

Baffle Type Grease Filters for Kitchen Extracts and Canopies

Applications

The Airclean Baffle Type Grease Filter is designed for use in commercial kitchens to remove airborne grease prior to entering the extraction system.

It is recognised that there is an increasing need to maintain and improve hygiene standards in kitchens and to reduce the fire hazards above the heat source.

The Airclean Baffle Type Grease Filter reduces fire hazard with their unique design concept of non-grease loading (negligible grease accumulation), and interlocking baffle walls which restrict the passage of flames into the ductwork.

The Baffle Type Grease Filter's smooth surface enables deposited grease to run off via the drainage holes, to grease collecting trays in the canopy or grease filter housing, where it can be easily disposed of. Efficient grease removal by Baffle Type Grease Filters minimises grease build-up in the kitchen extract ductwork system and ensures that duct cleaning requirements are kept to a minimum.

Description

Airclean Baffle Type Grease Filters are manufactured in either Aluminium or Stainless Steel (Mirrored Finish Stainless Steel Grade 430, or Dull Polished Finish Stainless Steel Grade 304).

Housed in a channel framework, a series of vertical air baffles are strategically aligned to change the direction of the grease-laden air. This action causes the deposition of the grease quickly, without re-entrainment onto the baffles, whilst the grease-free air passes through the filter. The Baffle Type Grease Filter's smooth surface enables deposited grease to run off via the drainage holes into collecting trays within the housing, minimising grease build-up.

Baffle type Grease Filters each have layflat handles to facilitate easy removal from the kitchen canopy or grease filter housing.



Size		Flow Rate		Part Numbers	
OT Inches	Actual mm	m ³ /s based on FV 1.5m/s	Pressure Drop Pa	ST STEEL ECO 2" (47mm) Grade 430 St/St	ST STEEL HD 2" (47mm) Grade 304 St/St
16 x 16	394 x 394	0.25	125	1321119	1320119
20 x 10	495 x 242	0.19	125	1321120	1320120
20 x 16	495 x 394	0.31	125	1321121	1320121
20 x 20	495 x 495	0.39	125	1321122	1320122
18 x 18	445 x 445	0.31	125	1321123	1320123
24 x 24	597 x 597	0.54	125	1321124	1320124

FOR NON-STANDARD SIZES CONTACT THE SALES TEAM

Notes

- * Actual sized filters will be manufactured as ordered +/- 3mm
- * Handles and Drain Holes come as standard
- * Handles are located on the shortest side of the grease filter as standard.

Grease Filter Cleaning Tanks and Agents

To ensure the prolonged efficiency and life of a kitchen Baffle Type Grease Filter they must be cleaned regularly (according to use).

Airclean offer a range of suitable Grease Filter Cleaning Tanks (Heated and Non Heated), and Non Caustic Cleaning Agents (See Catalogue Section 3, Page AC3.8).

Alternative cleaning solutions for grease filters include steam cleaning or an automatic dishwasher.



Stainless Steel Grease Gridmesh Filters for Kitchen Extracts and Canopies

Applications

Grease filters are generally installed in canopies above ranges of cooking equipment, to eliminate or greatly reduce the problem of cooking oil etc., being drawn into and settling in the extract ductwork.

This significantly reduces the frequency of expensive duct cleaning, and offers some protection against grease-fire hazards.

Airclean now have many thousands of these filters operating satisfactorily in leading restaurants, hotel kitchens and ships galleys.



Description

The filtration media is crimped stainless steel knitted wire mesh, which is enclosed in either a Grade 304 or Grade 430 (the ECO range) punched trays which are riveted together to form a high quality rigid filter. Drain Holes and Lay Flat handles are standard in design.

