum of 1.5m

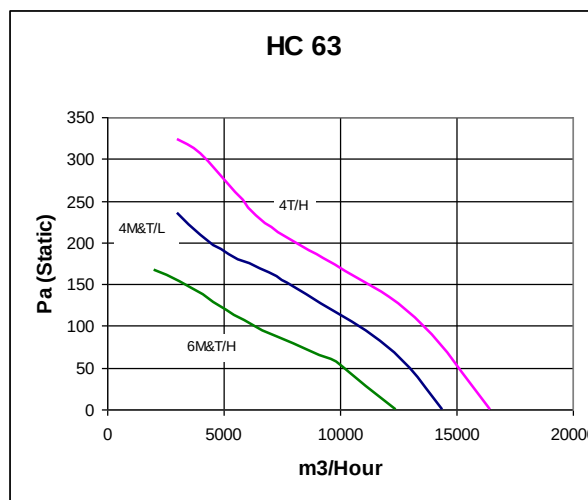
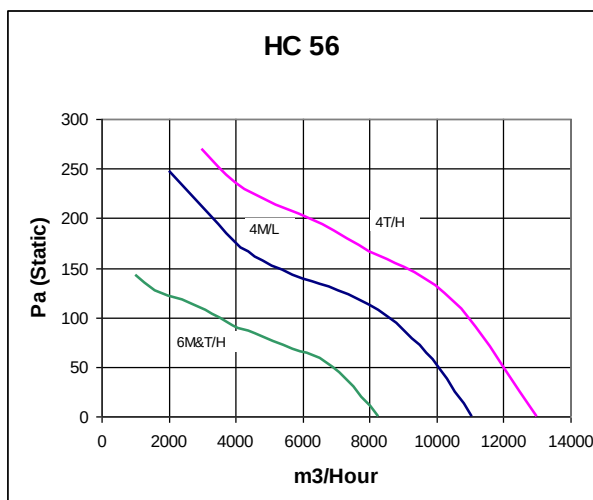
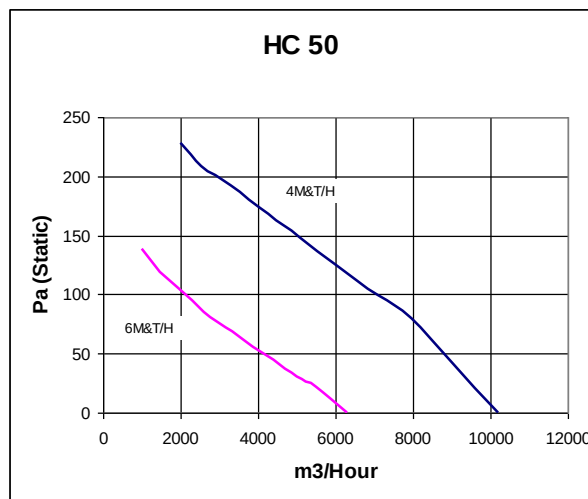
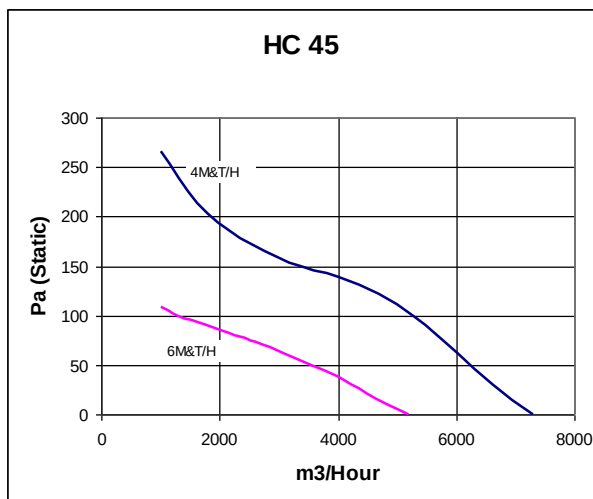
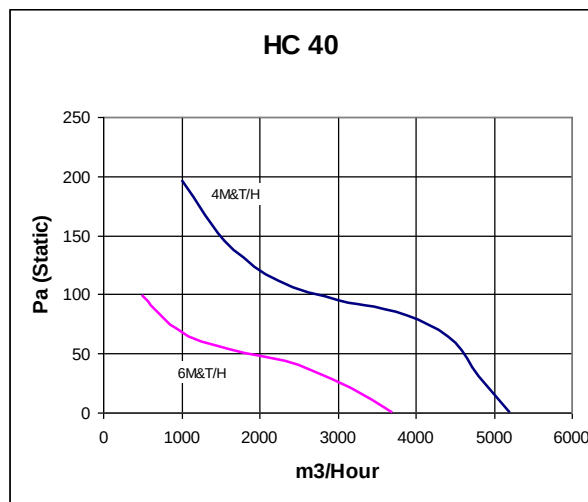
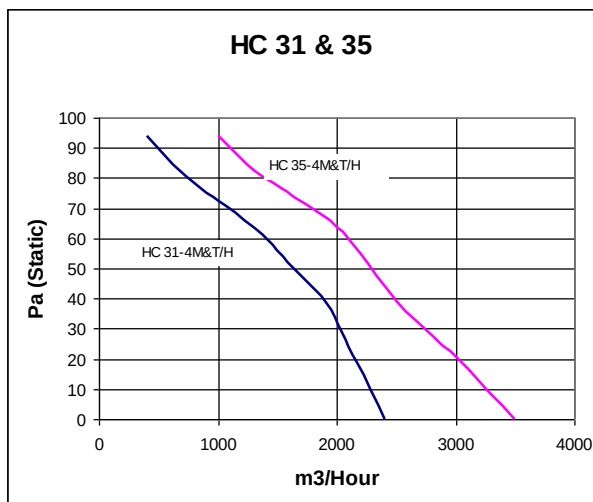
	63	125	250	500	1000	2000	4000	8000
HC 31-4 M/H	28	38	55	55	63	59	52	43
HC 31-4 T/H	28	38	55	55	63	59	52	43
HC 35-4 M/H	32	42	59	59	67	63	56	47
HC 35-4 T/H	32	42	59	59	67	63	56	47
HC 40-6 M/H	20	37	49	57	62	62	58	51
HC 40-6 T/H	20	37	49	57	62	62	58	51
HC 40-4 M/H	28	45	57	65	70	70	66	59
HC 40-4 T/H	28	45	57	65	70	70	66	59
HC 45-6 M/H	24	41	54	61	66	67	62	55
HC 45-6 T/H	24	41	54	61	66	67	62	55
HC 45-4 M/H	33	50	63	70	75	76	71	64
HC 45-4 T/H	33	50	63	70	75	76	71	64
HC 50-4 M/H	36	53	66	73	78	79	74	67
HC 50-4 T/H	36	53	66	73	78	79	74	67
HC 50-6 M/H	26	43	56	63	68	69	64	57
HC 50-6 T/H	26	43	56	63	68	69	64	57
HC 56-4 M/L	43	58	68	73	79	80	76	69
HC 56-4 T/H	39	56	69	76	81	82	77	70
HC 56-6 M/H	28	45	58	65	70	71	66	59
HC 56-6 T/H	28	45	58	65	70	71	66	59
HC 63-4 T/L	48	63	73	78	84	85	81	74
HC 63-4 T/H	43	60	73	80	85	86	81	74
HC 63-4 M/L	48	63	73	78	84	85	81	74
HC 63-6 M/H	33	50	63	70	75	76	71	64
HC 63-6 T/H	33	50	63	70	75	76	71	64

Optional Accessories

RM 220/1/50 Speed Controller	
Aluminium Louvre Shutter	
Galvanised Steel Cowl & Screen	



Model Number	A(sq)	B(sq)	ØC	ØD	E	G	H	ØJ	K
HC 31-4 M/H	400	336	310.5	308	204	11	75	10.5	380
HC 31-4 T/H	400	336	310.5	308	204	11	75	10.5	380
HC 35-4 M/H	465	390	362.5	360	215	11	86	10.5	450
HC 35-4 T/H	465	390	362.5	360	215	11	86	10.5	450
HC 40-6 M/H	532	452	412.5	410	286	11	97.5	10.5	500
HC 40-6 T/H	532	452	412.5	410	286	11	97.5	10.5	500
HC 40-4 M/H	532	452	412.5	410	266	11	97.5	10.5	500
HC 40-4 T/H	532	452	412.5	410	266	11	97.5	10.5	500
HC 45-6 M/H	596	504	462.5	460	286	11	105	10.5	560
HC 45-6 T/H	596	504	462.5	460	286	11	105	10.5	560
HC 45-4 M/H	596	504	462.5	460	274	11	105	10.5	560
HC 45-4 T/H	596	504	462.5	460	267	11	105	10.5	560
HC 50-4 M/H	665	562	516.5	514	293	11	115	10.5	640
HC 50-4 T/H	665	562	516.5	514	277	11	115	10.5	640
HC 50-6 M/H	665	562	516.5	514	329	11	115	10.5	640
HC 50-6 T/H	665	562	516.5	514	329	11	115	10.5	640
HC 56-4 M/L	710	630	563	560	293	15	115	10.5	721
HC 56-4 T/H	710	630	563	560	386	15	115	10.5	721
HC 56-6 M/H	710	630	563	560	329	15	115	10.5	721
HC 56-6 T/H	710	630	563	560	329	15	115	10.5	721
HC 63-4 T/L	800	710	638	635	318	15	140	10.5	820
HC 63-4 T/H	800	710	638	635	411	15	140	10.5	820
HC 63-4 M/L	800	710	638	635	318	15	140	10.5	820
HC 63-6 M/H	800	710	638	635	354	15	140	10.5	820
HC 63-6 T/H	800	710	638	635	354	15	140	10.5	820



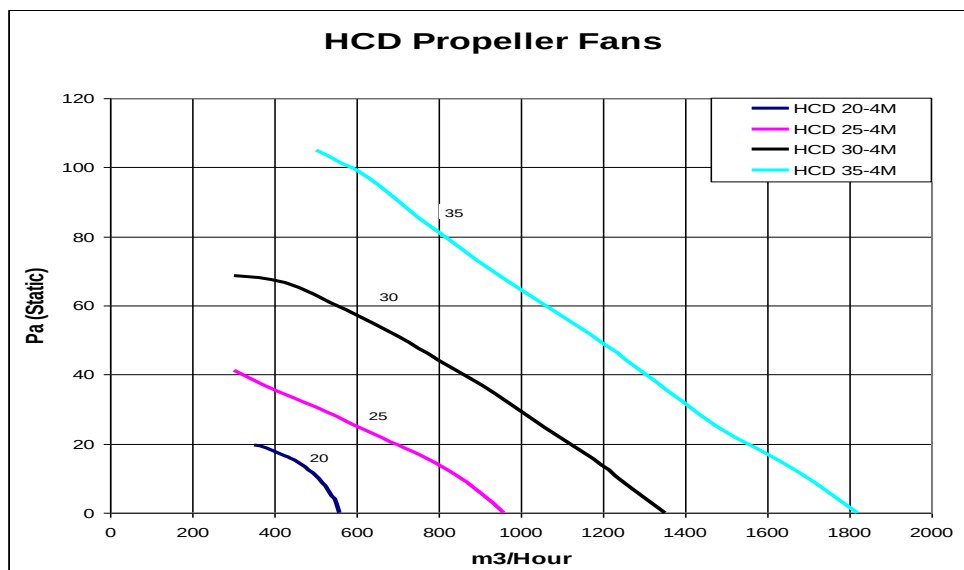
Arrangement: Small Wall-Mounted Type: Axial Fans

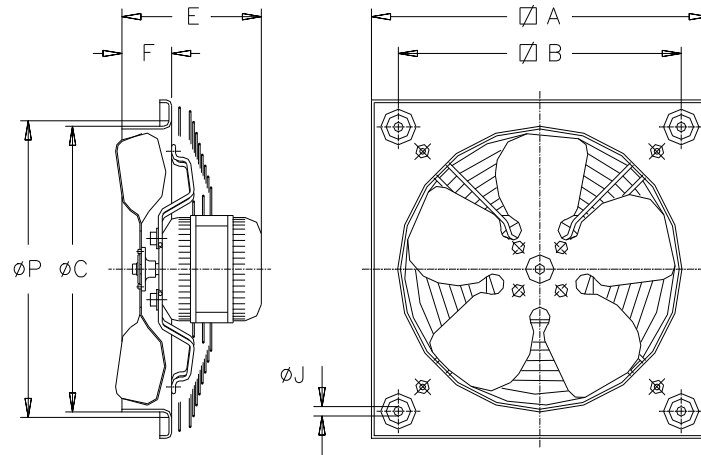


- Rolled sheet steel support frame.
- Aluminium sheet impeller.
- Motor for models 20,25,30 and 35:
Single-phase, four-pole shading ring 230V, closed construction, IP-44 insulation, class B self-protecting and self-lubricated.
Working temperature: -30°C + 50°C.
- Protection guard meets UNE 100250 standards.
- Airflow direction from motor to impeller only.
- Fans are supplied with connection power cable.
- Anticorrosive finish in polyester resin, polymerised at 180°C, after degreasing, phosphating and passivation pre-treatment.

Technical Characteristics

Model	Speed r/min	Full Load current (A) 230V	Installed Power (Watt)	Max Airflow m ³ /hour	Sound level pressure dB(A)	Approximate Mass (Kg)
HCD 20-4M	1350	0.21	36	560	38	1.15
HCD 25-4M	1340	0.25	41	960	43	1.60
HCD 30-4M	1360	0.51	76	1350	48	2.15
HCD 35-4M	1365	0.80	115	1820	53	6.20





Model Number	A(sq)	B(sq)	ØC	E	F	ØJ	ØP
HCD 20-4M	266	222	211	104.5	34	9.0	240
HCD 25-4M	330	275	262	105.5	56	10.5	290
HCD 30-4M	400	336	311	153	75	10.5	348
HCD 35-4M	465	390	363	166	86	10.5	410

Optional Accessories

RM 220/1/50 Speed Controller	
Plastic PL Louvre Shutter	
Galvanised Steel Cowl & Screen	

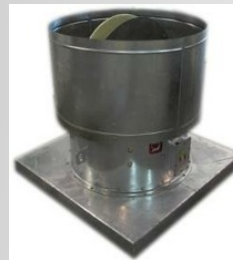
**Back to Table
of Content**

Section G - Roof Fans

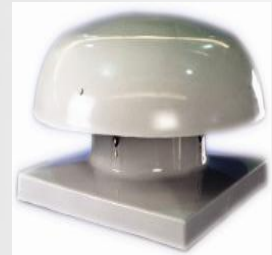
VKMK



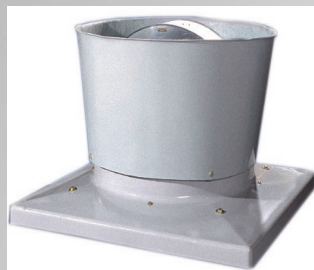
HVJ2S



UV



HVJ-2



UV-VJ



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

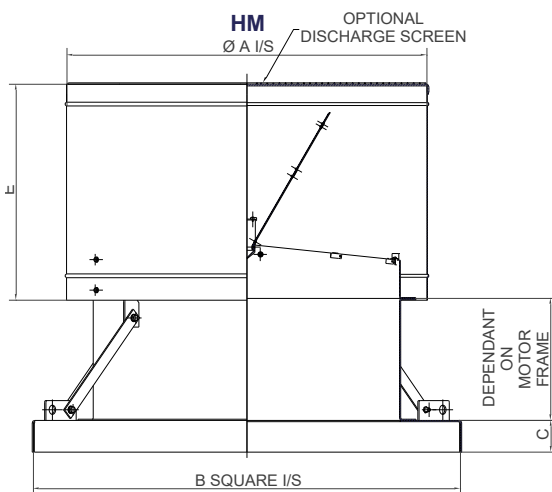
HVJ-2S Vertical Jet Vertical Discharge Shutter Assembly



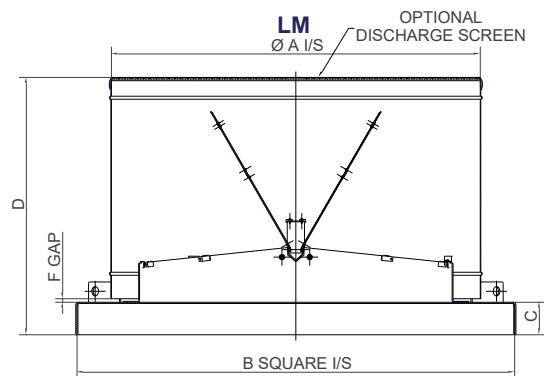
- Robust Construction
- Lightweight Aluminium Shutters
- Magnetic latches to prevent shuttering blades
- Rotatable casing to suit site conditions
- Galvanised finish
- Installation Flexibility
- Low Operating resistance ($k=0.35$)
- Selection from Majax-2 / Fumax Curves
- Bolted to Standard Donkin Cased Axial Fans
- *On special request;*
 - *Stainless steel*
 - *Special Coatings*

Technical Characteristics

High Mount Arrangement



Low Mount Arrangement



- Cased Axial Fan to be supplied Form B

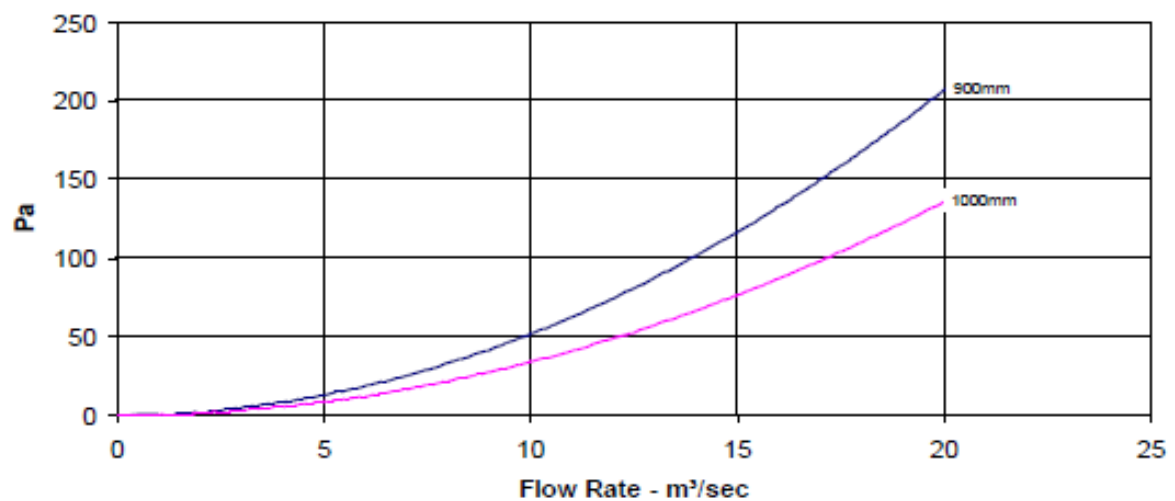
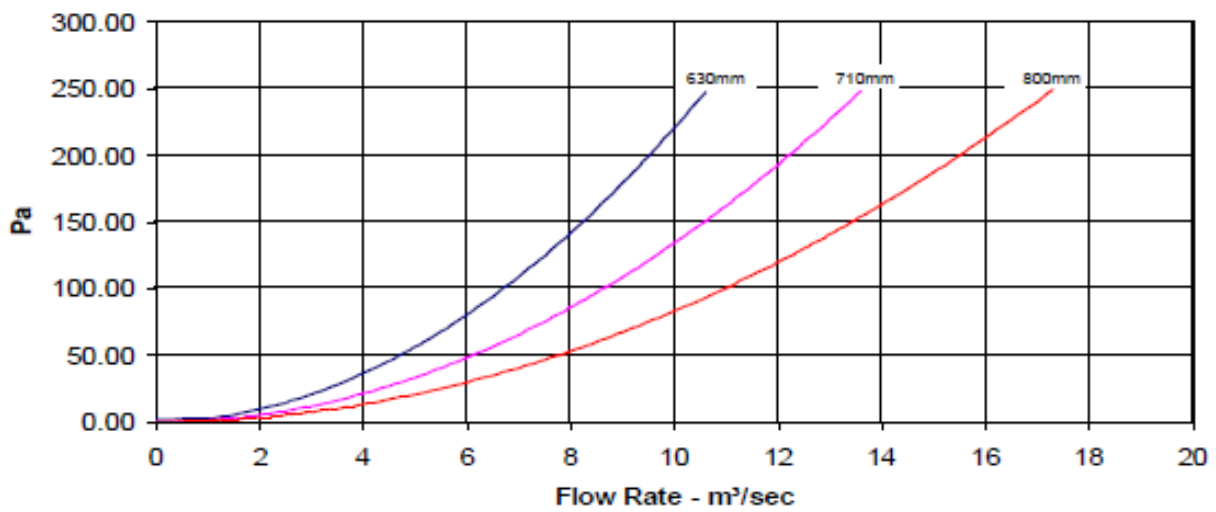
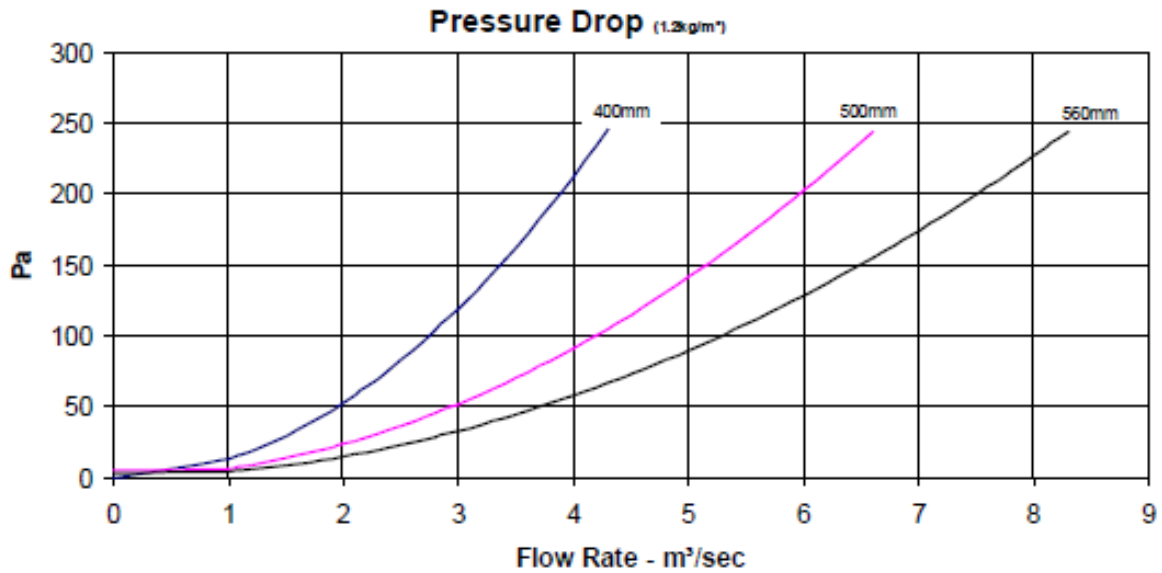
- Include the fan mass to achieve the total assembly weight

Unit Size	A	B	C	D	E	F	Shutter Mass	Base Mass
HVJ-2S 400	505	700	78	426	335	13	9.64 kg	7.59 kg
HVJ-2S 500	630	800	78	481	390	13	13.05 kg	8.94 kg
HVJ-2S 560	685	900	78	516	425	13	15.20 kg	10.81 kg
HVJ-2S 630	750	1000	78	562	471	13	18.14 kg	12.73 kg
HVJ-2S 710	845	1100	78	628	511	13	27.92 kg	26.23 kg
HVJ-2S 800	930	1200	78	682	565	13	33.30 kg	29.61 kg
HVJ-2S 900	1065	1300	103	752	638	11	44.04 kg	35.69 kg
HVJ-2S 1000	1180	1400	104	822	708	11	54.30 kg	56.08 kg



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Unit 10, Prolcon Park
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UV Horizontal Discharge Mixed Flow Roof Exhaust Fan



- Structural Glass Fibre Base and Weather Skirt
- Mixed Flow Impeller
- Impeller Supplied with Hot dip Galvanized Finish.
- Motor Mounting Brackets e-coated
- Static pressures up to 600 Pa
- Airflow rates up to 4.9m³/sec
- Suitable for installations up to 45° roof pitch
- Motors are all supplied IP55 TE Class F
- All Fasteners are electroplated

On Request

- Special Voltages
- Colour to customer specifications

Technical Characteristics

	Speed (r.p.m.)	kW	V / Ph / Hz	Amps	Max Flow (m ³ /s)	Max Press (Pa)	dBa @ 3m ₁	IP Rating	Max Temp. (°C)	Unit Mass (kg)
250/1/4	1425	0.18	220 / 1 / 50	1.45	0.562	235	56	IP55	40	28
250/1/6	950	0.18	220 / 1 / 50	1.47	0.377	104	44	IP55	40	29
400/3/4	1430	0.55	400 / 3 / 50	1.30	1.257	500	64	IP55	50	32
400/3/6	920	0.55	400 / 3 / 50	1.57	0.861	225	53	IP55	50	36
400/1/4	1430	0.55	220 / 1 / 50	4.50	1.257	500	64	IP55	40	32
400/1/6	880	0.55	220 / 1 / 50	3.90	0.861	225	53	IP55	40	36
500/3/4	1450	1.5	400 / 3 / 50	3.30	2.14	600	70	IP55	50	38
500/3/6	920	0.55	400 / 3 / 50	1.57	1.456	305	60	IP55	50	42
500/1/6	880	0.55	220 / 1 / 50	3.90	1.456	305	60	IP55	40	42
630/3/6	945	1.5	400 / 3 / 50	3.80	3.225	514	68	IP55	50	46
630/3/8	710	0.75	400 / 3 / 50	2.23	2.525	320	58	IP55	50	49
710/3/6	950	2.2	400 / 3 / 50	5.26	4.91	600	70	IP55	50	66
710/3/8	700	1.1	400 / 3 / 50	3.33	3.679	354	62	IP55	50	67

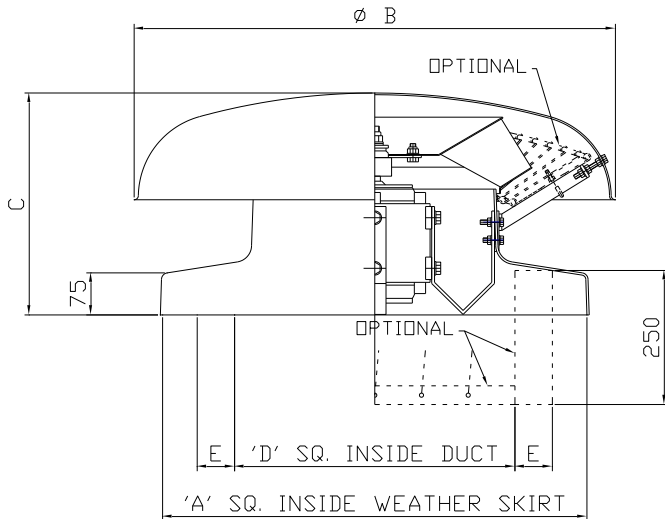
1) Free field dBa figures tabulated on this page are given as a general guide. Sound level at 3m from the open inlet to the fans. Above figure are given at free inlet duty.





**FAN
MOVEMENT**

AIR AND GAS MOVEMENT SOLUTIONS



Size	A	B	C	D	E
250	550	629	310	275	75
400	655	778	370	375	75
500	750	855	400	475	75
630	850	1087	450	575	75
710	1000	1245	510	675	100

UV Roof Fan

Sound power levels in dBW ref. 10^{-12} watts

	speed	63	125	250	500	1000	2000	4000
250	4 Pole	68	71	74	72	69	65	56
	6 Pole	60	63	63	60	58	54	43
400	4 Pole	72	77	79	78	77	75	71
	6 Pole	64	70	70	68	66	63	59
500	4 Pole	78	84	87	85	83	80	78
	6 Pole	69	77	77	75	73	69	65
630	6 Pole	79	84	86	84	80	77	74
	8 Pole	74	76	75	73	71	67	62
710	6 Pole	84	87	89	85	83	79	75
	8 Pole	78	80	79	78	75	71	70

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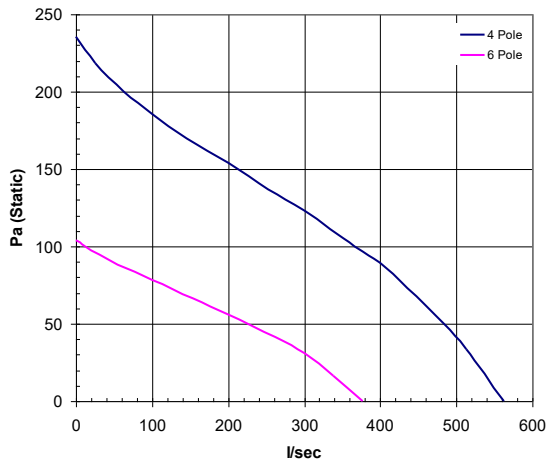
Unit 10, Prolecon Park
4 Prolecon Rd Prolecon Jhb 2001



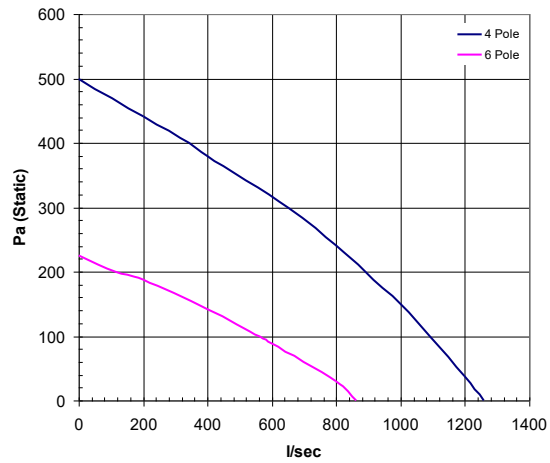
FAN MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

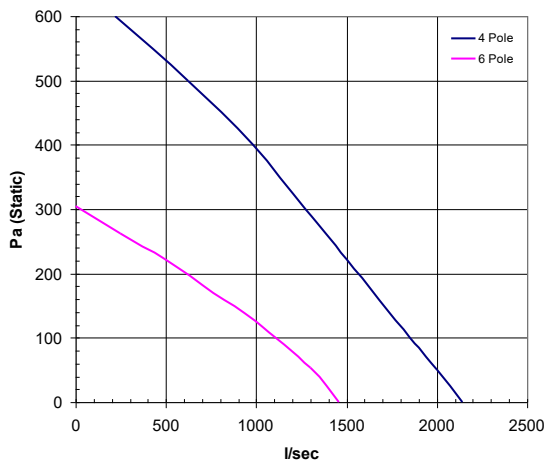
UV 250



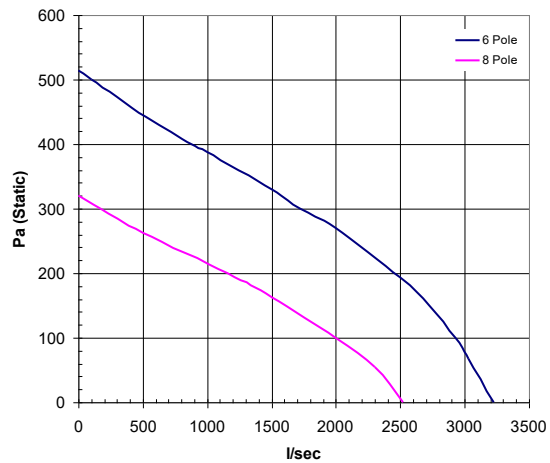
UV 400



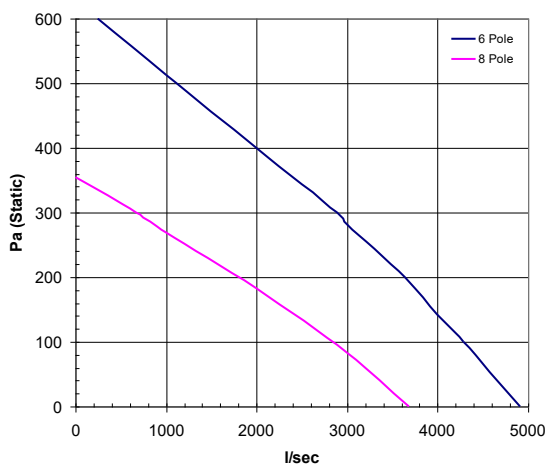
UV 500



UV 630



UV 710



Optional Accessories

- Discharge Bird Screen
- Gravity Back Draft Shutters
- Soaker Sheet to Various Roof Profiles

Performance curves are drawn at 1.2kg/m³

Fan Movement Fans reserves the right to change product specifications without prior



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VKMK Roof Exhaust Fan

Centrifugal roof fans with the air flow up to 1880 m³/h (522 l/s) in a steel casing with a horizontal discharge.

Applications

VKMK is a Exhaust ventilation system for various types of applications. Suitable for mounting on any roof types as well as connection to Ø 150 up to 315 mm round air ducts for ducted exhaust applications.

Design

The fan casing is made of carbon steel with polymeric coating.

Motors

Motors are fitted with a centrifugal impeller with backward curved blades and is powered by means of the single phase external rotor motor. The motors are equipped with thermal overheating protection with automatic restart as well as ball bearings for long service life. For precise features, safe operation and low noise of the fan, all impellers are dynamically balanced during assembly.

Motor protection rating IP 44.

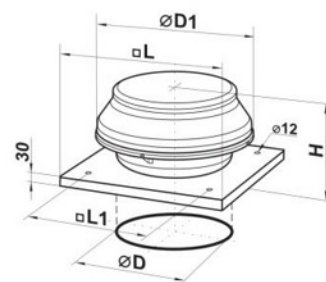
Speed Control

Smooth or step speed control is performed by means of the thyristor or autotransformer controller. Several fans can be connected to one controller in case the total power and operating current do not exceed the rated controller values.

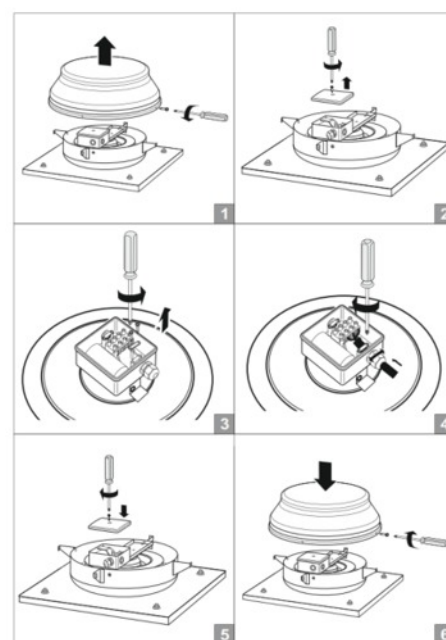
Installation

The fan is mounted on the roof directly above the ventilating duct or shaft and is firmly fixed to the flat surface by means of a connecting plate. Electrical Connection and mounting shall be performed in compliance with the manual and wiring diagram on the terminal box.

