

VL4-2424

V Line Panel Filter 24x24x4

Description/Application

V Line - Disposable pleated panel filters

Description

Disposable pleated panel filter made with both a water resistant card frame and retaining face. The V Line panel filters use a flame retardant, 100% thermally bonded polyester filter media backed with an expanded galvanised steel mesh.

Application

General heating and air-conditioning.

As a pre-filter to bag filters.

Specification

EU Grade

G4

Efficiency (>95%)

5 Micron

Capacity

Rated Capacity (CFM): 2018

Rated Capacity (M³/hr): 3430

Resistance

Initial Resistance: 1"/25MM: 40Pa 2"/50MM: 40Pa 4"/95MM: 40Pa

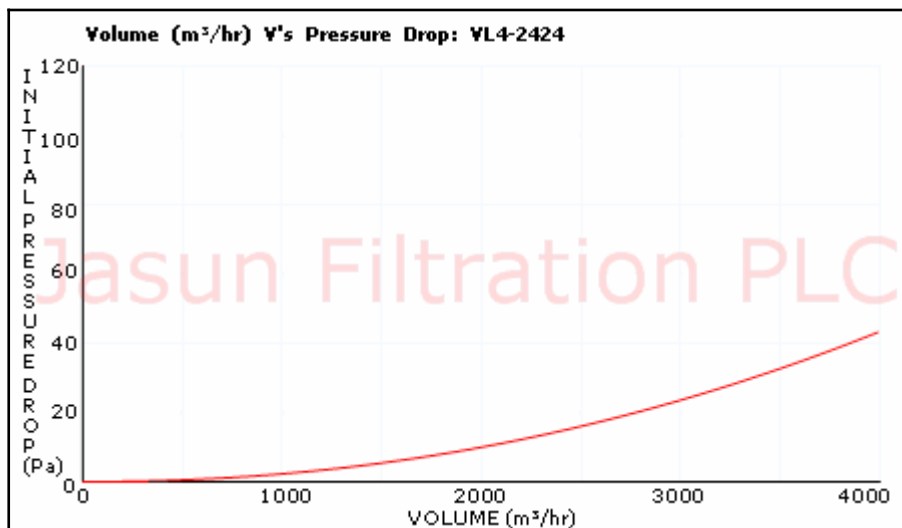
Final Resistance: 1"/25MM: 150Pa 2"/50MM: 150Pa 4"/95MM: 150Pa

Dimensions

Nominal (Inches): 24x24x4

Actual (mm): 594x594x95

Visual



HIGH EFFICIENCY CASED AXIALS - JMV AEROFOIL

FEATURES

- 315 - 630 mm
- Volume up to 3.95 m³/s
- Static pressures up to 285 Pa
- Fans tested to ISO5801 and BS848
- High energy efficiency
- Low installed noise levels
- Motor protection IP55
- Overheat protection fitted as standard

ELECTRICAL SUPPLY

220-240V/50Hz/1φ

TEMPERATURE RANGE

-40°C to 50°C as standard.
50°C to 70°C must be run at full speed only.

SIZES

315, 355, 400, 450, 500, 560 and 630 mm.

IMPELLERS

Our impeller design includes features such as unique high efficiency, high twist aerofoil section blades. Which are fitted into an aerodynamically optimised hub and clamp plate, that allows pitch angles to be adjusted.

Fläkt Woods impellers are all high pressure die cast to offer thin aerofoil sections for low generation of noise. Every cast aluminium component is X-ray examined using Real Time Radiography inspection prior to assembly. The maximum pitch angles shown allow for speed control by transformer or electronic controllers.

MOTORS

All motors are totally enclosed air stream rated class F insulation.

Constructed from aluminium or cast iron as standard, with special 'T' slot or pad mounted fixings. Single speed, single phase motors are suitable for speed control by voltage regulation where indicated. Suitable for horizontal or vertical shaft operation. Supplied as IP55 as standard, with removable drain plugs.

Bearings are of the "sealed for life" type and are lubricated with wide temperature range grease designed for optimal performance. Our BT and CT frames are fitted with overheat protection which is provided by a thermostat as standard.

CASINGS

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

NEW



ENVIRONMENT
ECONOMICAL
EXPERTISE



**GAIN THE AERODYNAMIC
ADVANTAGE AND SAVE UP
TO 24% ON ENERGY COSTS**

PRODUCT CODE

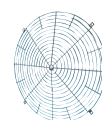
63JMV/20/4/6/35

- 63 - denotes the fan impeller diameter in centimetres
- JMV - denotes fan type
- 20 - denotes impeller hub diameter in centimetres
- 4 - denotes a nominal 4 pole speed
- 6 - denotes the number of blades
- 35 - denotes the pitch angle for the required duty