STANDARD STAINLESS STEEL GREASE GRIDMESH FILTERS

Size		Flow Rate		Part Numbers	
OT Inches (w x h x d)	Actual mm (w x h x d)	m ³ /s. based on FV 2.5m/s	Pressure Drop Pa	ST STEEL ECO 2" (47mm) Grade 430 St/St	ST STEEL HD 2" (47mm) Grade 304 St/St
				Part No	Part No
16 x 16 x 2	394 x 394 x 47	0.39	50	1321109	1320109
20 x 10 x 2	495 x 242 x 47	0.30	50	1321110	1320110
20 x 16 x 2	495 x 394 x 47	0.49	50	1321111	1320111
20 x 20 x 2	495 x 495 x 47	0.62	50	1321112	1320112
18 x 18 x 2	445 x 445 x 47	0.50	50	1321113	1320113
24 x 24 x 2	597 x 597 x 47	0.90	50	1321114	1320114
Non Standard Upon Request				1321999	1321999

Notes

- * Actual sized filters will be manufactured as ordered +/- 3mm
- * Handles and Drain Holes come as standard
- * Handles are located on the shortest side of the grease filter as standard.
- * Stainless Steel ECO (430) = Mirror Finish , Stainless Steel HD (304) = Dull Polish

Grease Filter Cleaning

To ensure the prolonged efficiency and life of a kitchen Grease Filter they must be cleaned regularly (according to use).

Airclean offer a range of suitable Grease Filter Cleaning Tanks (Heated and Non Heated), and Non Caustic Cleaning Agents (See Catalogue Section 3, Page AC3.8).

Alternative cleaning solutions for grease filters include steam cleaning or using an automatic dishwasher.





AV MOUNTS

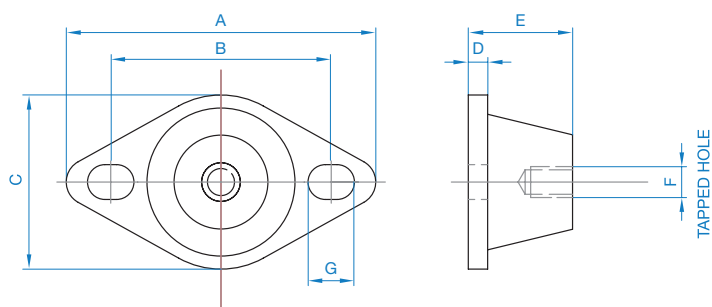
AV MOUNTS

Overview

- Fits directly to mounting feet
- Rubber with steel insert
- Supplied as a single mount
- Typical installation requires 4 or 6 mounts per fan



Product Code	A	B	C	D	E	F	G	Weight kg
062-001	64	50	43	5.5	20	M6	Ø7	0.040
062-002	64	50	43	5.5	20	M6	Ø7	0.040
062-003	80	57	45	5	32	M8	12 x 9	0.102
062-004	80	57	45	5	32	M8	12 x 9	0.102
062-005	80	57	45	5	32	M8	12 x 9	0.102
062-006	95	71	60	5	45	M10	14 x 9	0.104



Dimensions are in mm.

AV MOUNTS

Notes

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Building Services

Tel **+44 (0) 1384 275800**
Fax **+44 (0) 1384 275810**
Email **info@eltafans.co.uk**

46 Third Avenue, Pensnett Trading Estate, Kingswinford,
West Midlands, DY6 7US United Kingdom

Applied Technology & Building Services Export

Tel **+44 (0) 1489 566500**
Fax **+44 (0) 1489 566555**
Email **at@eltafans.co.uk / export@eltafans.co.uk**

17 Barnes Wallis Road, Segensworth East Industrial Estate,
Fareham, Hampshire, PO15 5ST United Kingdom

eltafans.com

062-07-2021 Issue B



BS EN ISO 9001:2015 FM 556465



A MEMBER OF  ELTA GROUP



Description:

592x592x380 6 pocket 25mm header Carbon filter bag giving a combination of particle and low level gas and odour removal

Construction:

Galvanised steel header frame holding pockets made from an impregnated carbon synthetic media

Efficiency:

G3/G4 to BS EN 779

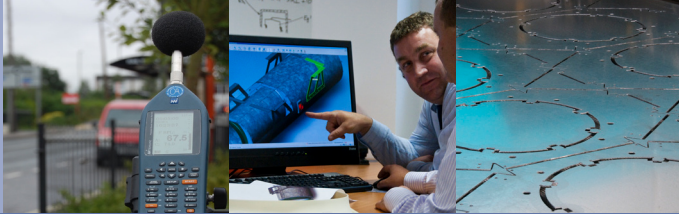
Rating:

3400 m³/hr @ 60 Pa

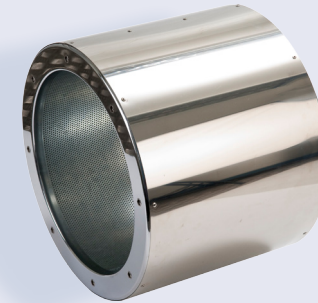
Carbon Loading:

78 grams / m²

In our constant endeavour to seek product improvement The Filter Business reserve the right to modify designs or materials without prior notice. E&OE



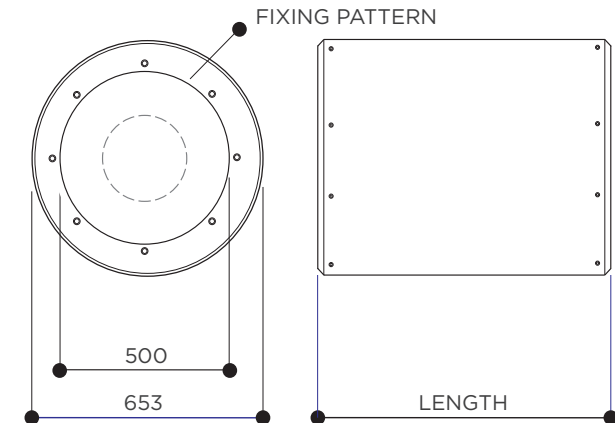
CP03-C-0500



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.

PowerBox³ Performance Evolved

**SUPPLY AND EXTRACT
VENTILATION SOLUTIONS**





POWERBOX³

**A newly developed
range of box fans with
higher static efficiency
and very low breakout
sound levels**



With over 100 years of experience in the air movement industry, Woods Air Movement is a trusted and reliable supplier of high-quality "Made in Britain" fans for all demanding applications – from comfort to safety critical.

The new PowerBox³ range offers high efficiency and very low breakout sound levels. Available in eight inlet spigot sizes from 315 mm up to 630 mm with dual voltage single and three phase electrical connections options (dependent on size). With a max airflow up to 4.7 m³/s and max static pressure up to 1100 Pa, the PowerBox³ fans caters to a wide variety of applications.

Our sales and engineering teams are committed to provide you with exceptional products and technical guidance as well as ensuring your logistical needs are met. All Woods Air Movement fans are easy to select and order – our online Fan Selector tool is easy to use and will give all information needed to design your application. We are also focused on providing great after-sales support – from installation and commissioning to regular servicing.

In short; Woods Air Movement is a complete partner for all your fan needs.

PowerBox³ delivers outstanding performance for a wide range of applications

› VOLUME FLOW RATE UP TO 4.7 m³/s › STATIC PRESSURE UP TO 1100 Pa › ErP COMPLIANT

All aluminium Pentapost frame and corner design provides a sturdy and robust structure.

Highly efficient Powerdrive system with configurable speed control.



Panel with handle installed to aid for easy removal.

Choice of 3 box sizes with multiple air performance options.

Capable of handling air temperatures up to 50°C.

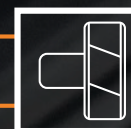
Panels designed for quick and easy removal during installation and to provide access for maintenance.

Thermally insulated double skinned galvanised steel panels reduce breakout noise to a minimum.

Highly efficient, low-noise backward curved centrifugal impeller. Rugged aluminium construction withstands harsh operation and high temperature.

Grease resistant gasket to prevent leakage.

› PERPENDICULAR (90°) DISCHARGE CAN BE RE-CONFIGURED FOR INLINE DISCHARGE



A great fit for all your box fan needs

Our new PowerBox³ can be used for supply or extract air applications and can be installed in any position. The units comply with the Ventilation Unit Regulation 1253/2014 and can be installed with perpendicular (90°) discharge in all vertical and horizontal directions. They can be quickly reconfigured by changing panels to provide an inline outlet flow.