Model	VKMK 150	VKMK 200	VKMK 250	VKMK 315
Voltage Hz	230 50	230 50	230 50	230 50
Power (W)	98	154	194	296
Current (A)	0.43	0.67	0.85	1.34
Max m ³ /h	555	950	1310	1880
dBa @ 3m	47	48	52	54
Max °C	-25 +50	-25 +50	-25 +50	-25 +50
IP Rating	X4	X4	X4	X4

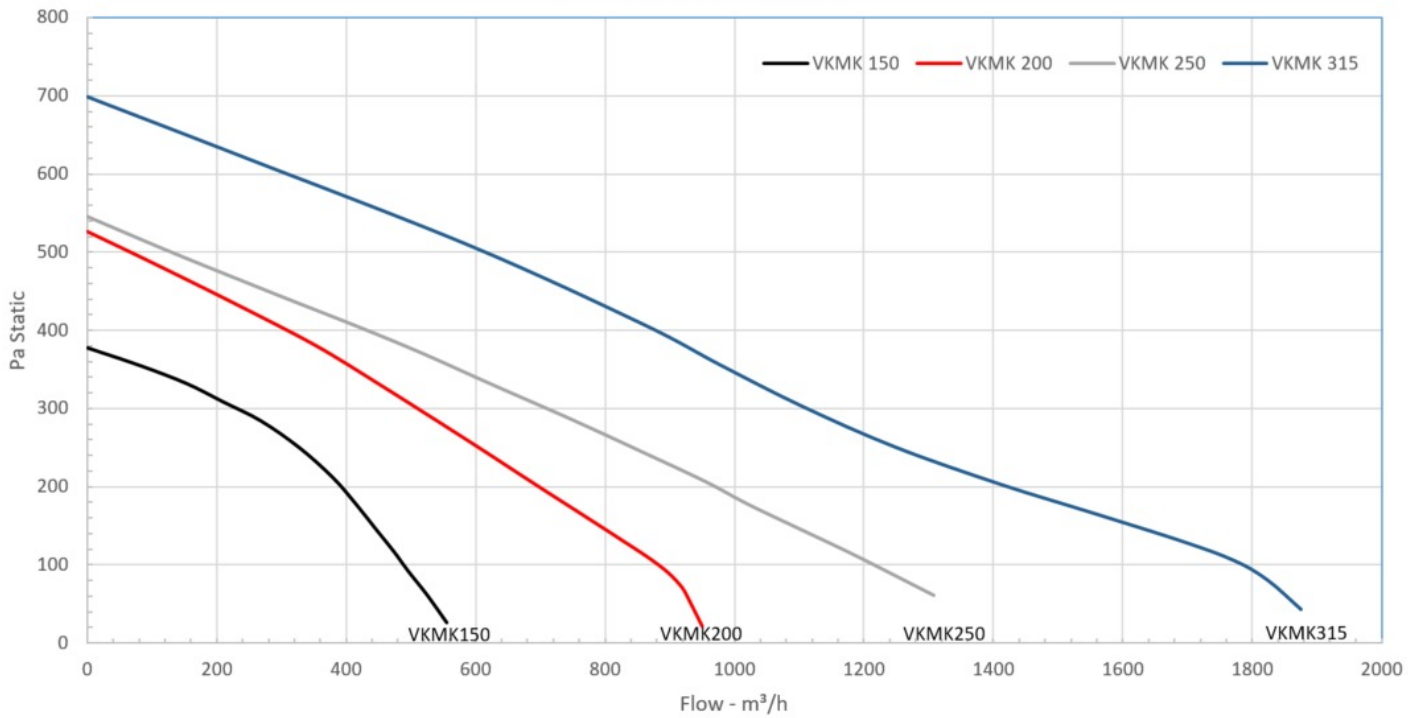


Model	VKMK 150	VKMK 200	VKMK 250	VKMK 315
ØD	149	198	248	315
ØD1	400	400	400	500
H	230	250	249	269
L	440	440	590	590
L1	330	330	450	450
Weight (kg)	7.2	8.1	10.1	10.1





VKMK Roof Exhaust Fan

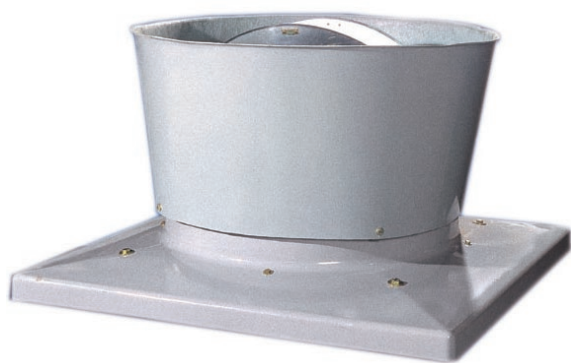


Optional Accessories

Silencer	Neoprene Clamp	Damper	Controller (Manual)	Controller (use with Sensors)	
					
SILDDD/LLL	CZDDD	KOMUDDD	RS1400 – 4Amp	RS-3.0TA 4-20mA or 1-10V	



HVJ-2 Roof Fan



**HVJ-2 Vertical Discharge
Axial Flow Roof Exhaust Fan**

- Structural Glass Fibre Base and Weather Skirt
- Aerofoil Axial Flow Impeller
- High Extraction Rate
- Motor Mounting Brackets e-coated
- Static pressures up to 460 Pa
- Airflow rates up to 12.8m³/sec
- Suitable for Pitched or Flat Roofs
- Motors are all supplied IP55 TE Class F
- All Fasteners are electroplated

On Request

- Special Voltages
- Colours to customers specifications

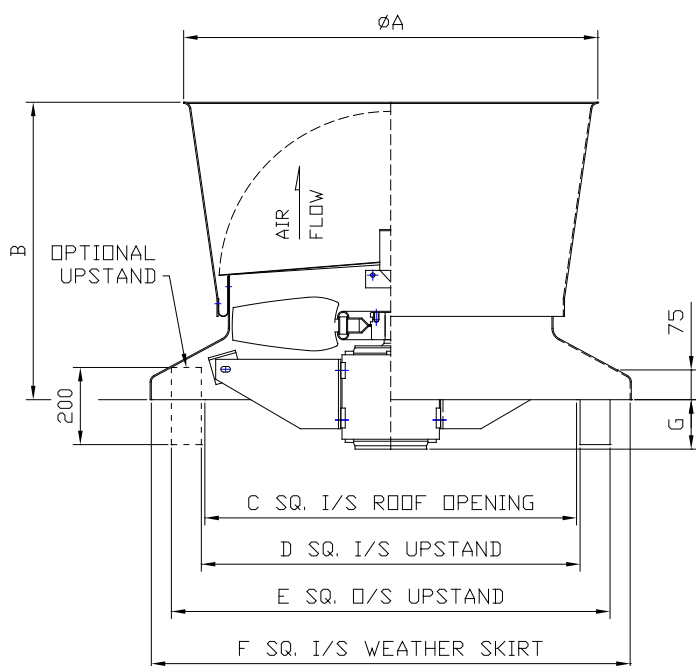
HVJ-2 Roof Fan

Technical Characteristics

HVJ-2	Speed (r.p.m.)	kW	V / Ph / Hz	Amps	Max Flow (m³/s)	Max Press (Pa)	dBa @ 3m ₁	IP Rating	Max Temp. (°C)	Unit Mass (kg)
630/4/32	1410	2.2	400 / 3 / 50	4.75	5.18	254	68	IP55	50	50
630/4/25	1410	1.5	400 / 3 / 50	3.34	4.43	253	65	IP55	50	38
630/6/34	910	0.75	400 / 3 / 50	1.89	3.59	112	57	IP55	50	35
630/8/34	705	0.75	400 / 3 / 50	2.58	1.79	63	51	IP55	50	54
800/4/33	1455	7.5	400 / 3 / 50	14.8	10.69	405	79	IP55	50	94
800/4/27	1450	5.5	400 / 3 / 50	11.0	9.37	403	75	IP55	50	93
800/4/21	1440	4.0	400 / 3 / 50	8.18	7.88	428	73	IP55	50	68
800/4/17	1400	3.0	400 / 3 / 50	6.47	6.88	464	71	IP55	50	64
800/6/33	940	2.2	400 / 3 / 50	5.36	7.18	180	67	IP55	50	68
800/8/34	700	1.1	400 / 3 / 50	3.38	5.41	100	60	IP55	50	54
1000/6/26	960	5.5	400 / 3 / 50	13.0	12.76	318	68	IP55	50	152
1000/6/20	960	4.0	400 / 3 / 50	9.27	10.61	325	65	IP55	50	152
1000/8/32	710	3.0	400 / 3 / 50	7.21	11.00	163	64	IP55	50	152

1) Free field dBa figures tabulated on this page are given as a general guide to the unit sound level at 3m from the open inlet to the fans. Above figure are given at free inlet duty.





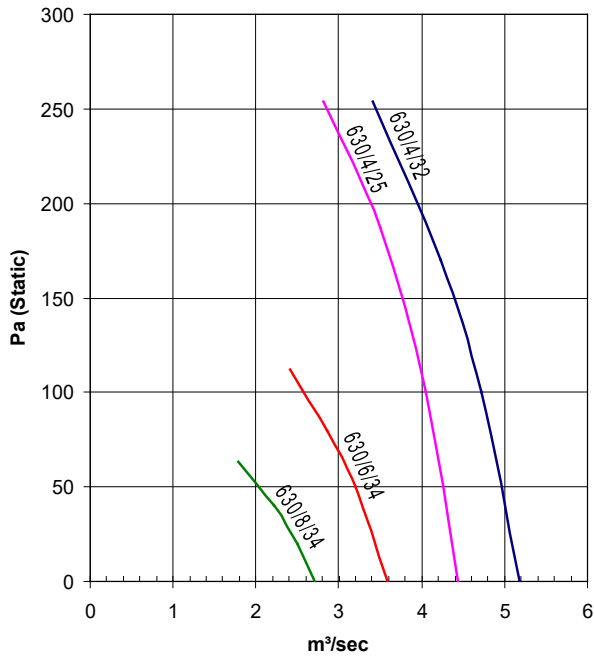
	630	800	1000
A	830	1035	1340
B	620	765	955
C Min Opening	700	900	1100
D	750	950	1200
E	950	1150	1450
F	1000	1200	1500
G	245	265	240

Sound power levels in dBw ref. 10^{-12} watts,

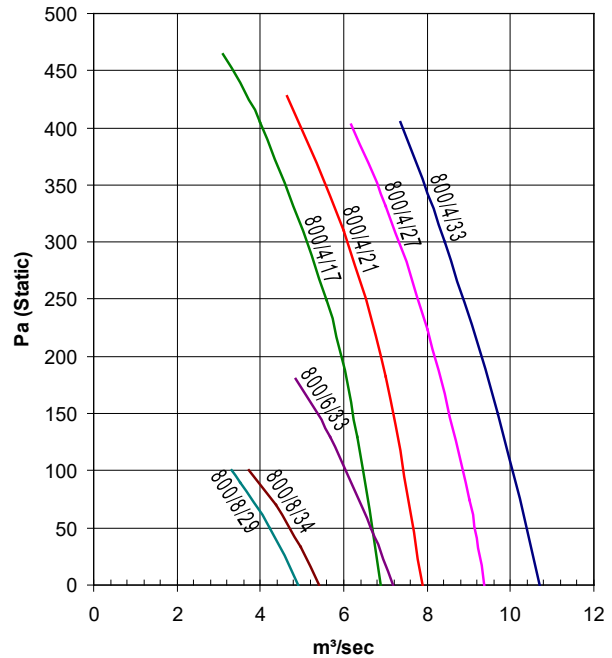
Model	63	125	250	500	1000	2000	4000	8000
630/4/32	85	86	89	86	85	80	75	68
630/4/25	82	83	86	83	82	77	72	65
630/6/34	78	78	80	76	75	69	64	56
630/8/34	72	72	74	70	69	63	58	49
800/4/33	99	96	97	96	94	91	86	80
800/4/27	97	94	95	94	92	89	84	78
800/4/21	95	92	93	92	90	87	82	76
800/4/17	91	88	89	88	86	83	78	72
800/6/33	90	86	86	85	82	79	73	67
800/8/34	85	80	80	78	74	71	65	58
1000/6/26	95	95	93	89	85	80	76	70
1000/6/20	93	93	91	87	83	78	74	68
1000/8/32	92	91	88	84	79	74	70	63

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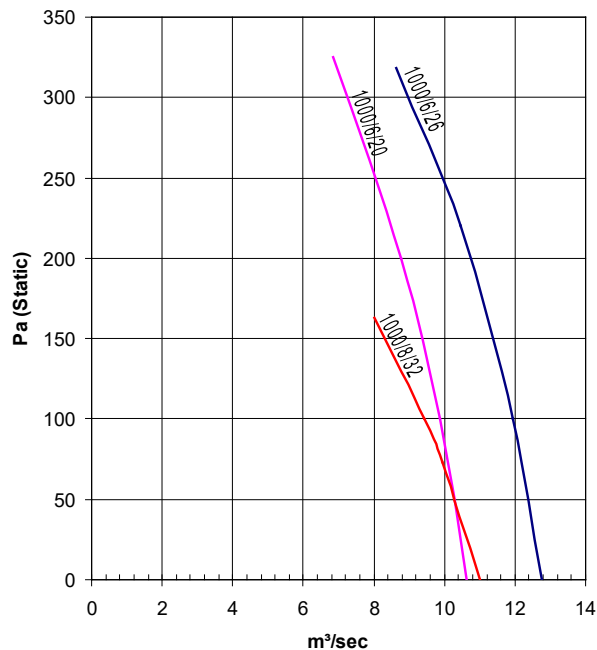
HVJ-2 630



HVJ-2 800



HVJ-2 1000



Performance curves are drawn at 1.2kg/m³

Optional Accessories

- Discharge Bird Screen
- Gravity Back Draft Shutters
- Soaker Sheet to Various Roof Profiles
- Pre-Galvanised Up-stand

Donkin Fans reserves the right to change product specifications without prior notice.

UV-VJ Roof Fan

**UV-VJ Vertical Jet
Mixed Flow Roof Exhaust Fan**



- Structural fibreglass base and weather skirt
- Mixed flow impeller
- Impeller supplied with hot dip galvanized finish.
- Motor mounting brackets supplied e-coated
- Static pressures 600 Pa
- Airflow rates up to 4.9m³/sec
- Motors are all supplied IP55 TE Class F
- All fasteners are electroplated

On Request

- Special voltages
- Colours to customers specifications

UV-VJ

Technical Characteristics

	Speed (r.p.m.)	kW	V / Ph / Hz	Amps	Max Flow (m ³ /s)	Max Press (Pa)	dBa @ 3m ₁	IP Rating	Max Temp. (°C)	Unit Mass (kg)
400/3/4	1430	0.55	400 / 3 / 50	1.30	1.257	500	64	IP55	50	32
400/3/6	920	0.55	400 / 3 / 50	1.57	0.861	225	53	IP55	50	36
400/1/4	1430	0.55	220 / 1 / 50	4.50	1.257	500	64	IP55	40	32
400/1/6	880	0.55	220 / 1 / 50	3.90	0.861	225	53	IP55	40	36
500/3/4	1450	1.5	400 / 3 / 50	3.30	2.14	600	70	IP55	50	38
500/3/6	920	0.55	400 / 3 / 50	1.57	1.456	305	60	IP55	50	42
500/1/6	880	0.55	220 / 1 / 50	3.90	1.456	305	60	IP55	40	42
630/3/6	945	1.5	400 / 3 / 50	3.80	3.225	514	68	IP55	50	46
630/3/8	710	0.75	400 / 3 / 50	2.23	2.525	320	58	IP55	50	49
710/3/6	950	2.2	400 / 3 / 50	5.26	4.91	600	70	IP55	50	66
710/3/8	700	1.1	400 / 3 / 50	3.33	3.679	354	62	IP55	50	67

1) Free field dBa figures tabulated on this page are given as a general guide. Sound level at 3m from the open inlet to the fans. Above figure are given at free inlet duty.



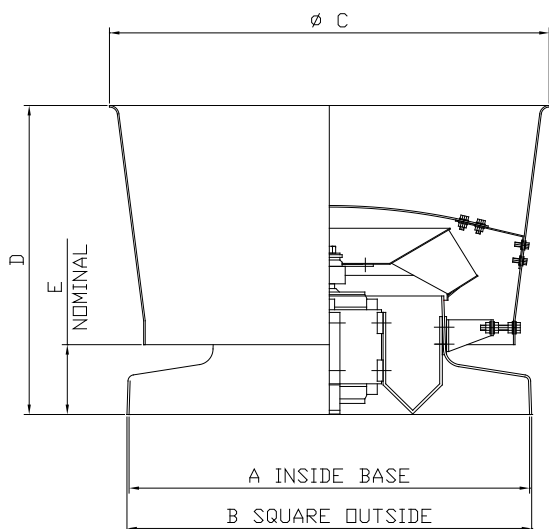
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Size	A	B	C	D	E
400	655	665	830	582	130
500	750	764	830	584	132
630	850	865	1035	685	145
710	1000	1010	1340	854	179

UV-VJ

	Sound power levels in dBW ref. 10 ⁻¹² watts							
	speed	63	125	250	500	1000	2000	4000
400	4 Pole	72	77	79	78	77	75	71
	6 Pole	64	70	70	68	66	63	59
500	4 Pole	78	84	87	85	83	80	78
	6 Pole	69	77	77	75	73	69	65
630	6 Pole	79	84	86	84	80	77	74
	8 Pole	74	76	75	73	71	67	62
710	6 Pole	84	87	89	85	83	79	75
	8 Pole	78	80	79	78	75	71	70

Electric motor noise levels not included in the above figures.

Donkin Fans reserves the right to change product specifications without prior notice.



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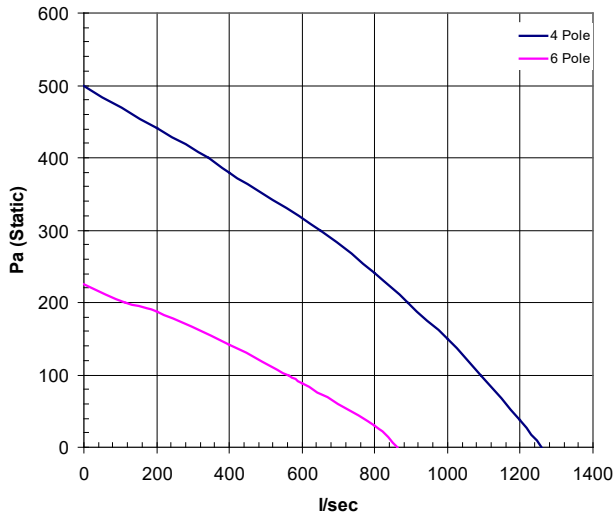


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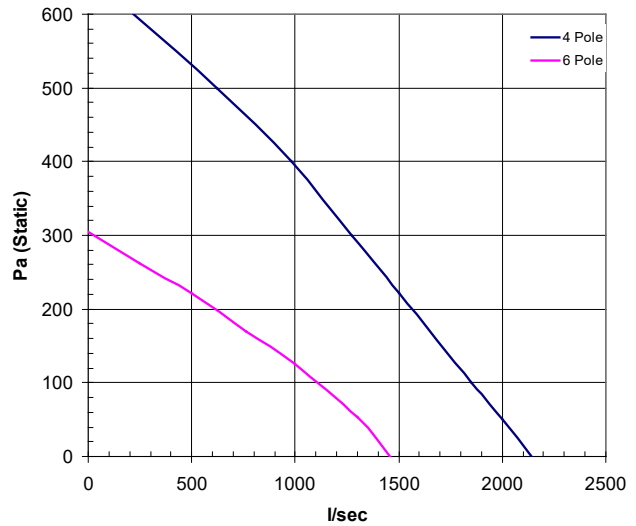


Unit 10, Prolecon Park
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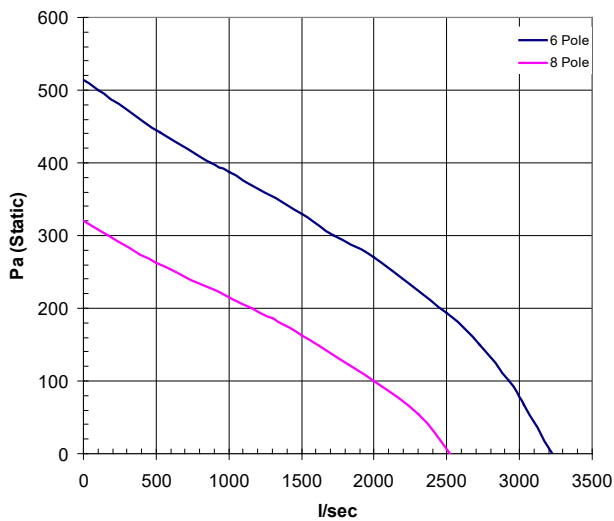
UV-VJ 400



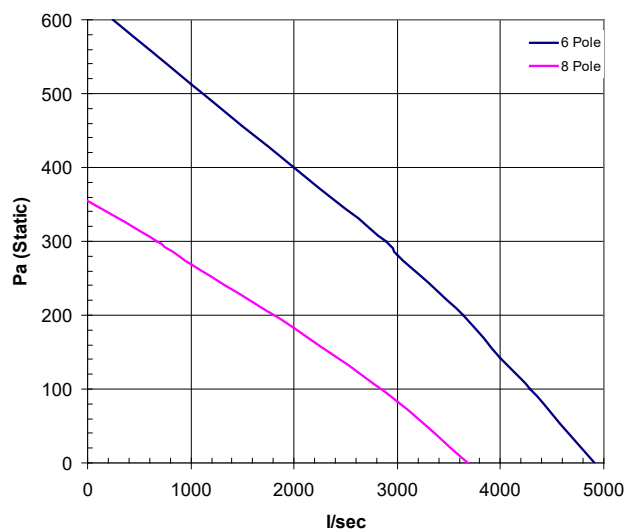
UV-VJ 500



UV-VJ 630



UV-VJ 710



Performance curves are drawn at 1.2kg/m³

Optional Accessories

- Discharge Bird Screen
- Gravity Back Draft Shutters
- Soaker Sheet to Various Roof Profiles

Donkin Fans reserves the right to change product specifications without prior notice.

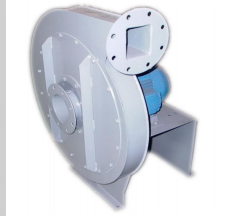
**Back to Table
of Content**

Section H - Centrifugal Fans

CMA



HPLV



CMP



CAM



CAS



CPV



CA



AT SC



RB2



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

AT-SC – DIDW Centrifugal Forward Curved



- Pre-galvanised construction
- Forward curved DIDW impeller
- Impeller supplied with galvanized finish.
- Ridged angle frame
- Low operating noise
- Airflow rates up to 6.03m³/sec
- Pressures up to 1930 Pa
- Low operating speed / Low vibration
- All fasteners are electroplated

On Request

- Special voltages
- Special motor insulations
- Inlet wire screens

Technical Characteristics

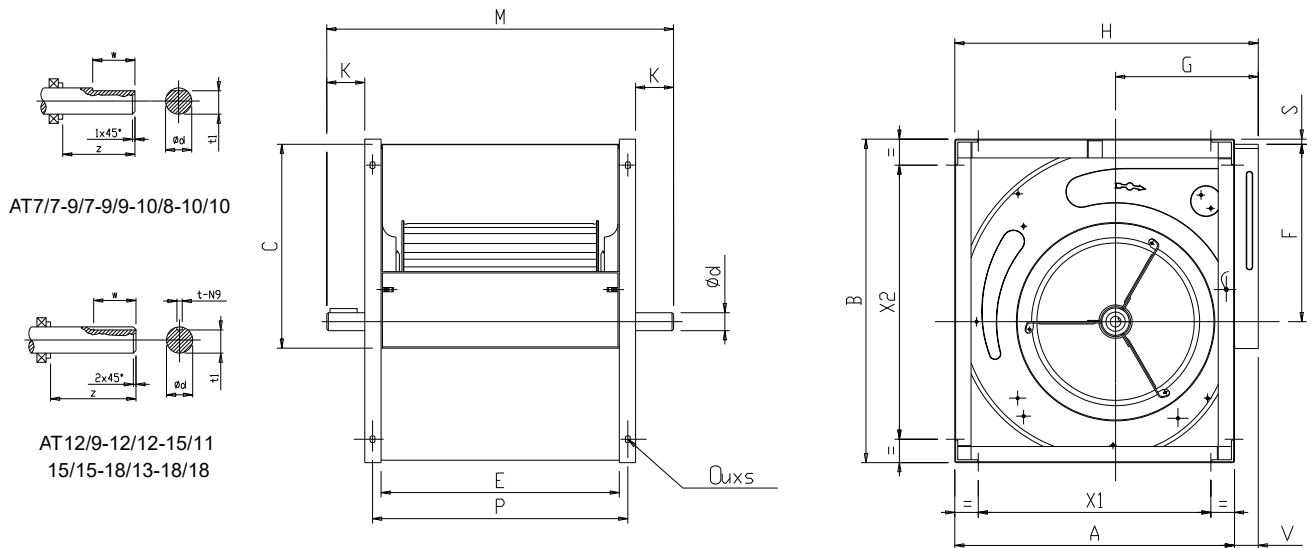
Size	Max Flow (m ³ /h)	Max Pressure (Pa)	Max Speed (r.p.m.)	Max Motor (kW)	Shaft Size (mm)	Impeller Inertia (kgm ²)	Bare Shaft mass - kg
7 / 7	2300	1070	2600	3.0	20	0.009	6.0
9 / 9	6800	1180	2100	3.0	20	0.034	9.5
9 / 7	5400	1620	2500	3.0	20	0.029	8.3
10 / 10	8500	1370	2000	4.0	20	0.055	11.0
12 / 9	10500	1760	2000	5.5	25	0.097	16.0
12 / 12	12000	1110	1500	5.5	25	0.118	18.4
15 / 11	12700	1930	2000	5.5	25	0.186	20.9
15 / 15	14900	960	1200	5.5	25	0.233	24.5
18 / 13	18200	1360	1200	7.5	25	0.463	33.0
18 / 18	21700	1110	1100	7.5	25	0.568	38.2



**FAN
MOVEMENT**

AIR AND GAS MOVEMENT SOLUTIONS

AT-SC 1 - DIDW



Size	7 / 7	9 / 7	9 / 9	10 / 10	12 / 9	12 / 12	15 / 11	15 / 15	18 / 13	18 / 18
A	285	349	349	395	461	461	539	539	654	654
B	337	399	399	455	533	533	621	621	751	751
C	208	262	262	289	341	341	404	404	478	478
E	232	232	298	331	309	395	373	471	430	557
F	186	215	215	249	294	294	342	342	415	415
G	153	185	185	203	230	230	264	264	314	314
H	321	385	385	431	497	497	575	575	690	690
M	394	394	460	490	495	585	585	685	666	790
P	254	245	320	353	339	425	403	501	470	597
S	6	6	6	6	6	6	6	6	6	6
V	36	36	36	36	36	36	36	36	36	36
K	59	59	61	59	65	67	78	79	80	78
X1	210	274	274	330	371	371	449	449	544	544
X2	262	324	324	390	443	443	531	531	641	641
T	-	-	-	-	8	8	8	8	8	8
T1	19	19	19	19	21	21	21	21	21	21
W	35	35	40	40	45	45	45	55	55	55
Z	55	55	58	57	68	70	81	82	93	92
Ød	20	20	20	20	25	25	25	25	25	25
UxS	9x12	9x12	9x12	9x12	11x16	11x16	11x16	11x16	11x16	11x16



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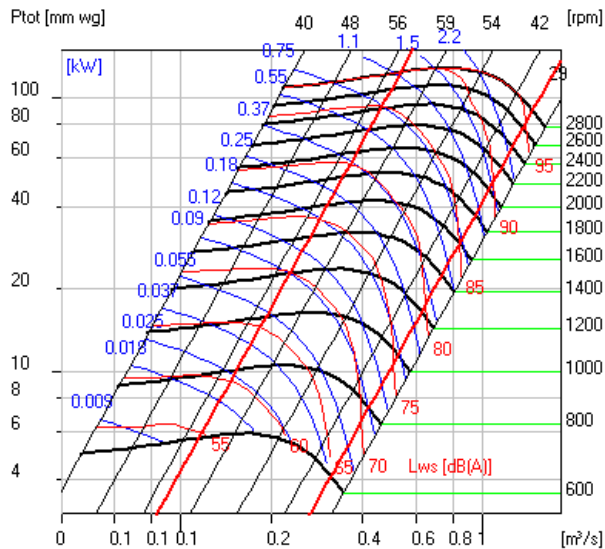


FAN MOVEMENT

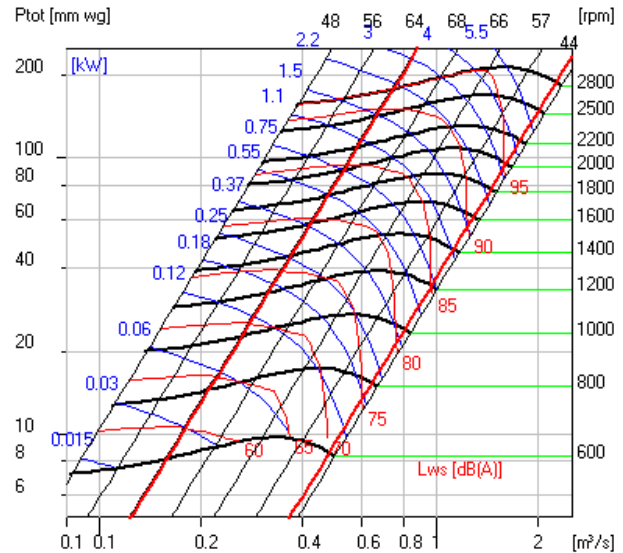
AIR AND GAS MOVEMENT SOLUTIONS

AT-SC 1 - DIDW

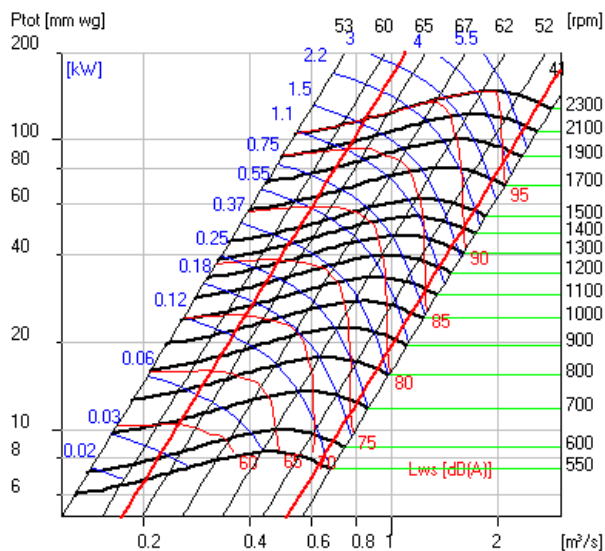
AT 7/7



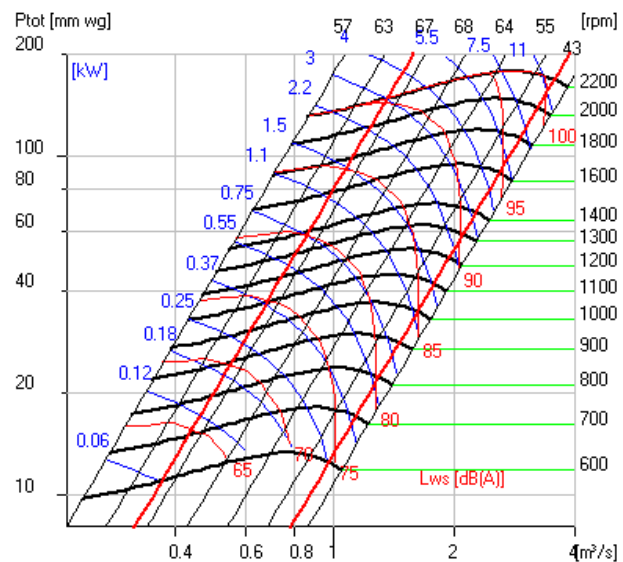
AT 9/7



AT 9/9



AT 10/10



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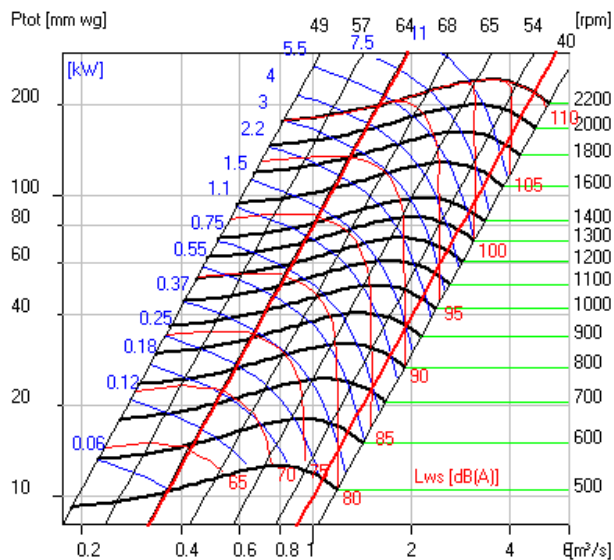
Unit 10, Prolecon Park
4 Prolecon Rd Prolecon Jhb 2001



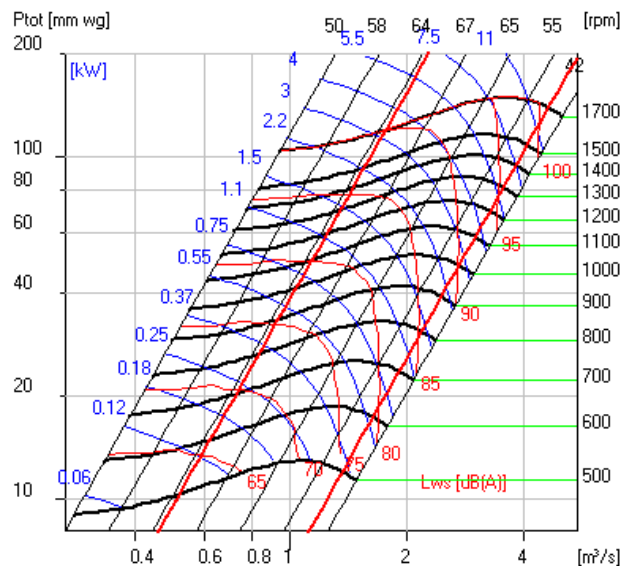
FAN MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

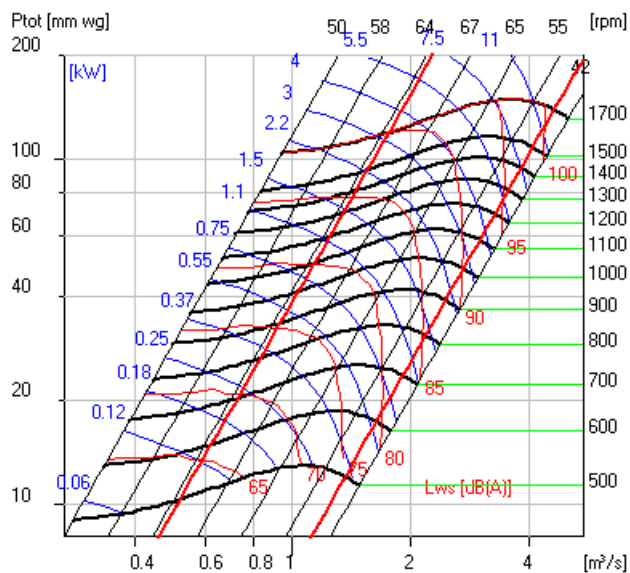
AT 12/9



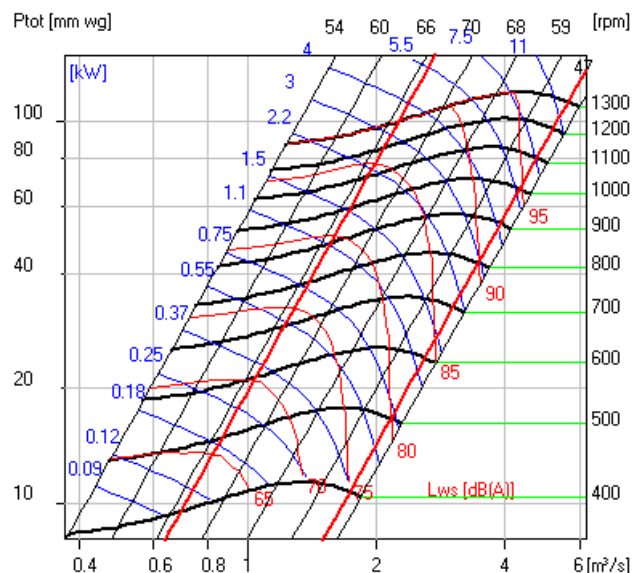
AT 12/12



AT 15/11



AT 15/15



AT-SC 1 - DIDW



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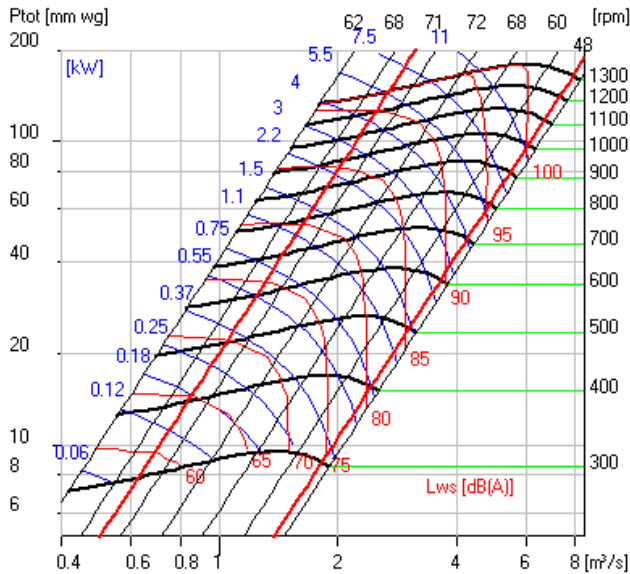


FAN MOVEMENT

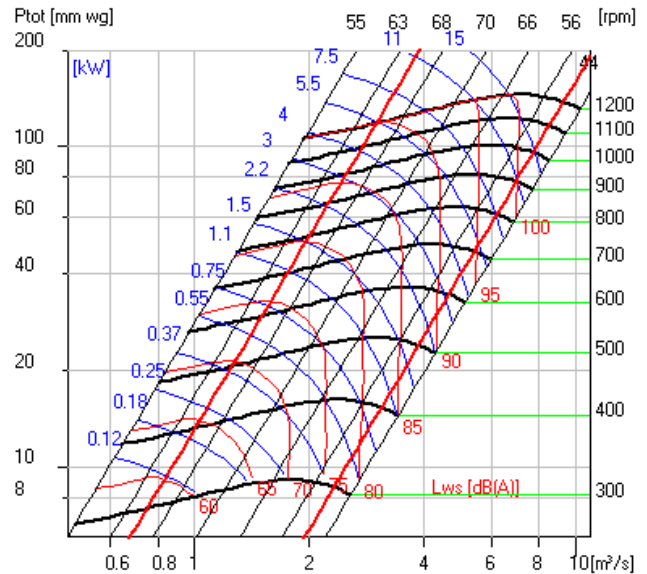
AIR AND GAS MOVEMENT SOLUTIONS

AT-SC 1 - DIDW

AT 18/13



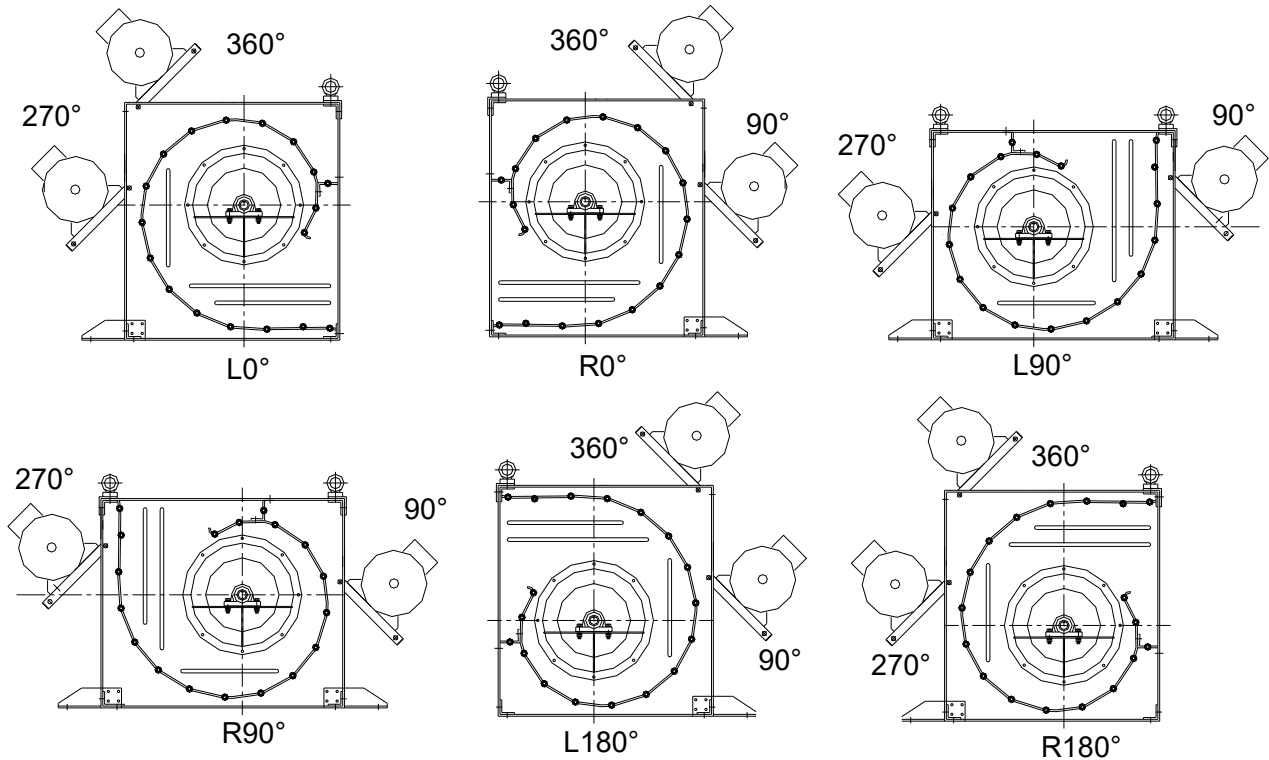
AT 18/18



Fan discharge angle and motor position to be specified upon order placement.