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



Damper



Guard



Bellmouth



Flange



Mounting Feet



Rubber AV's



Spring AV's



Flexible Connector



Silencer



Controls Transformer



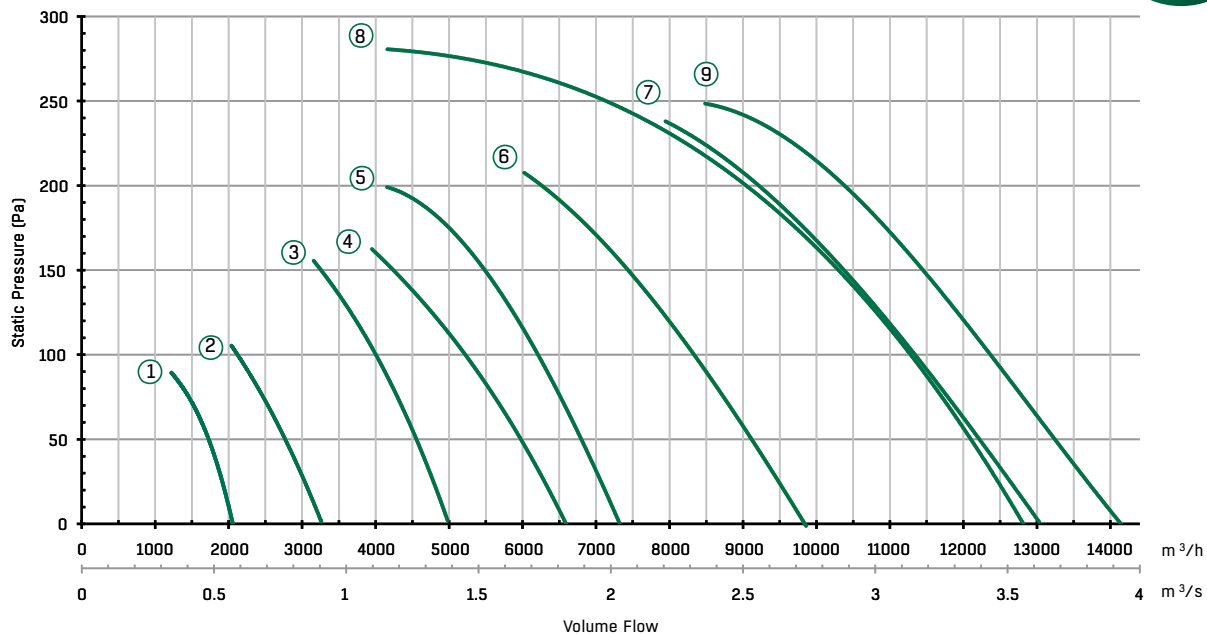
Controls Electronic



JMv PERFORMANCE & ELECTRICAL DATA

220-240V/50HZ/1 ϕ - L TYPE

PERFORMANCE CHART



PERFORMANCE TABLE

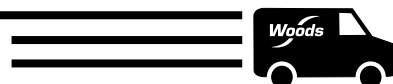
Ref	Product Code	m³/s @ Pa (Static)				
		0	50	100	150	200
1	31JMv/14/4/6/29	0.57	0.48			
2	35JMv/14/4/6/31	0.9	0.76	0.58		
3	40JMv/16/4/6/32	1.38	1.26	1.10	0.90	
4	45JMv/16/4/6/28	1.83	1.66	1.45	1.18	
5	50JMv/20/4/6/18	2.04	1.88	1.72	1.52	1.16
6	50JMv/20/4/6/30	2.74	2.52	2.32	2.07	1.74
7	56JMv/20/4/6/25	3.61	3.39	3.14	2.88	2.56
8	63JMv/20/4/6/10	3.58	3.34	3.12	2.85	2.54
9	63JMv/20/4/6/13	3.93	3.67	3.43	3.18	2.88