SUITABLE APPLICATIONS

- **Kitchen extract and supply**
- **In-duct ventilation in hotels, offices and other buildings.**
- **Can be used for internal and external applications.**



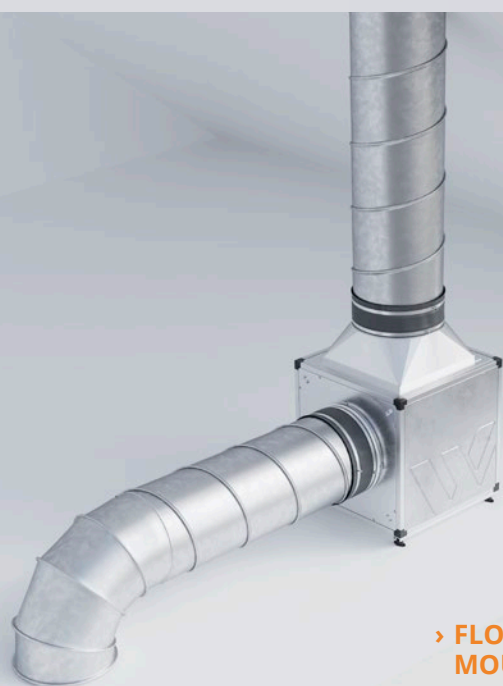
Inside, outside, floor, wall or roof – the flexible PowerBox³ is always a reliable choice

The PowerBox³ can be floor or wall-mounted, internally, and externally as standard. These being centrifugal fans, the PowerBox³ range is most suitable for installations where there is high static pressure due to length of duct run, filtration, number of direction changes etc.

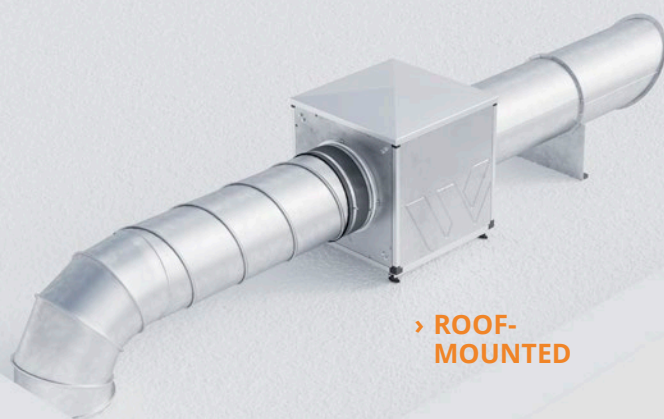
With five possible discharge directions, the PowerBox³ gives the flexibility to install under different site conditions. They can be placed on anti-vibration mounting tracks to reduce vibration transfer through the mounting surface and can also be connected using flexible connectors to reduce transmission of vibration to the ductwork. During installation, extra care should be taken to check if the wall/roof or the fan clamp can handle the fan weight and/or vibration.



› WALL-MOUNTED*



› FLOOR-MOUNTED



› ROOF-MOUNTED

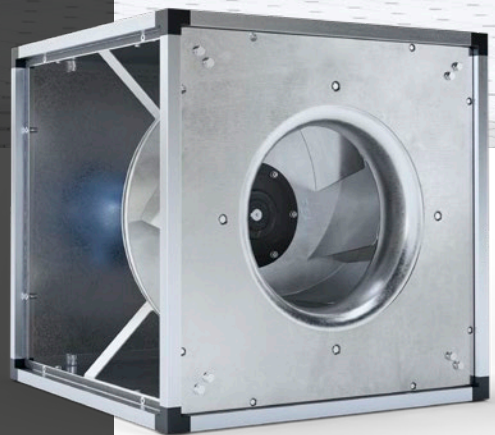
**Mounting brackets are not supplied by Woods Air Movement.
Please note that these illustrations are for marketing purposes,
we would recommend when installing that you use best practice.*



PowerBox³

– a key ingredient for
an efficient kitchen
ventilation system

This product seamlessly integrates into your kitchen environment, ensuring minimal disruption while delivering maximum performance. It's the perfect blend of form and function, combining sleek design with industry-leading extraction capabilities. Efficiently removing fumes and smoke from your kitchen space.