Images viewed from the fan / motor drive en side.

The images shown below, is to be used for rotation, handing and motor position only and does not represent an accurate view of the fans.



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High Pressure Low Volume Single Inlet Centrifugal Fan



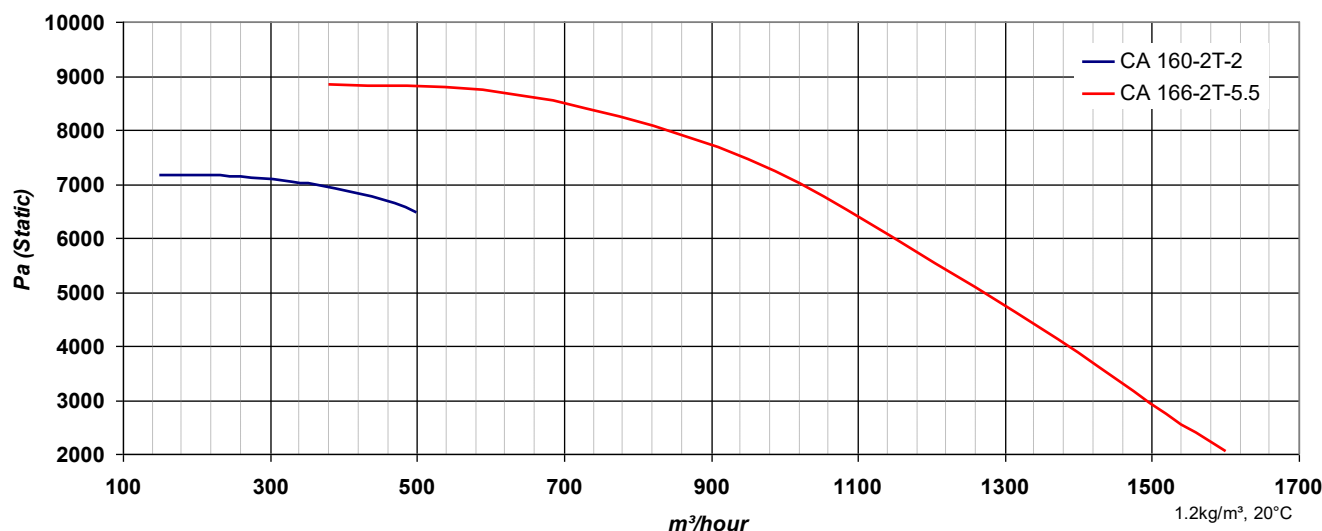
- Single inlet centrifugal fan
- Cast aluminium casing
- Cast Aluminium, backward curved Impeller
- Motors Class F, IP55 TEFC
- Motors are suitable for 230/400V 3Ph 50Hz
- Operating Temperature -20°C to +60°C
- Finish; anticorrosive finish in polyester resin, polymerized at 190°C, after alkaline degreasing treatment and phosphate-free pre-treatment
- On special request;
 - Special windings for different voltages
 - Fans designed for max operating 250°C - Stainless steel
 - ATEX certification, category 2

Technical Characteristics

Model	Speed	Full Load current (A)			Installed Power (kW)	Max Airflow m ³ /hour	Sound pressure level dB(A) ¹	Approximate Mass (Kg)
		230V	400V	690V				
CA 160 2T-2	2850	5.63	3.25	-	1.50	500	83	57
CA 166-2T-5.5*	2860	13.34	7.70	-	4.0	1600	86	76

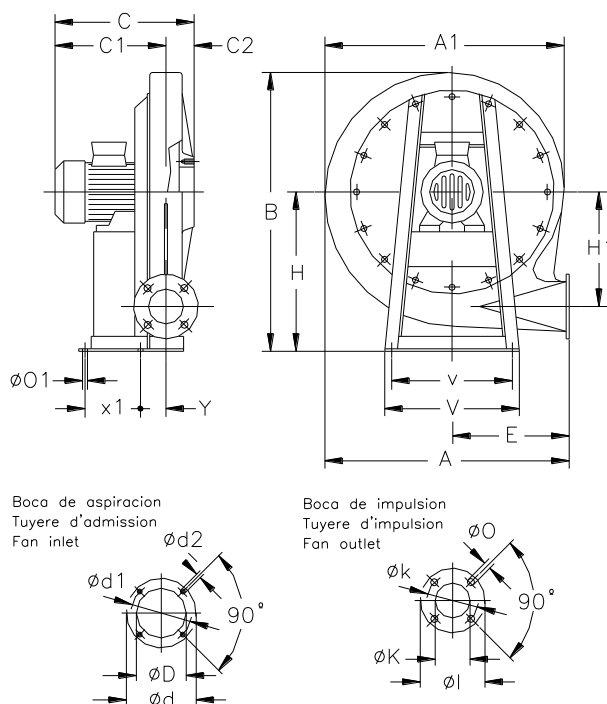
* - Fan not generally in stock, please check availability prior to placing orders. All information subject to change without prior notice.

CA High Pressure Fans



Note 1) Sound pressure levels in dB(A), assumed free field hemispherical radiation, at a distance equivalent to twice the fan span plus the impeller diameter, with a minimum of 1.5m

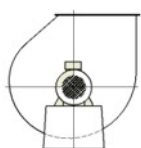
	63	125	250	500	1000	2000	4000	8000
CA 160 2T-2	54	67	81	88	96	97	88	80
CA 166-2T-5.5*	57	70	84	91	99	97	91	83



	A	A1	B	C	C1	C2	ØD	Ød	Ød1	Ød2	E	H	H1	ØI	ØK	Øk	ØO	O1	V	v	x1	Y
CA 160 2T2	708	699	785	381	291	90	130	230	192	M10	336	440	338	160	85	120	13	12	373	322	220	62
CA 166 2T5.5	759	752	866	445	365.5	79.5	140	230	200	M10	364	490	372	160	85	120	13	12	450	400	265	70

LG 270 Standard Supply – Others achieved by casing rotation on all units

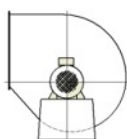
LG 0



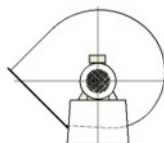
LG 45



LG 90



LG 135



LG 270



LG 315



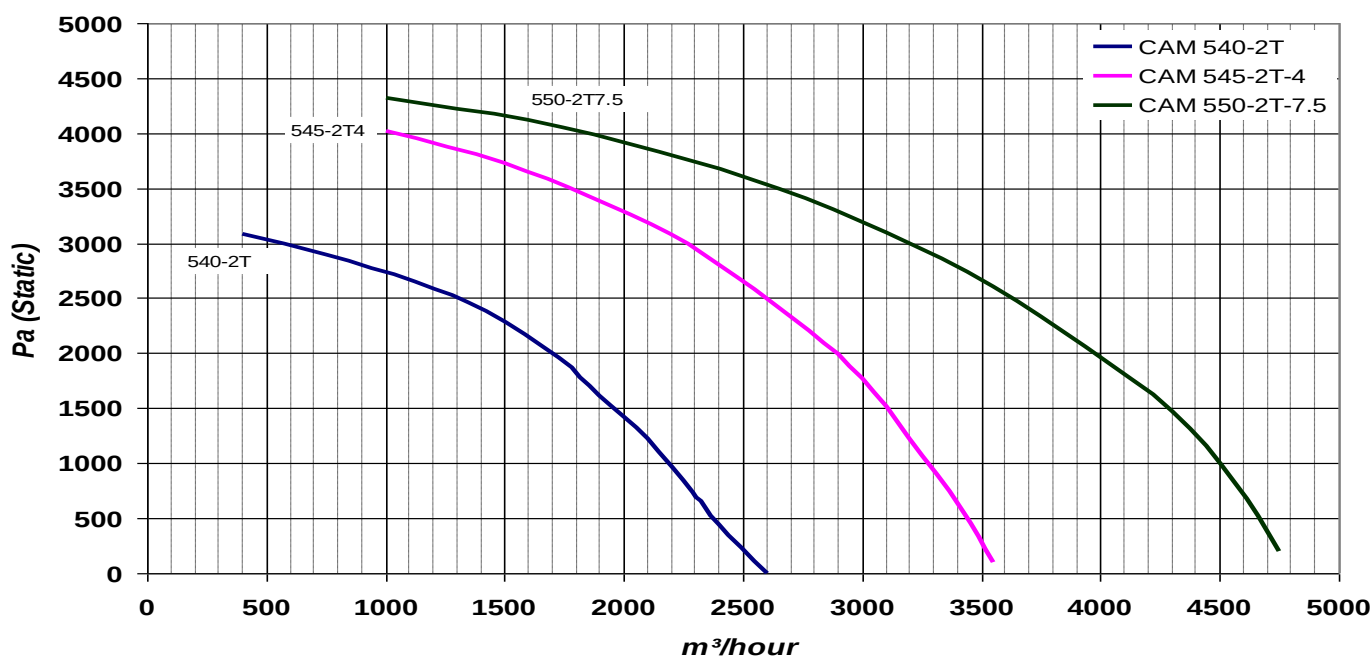
Medium Pressure Centrifugal Fan



- Single Inlet Centrifugal Fan
- Sheet metal casing and motor pedestal
- Cast aluminium, backward curved Impellers
- Motors Class F, IP55 TEFC
- Motors are suitable for 230/400V 3Ph 50Hz
- Operating Temperature -20°C to +80°C
- Finish; anticorrosive finish in polyester resin, polymerized at 190°C, after alkaline degreasing treatment and phosphate-free pre-treatment
- On special request;
 - Special windings for different voltages
 - Fans designed for max operating 250°C
 - Stainless steel
 - ATEX certification, category 2

Technical Characteristics

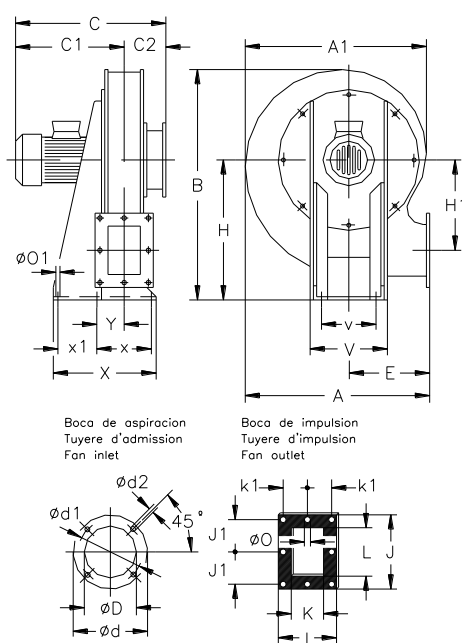
Model	Speed	Full Load current (A)			Installed Power (kW)	Max Airflow m ³ /hour	Sound pressure level dB(A) ¹	Approximate Mass (Kg)
		230V	400V	690V				
CAM 540-2T	2890	5.63	3.25	-	1.50	2600	85	38
CAM 545-2T4	2880	10.57	6.10	-	3.00	3550	88	64
CAM 550-2T7.5	2925	-	10.5	6.1	5.50	4750	91	129



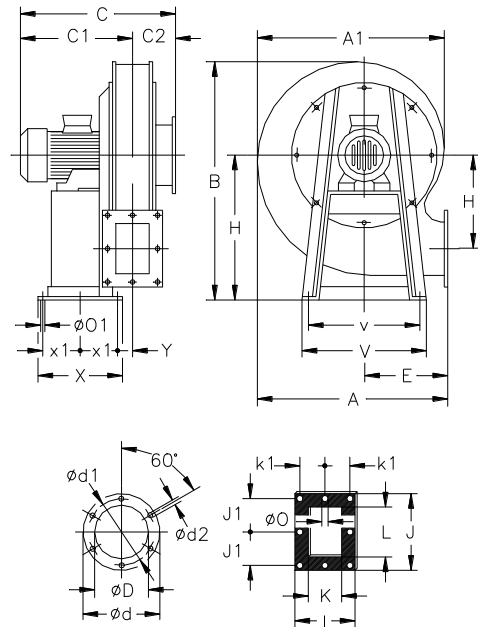
Note 1) Sound pressure levels in dB(A), assumed free field hemispherical radiation, at a distance equivalent to twice the fan span plus the impeller diameter, with a minimum of 1.5m

	63	125	250	500	1000	2000	4000	8000
CAM 540-2T	57	70	81	90	97	91	86	78
CAM 545-2T4	60	73	84	93	100	94	89	81
CAM 550-2T7.5	64	78	89	98	105	99	93	86

CAM 540 & CAM545



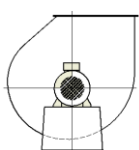
CAM 550



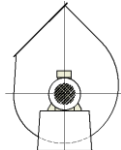
	A	A1	B	C	C1	C2	ØD	Ød	Ød1	Ød2	E	H	H1	I	J	J1	K	k1	L	ØO	ØO1	V	v	X	x	x1	Y
CAM 540-2T	565	556	678	424	318	106	170	235	205	11	252	400	270	206	224	92	120	83	140	10	12	280	218	328	186	80	94
CAM 545-2T4	650	636	768	496	380.5	115.5	165	235	205	11	290	450	310	222	255	108	135	90	170	10	12	300	238	344	202	80	102.5
CAM 550-2T7.5	719	715	868	583	447	136	210	278	258	9	311	510	350	246	296	128	150	103	200	11	13	475	435	390	-	105	115.5

LG 270 Standard Supply – Others achieved by casing rotation on all units

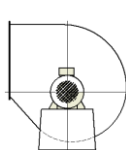
LG 0



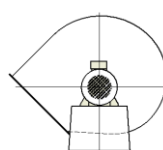
LG 45



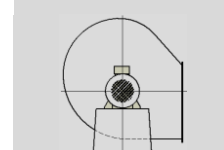
LG 90



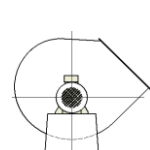
LG 135



LG 270



LG 315



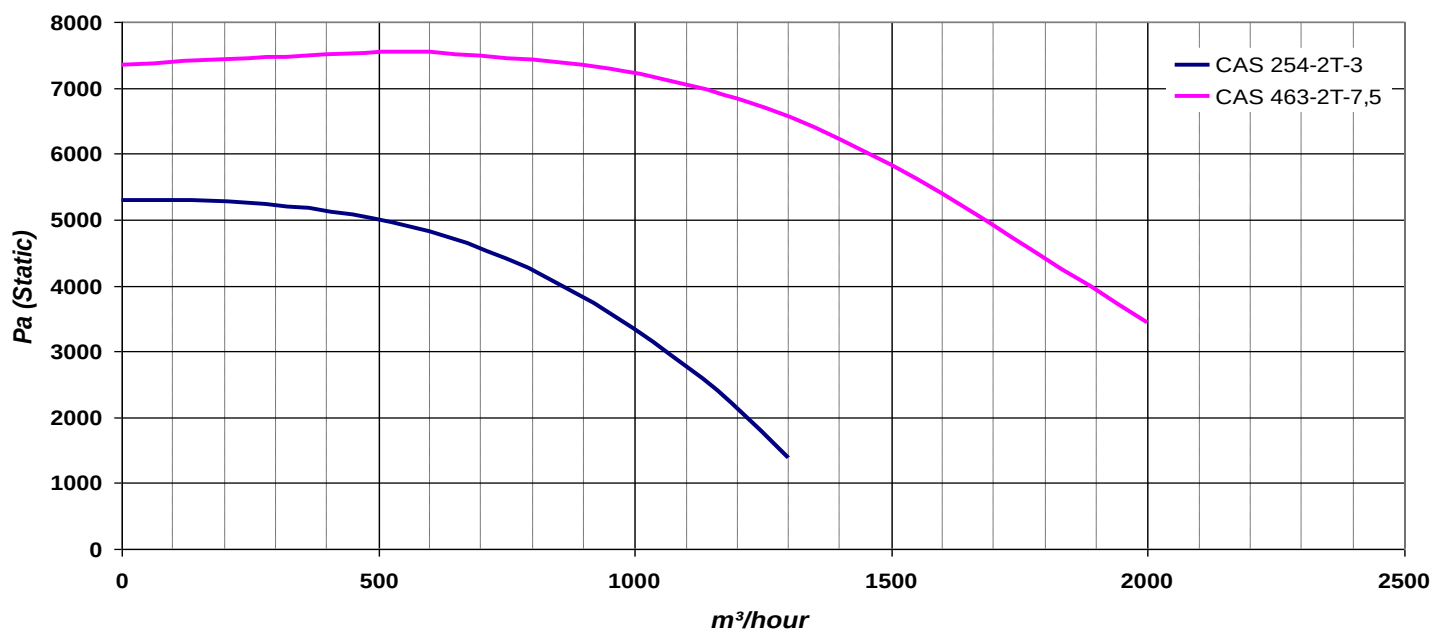
High Pressure Low Volume Single Inlet Centrifugal Fan



- Single Inlet Centrifugal Fan
- Sheet metal casing and motor pedestal
- Cast aluminium, backward curved Impellers
- Motors Class F, IP55 TEFC
- Motors are suitable for 230/400V 3Ph 50Hz
- Operating Temperature -20°C to +60°C
- Finish; anticorrosive finish in polyester resin, polymerized at 190°C, after alkaline degreasing treatment and phosphate-free pre-treatment
- On special request;
 - Special windings for different voltages
 - Fans designed for max operating 250°C
 - Stainless steel
 - ATEX certification, category 2

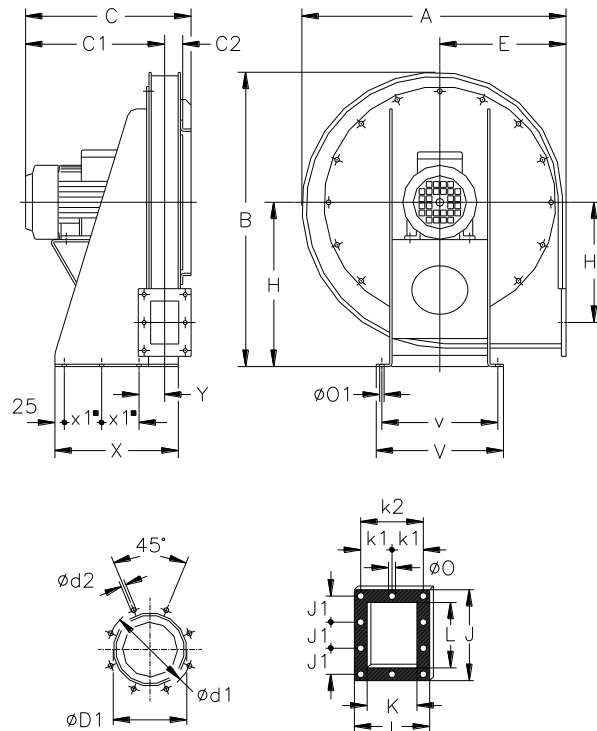
Technical Characteristics

Model	Speed	Full Load current (A)			Installed Power (kW)	Max Airflow m³/hour	Sound pressure level dB(A) ¹	Approximate Mass (Kg)
		230V	400V	690V				
CAS 254-2T-3	2880	7.97	4.60	-	2.20	1300	80	63
CAS 463-2T-7.5	2855	-	10.5	6.10	5.50	2000	83	95.5



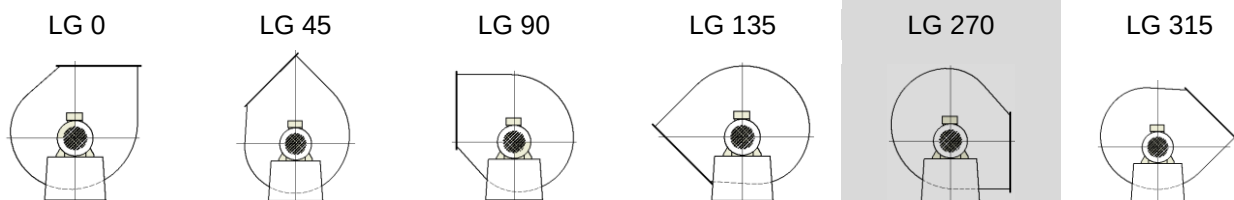
Note 1) Sound pressure levels in dB(A), assumed free field hemispherical radiation, at a distance equivalent to twice the fan span plus the impeller diameter, with a minimum of 1.5m

	63	125	250	500	1000	2000	4000	8000
CAS 254-2T-3	56	68	76	85	90	92	89	82
CAS 463-2T-7.5	58	70	83	92	94	94	90	81



	A	B	C	C1	C2	ØD1	Ød1	Ød2	E	H	H1	I	J	J1	K	k2	L	ØO	ØO1	V	v	X	x1	Y
CAS 254-2T-3	699	788	443	372.5	40.5	125	155	M8	330	440	322	135	175	75	75	110	115	11	14	340	310	330	100	68.5
CAS 463-2T7.5	782	875	517	441.5	45.5	200	240	M8	370	485	362	145	185	80	85	120	125	11	14	380	350	370	115	73.5

LG 270 Standard Supply – Others achieved by casing rotation on all units



Medium Pressure Centrifugal Fan



- Cast aluminium housing.
- Aluminium impellers (218, 527, 528 and 531), polyamide impeller (324, 325 and 426) galvanised steel impeller (531-2T-3).
Max. air flow temperature: 120° C (only 70° C in the case of polyamide impellers).
- Asynchronous motors, with squirrel-cage rotor. Standard models are supplied with three-phase 230/400 V, 50 Hz and single-phase 230 V, 50 Hz motor. Class F insulation and IP-55 protection.
- Anticorrosive finish in polyester resin, polymerised at 180°C, after degreasing, phosphating and passivation pre-treatment.
- On request: Models 324, 325 & 426 can be supplied with cast aluminium impellers.
Category 2 ATEX certification for explosive atmospheres and CE Mark Ex II 2 G/D Eex E or D.
The fan can be supplied to order with capacity to transport air up to a maximum temperature of 250° C.

Technical Characteristics

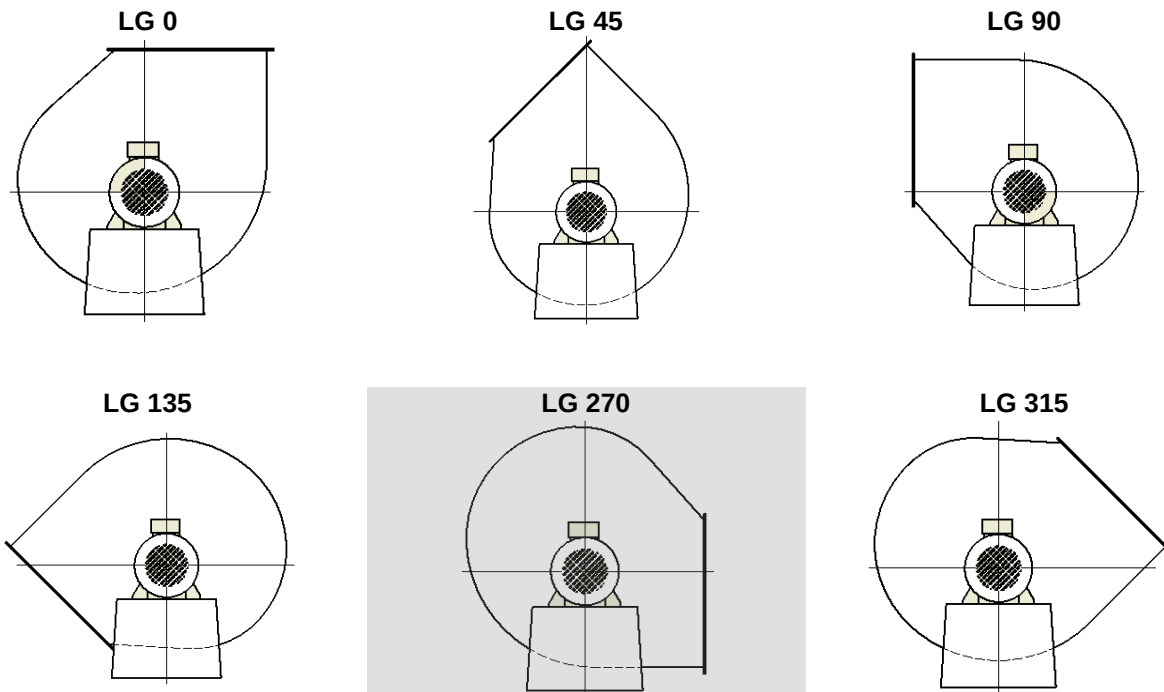
Model	Speed	Full Load current (A)			Installed Power (kW)	Max Airflow m ³ /hour	Sound pressure level dB(A) ¹	Approximate Mass (Kg)
		230V	400V	690V				
CMA-218-2M	2920	0.60	-	-	0.12	265	63	6.0
CMA-218-2T	2920	0.61	0.35	-	0.12	365	63	6.0
CMA-324-2M	2850	1.50	-	-	0.18	440	70	9.0
CMA-324-2T	2850	1.21	0.70	-	0.18	440	70	9.0
CMA-325-2M	2780	2.20	-	-	0.25	600	73	11.0
CMA-325-2T	2780	1.64	0.95	-	0.25	600	73	11.0
CMA-426-2M	2765	2.95	-	-	0.37	850	75	13.0
CMA-426-2T	2765	1.78	1.03	-	0.37	850	75	13.0
CMA-527-2T	2800	2.42	1.40	-	0.55	1000	80	14.8
CMA-528-2M-1,5	2850	7.10	-	-	1.10	1750	83	26.0
CMA-528-2T-1	2780	3.12	1.80	-	0.75	1250	82	23.5
CMA-528-2T-1,5	2850	4.42	2.55	-	1.10	1750	83	26.0
CMA-531-2M-2	2850	9.30	-	-	1.50	2000	85	31.0
CMA-531-2T-1,5	2880	4.42	2.55	-	1.10	1790	84	29.0
CMA-531-2T-2	2850	5.89	3.40	-	1.50	2000	85	31.0
CMA-531-2T-3	2800	8.23	4.75	-	2.20	2400	86	30.0

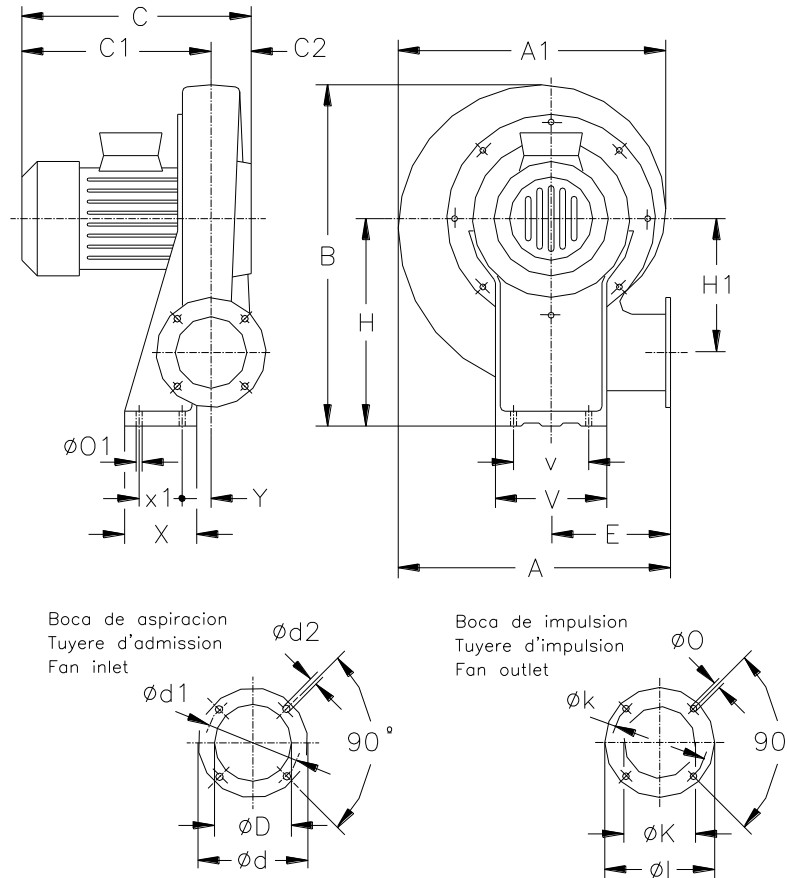
Note 1) Sound pressure levels in dB(A), assumed free field hemispherical radiation, at a distance equivalent to twice the fan span plus the impeller diameter, with a minimum of 1.5m

	63	125	250	500	1000	2000	4000	8000
CMA-218-2M	29	43	61	67	71	68	63	54
CMA-218-2T	29	43	61	67	71	68	63	54
CMA-324-2M	36	50	68	74	78	75	70	61
CMA-324-2T	36	50	68	74	78	75	70	61
CMA-325-2M	39	53	71	77	81	78	73	64
CMA-325-2T	39	53	71	77	81	78	73	64
CMA-426-2M	41	55	73	79	83	80	75	66
CMA-426-2T	41	55	73	79	83	80	75	66
CMA-527-2T	46	60	78	84	88	85	80	71
CMA-528-2M-1,5	49	63	81	87	91	88	83	74
CMA-528-2T-1	48	62	80	86	90	87	82	73
CMA-528-2T-1,5	49	63	81	87	91	88	83	74
CMA-531-2M-2	51	65	83	89	93	90	85	76
CMA-531-2T-1,5	50	64	82	88	92	89	84	75
CMA-531-2T-2	51	65	83	89	93	90	85	76
CMA-531-2T-3	52	66	84	90	94	91	86	77

Fan Discharge orientations:

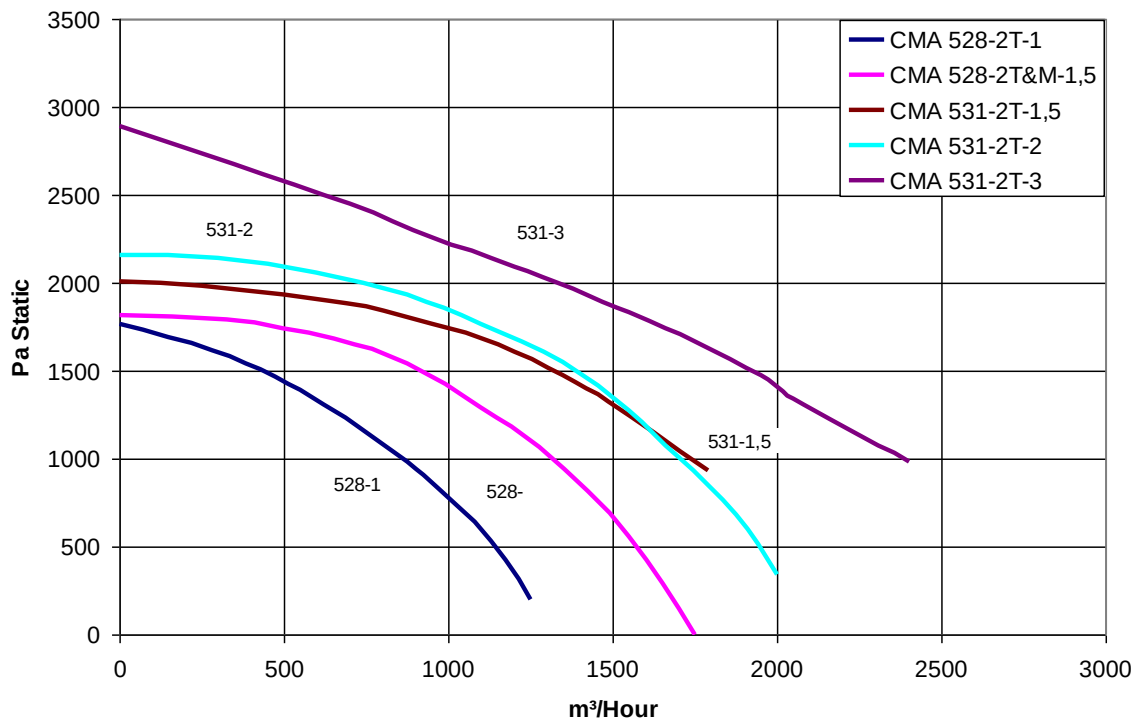
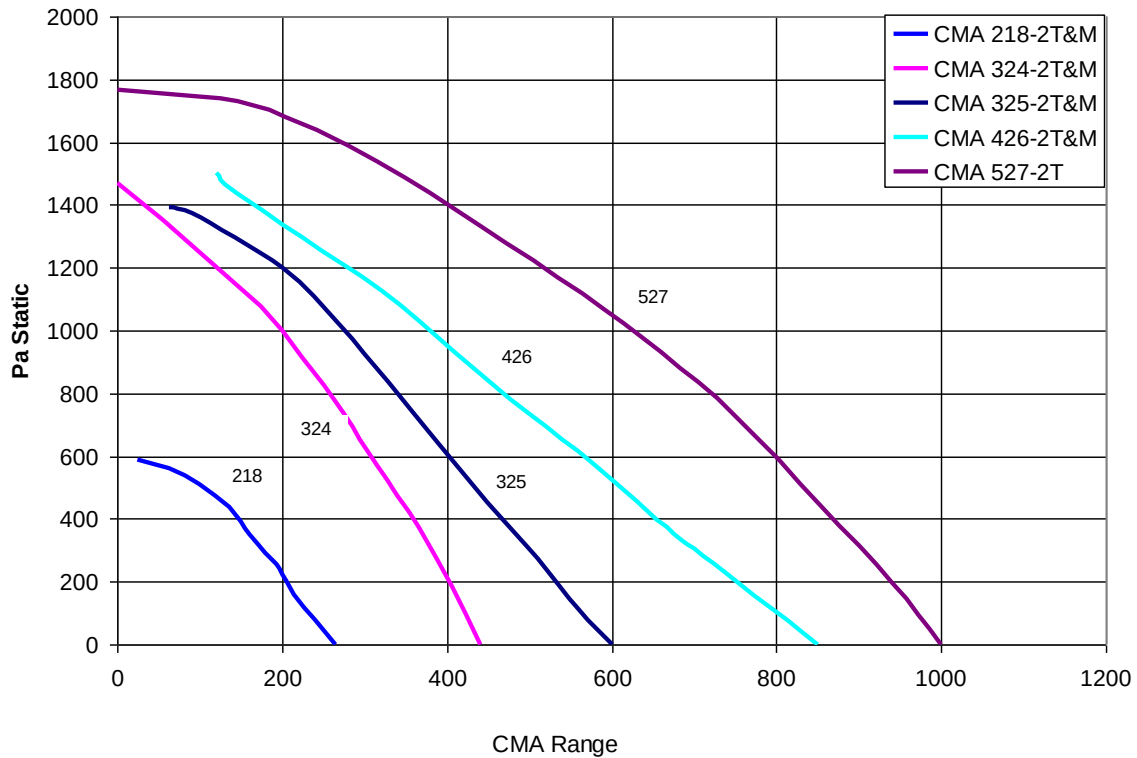
LG 270 Standard Supply – Others achieved by casing rotation on all units