PRODUCT AND ELECTRICAL DETAILS

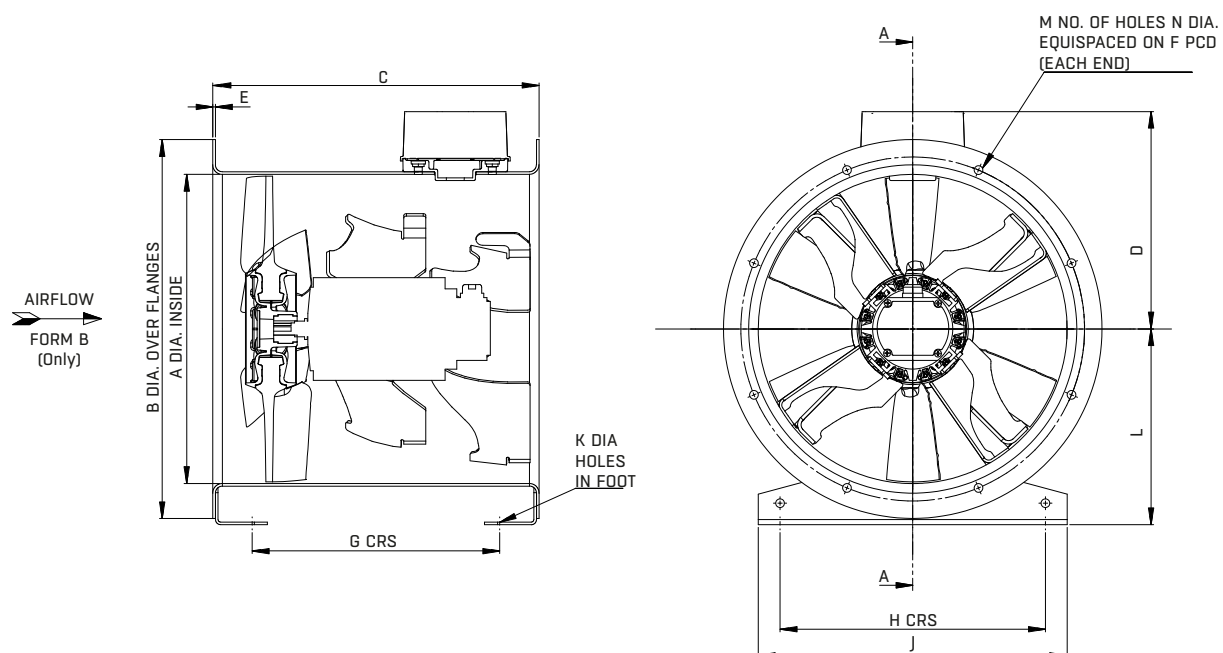
Ref	Product Code	Product Number	Pitch Angle (°)		Speed rev/min	Motor	Rating (kW)	Full Load Current (A)	Starting Current (A)	Wiring Diagram	Speed Controller	
			Min	Max							Electronic	Transformer
1	31JMv/14/4/6/29	JV326460	25	29	1340	BT5	0.075	0.53	1.45	CD3022	ME1.1	TEID 1
2	35JMv/14/4/6/31	JV366460	29	31	1340	BT4	0.13	1.05	1.75	CD3022	ME1.3	TEID 1.5A
3	40JMv/16/4/6/32	JV416452	26	32	1400	BT9	0.25	1.56	3.45	CD3022	ME1.3	TEID 2.2A
4	45JMv/16/4/6/28	JV466466	21	28	1340	BT9	0.32	2.2	5.0	CD3022	ME1.3	TEID 2.2A
5	50JMv/20/4/6/18	JV516455	16	18	1340	CT5	0.39	2.9	5.6	CD3022	ME1.3	TEID 3.5A
6	50JMv/20/4/6/30	JV516466	24	30	1340	CT9	0.68	4.8	11.0	CD3022	ME1.6	TEID 5.0A
7	56JMv/20/4/6/25	JV576456	19	25	1340	CT9	0.97	6.9	13.5	CD3022	ME1.6	TEID 7.5A
8	63JMv/20/4/6/10	JV646453	8	10	1340	CT9	0.97	6.9	13.5	CD3022	ME1.6	TEID 7.5A
9	63JMv/20/4/6/13	JV646454	8	13	1340	CT9	0.97	6.9	13.5	CD3022	ME1.6	TEID 7.5A

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

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



DRAWINGS



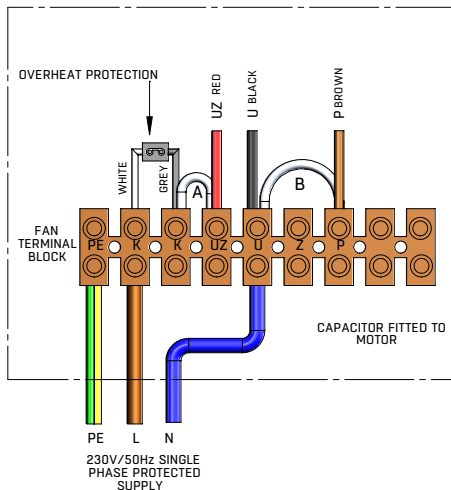
Product Code	Motor frame	A	B	C	D	E	F	G	H	J	K	L	M	N	Weight (KG)
315	BT5	315	395	375	229.5	3	355	285	265	315	10	200	8	10	21
355	BT4	355	435	375	249.5	3	395	285	305	355	10	225	8	10	22
400	BT9	400	480	375	272	3	450	285	350	400	10	250	8	10	25
450	BT9	450	530	375	297	3	500	275	400	450	10	280	8	12	26
500	CT5	500	594	520	322	3	560	420	450	500	10	315	12	12	46
560	CT9	560	654	520	352	3	620	420	510	560	10	355	12	12	54
630	CT9	630	724	520	387	3	690	400	580	630	16	400	12	12	73

All dimensions in mm.

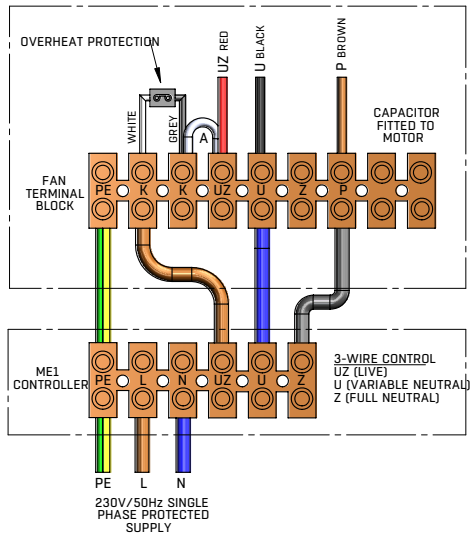
WIRING DIAGRAMS - JMV AEROFOIL

CD3022 - 315-500 JMV 1 PHASE (WITHOUT AND WITH ME SPEED CONTROLLER)

CONNECTION DIAGRAM FOR SINGLE PHASE REMOTE OVERHEAT PROTECTION ACDE ROTATION

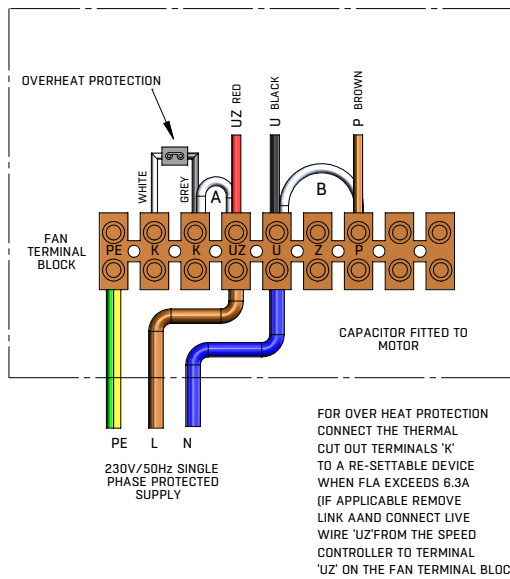


FAN CONNECTED TO SPEED CONTROLLER (VARIABLE SPEED)

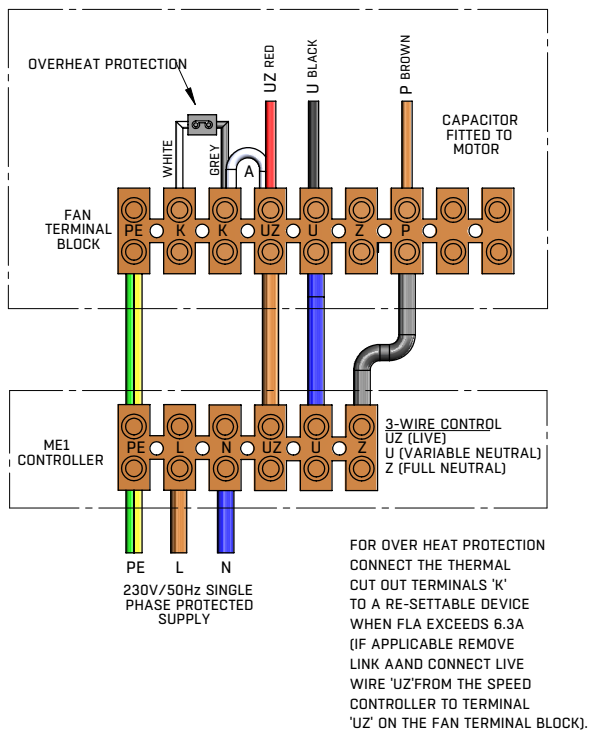


CD3022 - 560-630 JMV 1 PHASE (WITHOUT AND WITH ME SPEED CONTROLLER)

CONNECTION DIAGRAM FOR SINGLE PHASE REMOTE OVERHEAT PROTECTION ACDE ROTATION



FAN CONNECTED TO SPEED CONTROLLER (VARIABLE SPEED)



ALSO AVAILABLE FROM THE **WOODS** RANGE



**JMv
Aerofoil**



MaXfan²



**JM
Aerofoil**



**HT JM
Aerofoil**



**JM
Bifurcated**



Series 33



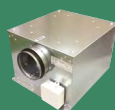
Plate Fans



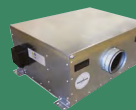
**Cased &
Plate Axial
Accessories**



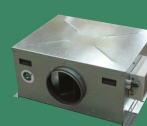
Tube Fans



**Sabina EC
Box Fans**



**Daisho AC
Box Fans**



**Daisho EC
Box Fans**



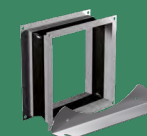
Estoc



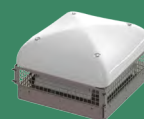
Estoc Targe



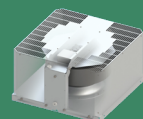
Estoc EC



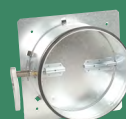
**Tube & Box
Accessories**



**Roof Units
Horizontal**



**Roof Units
Vertical**



**Fire
Dampers**



**Iris
Dampers**



Fire Valves



**Valves
Supply KE**



**Valves
Extract KK**



**Valves
Exhaust
VEFS**



**Nozzles DK
& DR**



**Louvres/
Cowls
EYMA and
DYMA**



**External
Louvres
USAV**



Controllers

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



AIRCLEAN

YOUR AIR FILTER MANUFACTURER

**P.O. BOX 147,
MAIDSTONE, ME14 2LA.**

**TEL:01622 832777
FAX:01622 832507**

sales@airclean.co.uk www.airclean.co.uk

Metal Cased Discarbs

The metal cased 'Discarb' cells have the highest carbon loading in our range, and have standard or heavy-duty carbon panels permanently sealed into a galvanised sheet steel casing. This construction gives a very strong unit capable of handling large air volumes or where conditions dictate, increased contact time. The advantage of this unit is that with panels sealed in, there is no possibility of air leakage. Also, these units can be manufactured to almost any reasonable size, the limiting factors being the overall weight for handling purposes and the size of individual panels. When the unit has finished its useful life it is discarded and replaced with a complete new cell.