	A	A1	B	C	C1	C2	ØD	Ød	Ød1	Ød2	E	H	H1	ØI	ØK	Øk	ØO	ØO1	V	v	X	X1	Y
CMA 218	241	236	288	232	200	32	80	113	95	M,5	110	170	114.5	90	54	76	5.5	7	140	100	80	50	20
CMA 324	311	302	356	264	226	38	80	130	112	M,5	145	205	145	108	62	90	7	9	173	125	90	60	20
CMA 325	335	328	399	284	244	40	94	140	122	M,6	155	235	152	120	80	102	7	9	180	145	110	80	20
CMA 426	354	344	412	295	255	40	117	155	132	M,6	162	240	163	140	90	119	7	13	210	160	105	65	26
CMA 527	371	361	440	303	261	42	125	170	147	M,6	168	260	170	155	100	129	7	13	220	170	120	80	20
CMA 528...1	401	395	488	352	304	48	116	190	162	M,6	178	290	177	190	130	160	11	13	230	180	140	100	20
CMA 528...1.5	401	395	488	352	304	48	135	190	162	M,6	178	290	177	190	130	160	11	13	230	180	140	100	20
CMA 531...1.5	440	434	537	364	314	50	160	215	180	M,6	193	320	200	200	140	175	11	13	240	190	160	120	21
CMA 531...2	440	434	537	378	328	50	160	215	180	M,6	193	320	200	200	140	175	11	13	240	190	160	120	21
CMA 531...3	440	434	537	398	348	50	160	215	180	M,6	193	320	200	200	140	175	11	13	240	190	160	120	21

CMA Range



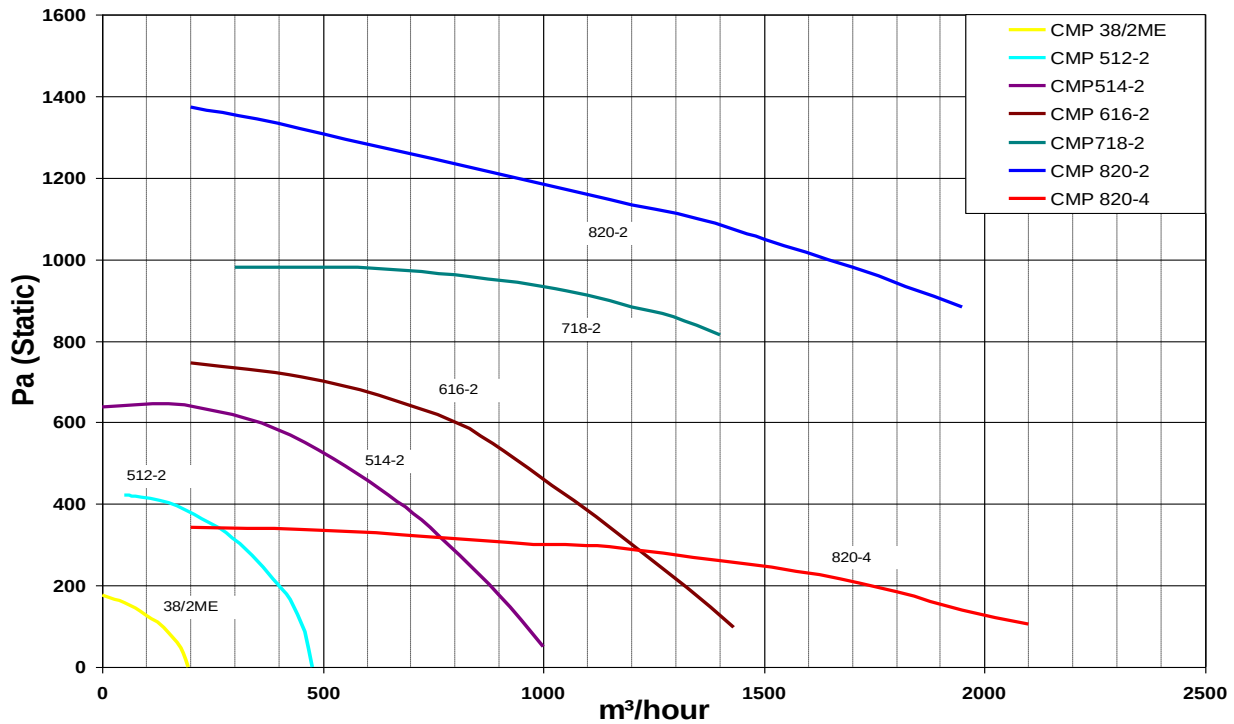


Medium Pressure Centrifugal Fan Forward Curved Impellers

- Sheet steel housing on all models (CMP-38-2M with cast aluminium housing).
- Galvanised sheet steel Impeller.
- Asynchronous motors, with squirrel-cage rotor. Models supplied with three-phase 230/400V, 50 Hz. Single-phase 230V, 50 Hz motors. Class F insulation and IP-55 protection, (IP-21 models CMP-38)
- Anticorrosive finish in polyester resin, polymerised at 180°C, after degreasing, phosphating and passivation pre-treatment.
- Maximum air flow temperature:
Models: CMP-38: 100° C.
Rest of range: 120° C.
- On request:
Fans with capacity to transport air up to a maximum temperature of 250° C.
Category 2 ATEX certification for explosive atmospheres and CE Mark Ex II 2 G/D Eex E or D

Technical Characteristics

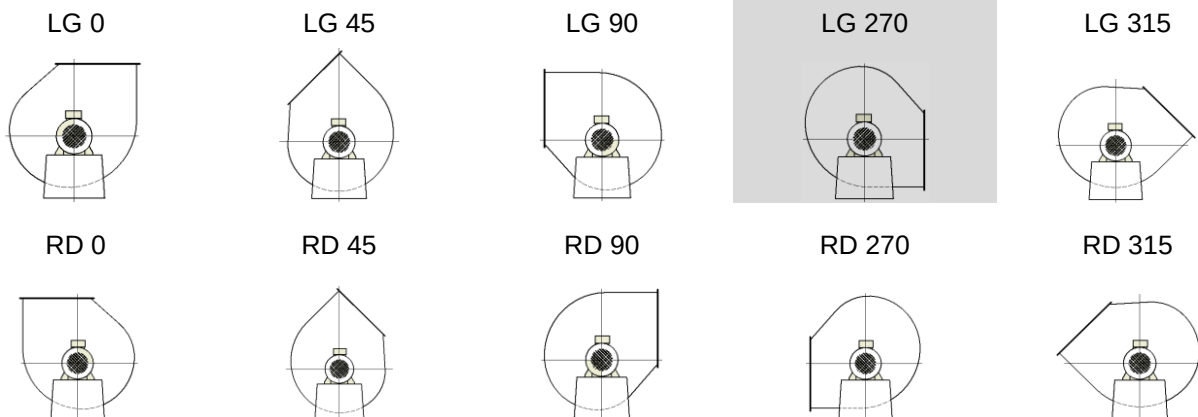
Model	Speed	Full Load current (A)			Installed Power (kW)	Max Airflow m ³ /hour	Sound pressure level dB(A) ¹	Approximate Mass (Kg)
		230V	400V	690V				
CMP 38 2M/E	2650	0.54	-	-	0.01	195	50	2.0
CMP 512-2M	2900	0.60	-	-	0.08	475	62	4.0
CMP 512-2T	2850	0.55	0.32	-	0.08	475	62	4.0
CMP 514-2M	2700	1.80	-	-	0.18	1 000	65	5.0
CMP 514-2T	2850	1.21	0.70	-	0.18	1 000	65	5.0
CMP 616-2M	2760	2.95	-	-	0.37	1 430	69	9.5
CMP 616-2T	2740	1.73	1.00	-	0.37	1 430	69	8.0
CMP 718-2M	2750	5.20	-	-	0.75	1 400	70	12.8
CMP 718-2T	2855	3.00	1.73	-	0.75	1 400	70	12.5
CMP 820-2T	2845	4.16	2.40	-	1.10	1 950	73	15.0
CMP 820-4T	1350	1.32	0.76	-	0.25	2 100	66	10.0

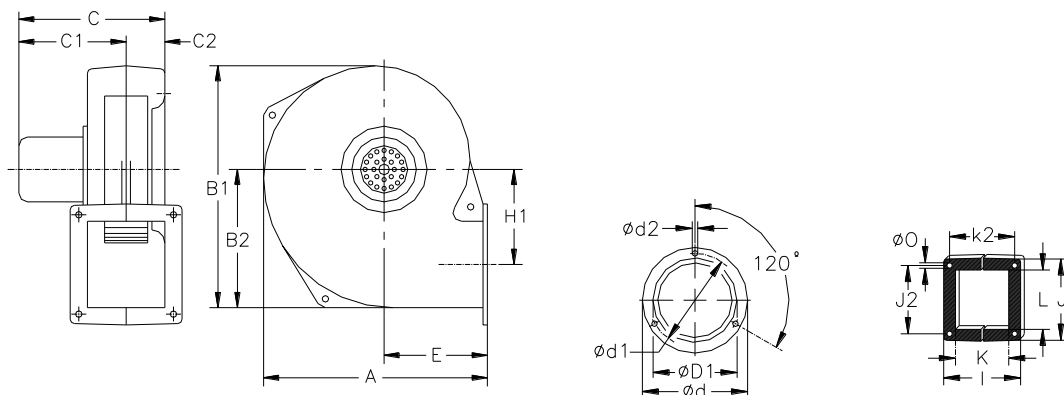


Note 1) Sound pressure levels in dB(A), assumed free field hemispherical radiation, at a distance equivalent to twice the fan span plus the impeller diameter, with a minimum of 1.5m

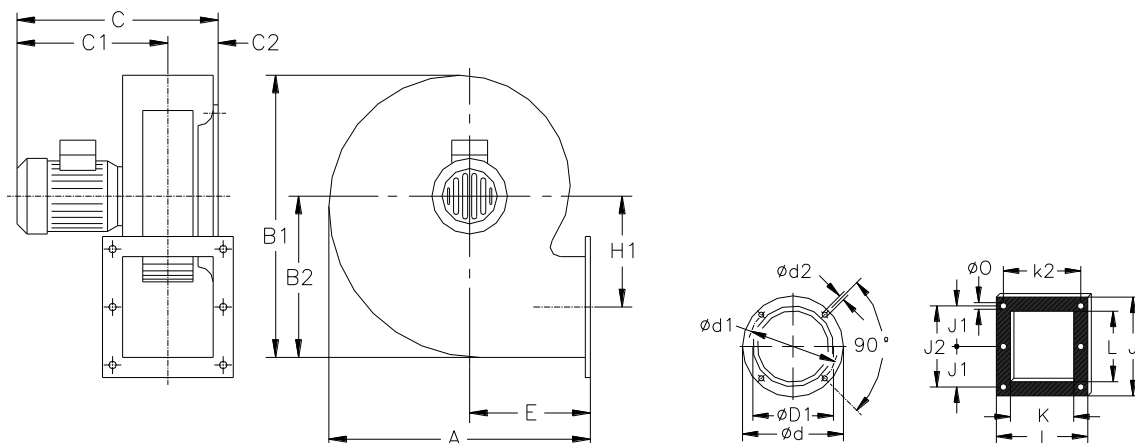
	63	125	250	500	1000	2000	4000	8000
CMP 38 2M/E	25	35	46	53	57	54	52	45
CMP 512-2M & T	37	47	58	65	69	66	64	57
CMP 514-2M & T	40	50	61	68	72	69	67	60
CMP 616-2M & T	44	54	65	72	76	73	71	64
CMP 718-2M & T	45	55	66	73	77	74	72	65
CMP 820-2T	48	58	69	76	80	77	75	68
CMP 820-4T	41	51	62	69	73	70	68	61

LG 270 Standard Supply – Others achieved by casing rotation on all units





	A	B1	B2	C	C1	C2	ØD1*	Ød	Ød1	Ød2	E	H1	I	J	J2	K	k2	L	ØO
CMP 38-2M/E	141	165	97	122	96	26	80	-	85	2.4	60	60.5	100	80	46	50	77	52	8



	A	B1	B2	C	C1	C2	ØD1*	Ød	Ød1	Ød2	E	H1	I	J	J1	J2	K	k2	L	ØO
CMP 512-2M & T	182	207	118	197.5	159	38.5	112	140	132	M,4	81	69	106	118	-	105	72	93	86	5.5
CMP 514-2M & T	225	254	150	252	207	45	140	169	151.5	M,4	100	91	122	147	64	128	83	105	107	6.5
CMP 616-2M & T	258	297	173.5	295	239	56	160	204	180	M,6	110	105.5	153	172	-	147	103	128	125	7
CMP 718-2M	303.5	348	201	309	245	64	180	238	210	M,6	129.5	122	169	192	85	170	115	145	146	9
CMP 718-2T	303.5	348	201	358	294	64	180	238	210	M,6	129.5	122	169	192	85	170	115	145	146	9
CMP 820-2T	322	377	223	335.5	267	68.5	200	247	230	M,6	137.5	137	184	213	94.5	189	130	160	156	9
CMP 820-4T	322	377	223	320.5	252	68.5	200	247	230	M,6	137.5	137	184	213	94.5	189	130	160	156	9

Plastic Anticorrosive Single Inlet Centrifugal Fans

CPV FANS

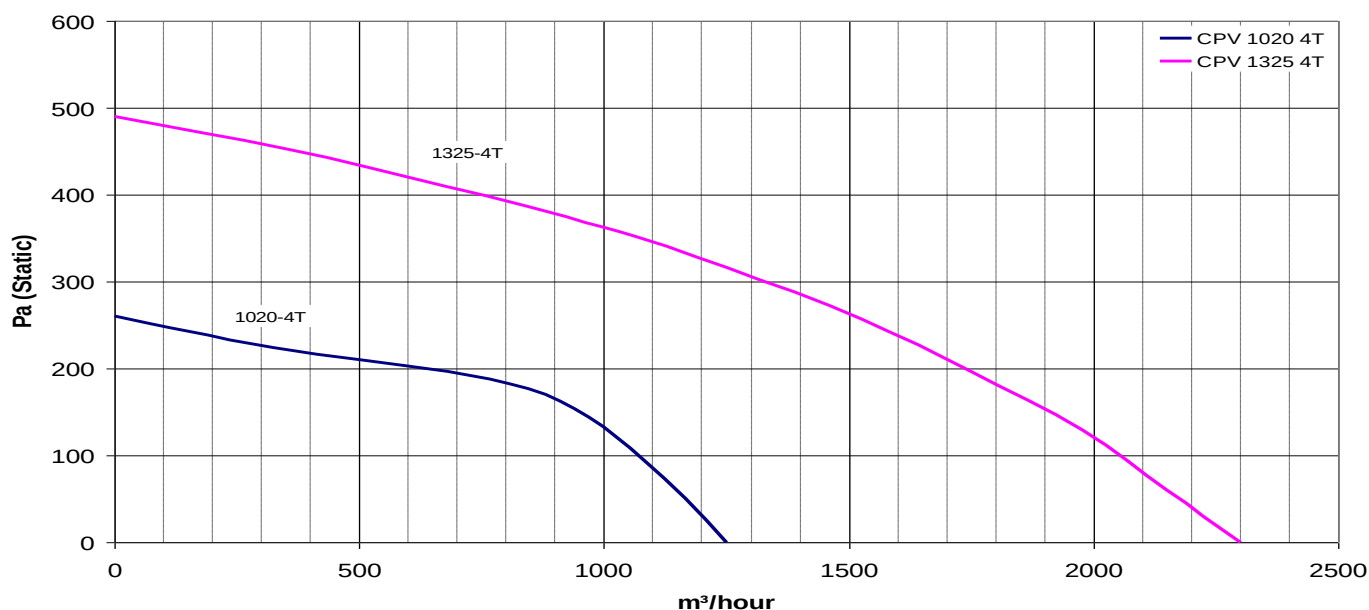


- Single Inlet Centrifugal Fan
- Polypropylene Fan Casing
- Polypropylene, Forward Curved Impellers
- Motors Class F, IP55 TEFC
- Motors are suitable for 230/400V 3Ph 50Hz
- Operating Temperature -20°C to +50°C
- Motor mounting plate finish; anticorrosive finish in polyester resin, polymerized at 190°C, after alkaline degreasing treatment and phosphate-free pre-treatment
- On special request;
 - Special windings for different voltages
 - ATEX certification, category 2

CPV Centrifugal Fans

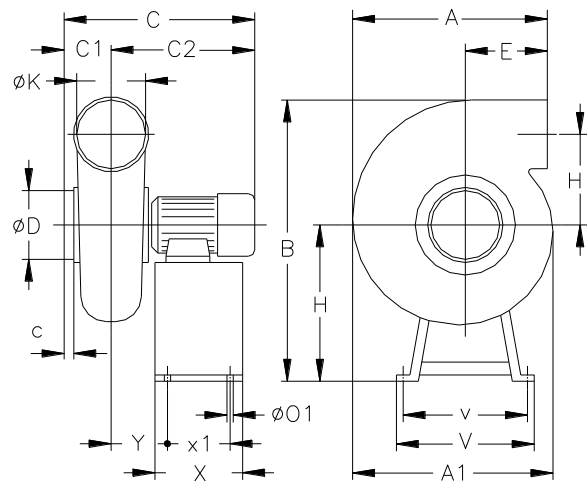
Technical Characteristics

Model	Speed	Full Load current (A)			Installed Power (kW)	Max Airflow m ³ /hour	Sound pressure level dB(A) ¹	Approximate Mass (Kg)
		230V	400V	690V				
CPV 1020 4T	1360	1.32	0.76	-	0.25	1250	65	19.5
CPV 1325 4T	1360	1.78	1.03	-	0.37	2300	69	27.0



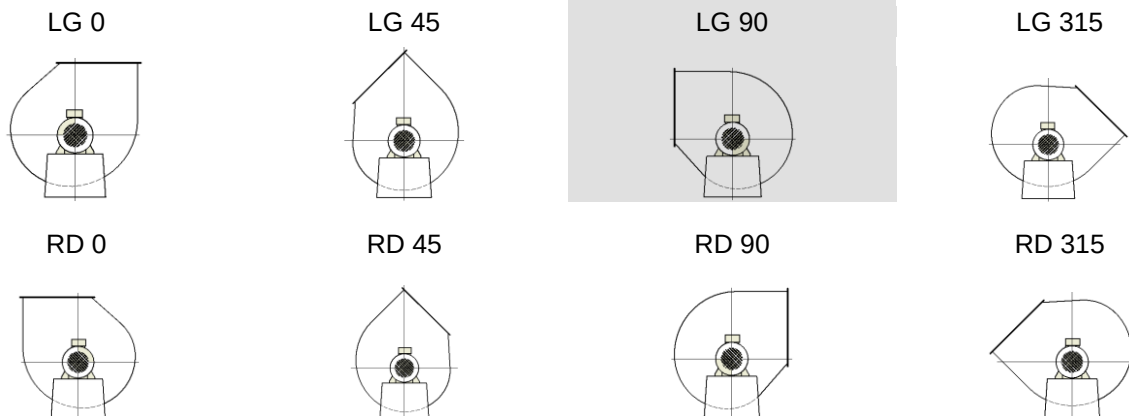
Note 1) Sound pressure levels in dB(A), assumed free field hemispherical radiation, at a distance equivalent to twice the fan span plus the impeller diameter, with a minimum of 1.5m

	63	125	250	500	1000	2000	4000	8000
CPV 1020 4T	46	59	67	71	71	67	63	55
CPV 1325 4T	52	65	73	77	78	74	70	61

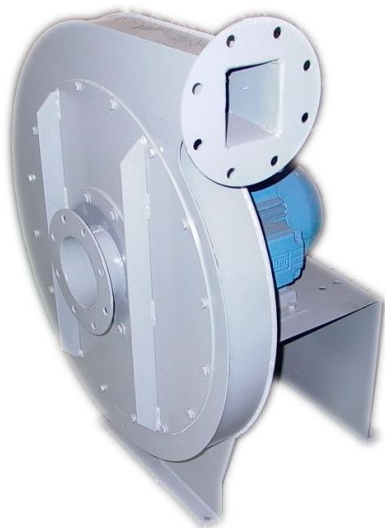


	A	A1	B	C	C1	C2	c	ØD	E	H	H1	K	ØO1	V	v	X	x1	Y
CPV 1020 4T	340	397	584	413	116	297	32	160	100	281	223	160	8	355	335	180	160	116
CPV 1325 4T	413	505	716	438	130	308	35	200	103	351	265	200	8	400	380	180	160	127

LG 90 Standard Supply – Others achieved by casing rotation on all units



HPLV BLOWER



HPLV Centrifugal High Pressure Low Volume Blower

- Single Inlet Centrifugal Blower / Exhauster
- Carbon Steel casing and motor pedestal
- Carbon Steel, radial tipped Impellers
- Motors Class F, IP55 TEFC
- Motors are suitable for 230/400V - 400/690V 3Ph 50Hz
- Operating Temperature 0°C to 50°C
- Finish; 2 coat paint system, oxide zinc chromate primer, coated with alkyd enamel top coat.
- *On special request;*
 - Special windings for different voltages
 - Premium Efficiency Plus motors
 - Special Motor Classifications
 - Stainless steel
 - Special Coatings

HPLV Centrifugal Blower

Technical Characteristics

Model	Speed	Full Load current (A)*		Installed Power (kW)	Max Airflow (m³/hour)	Max Pressure (kPa)	Sound pressure level dB(A)**	Mass (Kg)
		400V	690V					
500 – 1.0 – 5.5	2910	11.0	6.38	5.5	1980	5.70	93	157
500 – 1.0 – 7.5	2900	14.8	8.58	7.5	2970	5.70	95	162
500 – 0.85 – 4.0	2875	8.18	4.74	4.0	1350	5.70	92	139
500 – 0.85 – 5.5	2910	11.0	6.38	5.5	2070	5.70	93	157
500 – 0.71 – 4.0	2875	8.18	4.74	4.0	1440	5.70	92	139
560 – 1.0 – 7.5	2900	14.8	8.58	7.5	2340	6.90	96	162
560 – 1.0 – 11.0	2930	22.1	12.8	11.0	3780	6.90	97	211
560 – 0.85 – 5.5	2910	11.0	6.38	5.5	1620	6.85	94	157
560 – 0.85 – 7.5	2900	14.8	8.58	7.5	2430	6.85	96	162
560 – 0.71 – 5.5	2910	11.0	6.38	5.5	1764	6.80	94	157
630 – 1.0 – 7.5	2900	14.8	8.58	7.5	1890	8.30	96	181
630 – 1.0 – 11.0	2930	22.1	12.8	11.0	3060	8.30	98	230
630 – 0.85 – 7.5	2900	14.8	8.58	7.5	1944	8.20	96	181
630 – 0.85 – 11.0	2930	22.1	12.8	11.0	3150	8.20	98	230
630 – 0.71 – 5.5	2910	11.0	6.38	5.5	1170	8.08	95	176
630 – 0.71 – 7.5	2900	14.8	8.58	7.5	2052	8.08	96	181
710 – 1.0 – 11.0	2930	22.1	12.8	11.0	2520	9.75	99	230
710 – 1.0 – 15.0	2935	29.1	16.9	15.0	3690	9.75	100	238
710 – 1.0 – 18.5	2935	35.1	20.3	18.5	5400	9.75	101	249
710 – 0.85 – 11.0	2930	22.1	12.8	11.0	2610	9.40	99	230
710 – 0.85 – 15.0	2935	29.1	16.9	15.0	3780	9.40	100	238
710 – 0.71 – 7.5	2900	14.8	8.58	7.5	1710	9.35	97	181
710 – 0.71 – 11.0	2930	22.1	12.8	11.0	1944	9.35	99	230

*Motor Data specified above relates to WEG EFF2 motors. Information subject to change without prior notice.

** dBA value quoted assuming hemispherical free field conditions at 3m from the fan, open inlet. We recommend that all electric motors are fitted with SABS approved overload protection.



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Unit 10, Prolecon Park
4 Prolecon Rd Prolecon Jhb 2001

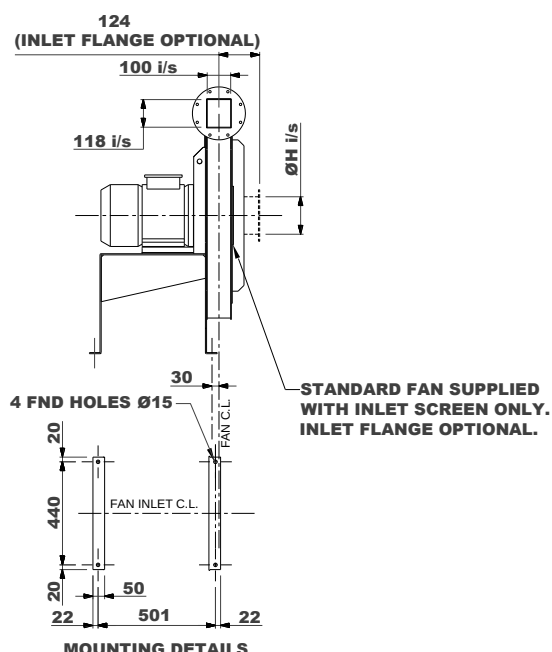
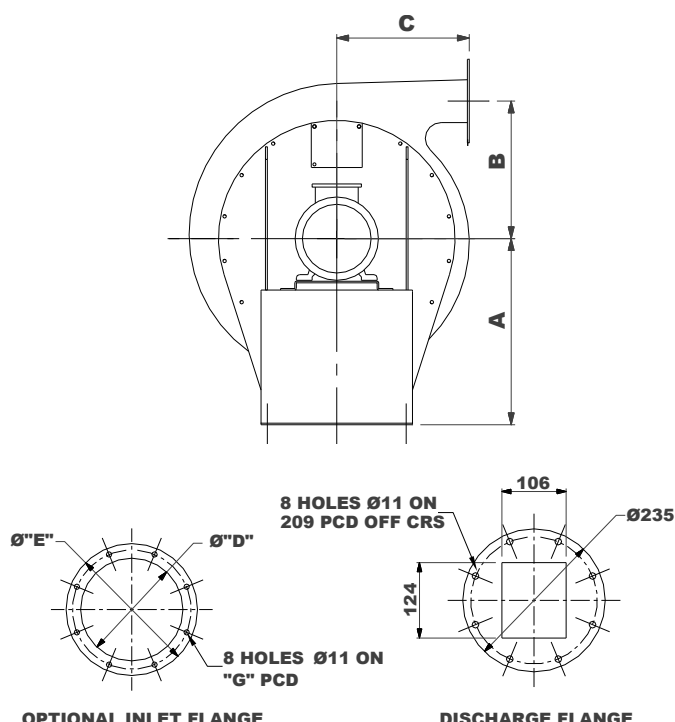


FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

HPLV Centrifugal Blower

Sound power levels in dB(A)	63	125	250	500	1000	2000	4000	8000
500 – 1.0 – 5.5	99.0	113.0	106.0	105.0	104.0	96.0	93.0	91.0
500 – 1.0 – 7.5	100.3	114.3	107.3	106.3	105.3	97.3	94.3	92.3
500 – 0.85 – 4.0	97.6	111.6	104.6	103.6	102.6	94.6	91.6	89.6
500 – 0.85 – 5.5	99.0	113.0	106.0	105.0	104.0	96.0	93.0	91.0
500 – 0.71 – 4.0	97.6	111.6	104.6	103.6	102.6	94.6	91.6	89.6
560 – 1.0 – 7.5	101.1	115.1	108.1	107.1	106.1	98.1	95.1	93.1
560 – 1.0 – 11.0	102.8	116.8	109.8	108.8	107.8	99.8	96.8	94.8
560 – 0.85 – 5.5	99.8	113.8	106.8	105.8	104.8	96.8	93.8	91.8
560 – 0.85 – 7.5	101.1	115.1	108.1	107.1	106.1	98.1	95.1	93.1
560 – 0.71 – 5.5	99.7	113.7	106.7	105.7	104.7	96.7	93.7	91.7
630 – 1.0 – 7.5	101.9	115.9	108.9	107.9	106.9	98.9	95.9	93.9
630 – 1.0 – 11.0	103.6	117.6	110.6	109.6	108.6	100.6	97.6	95.6
630 – 0.85 – 7.5	101.9	115.9	108.9	107.9	106.9	98.9	95.9	93.9
630 – 0.85 – 11.0	103.6	117.6	110.6	109.6	108.6	100.6	97.6	95.6
630 – 0.71 – 5.5	100.5	114.5	107.5	106.5	105.5	97.5	94.5	92.5
630 – 0.71 – 7.5	101.8	115.8	108.8	107.8	106.8	98.8	95.8	93.8
710 – 1.0 – 11.0	104.3	118.3	111.3	110.3	109.3	101.3	98.3	96.3
710 – 1.0 – 15.0	105.7	119.7	112.7	111.7	110.7	102.7	99.7	97.7
710 – 1.0 – 18.5	106.6	120.6	113.6	112.6	111.6	103.6	100.6	98.6
710 – 0.85 – 11.0	104.1	118.1	111.1	110.1	109.1	101.1	98.1	96.1
710 – 0.85 – 15.0	105.5	119.5	112.5	111.5	110.5	102.5	99.5	97.5
710 – 0.71 – 7.5	102.5	116.5	109.5	108.5	107.5	99.5	96.5	94.5
710 – 0.71 – 11.0	104.1	118.1	111.1	110.1	109.1	101.1	98.1	96.1



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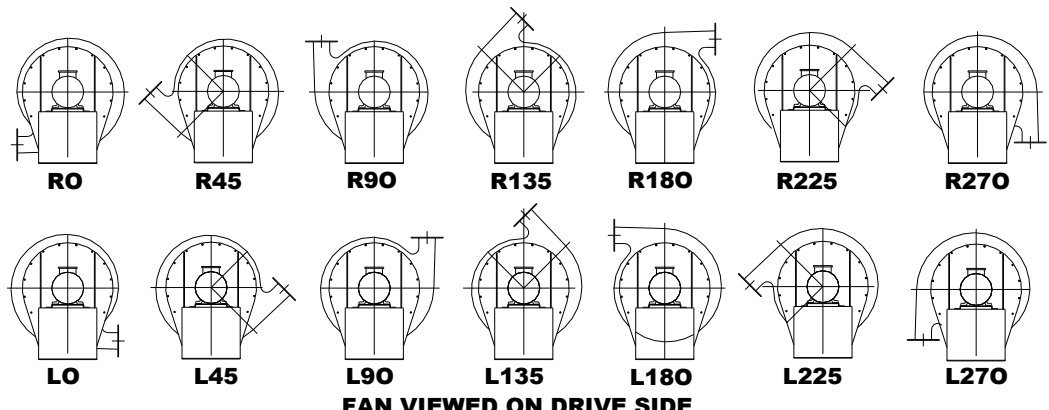
AIR AND GAS MOVEMENT SOLUTIONS

HPLV Centrifugal Blower

	A	B	C	D	E	G	H
500 – 1.0 – 5.5	520	379	360	211	271	245	205
500 – 1.0 – 7.5							
500 – 0.85 – 4.0							
500 – 0.85 – 5.5							
500 – 0.71 – 4.0	520	379	360	160	220	194	154
560 – 1.0 – 7.5	520	379	360	211	271	245	205
560 – 1.0 – 11.0							
560 – 0.85 – 5.5							
560 – 0.85 – 7.5							
560 – 0.71 – 5.5	520	379	360	160	220	194	154
630 – 1.0 – 7.5	590	436	420	211	271	245	205
630 – 1.0 – 11.0							
630 – 0.85 – 7.5							
630 – 0.85 – 11.0							
630 – 0.71 – 5.5	590	436	420	160	220	194	154
630 – 0.71 – 7.5							
710 – 1.0 – 11.0	590	436	420	211	271	245	205
710 – 1.0 – 15.0							
710 – 1.0 – 18.5							
710 – 0.85 – 11.0							
710 – 0.85 – 15.0							
710 – 0.71 – 7.5							
710 – 0.71 – 11.0	590	436	420	160	220	194	154

FAN HANDING & DISCHARGE POSITION

DIRECTION OF ROTATION IS INDICATED BY THE LETTER "R" BEING CLOCKWISE OR "L" BEING ANTI-CLOCKWISE, WHEN VIEWED FROM THE DRIVE SIDE. CASING CAN BE ROTATED TO REQUIRED DISCHARGE POSITION.



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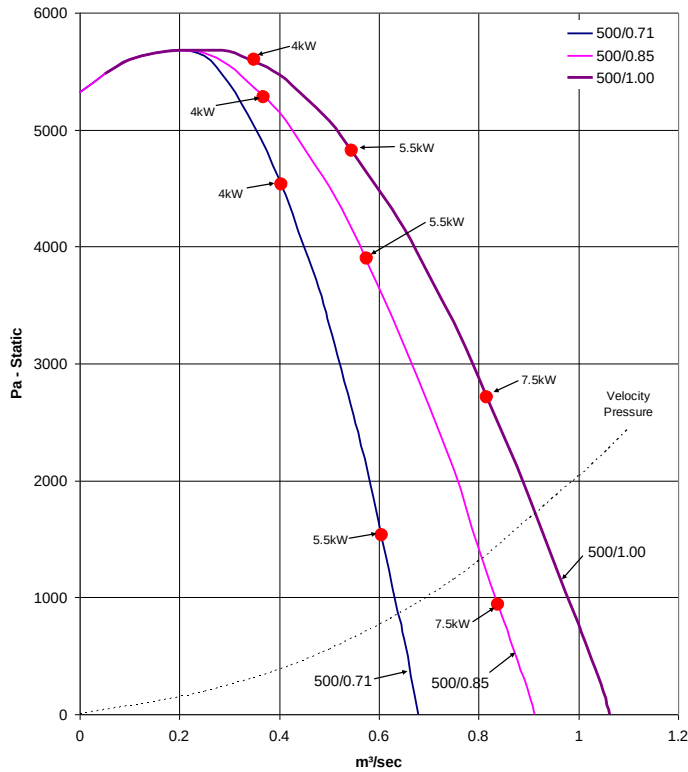
Unit 10, Prolecon Park
4 Prolecon Rd Prolecon Jhb 2001



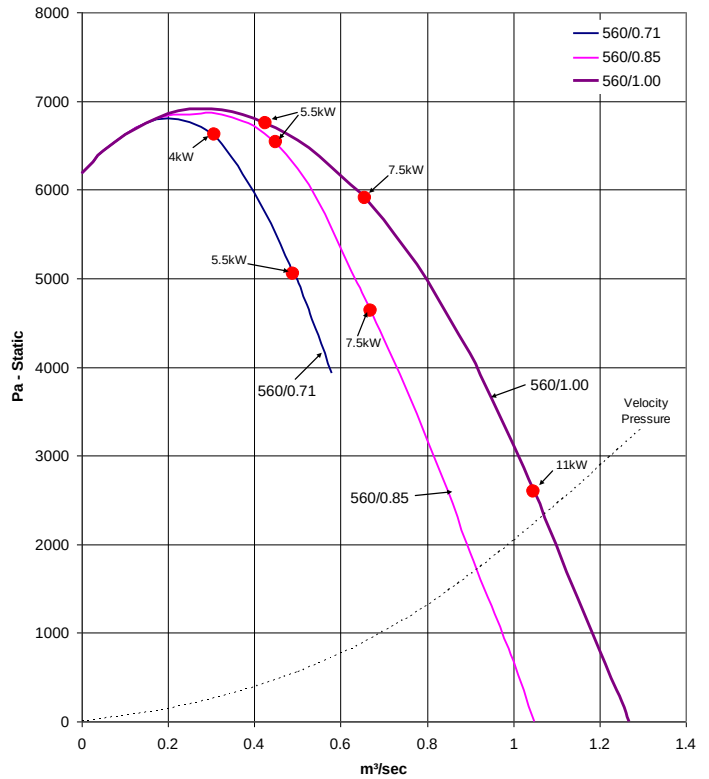
FAN MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

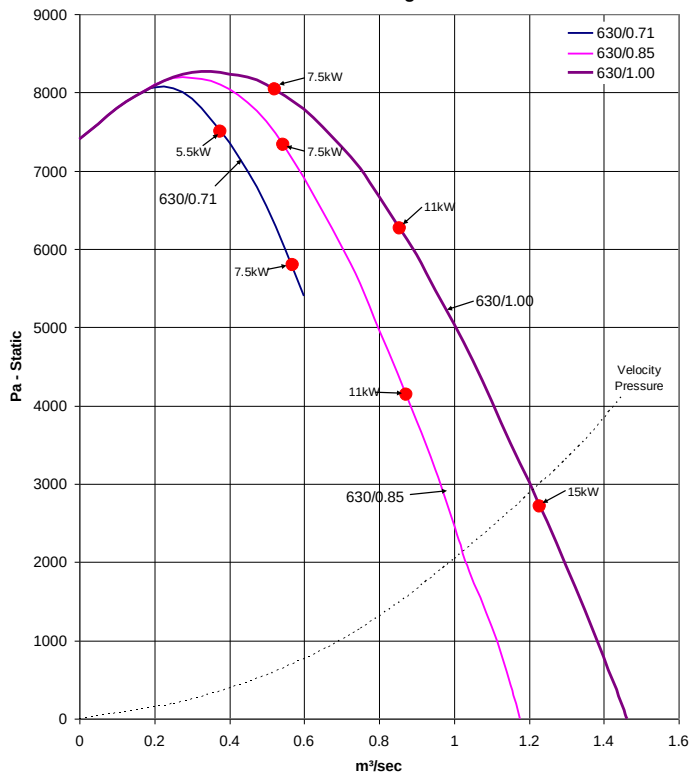
HPLV 500 Range



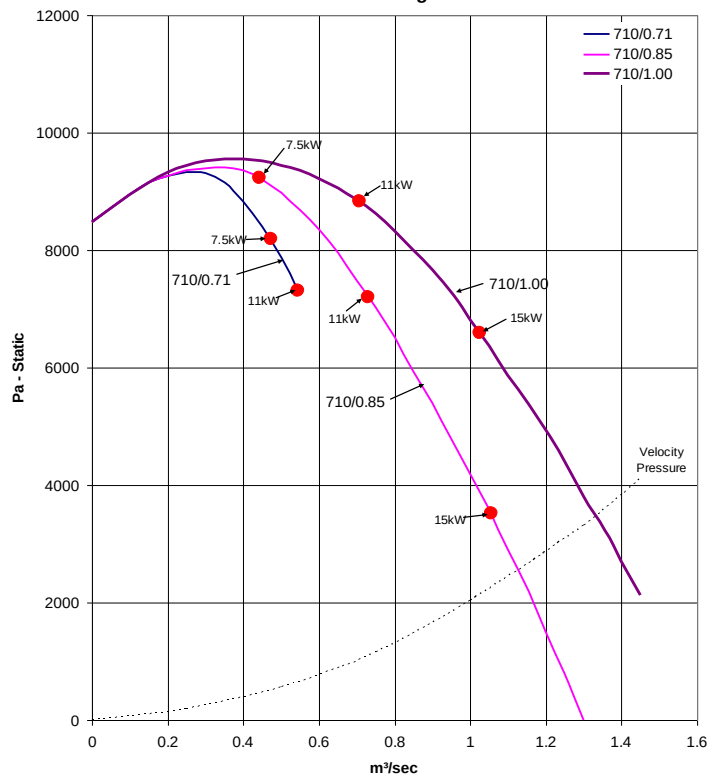
HPLV 560 Range



HPLV 630 Range



HPLV 710 Range



kW ratings indicated above are fan shaft power ratings. Curves drawn at 1.2kg/m³
Curves at operating speed 2880rpm. Information subject to change without prior notice.