Standard Duty Cells							
Nominal Size	Actual Size mm	Number of	Carb.	Discarb	Airflow		Pressure
W x H x L	W x H x L	Panels	Weight	Weight	m ³ /s	cfm	Pa
12" x 12" x 12"	292 x 292 x 292	6	5 kg	9 kg	0.10	212	75
12" x 12" x 18"	292 x 292 x 445	6	8 kg	14 kg	0.15	318	95
12" x 12" x 24"	292 x 292 x 597	6	10 kg	18 kg	0.22	466	140
18" x 18" x 12"	445 x 445 x 292	8	10 kg	17 kg	0.21	445	55
18" x 18" x 18"	445 x 445 x 445	8	15 kg	25 kg	0.31	657	70
18" x 18" x 24"	445 x 445 x 597	8	21 kg	33 kg	0.41	868	105
24" x 24" x 12"	597 x 597 x 292	12	20 kg	31 kg	0.41	868	70
24" x 24" x 18"	597 x 597 x 445	12	31 kg	45 kg	0.61	1292	90
24" x 24" x 24"	597 x 597 x 597	12	42 kg	59 kg	0.81	1716	130
12" x 24" x 24"	298 x 597 x 597	6	21 kg	35 kg	0.40	847	130

Extra Duty Cells							
Nominal Size	Actual Size	No. of	Carb.	Discarb	Airflow		Pressure
W x H x L	W x H x L	Panels	weight	weight	m ³ /s	cfm	Pa
12" x 12" x 12"	292 x 292 x 292	6	6 kg	10 kg	0.13	275	125
12" x 12" x 18"	292 x 292 x 445	6	9 kg	15 kg	0.20	424	175
12" x 12" x 24"	292 x 292 x 597	6	12 kg	20 kg	0.27	572	250
18" x 18" x 12"	445 x 445 x 292	8	12 kg	19 kg	0.30	635	95
18" x 18" x 18"	445 x 445 x 445	8	19 kg	28 kg	0.41	868	125
18" x 18" x 24"	445 x 445 x 597	8	25 kg	37 kg	0.54	1144	185
24" x 24" x 12"	597 x 597 x 292	12	25 kg	35 kg	0.54	1144	125
24" x 24" x 18"	597 x 597 x 445	12	38 kg	52 kg	0.80	1694	150
24" x 24" x 24"	597 x 597 x 597	12	51 kg	68 kg	1.06	2245	225
12" x 24" x 24"	298 x 597 x 597	6	26 kg	46 kg	0.53	1122	225

The company reserves the right to change the specifications without notice. E & OE.

Code AC6/2a Ref 02/09

AIRCLEAN

YOUR AIR FILTER MANUFACTURER

P.O. BOX 147,
MAIDSTONE, ME14 2LA.

TEL:01622 832777
FAX:01622 832507

sales@airclean.co.uk www.airclean.co.uk

Technical

The capacities shown are based on a dwell time of 0.1 seconds .

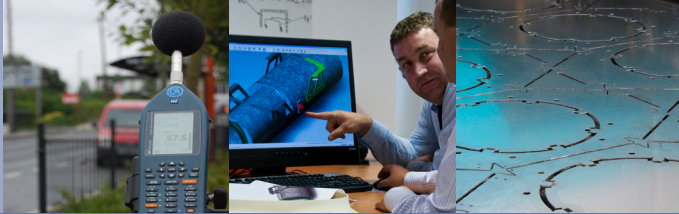
For contact times of 0.3 seconds, reduce rated airflow to 1/3rd, pressure drop will also reduce to 1/3rd.

Max Temperature 40 Deg C

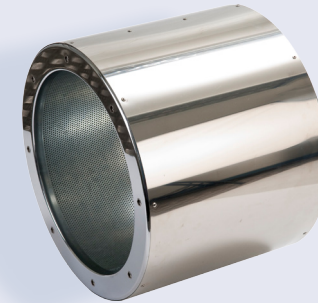
Max Humidity 80% RH

Non-standard sizes

Other sizes are available to suit individual requirements. Our Technical Department will be pleased to



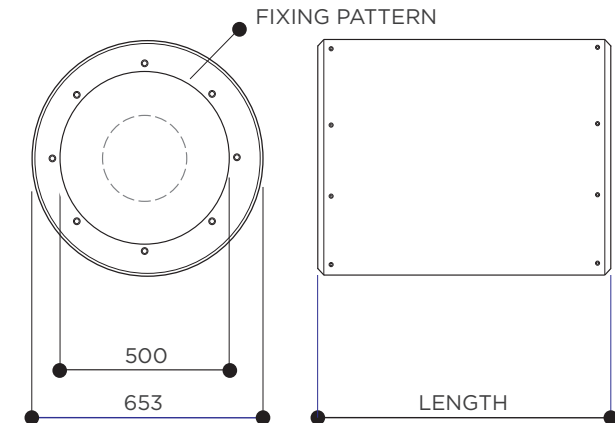
CP03-C-0500



500 DIA FAN MOUNTED SILENCER

Available in two standard lengths C Series Silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated liner. The central pod (code P) is an option to increase the insertion loss, however it will add resistance.

- Fits directly onto 500mm diameter fans
- Standard lengths 500mm (1D) & 1000mm (2D)
- Use up to 70°C (standard construction)
- Systems up to 1000 Pascals
- Special lengths on request



INSERTION LOSS (dB) - CENTRE BAND FREQUENCY

PRODUCT CODE	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP03-C*-0500-1D	2	3	6	14	14	12	10	5
CP03-C*-0500-2D	3	7	8	19	20	17	14	11
CP03-C*P-0500-1D	2	7	9	17	24	24	20	16
CP03-C*P-0500-2D	4	10	16	26	29	29	29	20

Insertion loss data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

DIMENSIONAL DATA

CODE	LENGTH	FIXING PATTERN	MASS
CP03-CA-0500-1D	500mm	12 x M10-560 PCD	18 Kg
CP03-CA-0500-2D	1000mm	12 x M10-560 PCD	32 Kg
CP03-CAP-0500-1D	500mm	12 x M10-560 PCD	22 Kg
CP03-CAP-0500-2D	1000mm	12 x M10-560 PCD	37 Kg
CP03-CB-0500-1D	500mm	12 x M8 - 541 PCD	18 Kg
CP03-CB-0500-2D	1000mm	12 x M8 - 541 PCD	32 Kg
CP03-CBP-0500-1D	500mm	12 x M8 - 541 PCD	22 Kg
CP03-CBP-0500-2D	1000mm	12 x M8 - 541 PCD	37 Kg

MATERIAL & FINISH

All casings are manufactured from mill finish hot dip galvanised mild steel conforming to EN10327 (BS2989) including the flow formed one piece end fittings. To prevent erosion of absorbing materials the C Series Silencers are fitted with a perforated liner manufactured from galvanised mild steel conforming to EN10327 (BS2989). The C Series Silencers utilise acoustic grade mineral fibre absorbing infill and are manufactured to the HVCA specification DW144 class B and M&E 100 for sheet steel thickness and stiffening.

Pressure	Up to 1000 Pascals positive and negative.
Temperature	-12° to +70° C.
Location	Internally & externally mountable.

MELINEX LINING (OPTIONAL)

Where moist conditions exist (e.g. process systems) or for critically clean applications (e.g. hospitals) the sound absorbing material may be required to be fully sealed by Melinex lining to prevent fibre migration. This will however, effect the acoustic performance of the silencer. Please contact us to discuss your requirements.

ALTERNATE SPECIFICATION

The above specification refers to our standard stock range. We can also supply custom made C Series Silencers with alternative dimensions, temperature ratings, construction materials and product finishes. Please contact us for further information and advice.

PRODUCT CODE GUIDE

Example: **CP03-CAP-0500-2D**

CP03	Product Group Code
CA	Drilling Pattern CA for A or CB for B
0500	Internal Diameter
2D	Length code 1D = 500, 2D = 1000

RESISTANCE TO AIRFLOW (Pa)

AIR VOLUME M³/s	0.5	0.6	0.8	1.0	1.3
CP03-C*-0500-1D	-	-	-	-	-
CP03-C*-0500-2D	-	-	-	-	-
CP03-C*P-0500-1D	10	24	40	80	120
CP03-C*P-0500-2D	21	36	61	124	188

- represents a negligible resistance to airflow that can be assumed to be equivalent to a duct section of the same length.

INSTALLATION

For recommendations for the support of the silencer the principles of Part Six (pages 43-46) of the HVCA DW144 standard should be followed. It is important that the recommendations in the table are adhered to when locating the silencer in relation to other duct-mounted equipment. If the silencers are to be used in conjunction with equipment not listed please enquire for advice.

ITEM	LOCATION
Centrifugal Fans	Direct couple only at the same size; use an inlet cone if open after silencer. PODDED - position one duct diameter from fan inlet / outlet.
Axial Fans	Direct couple only at the same size. Use an inlet cone if open after silencer. PODDED - match hub size within 30% of half nominal diameter.
Mixed-Flow Fans	Direct couple only at the same size. Use an inlet cone if open after silencer.
Ductwork Bends	Direct couple only at the same size. PODDED - position two duct diameters from bend.
Ductwork Reducers	Direct couple only with reducers of maximum 15° cheek slope.
Finned Coils & Filters	Leave 200mm plenum between silencer and coil or filter, and suitable reducer as specified in HVCA DW/144 1998.

MAINTENANCE

Silencers are of a passive nature and as such require no routine maintenance or lubrication.

INSPECTION

For inspection access the recommendations set out in Heating & Ventilating Contractors Association specification DW144 1998, appendix M – Guidance Notes for Inspection, Servicing and Cleaning Access Openings, should be followed. We would suggest Level 2 one 300mm x 200mm-inspection panel down-stream or Level 3 one 300mm x 200mm inspection door each side of the silencer. Refer to table 25 of DW144 or Section 2 of HVCA specification TR17 for further recommendations.

It is our recommendation that the silencers are inspected periodically to ensure that the airways are free from obstructions and no dust or foreign matter has collected and blocked the holes in the perforated liner elements.

CLEANING

Should airways require routine cleaning we recommend low-pressure air blasting, vacuuming or wiping the exposed surfaces with a damp cloth. It is not unusual for “White Zinc Oxide” to develop on galvanised silencers when the zinc in the galvanising reacts electrolytically with moisture.

JMv Axial Flow Fan

Range Feature Summary

- 7 diameters available, 315 to 630 mm
- Volumes up to 31,680 m³/h (8.8 m³/s)
- Static pressures up to 1170 Pa
- Fans tested to ISO5801, BS848 and EN12101-3 (High Temperature)
- High efficiency design to optimise running costs
- Low installed noise levels
- Motor protection IP55
- Hot dip galvanised casing

IMPELLER

Material: Aluminium (LM6 or LM13 dependant on application and rotational speed)

Blade Design: High Twist Aerofoil section blades

Hub Design: Aluminium hub and clamp-plate, with integral steel shaft insert to ensure correct motor drive shaft fit. Hub design allows for each blade pitch angle to be individually adjusted.