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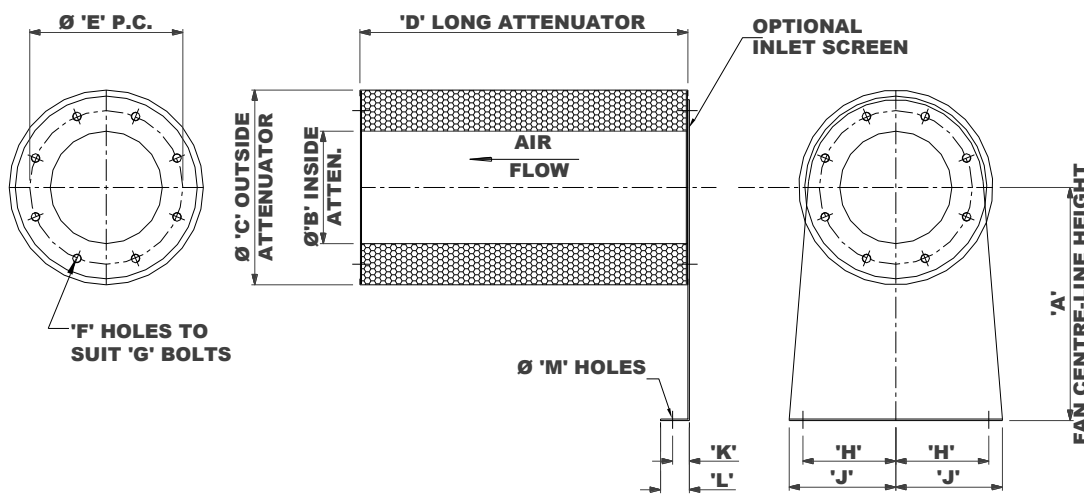


Unit 10, Prolecon Park
4 Prolecon Rd Prolecon Jhb 2001

Optional Accessories Available for the HPLV Range

Inlet Sound Attenuator – manufactured from pre-galvanized material

Octave Band Mean Frequency (Hz)	125	250	500	1000	2000	4000
Insertion Loss (dB)	4	8	15	22	16	10

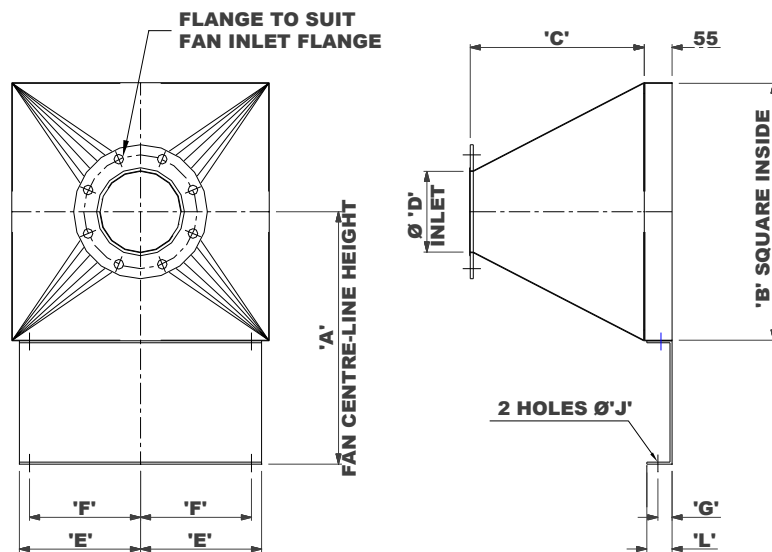


Inlet Size	A	B	C	D	E	F	G	H	J	K	L	M
154	Fan Centre	155	305	600	194	8	M8	220	240	28	50	15
205		205	355	600	245	8	M8	220	240	28	50	15

Optional Accessories Available for the HPLV Range

Inlet Filter Box – manufactured from pre-galvanized material.

The attenuator supporting leg must be specified if required when ordering the Filter Unit.



Filters fitted; washable pleat type

Filter Media; Arrestance 89% ASHRAE (EU3), Synthetic Dual Layer min. 300gms/m²

Filter media Resistance; initial 80Pa, Final 250Pa

Filter Size	A	B	C	D	E	F	G	H	J	Max Flow Rate
500 x 500	Fan Centre	510	277	Fan Size	240	220	28	50	15	0.66 m ³ /sec
600 x 600		610	277		240	220	28	50	15	0.94 m ³ /sec

Information subject to change without prior notice.



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Unit 10, Prolcon Park
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FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

RB Centrifugal Fan



RB-2 Centrifugal Radial Bladed Centrifugal Fan

- Single inlet centrifugal blower / exhauster
- Carbon steel casing and impeller
- Radial bladed, self cleaning type impeller
- Motors Class F, IP55 TEFC
- Motors are suitable for 230/400V - 400/690V 3Ph 50Hz
- Range to be fitted with Aluminium Motor Frames only
- Operating temperature 0°C to 40°C
- Variable impeller width to facilitate variable volumes
- Finish; 2 coat paint system, oxide zinc chromate primer, coated with alkyd enamel top coat.
- *On special request;*
 - *Special windings for different voltages*
 - *Premium Efficiency Plus motors*
 - *Special Motor Classifications*
 - *Stainless steel or special coatings*

RB Radial Bladed Centrifugal

Technical Characteristics

Model	Speed	Full Load current (A)*		Installed Power (kW)	Max Airflow (m³/hour)	Max Pressure (kPa)	Sound pressure Level dB(A)**	Mass (Kg)
		400V	525V					
RB-2 7/1.0 – 1.1/2	2860	2.46	1.88	1.1	1980	0.77	73	38
RB-2 7/1.0 – 0.75/2	2860	1.74	1.32	0.75	1620	0.77	73	37
RB-2 7/1.0 – 0.55/2***	2710	1.30	0.99	0.55	1044	0.77	72	28
RB-2 7/1.0 – 0.37/2***	2730	0.93	0.71	0.37	792	0.77	71	27
RB-2 7/1.0 – 0.37/4***	1320	1.13	0.86	0.37	994	0.19	56	31
RB-2 9/1.0 – 3/2	2860	5.91	4.50	3.0	3960	1.78	82	67
RB-2 9/1.0 – 2.2/2	2850	4.57	3.48	2.2	3132	1.78	82	62
RB-2 9/1.0 – 1.5/2	2860	3.33	2.54	1.5	1872	1.78	80	56
RB-2 9/1.0 – 1.1/2	2860	2.46	1.88	1.1	1080	1.78	78	52
RB-2 9/1.0 – 0.75/2	2860	1.74	1.32	0.75	540	1.78	81	51
RB-2 9/1.0 – 0.55/4	1400	1.48	1.13	0.55	2068	0.45	59	68
RB-2 11/1.0 – 5.5/2	2880	10.1	7.7	5.5	5846	2.19	85	111
RB-2 11/1.0 – 4/2	2880	7.60	5.79	4.0	4140	2.19	88	87
RB-2 11/1.0 – 3/2	2860	5.91	4.50	3.0	2628	2.19	86	82
RB-2 11/1.0 – 0.75/4	1395	1.95	1.49	0.75	2923	0.54	72	67
RB-2 11/1.0 – 0.55/4	1400	1.48	1.13	0.55	2340	0.54	71	63
RB-2 11/1.0 – 0.37/4***	1320	1.13	0.86	0.37	720	0.54	73	60

*Motor Data specified above relates to Alstom LS4 motors.

*** Motor Data specified above relates to WEG EFF2 motors.

We recommend that all electric motors are fitted with SABS approved overload protection.

** dBA value quoted assuming hemispherical free field conditions at 3m from the fan, open inlet.

Information subject to change without prior notice.



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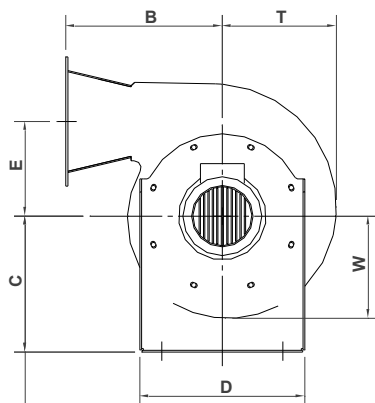
**FAN
MOVEMENT**

AIR AND GAS MOVEMENT SOLUTIONS

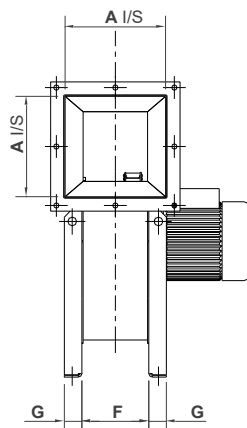
RB Radial Bladed Centrifugal

Sound power levels are given in dB – 10⁻¹² Watts

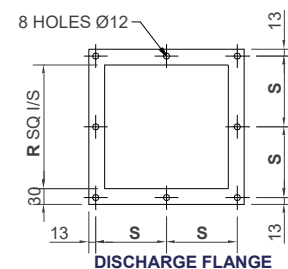
	63	125	250	500	1000	2000	4000	8000
RB-2 7/1.0 – 1.1/2	76	90	86	83	78	78	70	68
RB-2 7/1.0 – 0.75/2	76	90	86	83	78	78	70	68
RB-2 7/1.0 – 0.55/2	76	90	86	83	78	73	70	68
RB-2 7/1.0 – 0.37/2	75	89	85	82	77	72	69	67
RB-2 7/1.0 – 0.37/4	60	74	70	67	62	57	54	52
RB-2 9/1.0 – 3/2	85	99	95	92	87	87	79	77
RB-2 9/1.0 – 2.2/2	85	99	95	92	87	87	79	77
RB-2 9/1.0 – 1.5/2	84	98	94	91	86	81	78	76
RB-2 9/1.0 – 1.1/2	82	96	92	89	84	79	76	74
RB-2 9/1.0 – 0.75/2	85	99	95	92	87	87	79	77
RB-2 9/1.0 – 0.55/4	79	75	74	68	66	63	59	52
RB-2 11/1.0 – 5.5/2	89	103	99	96	91	91	83	81
RB-2 11/1.0 – 4/2	91	105	101	98	93	93	85	83
RB-2 11/1.0 – 3/2	90	104	100	97	92	87	84	82
RB-2 11/1.0 – 0.75/4	75	89	85	82	77	77	69	67
RB-2 11/1.0 – 0.55/4	75	89	85	82	77	72	69	67
RB-2 11/1.0 – 0.37/4	76	90	86	83	78	78	70	68



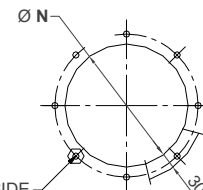
NOTE: FOR HANDINGS L0° & R0° ONLY
SIZE 7 - C + 40mm
SIZE 9 - C + 60mm
SIZE 11 - C + 70mm



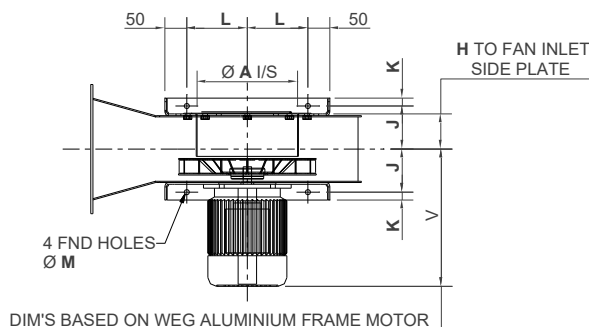
8 HOLES EQ SPACED IN THE INLET SIDE
PLATE ON P PCD ON CRS, WITH M10
CAPTIVE NUTS WELDED I/S.



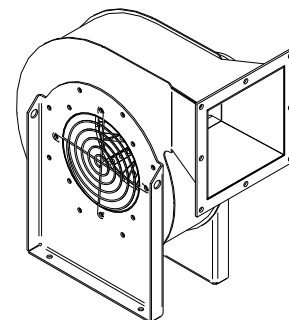
DISCHARGE FLANGE



INLET DETAIL



DIM'S BASED ON WEG ALUMINIUM FRAME MOTOR



HANDING L180° AS SHOWN



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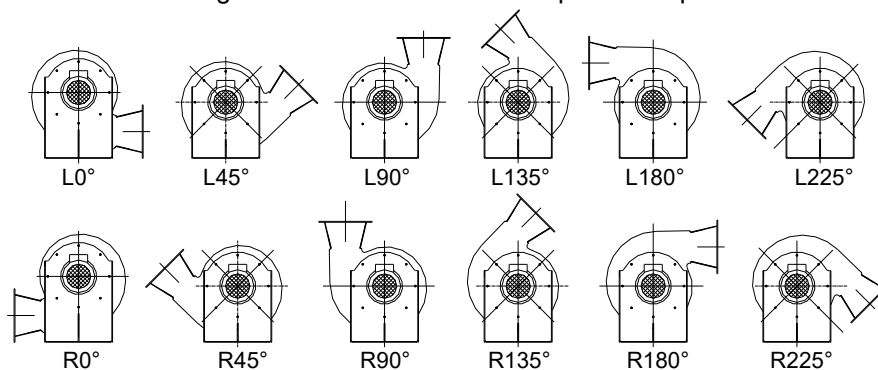
FAN MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

RB Radial Bladed Centrifugal

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	V	W
RB-2 7/1.0 – 1.1/2	178	246	250	292	151	128	40	102	86	18	96	12	183	219	184	109	196	301	170
RB-2 7/1.0 – 0.75/2																		281	
RB-2 7/1.0 – 0.55/2																			
RB-2 7/1.0 – 0.37/2																			
RB-2 7/1.0 – 0.37/4																			
RB-2 9/1.0 – 3/2	229	357	310	376	216	153	40	127	98	18	138	12	234	272	235	135	260	388	233
RB-2 9/1.0 – 2.2/2																		360	
RB-2 9/1.0 – 1.5/2																			
RB-2 9/1.0 – 1.1/2																			
RB-2 9/1.0 – 0.75/2																		313	
RB-2 9/1.0 – 0.55/4																			
RB-2 11/1.0 – 5.5/2	279	410	370	483	257	192	50	153	124	22	192	15	284	322	285	160	325	510	283
RB-2 11/1.0 – 4/2																		428	
RB-2 11/1.0 – 3/2																		408	
RB-2 11/1.0 – 0.75/4																		333	
RB-2 11/1.0 – 0.55/4																			
RB-2 11/1.0 – 0.37/4																		313	

Fan Handing and Rotation to be stated upon order placement.



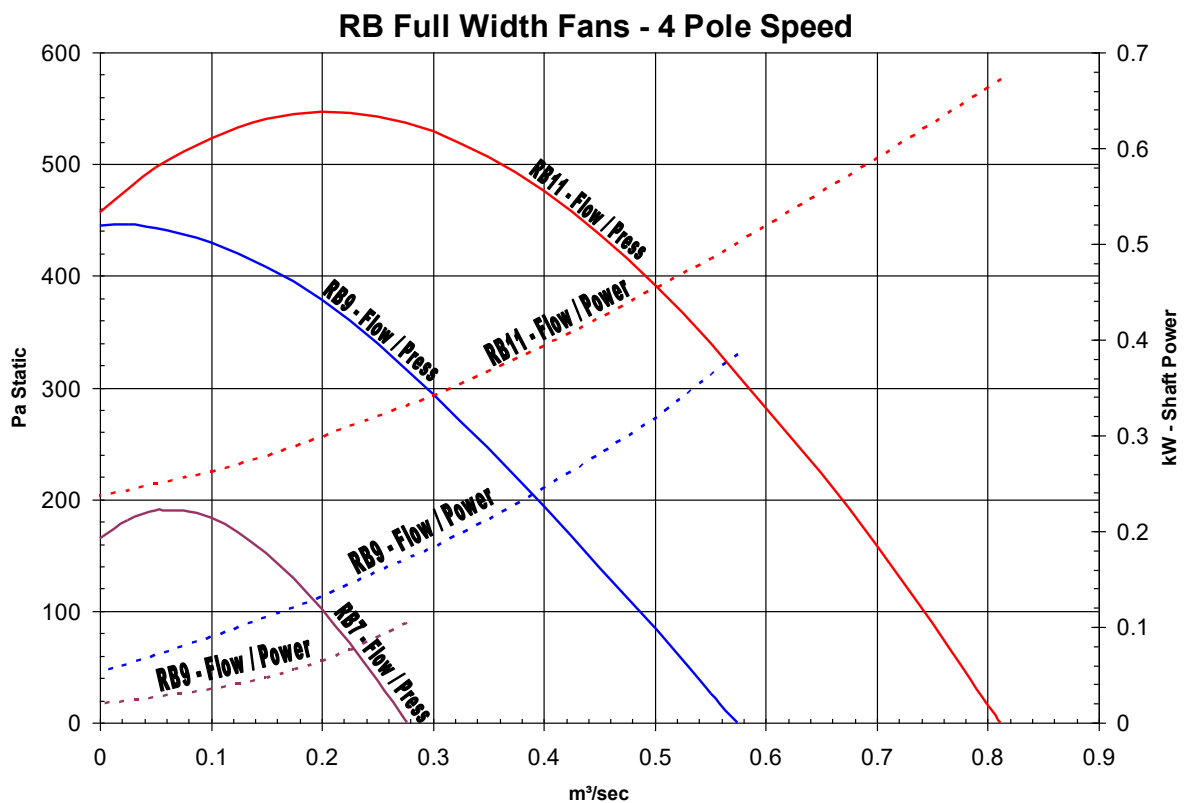
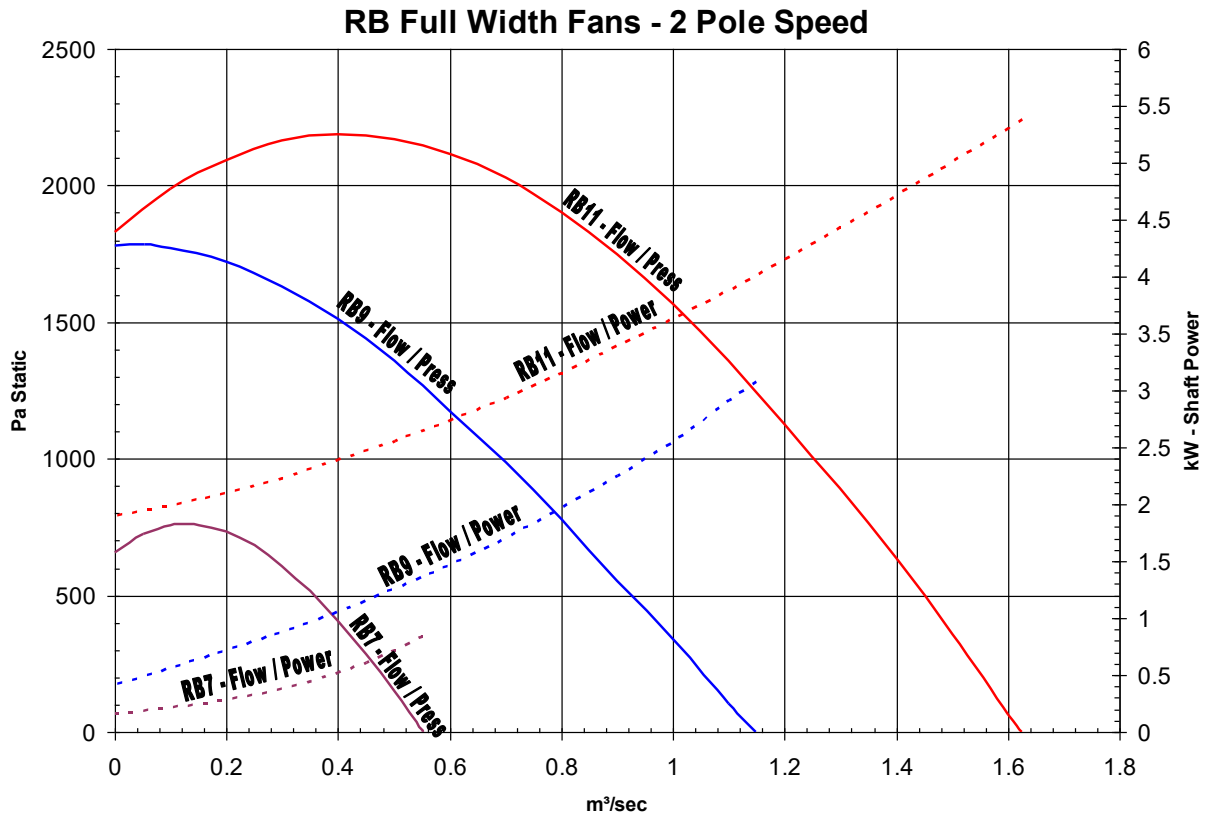
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kW ratings indicated above are fan shaft power ratings. Curves drawn at 1.2kg/m³
Curves at operating speeds indicated. Information subject to change without prior notice.

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Unit 10, Prolecon Park
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Section I - Domestic And Commercial Fans

Tiracamino



Dehumido



HV



KP Clean Pack



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

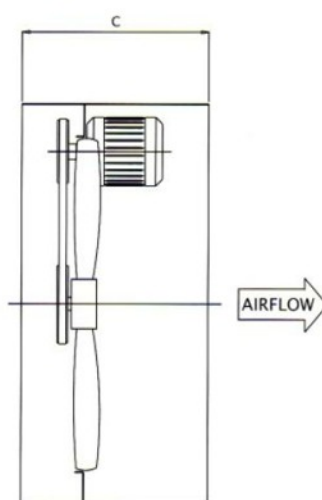
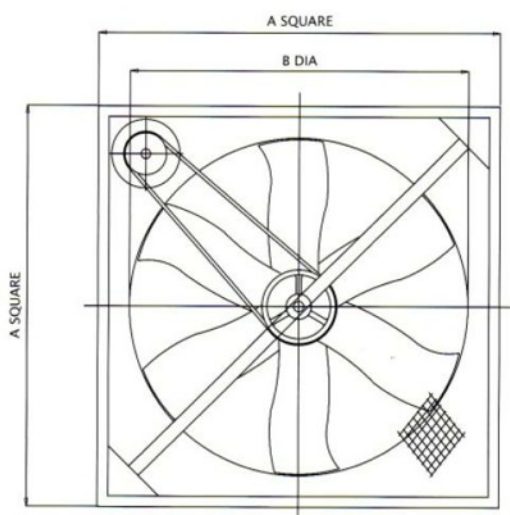
Arrangement: Boxed Louvre Type Type: Agricultural Fan



- Designed to move large volumes of air. - Quite operating.
- Working temperature: 0°C + 45°C.
- Protection guard on inlet side.
- Automatic aluminium louvers on discharge side of fan.
- Fans are supplied with connection power cable.
- Motors are suitable for 380/3/50 power supply IP55 TEFC.
- Entire unit mounted in pre-galvanised steel enclosure.
- Low Maintenance.
- High efficiency impellers result in energy saving.

Technical Characteristics

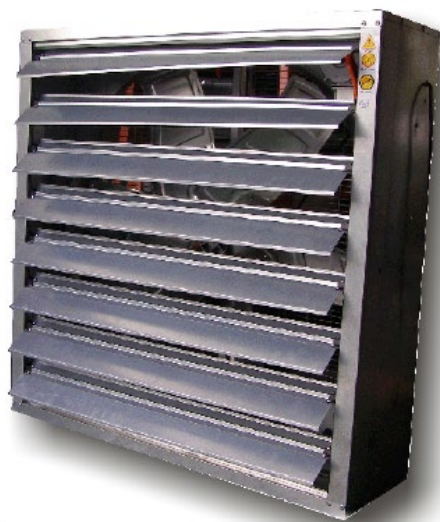
Model	Speed r/min	Full Load current (A) 380V	Installed Power (kW)	Max Airflow m ³ /hour	Sound pressure level dB(A)	Approximate Mass (Kg)
HV 1250	450	2.75	1.1	44,500	78	80



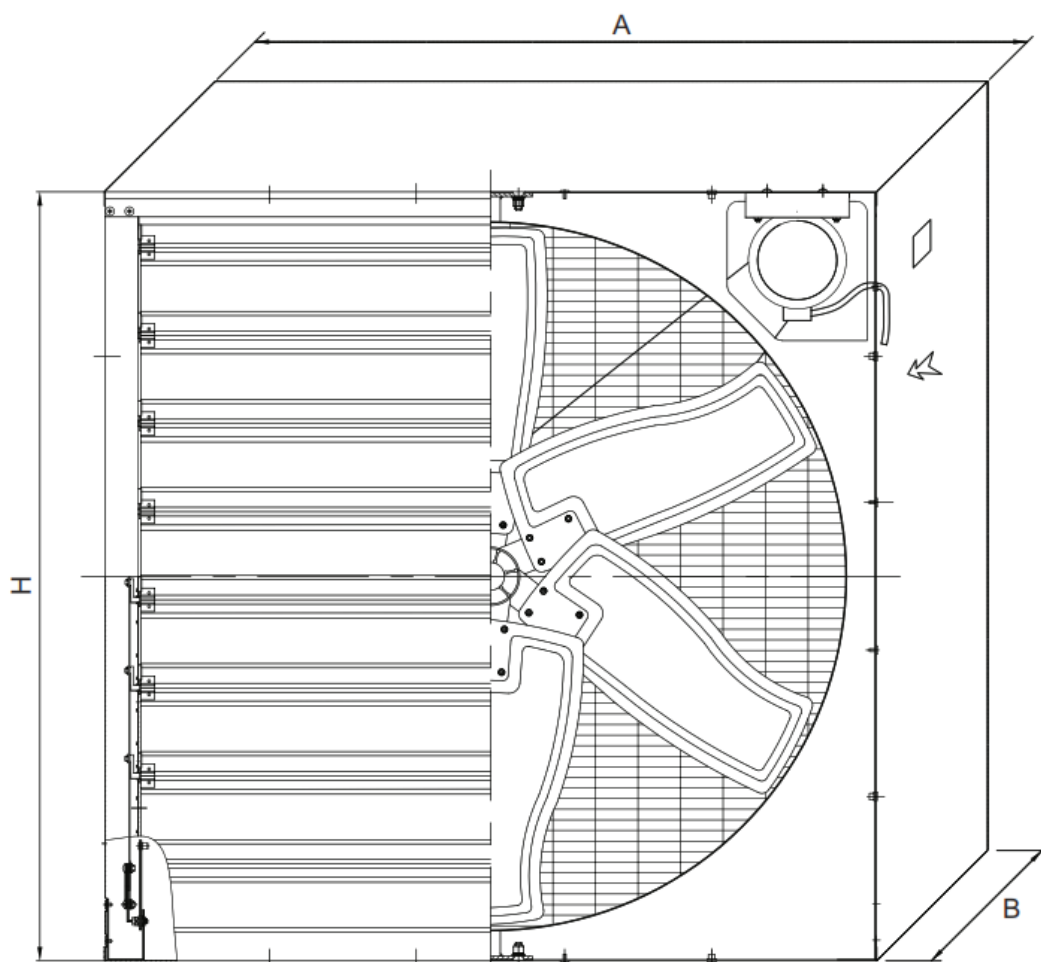
- A 1380 mm
B 1245 mm
C 440 mm



Arrangement: Boxed Louvre Type Type: Agricultural Fan



- Designed to move large volumes of air.
- Quite operating.
- Working temperature: 0°C + 45°C.
- Protection guard on inlet side.
- Automatic aluminium louvers on discharge side of fan.
- Units can be supplied with screens both sides (inlet and discharge).
- Fans are supplied with connection power cable.
- Motors are suitable for both 220/1/50 and 380/3/50 power supply IP55 TEFC.
- On special request we can supply other voltages
- Entire unit mounted in pre-galvanised steel enclosure.





FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

Model	Speed (r/min)	Volume (m ³ /h)	Noise dB(A)	Power (kW)	Voltage (V)	Frequency (Hz)	Weight (kg)	Dimension A×B×H(mm)
HV5	1400	7000	72	0.55	220/380	50	24	600×400×600
HV5.6	960	8000	65	0.45	220/380	50	34	750×400×750
HV7	960	13800	71	0.45	220/380	50	32	850×400×850
HV8	450	16000	59	0.37	380	50	42	900×400×900
HV9.5	450	32000	60	0.55	220	50	59	1060×400×1060
				0.75	380	50		
HV11.2	450	37000	63	0.75	220/380	50	74	1220×400×1220
HV12.5	450	44500	65	1.1	220/380	50	87	1380×400×1380

HV BOXED Fans



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Unit 10, Prolecon Park
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Kleen-Pak (KP) Filter Unit Forward Curved Fan c/w Filter



- Constructed from Pre-galvanized Material
- Inlet Weather Louvre Supplied in Aluminium
- Discharge Deflection Louvre, Aluminium
- Unit is Fitted with DIDW Forward Curved Centrifugal Fan
- External Terminal Box Fitted for easy site Installation
- Fan Fitted on Neoprene AVM's
- Units can be ordered for Speed Controllable Applications
- Units are Fitted with Standard Size Filters for Easy replacement

On Request

- Special Material of Construction
- Special Filter Requirements
- Swing out and lockable access panels

KP – S – Models

These models are supplied with only a primary filter
Filters are pleated washable type, 89% ASHRAE (EU3)

KP – H – Models

These models are supplied a primary & Secondary filter, efficiencies up to 99%
Primary Filters are pleated washable type, 89% ASHRAE (EU3)
Secondary Filters are high efficient Hepa, Riga Cel or Casette type

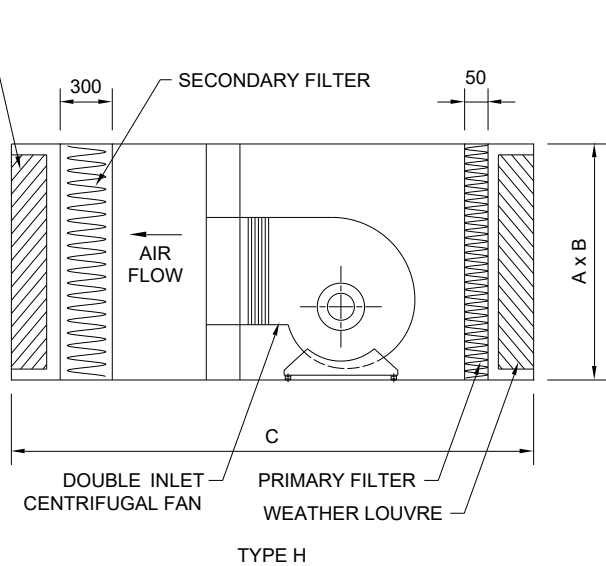
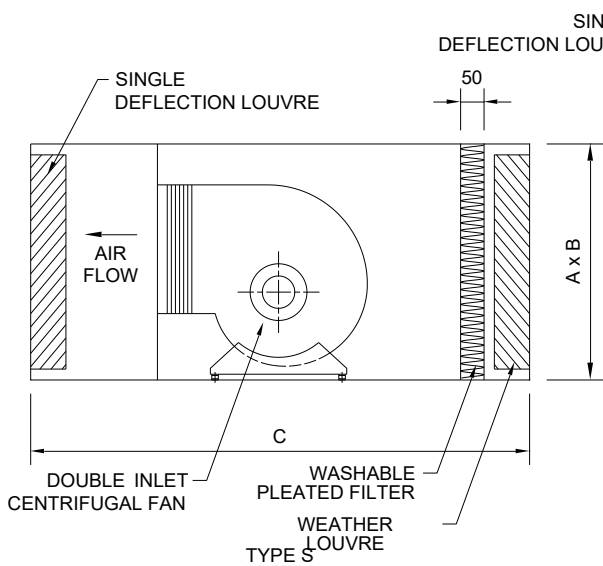
Technical Characteristics

Model	Fan Fitted	Watts	V / Ph / Hz	Amps	Max Flow (m ³ /s) ₂	dBa @ 3m ₁	Speed	Filter Reference	
								Prim	Sec
KP1-S	610633	147	220/1/50	1.80	0.40	60.4	1400	WPF	-
KP2-S	6M0629	373	220/1/50	5.00	0.60	69.9	1400	WPF	-
KP3-S	6M02P4	550	220/1/50	6.5	0.94	66.6	1400	WPF	-
KP4-H	6M066N	550	220/1/50	5.1	0.60	68.1	1400	WPF	Riga Cell
KP5-H	6M02P4	550	220/1/50	6.5	0.80	66.6	1400	WPF	Casette
KP6-H	6M02P4	550	220/1/50	6.5	0.94	67.0	1400	WPF	Hepa

- 1) Free field dBa figures tabulated on this page are given as a general guide to the unit sound level at 1m from the open inlet to the fans. Above figure are given at free inlet duty.
- 2) Air flow volumes are calculated with 30% dust loading.

Selection Guide

Unit Code	Filter Efficiency	Typical Installations
KP1-S	80%	General Industrial Applications with high dust environment including transformer rooms, internal office enclosures, special plant rooms etc.
KP2-S	80%	
KP3-S	80%	
KP4-H	85%	Laboratories, clean air rooms, computer rooms
KP5-H	95%	Computer rooms, laboratories, hospitals, quality control areas
KP6-H	99%	Sterile rooms, computer rooms, hospitals, laboratories, photographic and printing rooms



Model	A	B	C
KP1-S	500	500	1000
KP2-S	500	625	1000
KP3-S	625	625	1000

Model	A	B	C
KP4-H	625	625	1400
KP5-H	625	625	1400
KP6-H	625	625	1400

DEUMIDO® E10 & E20 Portable Dehumidifier



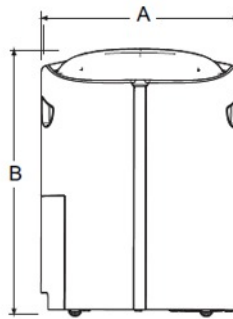
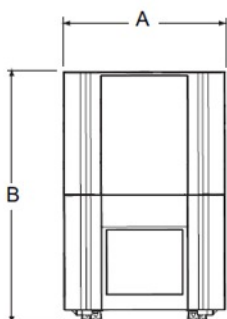
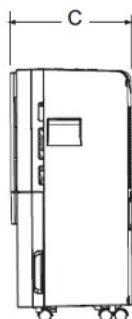
- The product is designed to create a high level of comfort by automatically controlling condensation and humidity in rooms.
- All models are fitted with 2 fan speeds.
- The Humidity threshold can be set by the user by to 50, 60, 70 □ 80%
- Intelligent sound proofing results in extremely silent running units.
- Full tank alert with warning light and buzzer 3.6l (E10) □ 5.5l (E20). The tank is removable.
- Units can be fitted with a continuous drain system.
- Both the models are fitted with a Anti-Freeze thermostat.
- All models are fitted with castors for easy moving.
- The units have a 2 filter system, a washable dust filter to capture airborne dust and eliminate bacteria buildup and a active carbon filter to effectively eliminate odours.
- Limited environmental impact (Coolant Gas R134A)

Technical Characteristics

Model	Voltage	Watts	Humidity (l/24h)	Lp dB(A) 3m		Temp Range (°C)	Refrigerant load (g)	Tank Capacity (l)	Kg	Insulation
				Min	Max					
Deumido 10	230	250	10 (T 30°C ¹ - 80% RH ²)	35	37	5~35	100	3.6	11	 Cl 1
Deumido 20	230	370	20 (T 30°C ¹ - 80% RH ²)	39.9	42	5~35	200	5.5	12.5	 Cl 1

Note 1 - Room Temperature

Note 2 - Room Relative Humidity



Model	A	B	C
Dehumido E10	330	522	247
Dehumido E20	410	545	210

Donkin Fans reserves the right to change product specifications without prior notice.

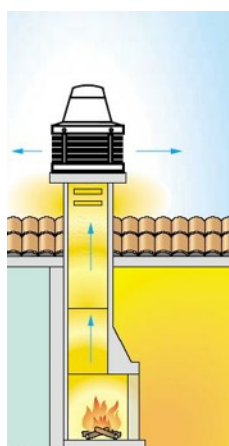
Tiracamino® Chimney Fire Smoke Extract Fans



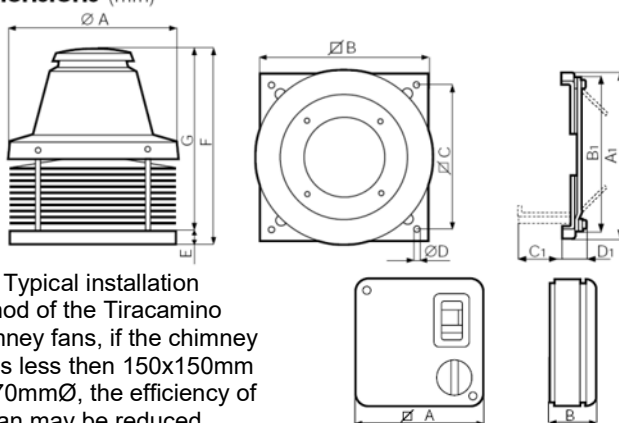
- The product is designed to extract fire smoke and heat from fire places with the advantage that the unit can be used as a general extraction fan when a fire is not lit.
(The unit is not suitable for Gas fired installations)
- The Tiracamino Chimney fan is fitted with ball bearings making the units suitable for long period of operation.
- The fan is designed to operate at temperatures of approximate 200°C
- Weather proof steel construction with anti-corrosion, polyester resin protection.
- Each unit is supplied with an anchor cable for safe installation.
- Supplied with the fan is a suitable speed controller with a on / off feature.
- Unit complies to CEI EN 60335-2-80 Part 2

Technical Characteristics

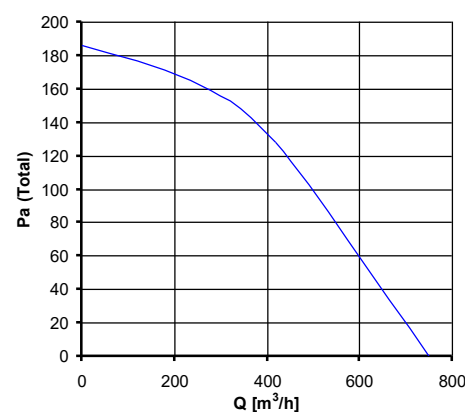
Code	Voltage @ 50Hz	W	A	Rpm	m³/h	Pa	Lp dB(a) @ 3m	Inlet Ø	Kg	Insulation	IP
Tiracamino® 15000	220-240	120	0.5	1400	750	186	52	170mm	14.3	 Cl 1	X4



Dimensions (mm)



Left: Typical installation method of the Tiracamino Chimney fans, if the chimney flue is less than 150x150mm or 170mmØ, the efficiency of the fan may be reduced.



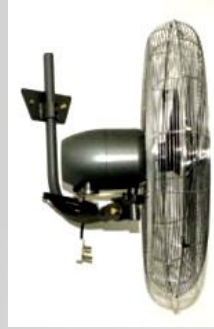
AØ	Bsq	Csq	DØ	E	F	G	A ₁	B ₁	C ₁	D ₁
405	410	357	10	38	518	480	401	357	140	40

Controller	A	B
C 1.5	120	43

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Section J - Cooling Fans

Airmax



HTM



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS



FAN MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

Technical Specifications

AIRMAX-2 EC oscillating cooling series



AIRMAX-2 EC oscillating wall & pedestal cooling fans

The Airmax-2 EC oscillating fans is an **HIGH EFFICIENCY LOW NOISE** easy and affordable method of creating a draft in a store, workplace, meeting areas or any other area where some cooling is required.

Our Airmax-2 EC range is available in 2 different sizes, with each size available in either wall mounting or free standing pedestal. The fans are fitted with height adjustment combined with an easy manageable oscillating angle adjustment. The oscillating angle can be adjusted from 90° to 0°.

The impellers and screens are designed to offer a maximum airflow capacity generating the lowest possible noise.

All models are supplied in kit format

Assembly can be done with minimum tools.

The entire range offered is suitable for 220V 1Ph 50Hz power supply and operating conditions from 10°C ~ 40°C.



Construction

The fan screen, support pole, base / holding arm, and screen design was done with robust in mind. All components are manufactured from carbon steel and coated with a epoxy paint system to withstand general workshop conditions.



Motors

All models are brushless DC motors, with efficiencies reaching 80%. Motor starters offer soft starting to eliminate electrical spikes.

Side switch on the motor includes a 5 way speed collector.

Motors include built in software and hardware overload protection.

The motor body includes a robust gearbox for oscillating functionality.



Special Request

- Fans can be ordered with special colours on request. Min order qty for colour change would be 50 units.
- Screens are available with black or Chrome finish. Special Chrome finish will be a special import with min of 50 units per order.

Installation Possibilities

The range of fans are available for free pedestal standing or wall / pillar mounting.

Fans must be ordered for installation specific applications.



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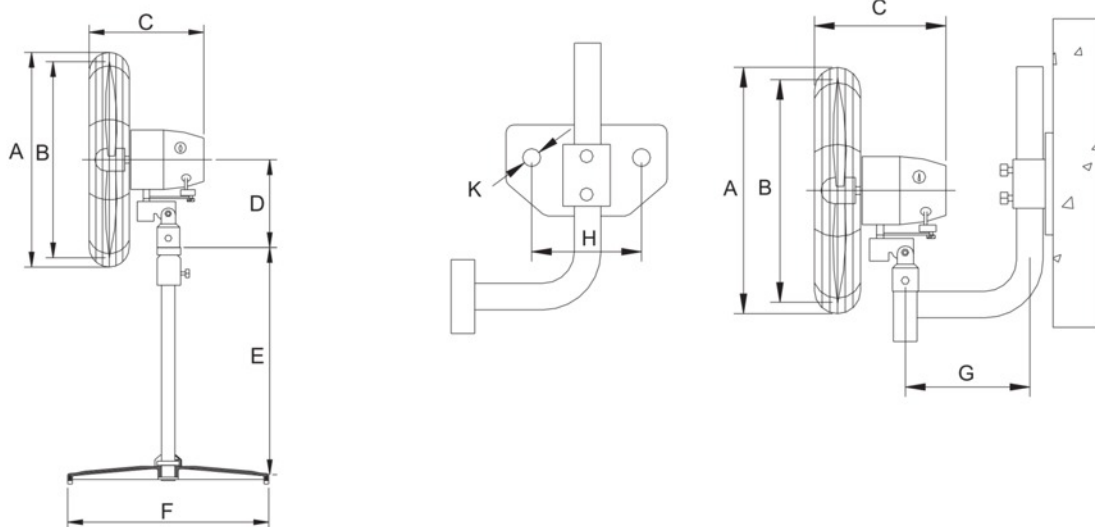
Technical Specifications

AIRMAX-2 EC oscillating cooling series

Technical Data

Model	Power	Power (Watts)	Max Flow (m ³ /min)	Speeds (rpm)	Noise (dBa @ 3m)
Airmx-2 EC 650	220/1/50	1 - 20	1 - 80	1 - 700	1 - 52
		2 - 42	2 - 120	2 - 900	2 - 56
		3 - 60	3 - 160	3 - 1100	3 - 60
		4 - 95	4 - 190	4 - 1300	4 - 64
		5 - 125	5 - 240	5 - 1450	5 - 67
Airmx-2 EC 750		1 - 24	1 - 110	1 - 700	1 - 52
		2 - 48	2 - 160	2 - 900	2 - 58
		3 - 78	3 - 230	3 - 1100	3 - 63
		4 - 125	4 - 290	4 - 300	4 - 67
		5 - 180	5 - 330	5 - 1450	5 - 72

Noise data – Radiant dBa @ 3m, assuming spherical free field conditions.

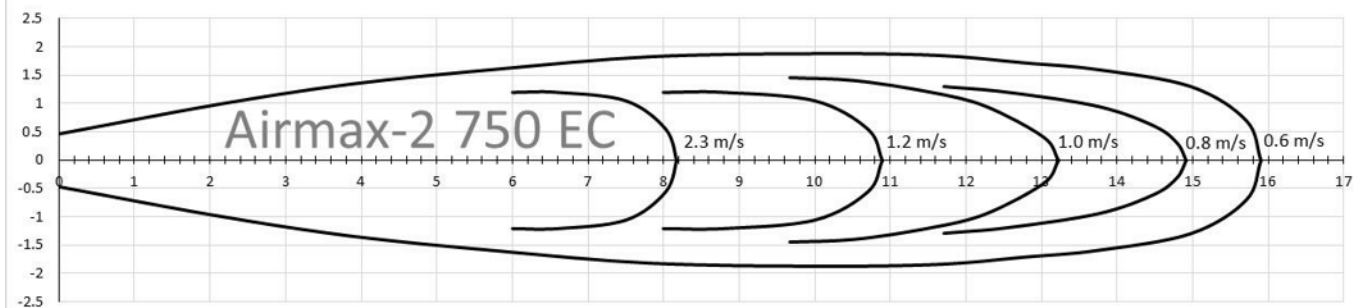
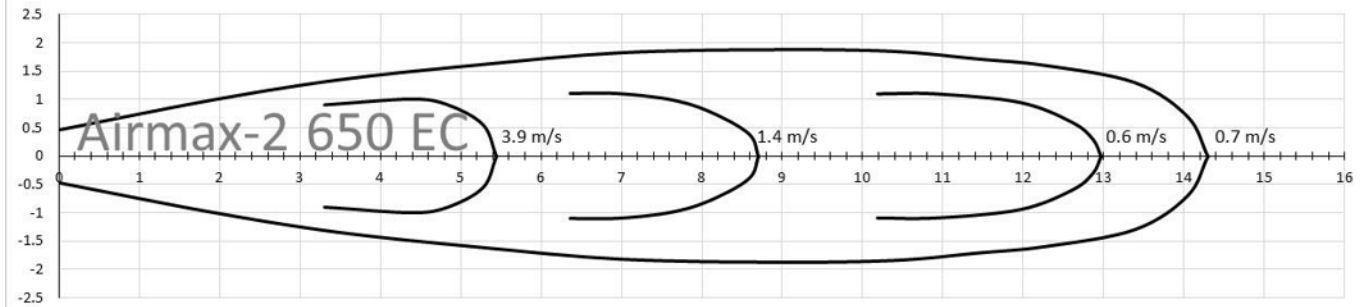


Dimensions

	Dimensions in mm										Mass - kg	
	A	B	C	D	E	F	G	H	K	L	Pedestal	Wall
Airmx-2 EC 650	715	650	345	205	970	632	245	125	13.5	-	20.5	13.3
Airmx-2 EC 750	815	750	350	205	970	632	245	125	13.5	-	22.1	14.9

Technical Specifications

AIRMAX-2 EC oscillating cooling series



Optional Accessories

-	-	-	-	-



FAN MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

Technical Specifications

AIRMAX-2 oscillating cooling series



AIRMAX-2 oscillating wall & pedestal cooling fans

The Airmax-2 oscillating fans is an easy and affordable method of creating a draft in a store, workplace, meeting areas or any other area where some cooling is required.

Our Airmax-2 range is available in 5 different sizes, with each size available in either wall mounting or free standing pedestal. The fans are fitted with height adjustment combined with an easy manageable oscillating angle adjustment. The oscillating angle can be adjusted from 90° to 0°.

The impellers and screens are designed to offer a maximum airflow capacity generating the lowest possible noise. All models are supplied in kit format with simple assembly instructions. Assembly can be done with minimum tools.

The entire range offered is suitable for 220V 1Ph 50Hz power supply and operating conditions from 10°C ~ 40°C. All models are fitted with thermal protection embedded in the motor winding.



Construction

The fan screen, support pole, base / holding arm, and screen design was done with robust in mind. All components are manufactured from carbon steel and coated with a epoxy paint system to withstand general workshop conditions.



Motors

All models are fitted with ball bearing motors with service life designed at 5 000hrs at non-stop operating conditions.

The motor body includes a robust gearbox for oscillating functionality. The motor windings are imbedded with a resettable thermal overload protector to protect the fan windings.



Special Request

- Fans can be ordered with special colours on request. Min order qty for colour change would be 50 units.
- Screens are available with black or Chrome finish. Special Chrome finish will be a special import with min of 50 units per order.



Installation Possibilities

The range of fans are available for free pedestal standing or wall / pillar mounting.

Fans must be ordered for installation specific applications.



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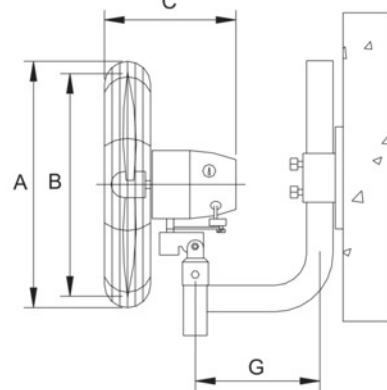
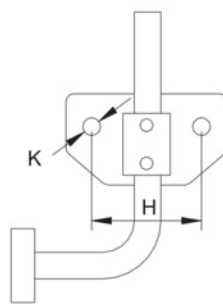
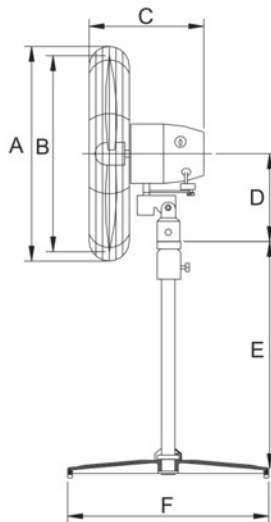


Technical Data

Model	Power	Power (Watts)			Max Flow (m ³ /min)			Speeds (rpm)			Noise (dBA @ 3m)		
		HS	MS	LS	HS	MS	LS	HS	MS	LS	HS	MS	LS
Airmx-2 500	220/1/50	75	80	115	95	116	130	1100	1250	1400	48	50	55
Airmx-2 600		120	130	170	125	150	195	1100	1250	1400	52	56	62
Airmx-2 650		142	160	187	150	174	220	1100	1250	1400	55	60	68
Airmx-2 750		175	195	240	214	270	302	1100	1250	1400	58	70	75
Airmx-2 850		255	283	350	255	320	360	1100	1250	1400	68	82	88

Noise data – Radiant dBA @ 3m, assuming spherical free field conditions.

HS – High Speed, MS – medium Speed, LS – Low Speed

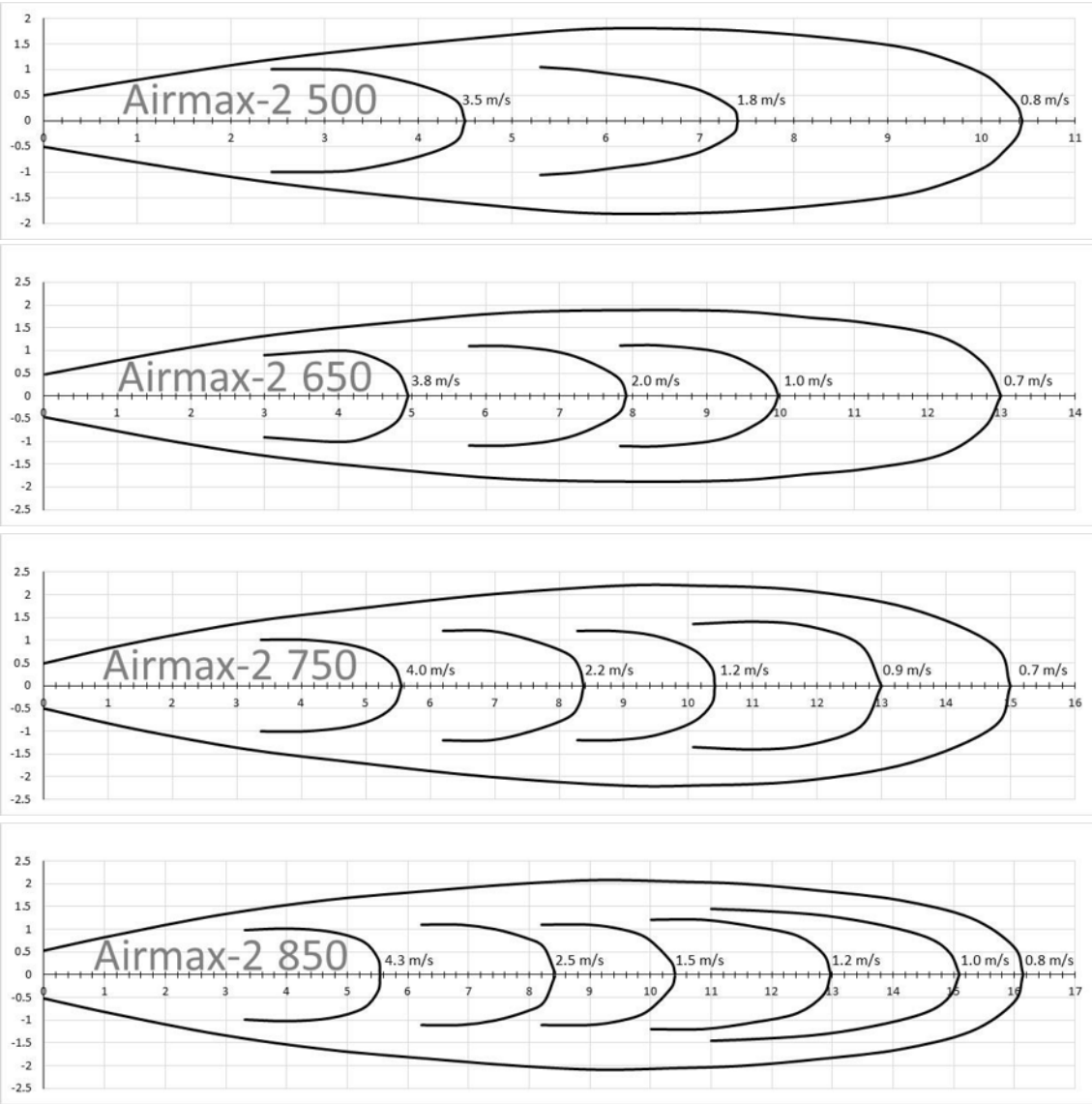


Dimensions

	Dimensions in mm										Mass - kg	
	A	B	C	D	E	F	G	H	K	L	Pedestal	Wall
Airmx-2 500	560	500	360	205	765	550	250	125	13	1320	15.9	11.7
Airmx-2 600	660	600	360	205	765	550	250	125	13	1320	19.0	12.7
Airmx-2 650	715	650	360	205	965	600	250	125	13	1520	19.8	13.5
Airmx-2 750	815	750	360	205	965	600	250	125	13	1520	21.0	14.7
Airmx-2 850	915	840	370	210	965	710	250	125	13	1520	27.4	17.1



AIRMAX-2 oscillating cooling series



Optional Accessories

-	-	-	-	-



Arrangement: Mobile Man Cooler Type: Cased Axial Fans



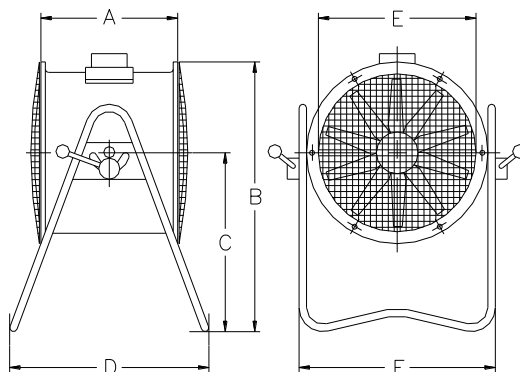
- Sheet Steel long cased axial fan
- Polyamide Fibreglass-reinforced Impeller
- Safety guard which meets UNE 100250 on outlet and inlet sides (standard)
- Connection box on casing, with IP-55 protection and built in start/stop switch.
- Airflow direction from motor to impeller
- Fans with three-phase motor are designed for 400V.
- Class F Motors with ball bearings, IP55 protection, except single phase motors are IP54.
- Support foot in tubular steel, with directional airflow
- Working Temperature -25°C to +50°C

Technical Characteristics

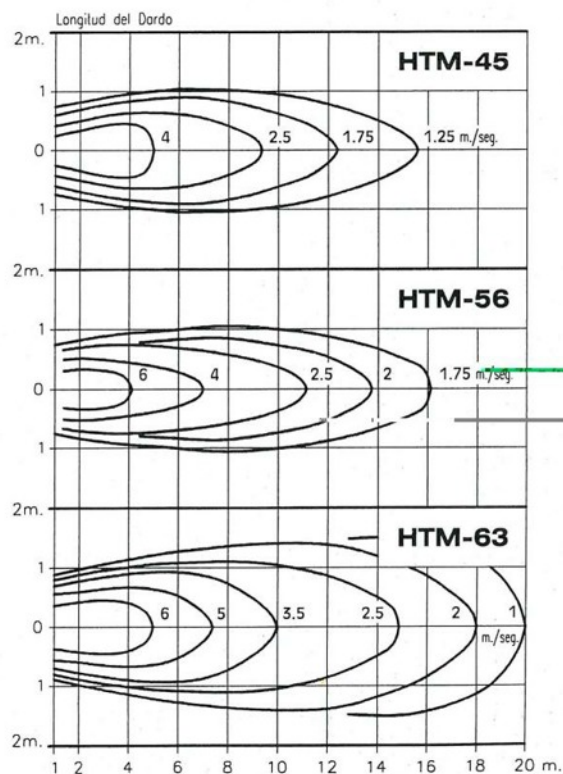
Model	Speed r/min	Full Load current (A) 230V	Full Load current (A) 400V	Installed Power (kW)	Max Airflow m ³ /hour	Sound level pressure dB(A) ¹	Approximate Mass (Kg)
45 4M	1375	3.10	-	0.37	7100	68	22
45 4T	1375	1.99	1.15	0.37	7100	68	22
56 4M	1375	4.40	-	0.55	11 000	72	27
56 4T	1375	3.12	1.80	0.55	11 000	72	27
63 4T	1410	5.20	3.00	1.10	18 300	74	35

Note 1) Sound power levels in dB(A), obtained in the open at a distance equivalent to twice the fan span plus the impeller diameter, with a minimum of 1.5m

		63	125	250	500	1000	2000	4000	8000
HTM	45	33	50	62	70	75	75	71	64
HTM	56	39	56	69	76	81	82	77	70
HTM	63	43	60	73	80	85	86	81	74



Model Number	A	B	C	D	E	F	Mass
HTM 45	360	795	481	453	460	596	22 kg
HTM 56	400	945	594	522	560	726	27 kg
HTM 63	430	978	594	522	640	805	35 kg



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Section K - Fire Smoke Fans

Fumax



Circular Jet O



Circular Jet C



Centrifugal Jet



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

Fumax®



Fumax® Cased Axial Fire Smoke Fan

- Locally designed and manufactured
- Units are suitable for 300°C / 120min
- Hot dip galvanized finish
- Cast aluminium blades in pressed steel hub, fixed pitch
- Galvanised welded on external terminal box
- Certified in accordance with EN-12101-3-2002 Part 3
- Motors Class H, S1 and S2 cycle, IP55 protection

On special request;

- Special windings for different voltages
- 2 Speed models available

Majax-2 Long Cased

Fumax axial flow fans are manufactured in diameters ranging from 400mm to 1250mm and incorporate aerofoil section, aluminium bladed impellers mounted directly onto the motor shaft which is in the air stream. Fumax fans are certified in accordance with BS EN 12101-3:2002 Part 3 for 300°C for 120minutes and carry the CE marking declaring that the fan meet all the appropriate provisions of the relevant legislation implementing certain European directives.

Applications

The primary application of Fumax fans is smoke control in the building service industry. Fumax fans can also be used simultaneously for normal ventilation applications.

Sizes

Sizes vary in accordance with the preferred increments covered in ISO 497-1973(E) R20. These sizes are:
400, 500, 560, 630, 710, 800, 900, 1000 and 1250mm Diameters.

Impellers

Impellers incorporate die-cast aluminium alloy blades of aerofoil section, which are clamped in split steel hubs. (Majax-2 1250-H impellers have split aluminium hubs)

All blades are x-rayed and dowelled in position with a steel spring pin during assembly.

Balancing

Impellers are dynamically balanced to ISO 1940 grade G6,3.

Casings

Standard casing lengths cover the impeller and motor assemblies. External terminal boxes are provided on the casings of fans fitted with standard totally enclosed motors.

Casing Finish

Casings are Hot Dip Galvanised to ISO 1461. All fasteners used are zinc plated.

Flange Dimensions and Drillings

Flange dimensions and drillings are in accordance with BS 6339, see dimension table for details.

Motors

Motors are certified in accordance with BS EN 12101-3: 2002. Standard voltages is 380-420V, three phase, 50Hz. Enclosure is IP55 with class H insulation.

Performance Data

Selection and sound data is generally in accordance with the Majax-2 Brochure and selection curves.

Donkin Fans reserves the right to change product specifications without prior notice.



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Sound Data

The sound data indicated on the performance graphs are “in-duct” values obtained from tests conducted in accordance with BS 848: Part 2 – In-duct method. The higher values on the sound level contours are overall sound power levels (suffixed dBW), and the lower levels are average sound pressure levels, under free field conditions, at a distance of 3 impeller diameters from the fan inlet or outlet. Sound power levels are given in decibels re: 10^{-12} Watts. Sound pressure levels are given in decibels re: 2×10^{-5} Pa.

An octave band analysis can be obtained by subtracting the spectrum constants, tabulated on each performance curve, from the overall sound levels.

A-Scale levels are obtained by subtracting an A-scale correction constant, given on each performance graph, from the overall sound level.

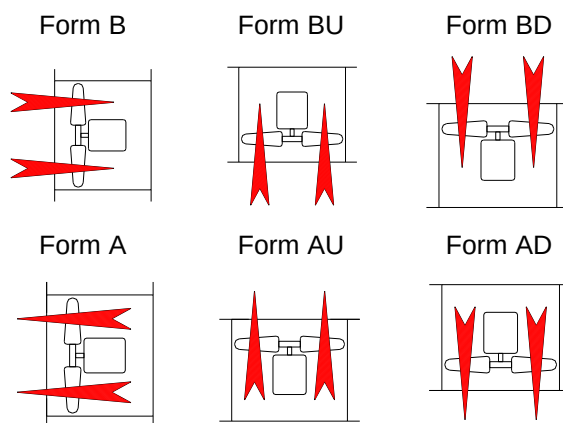
“Free-field” sound levels incorporating inlet / outlet end reflection losses, are obtained by subtracting the constants (indicted in the table below) from the “In-duct” octave band sound levels.

Alternatively refer to Donkin Fan selection software.

Fan Size	Octave Band Mean Frequency				
	63	125	250	500	1000+
400	13	8	3	1	0
500	11	6	2	0	0
560	10	5	2	0	0
630	9	5	1	0	0
710	8	4	1	0	0
800	7	3	1	0	0
900	6	2	1	0	0
1000	6	1	0	0	0
1250	5	1	0	0	0

Direction of Air Flow

Standard form of airflow for the Fumax range would be form B, BU and BA, having motors mounted downstream of the impellers.



Forms A, AU and AB can be made available upon special request..

Temperature Limitations

The Fumax range of fans has been tested in accordance with BS EN 12101-3:2002 Part 3 and are classified according to the following classes.

Class	Temperature (°C)	Minimum functioning period
F200	200	120 minutes
F300	300	60 minutes

Fumax fans were successfully tested and certified for 300°C for 120 minutes by BSRIA which exceeds classes F200 and F300.

Fumax fans can also operate continuously at normal temperatures (5°C ~ 50°C) for ventilation applications.

Optional Features

Mounting feet, counter flanges, wire screens, conical inlet cones (bolt-), anti-vibration mounts and flexible connections.

Matching size cylindrical sound attenuators.

Donkin Fans reserves the right to change product specifications without prior notice.



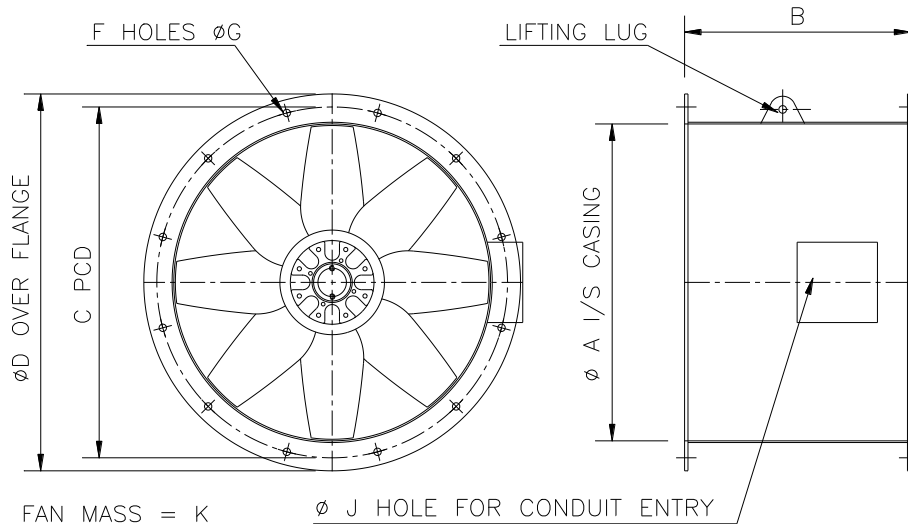
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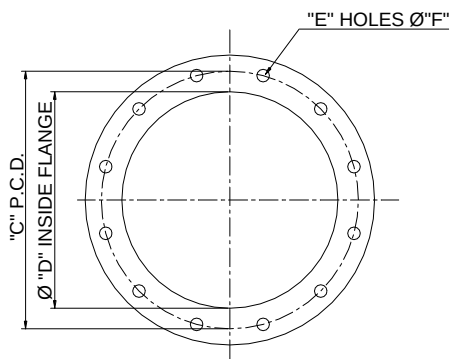


Fan Size A	Direct Drive Fan Speed / Motor kW				B	C	D	F	G	J	Mass (Kg)
	2 Pole	4 Pole	6 Pole	Motor Mounting							
400	1.5 ~ 2.2	1.1 ~ 1.5	-	PAD	400	450	485	8	13	22	38
	3.0	2.2 ~ 3.0	1.5	PAD						22	49
	4.0	4.0	2.2	PAD						32	61
500	1.5 ~ 2.2	1.1 ~ 1.5	-	PAD	400	560	607	12	13	22	48
	3.0	2.2 ~ 3.0	1.5	PAD						22	59
	4.0	4.0	2.2	PAD						32	71
560	1.5 ~ 2.2	1.1 ~ 1.5	-	PAD	400	620	667	12	13	22	51
	3.0	2.2 ~ 3.0	1.5	PAD	400					22	62
	4.0	4.0	2.2	PAD	400					32	74
	5.5 ~ 7.5	5.5 ~ 7.5	3.0 ~ 5.5	PAD	500					32	106
630	1.5 ~ 2.2	1.1 ~ 1.5	-	PAD	400	690	737	12	13	22	54
	3.0	2.2 ~ 3.0	1.5	PAD	400					22	65
	4.0	4.0	2.2	PAD	400					32	77
	5.5 ~ 9.2	5.5 ~ 9.2	3.0 ~ 5.5	PAD	500					32	109
710	-	1.1 ~ 1.5	-	PAD	400	770	817	16	13	22	59
	-	2.2 ~ 3.0	1.5	PAD	400					22	70
	-	4.0	2.2	PAD	400					32	82
	-	5.5 ~ 7.5	3.0 ~ 5.5	PAD	500					32	115

Donkin Fans reserves the right to change product specifications without prior notice.

Fan Size A	Direct Drive Fan Speed / Motor kW				B	C	D	F	G	J	Mass (Kg)
	2 Pole	4 Pole	6 Pole	Motor Mounting							
800	-	1.1 ~ 1.5	-	PAD	400	860	907	16	13	22	67
	-	2.2 ~ 3.0	1.5	PAD	400					22	78
	-	4.0	2.2	PAD	400					32	90
	-	5.5 ~ 9.2	3.0 ~ 5.5	PAD	500					32	156
	-	11.0	7.5	PAD	710					32	189
900	-	1.1 ~ 1.5	-	PAD	400	970	1039	16	13	22	87
	-	2.2 ~ 3.0	1.5	PAD	400					22	96
	-	4.0	2.2	PAD	400					32	110
	-	5.5 ~ 9.2	3.0 ~ 5.5	PAD	500					32	180
	-	11 ~ 15	7.5 ~ 11	PAD	630					32	200
1000	-	1.1 ~ 1.5	-	PAD	400	1070	1141	16	15	22	97
	-	2.2 ~ 3.0	1.5	PAD	400					22	108
	-	4.0	2.2	PAD	400					32	120
	-	5.5 ~ 9.2	3.0 ~ 5.5	PAD	560					32	196
	-	11 ~ 15	7.5 ~ 11	PAD	770					32	245
	-	18.5 ~ 22	15	PAD	770					32	300
	-	30	-	PAD	850					32	378
1250-H		11 ~ 15	7.5 ~ 11	Foot	800	1320	1392	20	15	2*33	380
		18.5 ~ 22	15	Foot	800					2*33	436
		30	18.5 ~ 22	Foot	850					2*33	522
		37 ~ 45	30	Foot	1000					2*33	707

Counter Flange



Fan Size	C	D	E	F	Mass (kg)
400	450	405	8	13	2.64
500	560	507	12	13	4.12
560	620	567	12	13	4.56
630	690	637	12	13	5.08
710	770	717	16	13	5.68
800	860	807	16	13	12.68
900	970	909	16	13	18.28
1000	1070	1011	16	15	20.70
1250	1320	1262	20	15	25.52

Donkin Fans reserves the right to change product specifications without prior notice.



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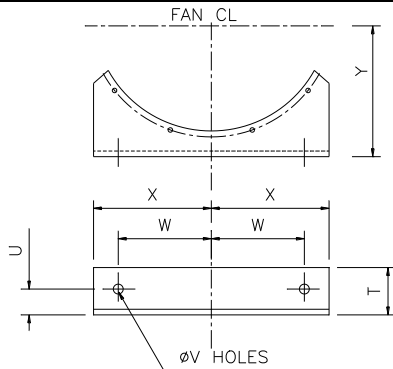


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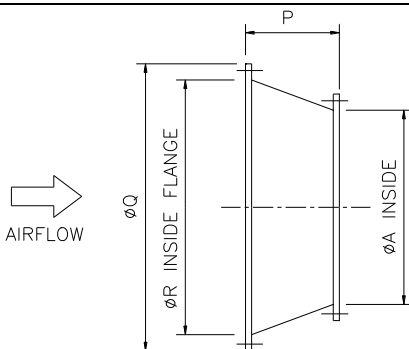
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Mounting Feet



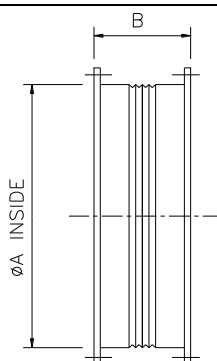
Fan Size	T	U	V	W	X	Y	Mass (kg)
400	40	22	13	162	180	285	0.59
500	40	22	13	232	250	355	1.28
560	39	22	13	232	250	385	1.91
630	39	22	13	262	280	420	2.20
710	39	22	13	282	300	465	2.21
800	39	22	13	332	350	518	3.81
900	54	30	15	355	380	595	4.86
1000	59	35	15	385	410	653	7.59
1250	60	35	15	525	555	812	13.05

Inlet Cone



Fan Size	P	Q	R	Mass (kg)
400	71	524	474	6.09
500	90	648	598	9.11
560	100	720	670	10.39
630	112	804	754	12.04
710	125	905	855	15.38
800	140	1006	956	17.85
900	162	1170	1090	31.18
1000	181	1286	1206	35.67
1250	224	1603	1503	50.41

Flexible Connection



Fan Size	B	Mass (kg)
400	120	2.77
500	120	4.33
560	120	4.79
630	120	5.33
710	120	5.96
800	120	13.31
900	120	19.19
1000	120	21.74
1250	160	26.80

Flexible connection prices includes a flanged flexible sleeve c/w a set of backing flanges.