Manufacture: All die cast impeller components are examined using real time X-ray radiography (in accordance with ASTM E-155) before machining to ensure highest quality.

Balance: In accordance with BS 848-7 / ISO 14694, Grade G16 to G6.3, depending on rated motor power.

Form of Running: Form B: Airflow through impeller then over the motor (as standard)

Impeller location and fixing: Impeller is located and fixed to the motor drive shaft by a key and keyway manufactured in accordance with BS 4235:1972. Axial location is provided by a collar or shoulder on the drive shaft together with a retaining washer and screw, fitted into a tapped hole in the end of the shaft. The screw is locked in position

Aerodynamic design: Fan maximum absorbed power is designed to occur within the normal working range, i.e. it has a non-overloading characteristic. Impeller stress levels have been designed to be sufficiently low so as to ensure a near infinite life when operated at maximum

speed within the published fan performance characteristic.

FAN CASING

Material: Casings are manufactured from mild steel to BSEN 10111 Grade DD14.

Casing Design: Casing and flanges will have a thickness of 3 mm up to and including 630mm in diameter. Casings are of the long type, enclosing the entire length of the impeller and motor assembly and are complete with an inspection port closed with a rubber moulding. A steel closing plate shall be used for Emergency High Temperature applications above 200°C.

Casing Finish: Hot dip galvanised after manufacture to BSENISO1461.

Connection Flanges: Flanges are an integral part of the fan casing and feature fixing holes that are equi-spaced around a pitch circle diameter to facilitate connection to duct work in accordance with Eurovent standards.

MOTOR

Type: Fan motors are of the totally enclosed, squirrel cage induction, continuous duty variable torque type.

Bearings: Either ball or roller type bearing with an L₁₀ design life of at least 20,000 hours when calculated using ISO 281 for rated fan duty.

Motor insulation: The minimum insulation standard (for standard temperature fans) is Class "F". High temperature fans designed for Smoke Extraction have a minimum insulation standard of Class "H". When operating under the most onerous catalogued condition the motor temperature rise will be in accordance with EN 60034-1, or EN 12101-3 in cases of Emergency High Temperature applications.

Motor output ratings: Motor outputs are airstream rated (based on insulation class), unless otherwise agreed. Performance is generally in accordance with BSEN 60034-1.

Motor Finish: Aluminium self-finish or Cast iron painted to motor manufacturers specification.

Ingress Protection: IP55 with drain plug fitted.

JMv Axial Flow Fan

Terminal Boxes: All terminal boxes shall have the same level of protection as the motor.

Single phase motors: These are of the capacitor start and run type. All motors are capable of withstanding direct on line starting.

Standard Temperature fans:

Fans are designed for Continuous operation from -40°C to +50°C, but is suitable for frequent starting down to -20°C.

Motor insulation is class F.

High Temperature (HT) Range:

Once off emergency use up to 400°C for duration of 2 hours in accordance with EN12101-3.

Motor insulation is class H.

Supply: Single and Three Phase, 50Hz
Single and Three Phase, 60Hz

MOTOR SPEED CONTROL

Two Speed: Pole Change (PC) or Dahlander two speed motors are reconnected from a single winding via six winding terminals to give two separate pole numbers. Dual Wound motors have two separate windings.

Speed Control: All three phase, single speed, motors are suitable for inverter control. Transformer or electronic control options are also available. Single phase, single speed, motors are suitable either transformer or electronic speed control.

PERFORMANCE DATA

Published fan performance data represents what will be achieved when tested to BS 848P-1 / ISO 5801:2007 (or equivalent to AMCA standard 210), and the achieved sound power level when tested to BS 848-2.5 / BSENISO 5136 (or equivalent to AMCA standard 300). Acoustic data is to be given as sound power levels (Lw re: 1 pW (10^{-12} watts) for each of the eight octave bands (63Hz to 8kHz).

WARRANTY PERIOD

Our standard warranty period for both the fan and motor is 2 years from date of despatch.

STANDARD ACCESSORIES

BELLMOUTH INLETS

Bellmouth inlets can be provided for long and short cased fans and are spun from mild steel to BSEN 10111 Grade DD14 and hot dip galvanized to BSENISO 1461 after manufacture.

INLET/OUTLET GUARD

Inlet and outlet wire guards can be provided where requested and are fabricated from mild steel wire and rod as a welded assembly, which is either hot dip galvanized or zinc plated after manufacture. Guards are manufactured in accordance with BS 848-5/ISO 12499.

FAN MOUNTING FEET

Fans can be provided with attachable feet where requested, suitable for horizontal or vertical mounting, fabricated from mild steel to BSEN 10111 Grade DD14, up to 8mm thick. Feet are hot dip galvanized in accordance with BSENISO 1461 after manufacture.

FLEXIBLE CONNECTORS

Flexible connectors can be provided where requested and are fabricated from silicon coated glass fibre fabric. The materials should withstand temperatures up to 400°C/2hrs and be flame resistant, conforming to BS 476-7. Flexible connectors should be fitted using stainless steel worm drive clips.