Additional Accessories Available

- Inlet wire screen – bolt on to fan flange
- Discharge wire screen – bolt on to fan flange
- Inlet cone screen – bolt on to cone inlet flange
- Sound attenuators – see Silax brochure for details

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CENTJET Centrifugal Smoke Jet



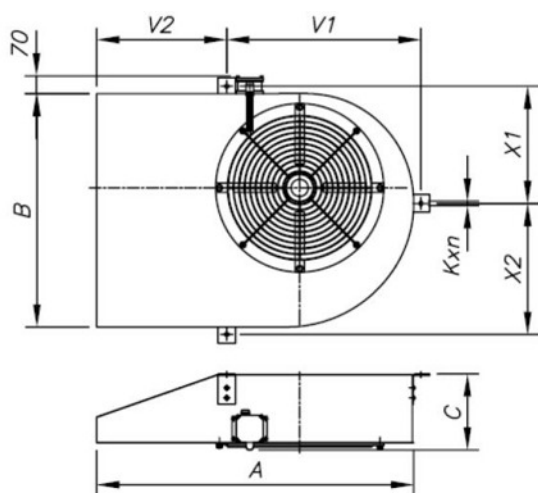
- Units available in single direction airflow only
- Very low vertical dimension
- Robust metal casing and steel impeller
- Available in single or dual speed
- Units are F300 rated and CE marked, suitable for 300°C / 120min operation
- Backward curved impellers for higher efficiency
- All models are coated with heat resistant paint
- Motors Class H, S1 and S2 cycle, IP55 protection, 2 speed
- Certified in accordance with EN-12101-3-2002

On special request;

- Special windings for different voltages

Technical Characteristics

Model	Speed	Full Load Amps @ 400V	Max Flow (m³/h)	Thrust (N)	Discharge Velocity (m/sec)	Installed Power (kW)	Sound Pressure at 10m dB(A)	Mass (kg)
CentJet-50	1430 / 705	2.92 / 1.29	6860 / 3420	50 / 13	21.9 / 10.9	1.20 / 0.30	78 / 63	79
CentJet-75	1430 / 700	4.84 / 1.00	9350 / 4675	75 / 19	24.1 / 12.1	2.20 / 0.55	85 / 70	120
CentJet-100	1430 / 710	8.80 / 2.75	11950 / 5975	100 / 25	25.0 / 12.5	4.00 / 1.00	89 / 74	217
CentJet-50-S	1440	2.53	6860	50	21.9	1.10	78	80
CentJet-75-S	1420	4.61	9350	75	24.1	2.20	85	120
CentJet-100-S	1430	7.62	11950	100	25.0	4.00	89	221



Model	CentJet-50	CentJet-75	CentJet-100
A	1263	1363	1800
B	929	1037.5	1161
C	299.5	351	385.5
V2	519	524	834.5
V1	774	868	994.5
X1	466	517	542.5
X2	521	578.5	618.5
K x n	12x20	12x20	18x25

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JETAX Circular Smoke Jet

JETAX - C



- Units available in single or dual airflow direction
 - Assembly consists of fan, silencers, deflectors and brackets
 - Safety screens in accordance with UNE 100250 on single direction models
 - Units are suitable for 300°C / 120min operation except where indicated in table below
 - Sheet metal casing and motor pedestal
 - Cast aluminium, variable pitch
 - Highly effective silencers with thermal and acoustic insulation
 - Certified in accordance with EN-12101-3-2002
 - Motors Class H, S1 and S2 cycle, IP55 protection, 2 speed
- On special request;*
- Special windings for different voltages
 - Fans designed for max operating 400°C

JETAX-C – Circular Smoke Fans

Technical Characteristics

Model	Speed	Full Load Amps @ 400V	Max Flow (m³/h)	Thrust (N)	Discharge Velocity (m/sec)	Installed Power (kW)	Sound Pressure at 10m dB(A)	Mass (kg)
Jetax-31-C *	2880 / 1420	1.25 / 0.45	4260 / 2130	21 / 5	15.6 / 7.8	0.55 / 0.11	51/36	5 7
Jetax-35-C *	2890 / 1415	1.90 / 0.70	6360 / 3180	36 / 9	17.8 / 8.9	0.85 / 0.20	52/37	6 1
Jetax-38-C *	2905 / 1440	2.50 / 0.90	8450 / 4225	57 / 15	20.7 / 10.3	1.10 / 0.25	47/32	8 5
Jetax-40-C	2905 / 1440	2.50 / 0.90	9250 / 4625	60 / 15	20.4 / 10.2	1.10 / 0.25	53/38	9 4
Jetax-45-C-2	2935 / 1450	3.80 / 1.20	10800 / 5400	62 / 15	18.1 / 9.0	1.5 / 0.37	57/42	125
Jetax-45-C-3	2910 / 1420	5.00 / 1.60	13200 / 6600	92 / 23	22.1 / 11.0	2.20 / 0.60	58/44	127
Jetax-50-C	2910 / 1440	8.50 / 3.00	19700 / 9850	165 / 41	26.4 / 13.2	4.50 / 1.30	60/46	210
Jetax-56-C	2920 / 1450	20.7 / 5.50	27900 / 13950	278 / 69	31.5 / 15.7	9.0 / 2.50	64/50	273
Jetax-63C	2965 / 1480	27.2 / 7.50	38800 / 19400	411 / 103	33.5 / 16.8	13.5 / 3.30	68/53	323
Jetax-71-C	1430 / 710	6.50 / 2.30	26600 / 13300	157 / 39	18.7 / 9.3	3.0 / 0.60	65/50	279
Jetax-31-C-R *	2880 / 1420	1.25 / 0.45	3840 / 1920	17 / 4	14.1 / 7.0	0.55 / 0.11	50/35	57
Jetax-35-C-R *	2890 / 1415	1.90 / 0.70	5940 / 2970	31 / 8	16.7 / 8.3	0.85 / 0.20	51/36	61
Jetax-38-C-R *	2935 / 1450	3.80 / 1.20	8200 / 4100	54 / 14	20.1 / 10.0	1.50 / 0.37	49/34	8 5
Jetax-40-C-R	2935 / 1450	3.80 / 1.20	9250 / 4625	60 / 15	20.4 / 10.2	1.50 / 0.37	52/37	9 4
Jetax-45-C-2-R	2935 / 1450	3.80 / 1.20	10300 / 5150	56 / 14	17.2 / 8.6	1.50 / 0.37	56/41	125
Jetax-45-C-3-R	2910 / 1420	5.00 / 1.60	12800 / 6400	87 / 22	21.4 / 10.7	2.20 / 0.60	57/43	127
Jetax-50-C-R	2910 / 1440	8.50 / 3.00	19000 / 9500	153 / 38	25.4 / 12.7	4.50 / 1.30	60/46	210
Jetax-56-C-R	2920 / 1450	20.7 / 5.50	27000 / 13500	261 / 65	30.5 / 15.2	9.00 / 2.50	63/49	273
Jetax-63C-R	2965 / 1480	27.2 / 7.50	37800 / 18900	390 / 98	32.6 / 16.3	13.5 / 3.30	67/52	323
Jetax-71-C-R	1430 / 710	6.50 / 2.30	26000 / 13000	150 / 37	18.2 / 9.1	3.0 / 0.60	64/49	279

* Models are suitable for 200°C / 2 hours

R – Reversible Units

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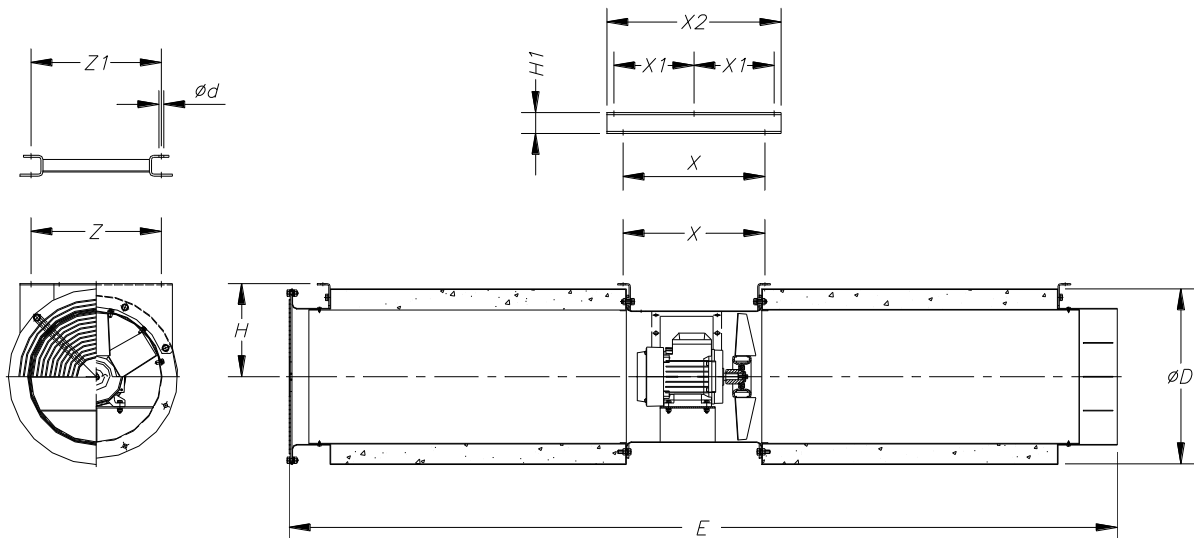
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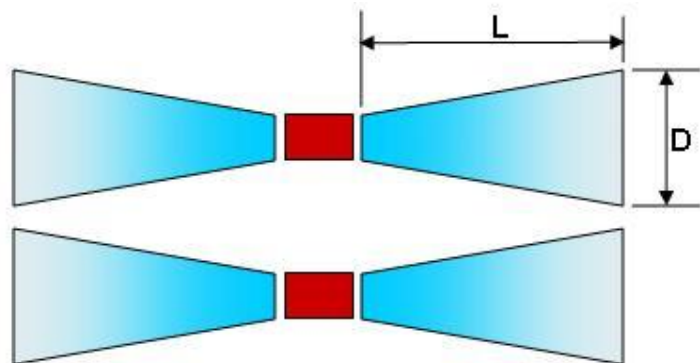


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	ØD	Ød	E (Uni)	E (Rev)	H	H1	X	X1	X2	X3	Z	Z1
Jetax-31-C	415	10	1956	2000	220	-	335	-	-	-	275	-
Jetax-35-C	460	12	1960	2005	250	-	336	-	-	-	300	-
Jetax-38-C	415	11	2570	2620	225	-	-	-	600	530	-	517
Jetax-40-C	510	12	2485	2540	280	-	368	-	-	-	400	-
Jetax-45-C	630	12	2500	2554	355	-	385	-	-	-	440	-
Jetax-50-C	710	12	2895	2950	410	80	508	320	700	-	380	370
Jetax-56-C	750	12	3145	3200	503	80	558	345	750	-	475	465
Jetax-63-C	800	14	3295	3350	435	80	706	418	900	-	550	540
Jetax-71-C	900	12	3145	3200	510	80	558	345	750	-	475	465

	D(m)	L(m)
Jetax-31-C	10	20
Jetax-35-C	12	24
Jetax-38-C	14	28
Jetax-38-R	14	28
Jetax-40-C	15	28
Jetax-40-R	15	28
Jetax-45-C	17	34
Jetax-50-C	21	42
Jetax-56-C	25	50
Jetax-63-C	30	60
Jetax-71-C	25	50



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JETAX Oval Smoke Jet

JETAX - O



- Units available in single or dual airflow direction
- Safety screens in accordance with UNE 100250 on single direction models
- Sheet metal casing and motor pedestal
- Cast aluminium, variable pitch
- Models are suitable for 200°C / 120minutes operation
- Highly effective silencers with thermal and acoustic insulation
- Certified in accordance with EN-12101-3-2002
- Motors Class H, S1 and S2 cycle, IP55 protection, 2 speed

On special request;

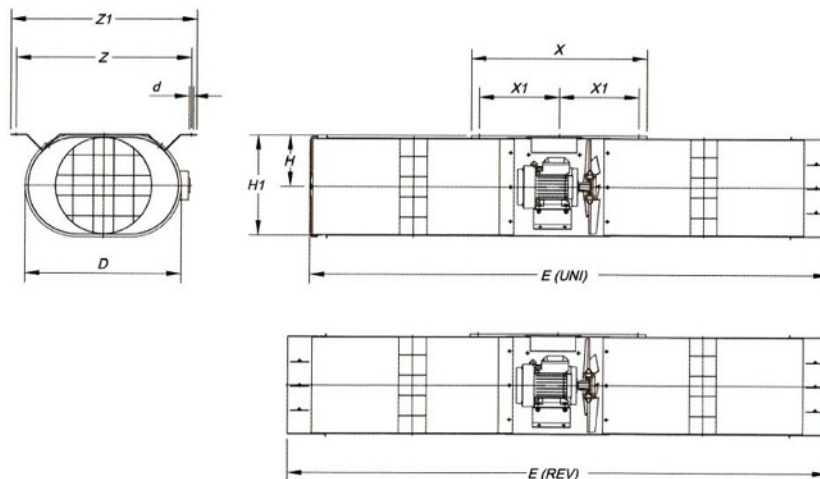
- Special windings for different voltages
- Fans designed for max operating 400°C

JETAX-O – Oval Smoke Fans

Technical Characteristics

Model	Speed	Full Load Amps @ 400V	Max Flow (m³/h)	Thrust (N)	Discharge Velocity (m/sec)	Installed Power (kW)	Sound Pressure at 10m dB(A)	Mass (kg)
Jetax-29-O	2880 / 1420	1.25 / 0.45	4000 / 2000	21 / 5	16.8 / 8.4	0.55 / 0.11	37 / 22	65
Jetax-35-O	2890 / 1415	1.90 / 0.70	6360 / 3180	36 / 9	17.8 / 8.9	0.85 / 0.20	52 / 37	61
Jetax-29-O-R	2880 / 1420	1.25 / 0.45	3400 / 1700	15 / 4	14.3 / 7.1	0.55 / 0.11	38 / 23	65
Jetax-35-O-R	2890 / 1415	1.90 / 0.70	5940 / 2970	31 / 8	16.7 / 8.3	0.85 / 0.20	51 / 36	61

R – Reversible Units



	ØD	Ød	E (Uni)	E (Rev)	H	H1	X	X1	Z	Z1
Jetax-29-O	460	12	2506	2600	160	310	700	330	550	590
Jetax-35-O	560	12	2005	2005	190	370	654	297	650	690

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Section L - Atex Fans

HCDF



HDF



C Series



E Series



Majax-2



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS



C Series ATEX Rated Centrifugal Exhaust Fan

Centrifugal exhaust fan, designed to exhaust air containing flammable gasses in applications with ducted systems.

Typical installation and uses would include store room, battery charging areas etc.

The range includes fans suitable for 400V 3Ph 50Hz power supply and operating conditions from -20°C ~ 40°C.



Construction

Manufactured with a steel casing and protected by means of a polyurethane coating. Forward curved Aluminium Impeller. Anti-Sparking brushed copper inlet cone fitted to the fan inlet.

Double coated galvanised steel wire screen protects the fan inlet, bolted to the fan casing for removal should the fan inlet be ducted.

Motor

All models are fitted with ball bearing motors with service life designed at 40 000hrs at non-stop operating conditions. Motors are ATEX rated with IP65 protection.

ATEX Ratings

All models are ATEX Certified, asynchronous induction motors. Metal Glands fitted for ATEX certified electrical connection.

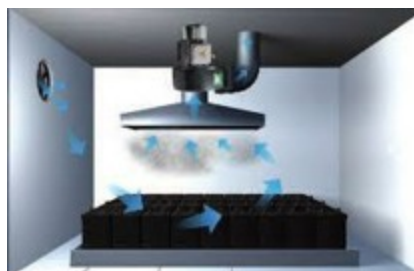
C-Series fans are constructed in compliance with EN 14986 standards, governing the design of fans operating in potentially explosive areas.

Certification – IMQ 10 ATEX 029X

GR II Cat 2G/D b T4/135X

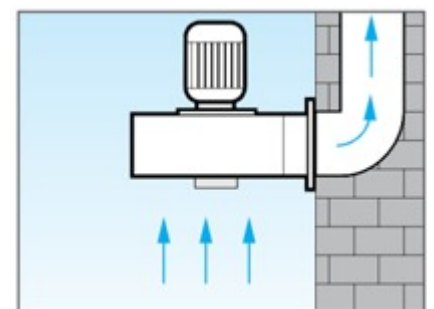
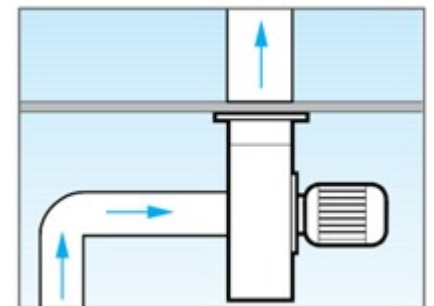
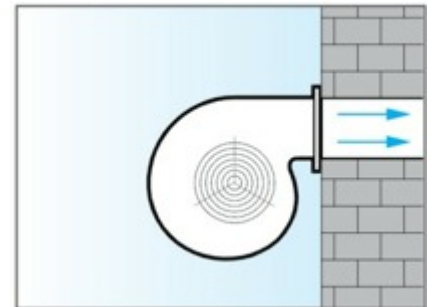
Speed Control

Motor speed control is not available on ATEX rated equipment.



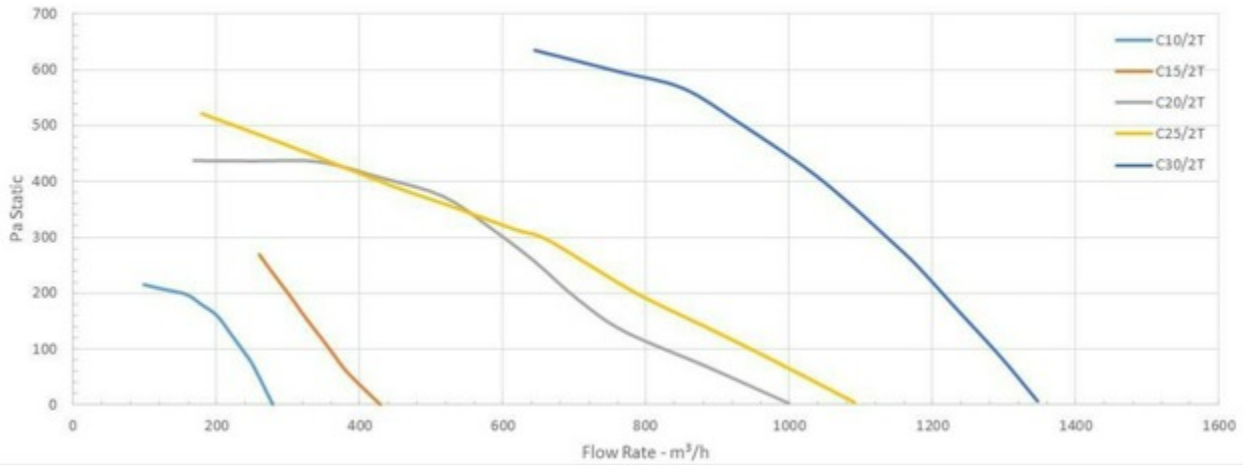
Installation

The fan C-series is designed for indoor or outdoor installations, suitable for open or ducted inlet and discharge connections.

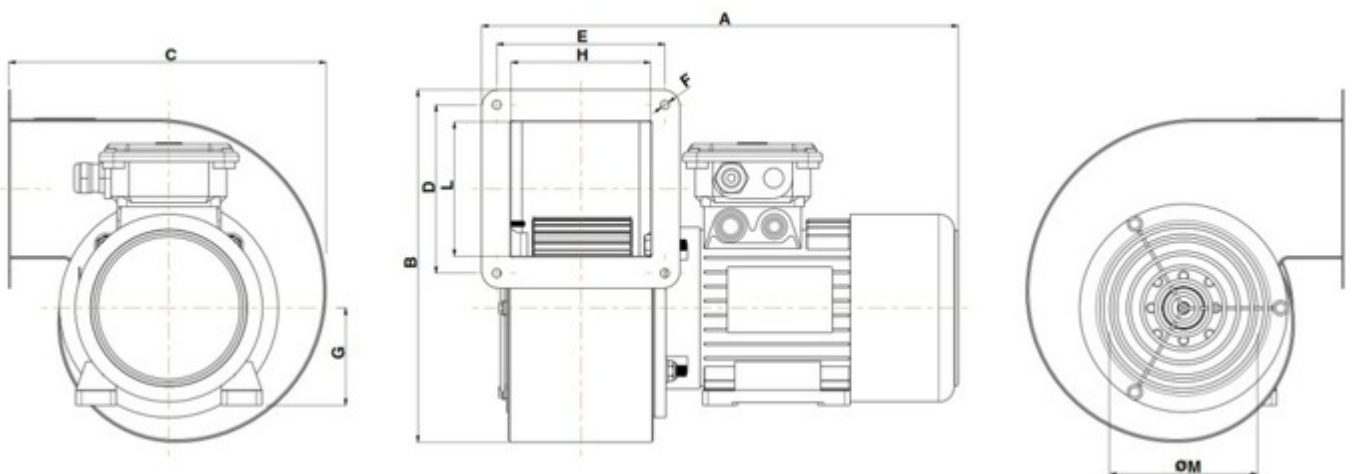
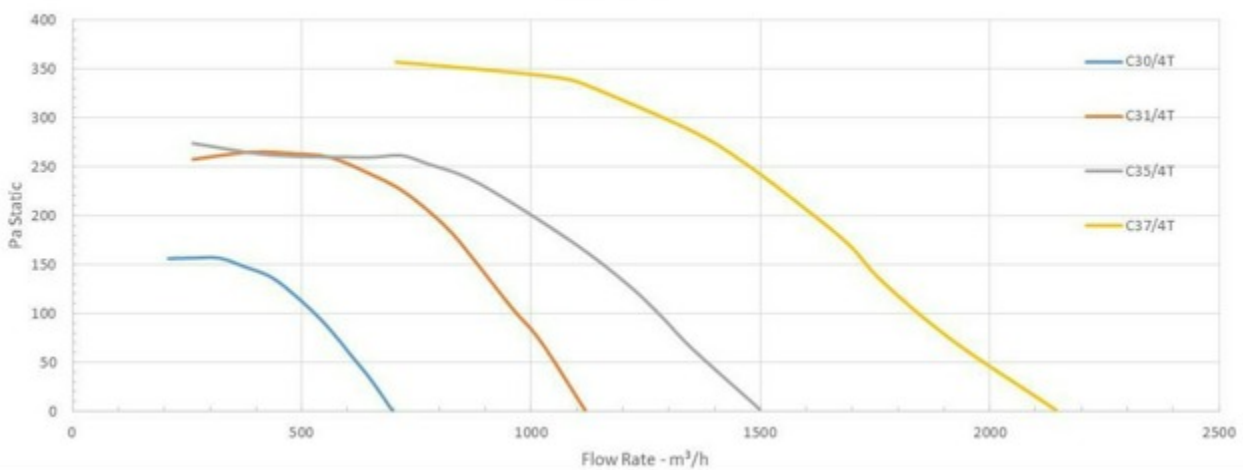




C Series - 2P



C Series - 4P





Dimensions

	A	B	C	D	E	F	G	H	L	ØM
C10/2T	260	186	171	72	82	6.5	56	68	63	80
C15/2T	280	234	206	108	100	7	56	83	88	108
C20/2T	350	258	232	123	123	8.5	71	102	98	108
C25/2T	365	258	232	124	142	8.5	71	115	98	108
C30/2T	365	308	272	126	137	8.5	71	117	108	132
C30/4T	365	308	272	126	137	8.5	71	117	108	132
C31/4T	365	400	340	164	139	8.5	71	112	137	170
C35/4T	400	400	340	164	174	8.5	71	149	137	170
C37/4T	425	471	416.5	220	182	8.5	80	149	187	199

Technical Data

	Power	Watts (W)	Amps (A)	Max Flow (m³/h)	Rpm	Noise dBa @ 3m	Max Temp °C	IP	Mass (kg)
C10/2T	400/3/50	120	0.36	280	2800	55.5	40	65	4.0
C15/2T	400/3/50	175	0.39	430	2800	59.0	40	65	4.5
C20/2T	400/3/50	472	1.09	1000	2800	66.0	40	65	8.5
C25/2T	400/3/50	482	1.10	1100	2800	66.5	40	65	8.5
C30/2T	400/3/50	902	1.57	1350	2800	71.0	40	65	10.0
C30/4T	400/3/50	226	0.95	700	1400	55.0	40	65	7.5
C31/4T	400/3/50	375	1.01	1120	1400	61.0	40	65	10.5
C35/4T	400/3/50	401	1.02	1500	1400	61.0	40	65	11.5
C37/4T	400/3/50	803	1.80	2150	1400	70.0	40	65	17

Optional Accessories

-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-





**FAN
MOVEMENT**

AIR AND GAS MOVEMENT SOLUTIONS

Technical Specifications

E - ATEX wall mounted exhaust series



The form of flow is form A, suitable for mounting indoors, discharging air to the outside.

E-Series models are also mountable in square ducting for ducted system design.

E Series ATEX Rated Plate Mounted Exhaust Fan

Plate mounted exhaust fan, designed to exhaust air containing flammable gasses.

Typical installation and uses would include store room, battery charging areas etc.

The range includes fans suitable for 230V 1Ph 50Hz & 400V 3Ph 50Hz power supply and operating conditions from -20°C ~ 40°C.



Construction

Manufactured with a steel casing and protected by means of a polyurethane coating. Our impeller consist of an aluminium hub, fitted with fixed pitch antistatic nylon filled glass fibre blades.

Motors

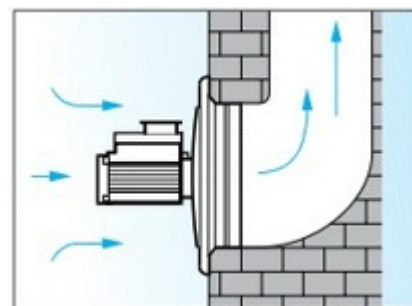
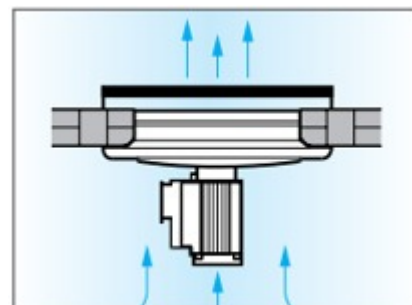
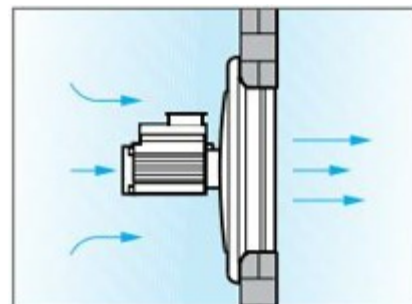
All models are fitted with ball bearing motors with service life designed at 40 000hrs at non-stop operating conditions. Motors are ATEX rated with IP65 protection.

ATEX Ratings

All models are ATEX Certified, asynchronous induction motors. Metal Glands fitted for ATEX certified electrical connection.

E-Series fans are constructed in compliance with EN 14986 standards, governing the design of fans operating in potentially explosive areas.

Certification – IMQ 10 ATEX 029X
GR II Cat 2G/D b T4/135X



Speed Control

Motor speed control is not available on ATEX rated equipment.

Installation

The fan series is designed for indoor surface wall mounting and protected from the outside by means of a weather louvre, louvre shutter or appropriate wall cowl.



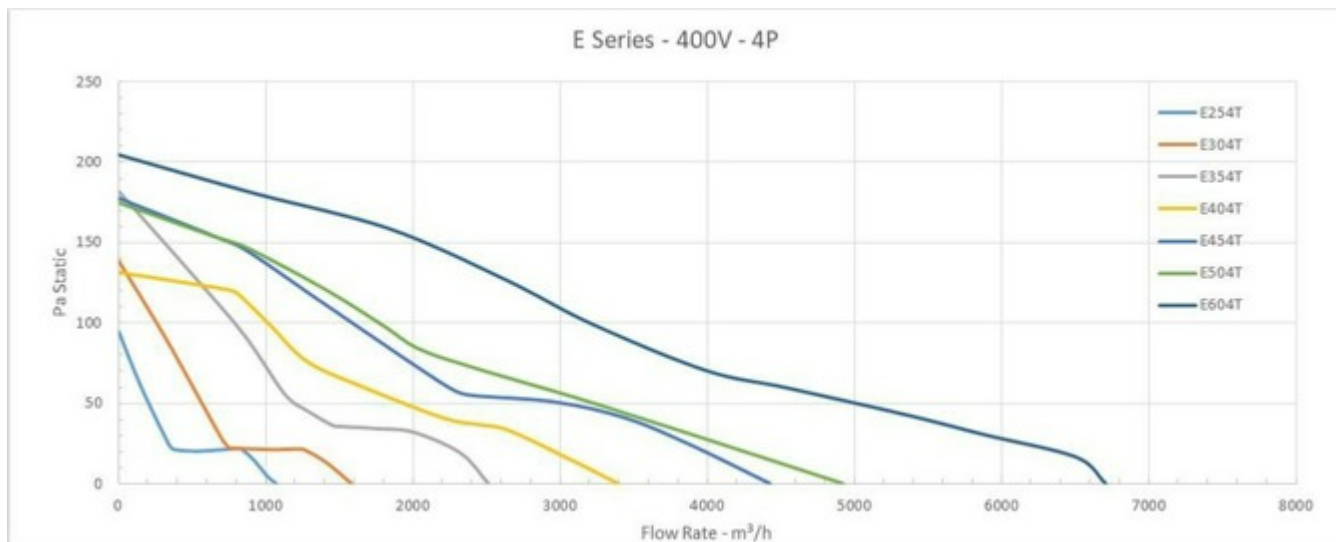
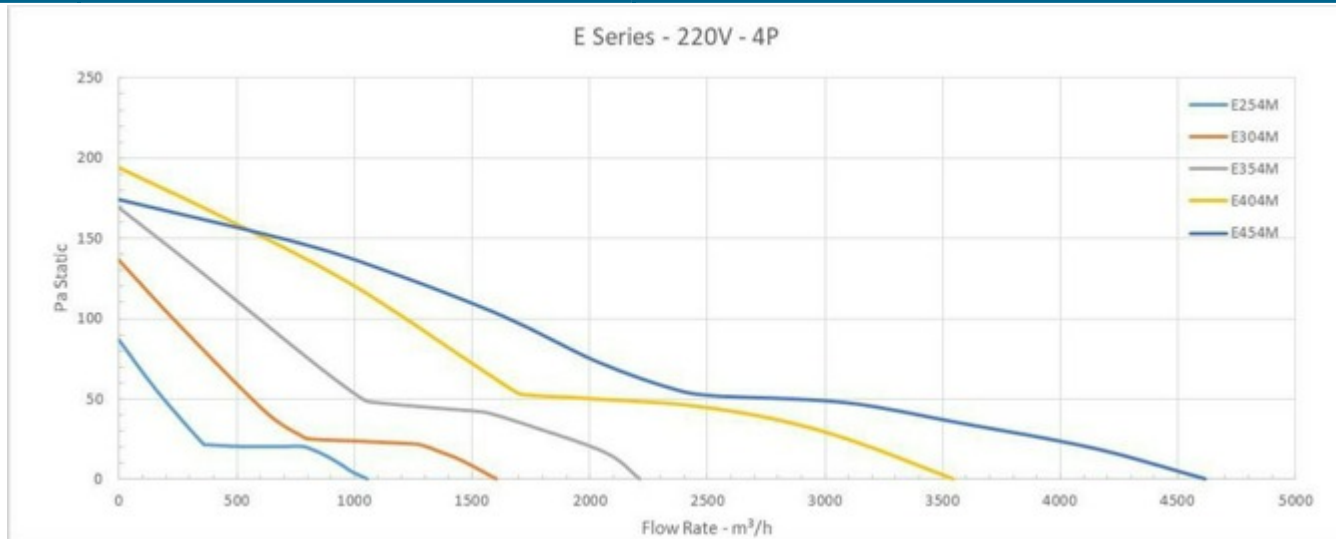
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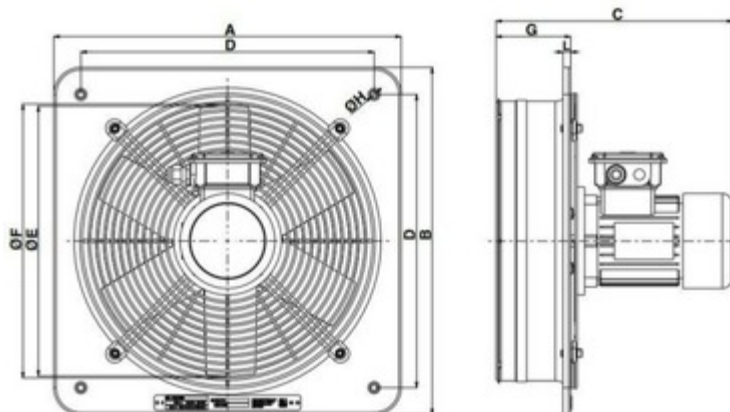
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Dimensions

	ØNom	A	B	C	D	ØE	ØF	G	ØH	L
E254M & T	250	320	320	305	280	256	250	95	8	10
E304M & T	315	380	380	307	330	308	300	97	8	10
E354M & T	355	450	450	307	380	360	350	97	8	10
E404M & T	400	510	510	327	430	410	400	117	12	15
E454M & T	450	630	630	325	530	460	448	112	12	15
E504T	500	630	630	325	530	510	498	112	12	15
E604T	630	760	760	340	630	610	598	127	12	15





Technical Data

	Power	Watts (W)	Amps (A)	Max Flow (m³/h)	Rpm	Noise dBa @ 3m	Max Temp °C	IP	Mass (kg)
E254M	230/1/50	167	0.75	1040	1400	63.2	40	65	8.0
E304M	230/1/50	175	0.77	1600	1400	59.6	40	65	8.8
E354M	230/1/50	204	0.97	2220	1400	66.0	40	65	9.5
E404M	230/1/50	294	1.27	3550	1400	62.0	40	65	11.5
E454M	230/1/50	346	1.50	4634	1400	70.0	40	65	14.0
E254T	400/3/50	121	0.49	1050	1400	59.6	40	65	7.0
E304T	400/3/50	162	0.53	1585	1400	62.0	40	65	8.0
E354T	400/3/50	208	0.50	2550	1400	66.0	40	65	8.8
E404T	400/3/50	268	0.61	3480	1400	64.8	40	65	10.5
E454T	400/3/50	345	0.70	4443	1400	69.8	40	65	13.6
E504T	400/3/50	293	0.64	4900	1400	72.7	40	65	13.6
E604T	400/3/50	374	0.71	6900	1400	75.4	40	65	18.0

Optional Accessories

Gravity Shutter	Wall Cowl	Weather Louvre			
					
On Request	On Request	On Request			

Arrangement: Wall-Mounted Type: Axial Fans - Flameproof

HCDF FANS



- Aluminium sheet frame (to avoid sparks).
- Cast aluminium impeller (to avoid sparks).
- 230/400 V 50Hz (EEx-d) II BT4 motor in compliance with standard EN 50014 and EN 50018, officially ATEX approved. IP-55 protection and class F insulation.
- Anticorrosive finish in polyester resin, polymerised at 180°C, after degreasing, phosphating and passivation pre-treatment.
- Stuffing-box included.
 - On request the following can be supplied:
 - CE Mark Ex II 2 D Eex D

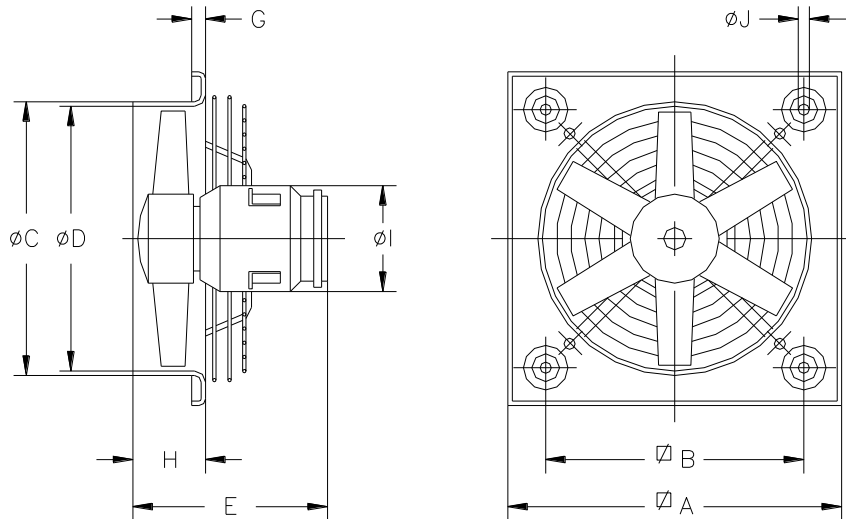
HCDF Wall Mounted Fans

Technical Characteristics

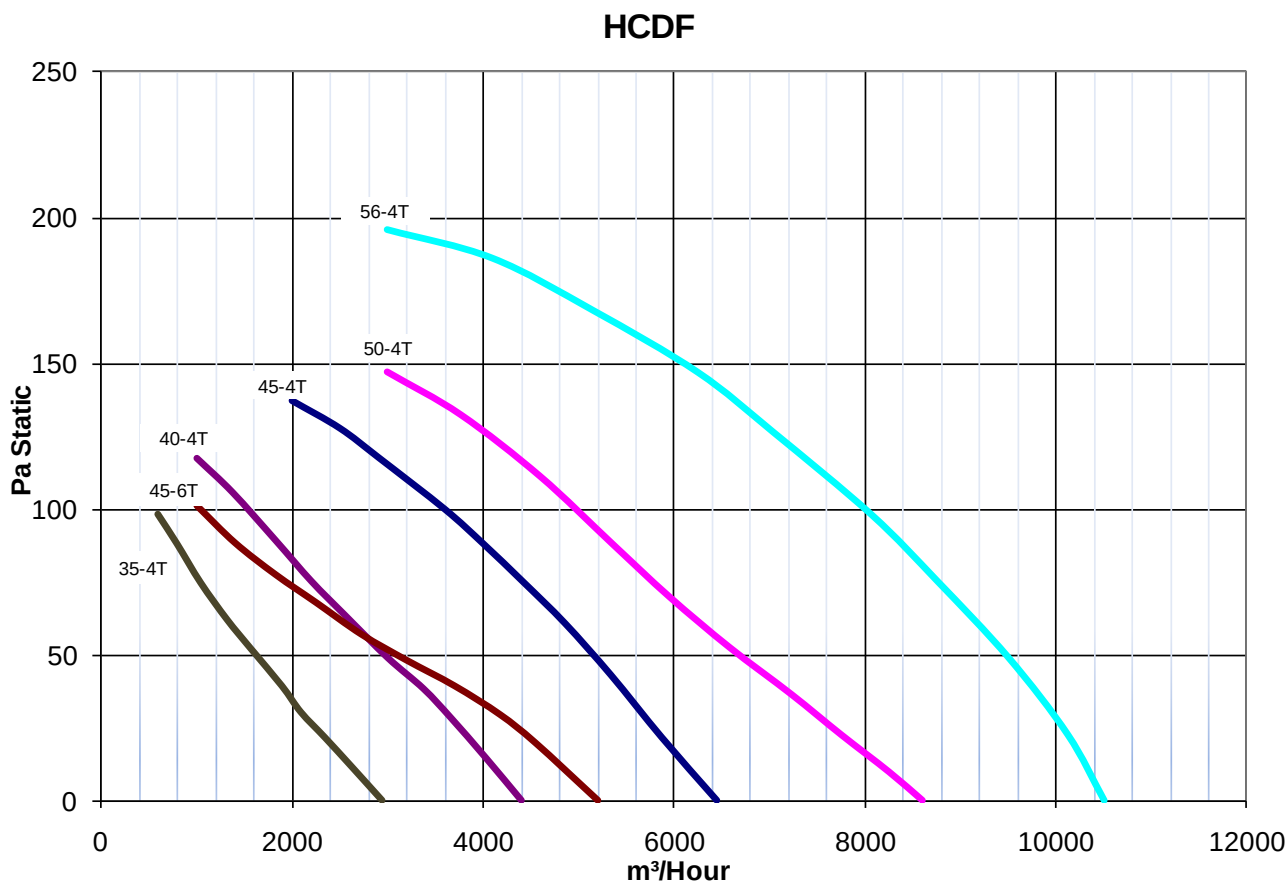
Model	Speed	Full Load current (A)			Installed Power (kW)	Max Airflow m³/hour	Sound pressure level dB(A) ¹	Approximate Mass (Kg)
		230V	400V	690V				
HCDF 35-4T	1370	0.78	0.45	-	0.09	2950	58	8.5
HCDF 40-4T	1420	1.30	0.75	-	0.25	4400	63	12.5
HCDF 45-4T	1420	1.30	0.75	-	0.25	6450	66	14.5
HCDF 45-6T	925	0.95	0.55	-	0.12	5200	57	14.5
HCDF 50-4T	1390	1.73	1.00	-	0.37	8600	69	16.5
HCDF 56-4T	1390	3.08	1.78	-	0.55	10500	72	36.5

Acoustic Characteristics

Note 1) Sound pressure levels in dB(A), assumed free field hemispherical radiation, at a distance equivalent to twice the fan span plus the impeller diameter, with a minimum of 1.5m								
	63	125	250	500	1000	2000	4000	8000
HCDF 35-4T	29	44	63	62	63	62	57	48
HCDF 40-4T	34	49	68	67	68	67	62	53
HCDF 45-4T	37	52	71	70	71	70	65	56
HCDF 45-6T	28	43	62	61	62	61	56	47
HCDF 50-4T	43	57	76	76	77	75	71	62
HCDF 56-4T	46	60	79	79	80	78	74	65



Model Number	A(sq)	B(sq)	$\varnothing C$	$\varnothing D$	E	G	H	$\varnothing J$	$\varnothing I$
HCDF 35-4T	465	390	362.5	360	245	11	50	10.5	132
HCDF 40-4T	532	452	412.5	410	265	11	70	10.5	132
HCDF 45-4T	596	504	462.5	460	262	11	70	10.5	132
HCDF 45-6T	596	504	462.5	460	262	11	70	10.5	132
HCDF 50-4T	665	562	516.5	514	262	11	70	10.5	162
HCDF 56-4T	710	630	563	560	370	15	105	10.5	162



Optional Accessories

Aluminium Louvre Shutter	
Galvanised Steel Cowl & Screen (Also available in GRP)	



**FAN
MOVEMENT**

AIR AND GAS MOVEMENT SOLUTIONS



Arrangement: Wall-Mounted Type: Axial Fans - Flameproof

HDF FANS



HDF Wall Mounted Fans

- Aluminium sheet frame (to avoid sparks).
- Cast aluminium impeller (to avoid sparks).
- 230/400 V 50Hz (EEx-d) II BT4 motor in compliance with standard EN 50014 and EN 50018, officially ATEX approved. IP-55 protection and class F insulation.
- Anticorrosive finish in polyester resin, polymerised at 180°C, after degreasing, phosphating and passivation pre-treatment.
- Stuffing-box included.
 - On request the following can be supplied:
 - CE Mark Ex II 2 D Eex D

Technical Characteristics

Model	Speed	Full Load current (A)			Installed Power (kW)	Max Airflow m ³ /hour	Sound pressure level dB(A) ¹	Approximate Mass (Kg)
		230V	400V	690V				
HDF 63-4T	1415	4.50	2.60	-	1.1	15 100	76	49.0

Acoustic Characteristics

Note 1) Sound pressure levels in dB(A), assumed free field hemispherical radiation, at a distance equivalent to twice the fan span plus the impeller diameter, with a minimum of 1.5m

	63	125	250	500	1000	2000	4000	8000
HDF 63-4T	52	66	85	85	86	84	80	71



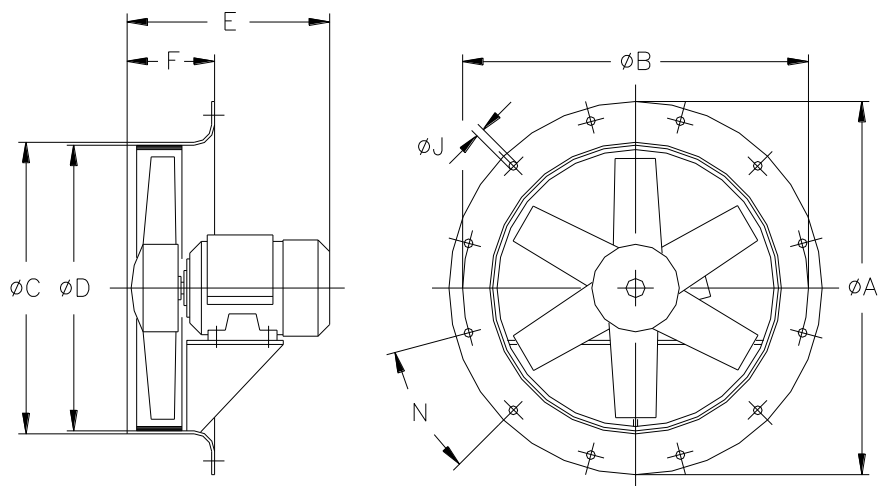
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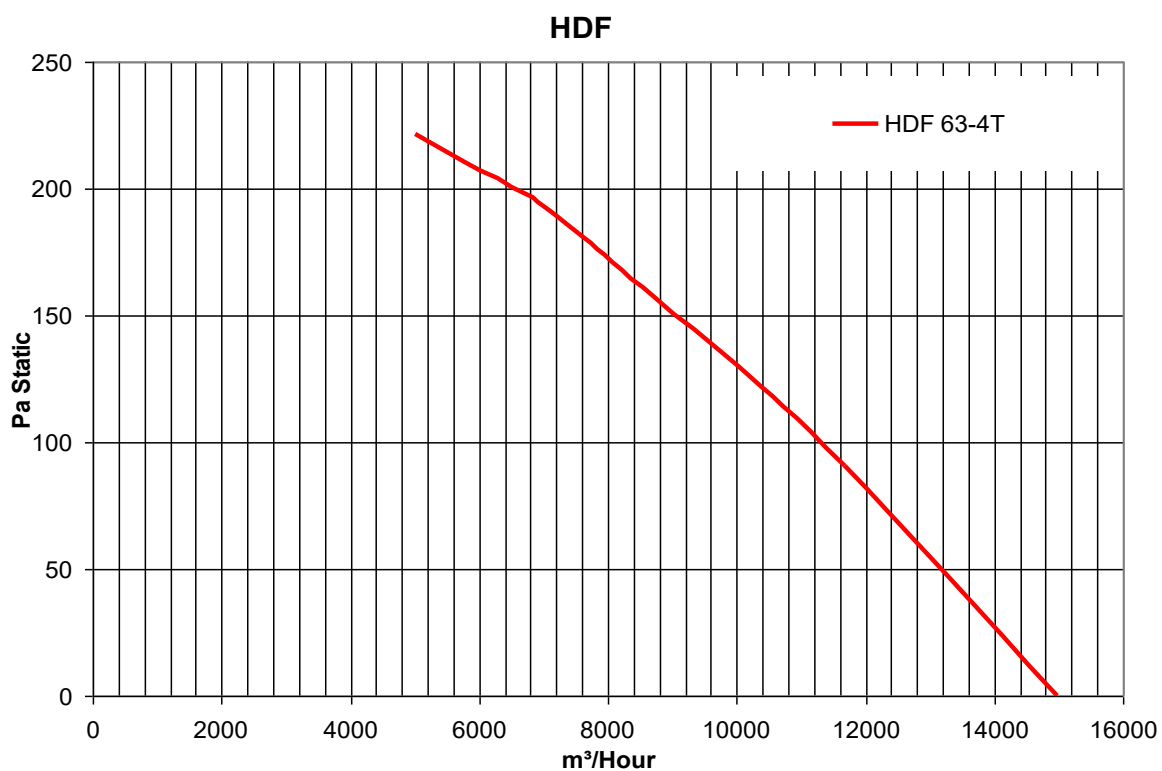
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Model Number	A(Ø)	B(Ø)	C(Ø)	D	E	F	J(Ø)	N
HDF 63-4T	730	690	645	640	370	150	12	12 X 30°



Majax-2 Long Cased Axial Direct Driven



- Fans fitted with IP55 TE Class F electric motors.
- Motors wired to external fixed terminal box.
- PAD mounted motors are mounted on internal anti-vibration mounts.
- Variable pitch impeller blades.
- Range covers sizes from 315 to 2250mmØ
- Aerofoil aluminium blades in pressed steel hub
- Fans are selected from Majax-2 performance curves or Donkin Fan selection program
- Impellers dynamically balanced to ISO 1940 – G6.3
- Operating temperature 0°C to 40°C
- *On special request;*
 - Other voltages, finishes and material
 - Impellers available in Fabricated fixed pitch arrangement
 - Dual directional airflow

Majax-2 axial flow fans are manufactured in diameters ranging from 315 to 2000mm (2250mm Diameter on special request) and incorporate manually adjustable pitch aluminium bladed impellers.

Applications

This range of fans is ideally suited for moving large volumes of air against low and medium pressures in the following typical applications:

- General Ventilation: kitchen canopies, supermarkets, airport buildings, underground car parks, stairwell pressurization, gymnasiums, stadium cloak rooms, industrial buildings etc.
- Air-conditioning
- Smoke control and exhausting heat from buildings
- Condenser cooling
- Cooling towers

Combinations of motor speeds, impellers blade pitch settings and the number of blades per impeller (Full and half solidity), provide flexibility in terms of selection. Fans offering good efficiencies can be selected over a range of volumes from 0.1m³/sec to over 100m³/sec at pressures up to 1000 Pa.

Sizes

Sizes vary in accordance with the preferred increments covered in ISO 497-1973(E) R20. These sizes are:

315, 400, 500, 560, 630, 710, 800, 900, 1000, 1250, 1600, 2000 & 2250mm Diameters.

Impellers

Impellers incorporate die-cast aluminium alloy blades of aerofoil section, which are clamped in split steel hubs. (Majax-2 1250-H impellers have split aluminium hubs)

Blade pitch adjustment is achieved by slackening the hub clamp bolts and setting the blades to the required pitch prior to re-tensioning the clamp bolts.

Majax-2 315 to 1250-F impeller hubs are electro coated, Majax-2 1250-H hubs are cast aluminium and Majax-2 1600, 2000 & 2250 hubs are fabricated and hot dip galvanized. All aluminium surfaces are left natural. Fasteners used are zinc plated.

Balancing

Impellers are dynamically balanced to ISO 1940 grade G6,3.

Fan Movement reserves the right to change product specifications without prior notice.

Casings

Standard casing lengths (SL) usually cover the impeller and motor assemblies. External terminal boxes are provided on the casings of fans fitted with standard totally enclosed motors. Casings incorporate viewing ports unless access panels are provided.

Flange Dimensions and Drillings

Flange dimensions and drillings are in accordance with BS 6339, see dimension table for details.

Casing Finish

Casings are Hot Dip Galvanised to ISO 1461. All fasteners used are zinc plated.

Motors

Motor frame size up to and including 160 are generally pad mounted motors. All other applications foot mounted motors are used. Pad and Foot mounted motors are totally enclosed with minimum IP55 protection. Standard motors have Class F insulation. Standard voltages are 400V 3Ph 50Hz and 220V 1Ph 50Hz. Electrical performance complied with IEC 34. Motors with non-standard classes of insulation, special grease for low / high temperature, flameproof construction, special voltages, multi-speed, etc are available on application.

Motor Supports

Fans up to size 1000, fitted with pad mounted motors up to frame 132, have motors mounted on plates suspended in rubber mountings to minimize noise and vibration. Bigger pad mounted motors are mounted by means of support rods.

Temperature Limitations

Majax-2 fans are suitable for operating within the following temperature ranges:

- *Standard direct driven fans:* 0 °C ~ +40°C

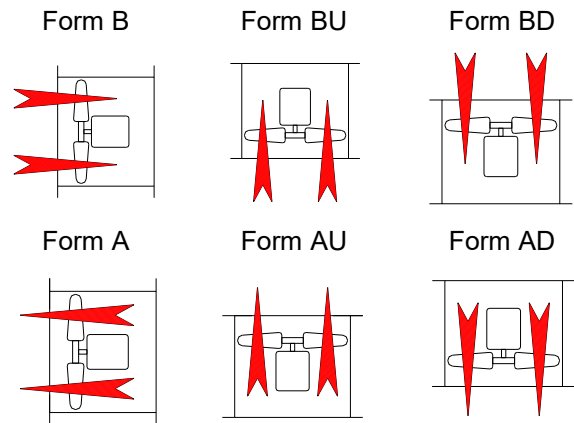
Operating temperatures outside these limits are available upon special request.

Bearing Life

2 pole units are designed to have a 20 000 hour statistical bearing life. 4,6 and 8 pole units are designed to have a 20 000 hour (vertical installation) and 40 000 hrs (Horizontal installation) statistical bearing life.

Direction of Air Flow

Standard form of airflow would be form B, BU and BA, having motors mounted downstream of the impellers.



Forms A, AU and AB are standard arrangements for belt driven fans, having the bearing and drive assembly mounted upstream of the fan impellers. These forms can also be used on direct driven fans.

Mechanical details and bearing selection on all Majax-2 fans are suitable for any of these attributes.

Moisture Treatment

Standard fans are suitable for continuous operation in relative humidities up to 95%. Special treatment of fans is available to render them suitable for continuous operation in moisture laden atmospheres. This procedure involves additional mechanical and electrical sealing procedures.

Performance

All performance data is based on tests carried out in accordance with BS 848: Part 1 – test method No 1. Ratings are based on standard air density of 1.2kg/m³ corresponding to an air temperature of 20°C, a barometric pressure of 101.325 kPa and a relative humidity of 62%.

Power values given reflect fan shaft power without provision for drive losses.

Fan Movement reserves the right to change product specifications without prior notice.

Reversal of Air Flow

The direction of airflow of a standard impeller can be reversed by changing the direction of fan rotation. Equal volume flow in either direction can be provided by means of special blade adjustments. The approximate resultant fan performance for the above conditions when compared with standard fan performance is as follows: (Table 1)

	Standard Impeller	Reversible Impeller
Volume Reduction	30%	15%
Pressure Reduction	55%	25%
Power Reduction	25%	20%

Table 1.

Sound Data

The sound data indicated on the performance graphs are "in-duct" values obtained from tests conducted in accordance with BS 848: Part 2 – In-duct method. The higher values on the sound level contours are overall sound power levels (suffixed dBW), and the lower levels are average sound pressure levels, under free field conditions, at a distance of 3 impeller diameters from the fan inlet or outlet. Sound power levels are given in decibels re: 10^{-12} Watts. Sound pressure levels are given in decibels re: 2×10^{-5} Pa.

An octave band analysis can be obtained by subtracting the spectrum constants, tabulated on each performance curve, from the overall sound levels.

A-Scale levels are obtained by subtracting an A-scale correction constant, given on each performance graph, from the overall sound level.

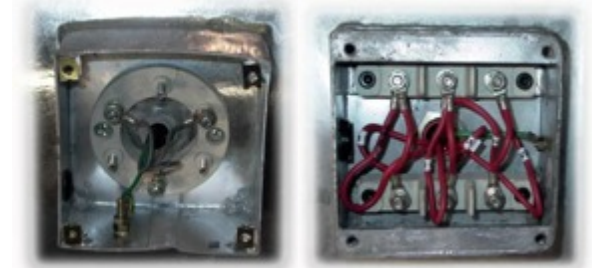
"Free-field" sound levels incorporating inlet / outlet end reflection losses, are obtained by subtracting the constants (indicated on table 2) from the "In-duct" octave band sound levels.

Alternatively refer to Donkin Fan selection software.

Fan Size	Octave Band Mean Frequency				
	63	125	250	500	1000+
315	14	9	5	2	0
400	13	8	3	1	0
500	11	6	2	0	0
560	10	5	2	0	0
630	9	5	1	0	0
710	8	4	1	0	0
800	7	3	1	0	0
900	6	2	1	0	0
1000	6	1	0	0	0
1250	5	1	0	0	0
1600	3	0	0	0	0
2000	2	0	0	0	0

Table 2.

Typical External Terminal Box



Optional Features

Mounting feet, counter flanges, wire screens, conical inlet cones (bolt-on and integral), anti-vibration mounts, casing access panels and flexible connections.

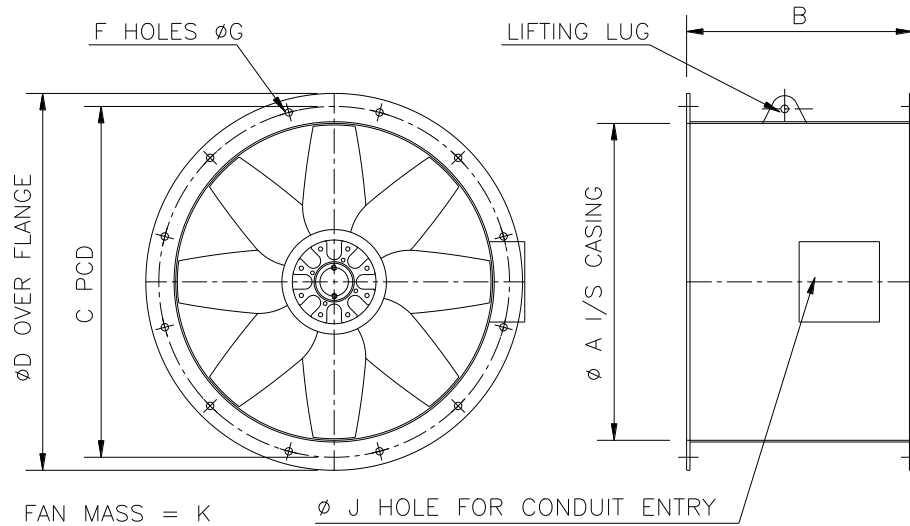
Manual, motorized or airstream operated dampers.

Matching size cylindrical sound attenuators.

Non-standard casing lengths.

Special protective coatings.

Fan Movement reserves the right to change product specifications without prior notice.



Fan Size A	Direct Drive Fan Speed / Motor kW				B	C	D	F	G	J	Mass (Kg)
	2 Pole	4 Pole	6 Pole	8 Pole							
315	0.25~0.75	0.08~0.55	0.06~0.55	-	315	355	380	8	11	22	27
400	0.55~2.2	0.18~0.55	0.12~0.55	-	400	450	485	8	13	22	38
500	0.75~2.2	0.18~1.5	0.12~0.55	-	400	560	607	12	13	22	47
	3.0~4.0	-	-	-							75
560	1.1~2.2	0.37~1.5	0.12~0.55	-	400	620	667	12	13	22	44
	3.0~4.0	-	-	-	400						79
	5.5~7.5	-	-	-	500						110
630	-	0.37~1.5	0.12~1.1	-	400	690	737	12	13	22	47
	3.0~4.0	2.2~3.0	-	-	400					22	81
	5.5~7.5	-	-	-	500					22	116
	11.0	-	-	-	630					34	167
710	-	0.55~1.5	0.55~1.2	0.25	400	770	817	16	13	22	54
	-	2.2~4.0	1.5~2.2	0.75~1.5	400						89
	-	5.5~7.5	3.0~5.5	-	500						123
800	-	0.75~1.5	0.55~1.1	0.25	400	860	907	16	13	22	64
	-	2.2~4.0	1.5~2.2	0.75~1.5	400					22	98
	-	5.5~7.5	3.0	-	500					22	123
	-	11.0	-	-	710					34	223

Fan Movement reserves the right to change product specifications without prior notice.

Fan Size A	Direct Drive Fan Speed / Motor kW				B	C	D	F	G	J	Mass (Kg)
	2 Pole	4 Pole	6 Pole	8 Pole							
900	-	1.1~1.5	0.55~1.1	-	400	970	1039	16	13	22	86
	-	2.2~4.0	1.5~2.2	0.75~1.5	400					22	123
	-	5.5~7.5	3.0~5.5	2.2~3.0	500					22	160
	-	11.0~15.0	-	-	630					34	233
1000	-	-	1.1	-	400	1070	1141	16	15	22	94
	-	3.0~4.0	1.5~2.2	0.75~1.5	400					22	133
	-	5.5~7.5	3.0~5.5	2.2~3.0	560					22	180
	-	11.0~15.0	7.5~11.0	4.0	770					34	279
	-	18.5~22.0	-	-	770					34	337
1250-H	-	-	3.0~5.5	-	560	1320	1392	20	15	22	300
	-	11.0~15.0	7.5~11.0	-	800					34	420
	-	18.5~22.0	15	-	800					34	480
	-	30.0	18.5~22.0	-	850					42	540
	-	37.0~45.0	30	-	1000					*1	670
	-	55.0~75.0	-	-	1000					*1	879
	-	90	-	-	1120					*1	1112
1250-F	-	-	2.2	1.1~1.5	560	1320	1392	20	15	22	195
	-	-	3.0~5.5	2.2~3.0	560					22	243
	-	-	7.5~11.0	4.0~7.5	800					34	363
	-	-	15	11.0	800					34	418
	-	-	18.5~22	-	850					42	478
1600	-	-	11.0	4.0~7.5	740	1680	1743	24	19	34	514
	-	-	15.0	11.0	740					34	572
	-	-	18.5~22.0	15.0	990					42	708
	-	-	30	18.5~22.0	1190					*1	905
	-	-	37.0~45.0	30.0~37.0	1190					*1	1072
	-	-	55.0~75.0	-	1490					*1	1313
2000	-	-	-	11.0	740	2080	2173	24	19	34	737
	-	-	-	15.0	990					42	883
	-	-	-	18.5~22.0	1190					*1	1127
	-	-	-	30.0~37.0	1190					*1	1274
	-	-	-	45.0~55.0	1490					*1	1593
	-	-	-	75.0	1490					*1	1806

1) Terminal Boxes are supplied with a 180*90mm cut out, covered with a bolt on cover for onsite drilling of the cable entry.



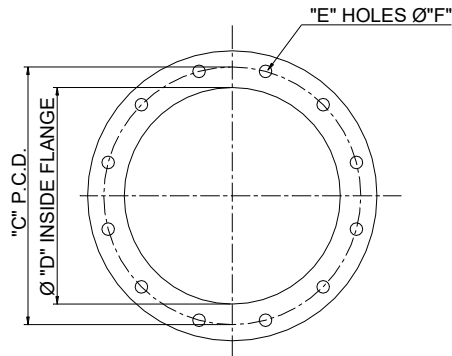


**FAN
MOVEMENT**

AIR AND GAS MOVEMENT SOLUTIONS

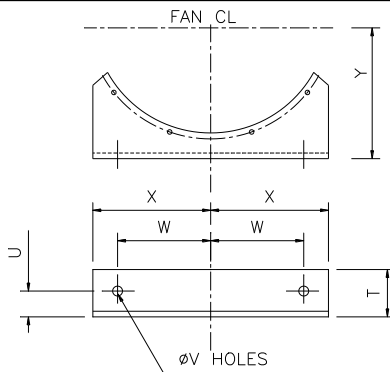
Majax-2 Long Cased

Counter Flange



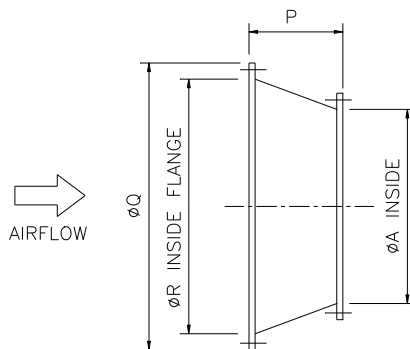
Fan Size	C	D	E	F	Mass (kg)
315	355	320	8	11	1.52
400	450	405	8	13	2.64
500	560	507	12	13	4.12
560	620	567	12	13	4.56
630	690	637	12	13	5.08
710	770	717	16	13	5.68
800	860	807	16	13	12.68
900	970	909	16	13	18.28
1000	1070	1011	16	15	20.70
1250	1320	1262	20	15	25.52
1600	1680	1613	24	19	32.28
2000	2080	2013	24	19	49.56

Mounting Feet



Fan Size	T	U	V	W	X	Y	Mass (kg)
315	35	20	11	125	140	240	0.41
400	40	22	13	162	180	285	0.59
500	40	22	13	232	250	355	1.28
560	39	22	13	232	250	385	1.91
630	39	22	13	262	280	420	2.20
710	39	22	13	282	300	465	2.21
800	39	22	13	332	350	518	3.81
900	54	30	15	355	380	595	4.86
1000	59	35	15	385	410	653	7.59
1250	60	35	15	525	555	812	13.05
1600	75	40	19	590	625	1035	20.54
2000	75	40	19	790	825	1234	29.19

Inlet Cone



Fan Size	P	Q	R	Mass (kg)
315	56	422	372	3.99
400	71	524	474	6.09
500	90	648	598	9.11
560	100	720	670	10.39
630	112	804	754	12.04
710	125	905	855	15.38
800	140	1006	956	17.85
900	162	1170	1090	31.18
1000	181	1286	1206	35.67
1250	224	1603	1503	50.41
1600	280	2050	1920	89.09
2000	355	2537	2407	142.22



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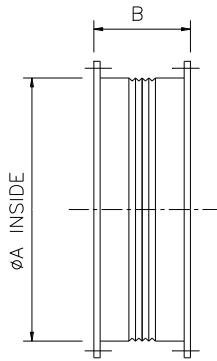


FAN MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

Majax-2 Long Cased

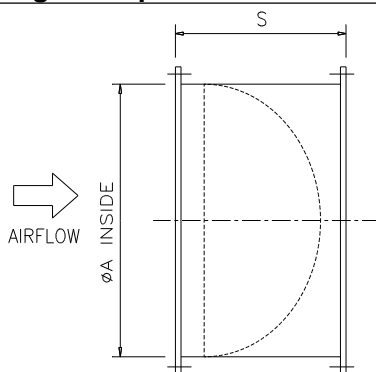
Flexible Connection



Fan Size	B	Mass (kg)
315	120	1.60
400	120	2.77
500	120	4.33
560	120	4.79
630	120	5.33
710	120	5.96
800	120	13.31
900	120	19.19
1000	120	21.74
1250	160	26.80
1600	160	33.89
2000	160	52.04

Flexible connection prices include a flanged flexible sleeve c/w a set of backing flanges.

Discharge Damper



Fan Size	S	Mass (kg)
315	220	13
400	260	18
500	320	25
560	350	29
630	385	34
710	430	48
800	480	58
900	565	85
1000	620	102
1250	700	157
1600	880	340
2000	1080	421

Discharge Dampers are available in gravity close, hand operation and pneumatic / electric actuator control.
Air / Gravity operated dampers are suitable for horizontal or vertical up airflow only.

Additional Accessories Available

- Casing access panels
- Inlet wire screen – bolt onto fan flange
- Discharge wire screen – bolt onto fan flange
- Inlet cone wire screen – bolt onto cone inlet flange
- Sound attenuators – see Silax brochure for details

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Section M - Side Channel Blowers

FPZ



FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS



FPZ Blowers

Side Channel Blowers / Exhausters

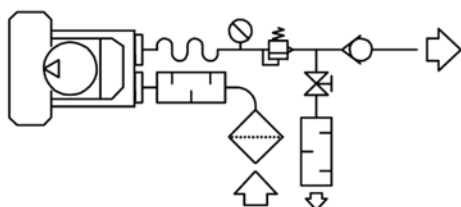
- Compact design
- Aluminium Impeller and impeller housing
- Built in sound attenuators
- Motors Class F, IP55 TEFC
- Motors are suitable for 230/400V - 400/690V 3Ph 50Hz
- Operating Temperature 15°C to 40°C
- Multiple inlet and discharge arrangement possible
- Models available as Direct and Belt drive
- Pulse and oil free air
- *On special request*
 - Special windings for different voltages
 - Motors available in Class H
 - Premium Efficiency Plus motors
 - Motors to Atex classifications
 - Anodized impeller and housings
 - Special Coatings

Abbreviations used on the FPZ Range

Blower Code	Description		
SCL Kxx MS	MS – Single Impeller Single Stage	MOR	Compact Direct Driven
SCL Kxx MD	MD – Single Impeller Two Stage	GVR / GOR	Direct Coupled
SCL Kxx TS	TS – Double Impeller Single Stage	ST	Belt Driven
SCL Kxx TD	TD – Double Impeller Two Stage		

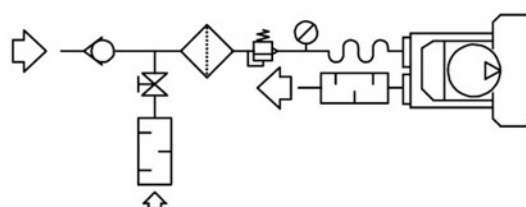
Typical Installation methods

Compression



Symbol	Description
	Intake / Inline Filter
	Additional Inline Sound Attenuators
	Safety Pressure / Vacuum Valve
	Pressure / Vacuum Gauge

Vacuum



Symbol	Description
	Flexible Connection
	Shutoff Valve
	Non Return Valve

Information subject to change without prior notice.

We recommend that all electric motors are fitted with SABS approved overload protection.

OPERATING PRINCIPLE:

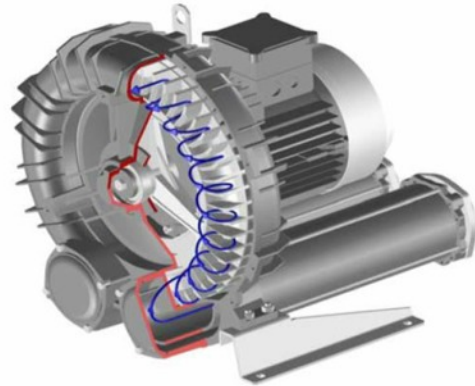
The lateral channel blowers-exhauster (SCL) have been developed on the theory of the regenerative flow.

Radial blades on the impeller draw air from the inlet port and drive it outward and forward into channels that return it to the blade's base. The result, based on both impeller/blade design, as well as housing configuration and relationship to the impeller, typically yield greater continuous operating pressure/vacuum than most regenerative blower designs or, conversely, at the same pressure or vacuum, greater air flow. Due to their unique principle of operation and design, there is no contact between rotating and stationary parts.

The main advantages are the following:

- no wearing parts
- no lubrication required
- minimum maintenance
- silent operation
- smooth air flow.

Exhaust air is clean and pulsation-free, owing to the non-positive displacement, oil-less design. Open flow capabilities range up to 2000 m³/h, with maximum *continuous* (i.e. 24 hours / day, 7 days / week) pressure to 750 mbar or vacuum to -500 mbar.

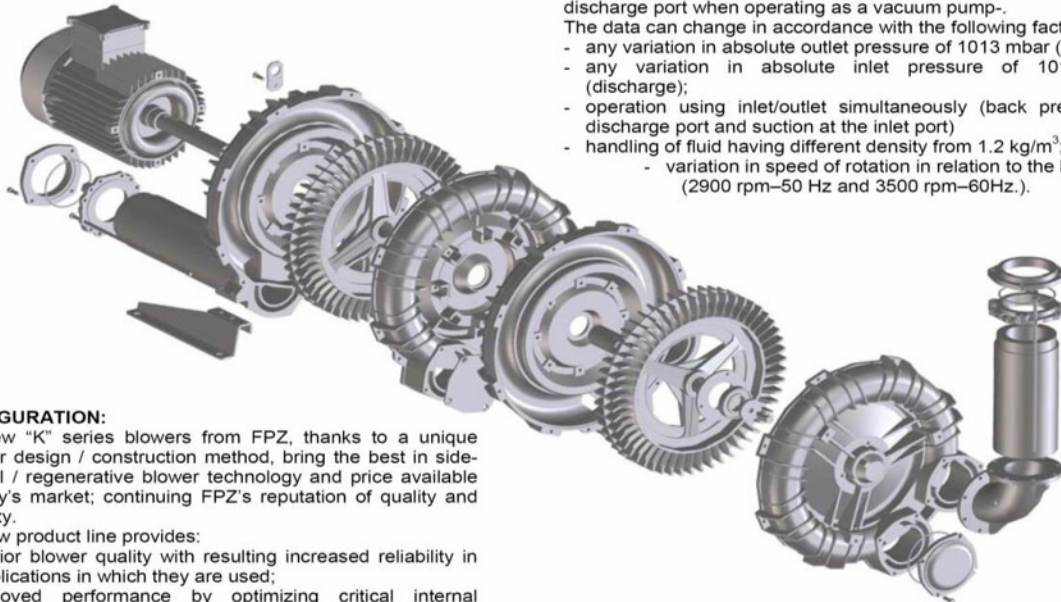


TECHNICAL DATA:

The data provided refer to the handling of air at 20°C and 1013 mbar (abs) atmospheric pressure absolute pressure of 1013 mbar - at the suction port when operating as a compressor, at the discharge port when operating as a vacuum pump.

The data can change in accordance with the following factors:

- any variation in absolute outlet pressure of 1013 mbar (suction);
- any variation in absolute inlet pressure of 1013 mbar (discharge);
- operation using inlet/outlet simultaneously (back pressure at discharge port and suction at the inlet port)
- handling of fluid having different density from 1.2 kg/m³;
 - variation in speed of rotation in relation to the basic one (2900 rpm-50 Hz and 3500 rpm-60Hz.).



CONFIGURATION:

The new "K" series blowers from FPZ, thanks to a unique modular design / construction method, bring the best in side-channel / regenerative blower technology and price available in today's market; continuing FPZ's reputation of quality and reliability.

The new product line provides:

- superior blower quality with resulting increased reliability in the applications in which they are used;
- improved performance by optimizing critical internal geometries affecting fluidynamics;
- reduction in starting power and in subsequent operating cost;
- noticeable reduction in sound emissions;
- reduction in both size and weight, facilitating blower installation;
- further reduction in cost for any subsequent maintenance;
- allows the direct mount of accessories.

The standard FPZ design, with both housing and impeller made from aluminium alloy, is a direct drive configuration, with a dynamically balanced impeller fitted directly on the motor shaft.

The new K range of includes the following executions:

- MS = mono wheel / single stage;
- MD = mono wheel / double stage;
- TS = double wheel / single stage;
- TD = double wheel / double stage.

Fitted motors are 2 pole, 1 and 3 phase, rated for continuous service. Insulating class "F" - tropicalised, with protection IP54 or IP55 and are built to IEC standards (cURus motors also available).

Standard voltage is:

- 230V - 50 Hz single phase up to 1,5 kW;
- 230-400V/50-265-460V/60Hz three phase up to 4 kW;
- 400-690V/50-460-795V/60Hz three phase from 5,5kW.

Different voltages/protection/insulation class are available on request.

SPECIAL EXECUTIONS / ACCESSORIES:

FPZ also design and produce special blowers for the handling of gases having high pressure and temperature, or specialty/corrosive composition, by incorporating specific materials including special surface treatments and use of different seal types.

Particularly a dedicated range was developed:

- manufacturing material is the aluminium alloy
- impregnation of all parts in contact with the gas
- sealing of union parts
- overhang mounting with double mechanical seal on the shaft

A complete range of accessories, including inlet filters, vacuum filters, safety valves, non return valves, additional silencers, etc., are available to guarantee the best installation conditions and ensure years of trouble-free service

Data can be changed without notice.
Tolerances on given values: ±10%.

Refer to Fan Movement for detail selections, dimensions, accessories and pricing of the Blowers.

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Section N - Centrifugal Fan (Howden)

BCC



BCC-2



HBC-M, N, S



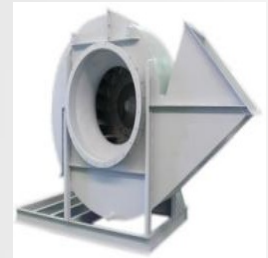
HRB-M, N, S



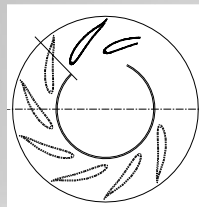
MRB



RTF



BAC (SI & DI)



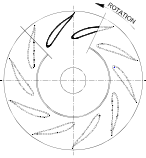
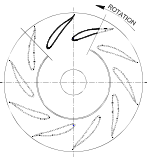
FAN
MOVEMENT

AIR AND GAS MOVEMENT SOLUTIONS

Section N – Centrifugal Fans – Industrial / Commercial / HVAC

Following the closure of Howden Donkin (Pty) Ltd which is the subsidiary of James Howden Holdings (Pty) Ltd, we have been appointed as Sales Agent who will service your needs for Donkin Fans and Howden centrifugal fans, spares and related industrial products.

Please note that James Howden Holding (Pty) Ltd retains the design and engineering rights for all Donkin fans and Howden related products. The Donkin Fans centrifugal fans will remain available for manufacture through James Howden Holdings (Pty) Ltd.

BCC  Refer to Fan Movement	BCC-2  Refer to Fan Movement	HBC-M, N, S  Refer to Fan Movement	HRB-M, N, S  Refer to Fan Movement	MRB  Refer to Fan Movement	RTF  Refer to Fan Movement	BAC (SI & DI)  Refer to Fan Movement
NBA (SI & DI)  Refer to Fan Movement	FCC (SI & DI)  Refer to Fan Movement	LFC  Refer to Fan Movement	Plug Fans  Refer to Fan Movement			

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