ANTI-VIBRATION MOUNTS

Two mount variants are available. Rubber in-shear mounts are designed for standard temperature fans, while spring mounts are available for high temperature fans.

OC Innovations

OC2 – Odour Control Unit



The OC2 unit is a state of the art ozone injection system for commercial kitchen odour control. Ozone is a well-known disinfectant and odour neutralizer. The ozone is injected directly into the kitchen canopy or the associated extraction ductwork.

The unit is simple and quick to install, with low running and maintenance costs. The OC2 provides odour control at an affordable price.

Benefits:

Low capital and running costs	Simple installation	Low maintenance
No consumable chemicals	Compact and lightweight	Quiet operation
No additional system resistance	Energy Saving	

Product Specification

Volume Flow rate	Up to 2.2m ³ /s per unit
Unit Dimensions	290w x 290h x 290L
Unit Housing material	Stainless steel powder coated
Unit Colour	White
Duct work connection	100mm circular spigot
Air residence time internally	>0.2 seconds
Pressure Drop	N/A
Electrical requirements	240V / 1ph /50/60Hz
Power requirements	168W
Weight of unit	10Kg
Safety	Circuit breaker 5A required, UNIT MUST BE INTERLOCKED WITH FAN CONTROL SYSTEM
Operation	Fully Automatic

TCBBX2/4-500 SOLER AND PALAU (S&P) HIGH PRESSURE 2 STAGE SHORT CASED AXIAL ALSO KNOWN AS TP50014 BY VENT AXIA

Contra rotating: High Pressure

Contra rotating system with two complementary impellers allowing the duplication of the pressure with the same air volume.

Impeller dynamically balanced

Impeller dynamically balanced according to ISO 1940 standard, giving vibration free operation.

Corrosion resistance

Rolled steel casings and motor support protected by cataforesis primer and black polyester paint finish. Stainless steel screws.

Terminal Box

Wiring terminal box with cable gland PG-11

All models are supplied with pre-wired wiring junction box located on the outside of the fan casing for easy wiring access.

Available with single or three phase 4 poles motors.

Motors

All the motors are IP65, Class F insulation (1) equipped with thermal protection.

Single phase motors are variable voltage.

Three phase motors suitable for inverter control.

Electrical supplies

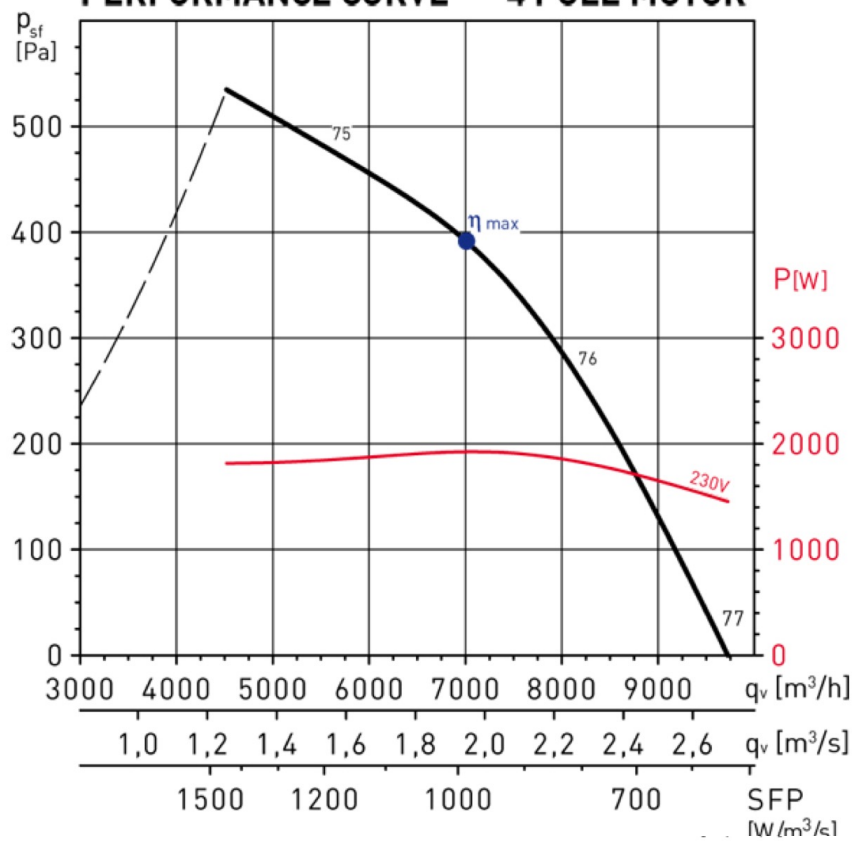
Single phase 230V-50Hz (Capacitor located inside the wiring terminal box)

Three phase 230/400V-50Hz

Working temperatures from -40°C up to 70°C

Performance

The curve below shows the fan performance which is 2.36m³/s @ free air and it's peak performance is 1.917m³/s @ 400pa. The fan can perform anywhere between these 2 points but we would not recommend selecting the fan to perform beyond the max point as indicated below by a blue dot below

PERFORMANCE CURVE - 4 POLE MOTOR**How loud is it?**

70.5dB(A) at 3 metres from the listener