PowerBox³ overview

Product name	Part number	Speed (rpm)	Electrical supply	Input power (kW)
PowerBox ³ 50-315-1	PB315140	1420	220-240V /50Hz/1ph*	0.24
PowerBox ³ 50-315-3	PB315340	1420	380-420V /50Hz/3ph	0.24
PowerBox ³ 50-355-1	PB355140	1420	220-240V /50Hz/1ph*	0.38
PowerBox ³ 50-355-3	PB355340	1420	380-420V /50Hz/3ph	0.38
PowerBox ³ 67-400-1	PB400140	1450	220-240V /50Hz/1ph*	0.65
PowerBox ³ 67-400-3	PB400340	1450	380-420V /50Hz/3ph	0.65
PowerBox ³ 67-450-1	PB450140	1440	220-240V /50Hz/1ph*	1.05
PowerBox ³ 67-450-3	PB450340	1440	380-420V /50Hz/3ph	1.05
PowerBox ³ 67-500-1	PB500140	1460	220-240V /50Hz/1ph*	1.82
PowerBox ³ 67-500-3	PB500340	1460	380-420V /50Hz/3ph	1.82
PowerBox ³ 80-560-3	PB560340	1460	380-420V /50Hz/3ph	3.14
PowerBox ³ 80-630-3	PB630340	1350	380-420V /50Hz/3ph*	4.64



NOTES

**Operation requires a pre-programmed speed control drive.*

***Soft start via an inverter and cannot be operated by Direct Online (DOL).*

****Sound pressure levels are average dB(A) at 3 metres distance over sphere, under free field conditions and are presented for comparative purposes only.*

Full load current (A)	Starting current (A)	Max temperature (°C)	Speed controller part number	Breakout sound level (dBA)***	Weight (kg)
1.41	N/A**	50	PK901102	30	43
0.81	3.2	50	EA901016	30	43
1.89	N/A**	50	PK901103	32	45
1.09	4.4	50	EA901016	32	45
2.81	N/A**	50	PK901104	37	63
1.62	8.0	50	EA901016	37	63
3.30	N/A**	50	PK901105	41	65
1.90	11.8	50	EA901016	41	65
6.03	N/A**	50	PK901106	44	73
3.47	24.7	50	EA901018	44	73
5.80	48.0	50	EA901022	50	108
8.47	N/A**	50	PK901107	55	114

PowerBox³ specifications

PRODUCT FACTS

- Airflow rate up to 4.7 m³/s
- Static pressure up to 1100 Pa
- Available in 7 inlet spigot sizes: 315, 355, 400, 450, 500, 560, 630 mm
- High efficiency motor.
- Box sizes (side lengths): 500, 670, 800 mm
- All aluminium Pentapost frame and corner design provides a sturdy and robust structure.
- Highly efficient, low-noise backward curved centrifugal impeller. Rugged aluminium construction withstands harsh operation and high temperature.
- Capable of handling air temperatures up to 50°C.
- Thermally insulated double skinned galvanised steel panels reduce breakout noise to a minimum.
- Perpendicular (90°) discharge options in all vertical and horizontal directions. Can be quickly reconfigured to provide an inline outlet flow.
- Quick and easy to maintain.

CONSTRUCTION

The casing is made from pre-galvanised sheet steel BS EN 10346: 2009 DX 51D + Z 275G/M2 with double chambered aluminium supporting frames and corners. The thermal insulation is achieved using glass fibre sheets. The unit can be mounted vertically or horizontally and has removable side panels.

IMPELLER

The unit is equipped with a highly efficient, low-noise backward curved centrifugal impeller. Its rugged aluminium construction withstands harsh operation and high temperature and is dynamically balanced to ISO 21940-11 grade G6.3.

SPEED CONTROLLER

The units are operated and controlled using Woods supplied speed control drives. Most three phase units can also be operated at full speed via direct on line connection, with the exception of the 630 size and single phase range.

ELECTRICAL SUPPLY

- 220-240V/50Hz/1PH and 380-420V/50Hz/3PH

TEMPERATURE RANGE

- Up to 50°C

INLET SPIGOT SIZES

- 315, 355, 400, 450, 500, 560, 630 mm

MOTOR

The units are equipped with direct drive high efficiency motors with ingress protection to IP55.

PRODUCT CODE

POWERBOX³ – AA – BBB – C

- POWERBOX³ – Fan name
- AA – Box size (67, 80 cm, etc.)
- BBB – Spigot diameter (500, 560 mm, etc.)
- C – Phase (1 or 3)

AVAILABLE ACCESSORIES

- Mounting tracks complete with A/V mounts
- Square to round transformation
- Flexible connectors
- Inverters
- Inlet spigot (available via our distribution partners)
- Weather roof

For more information and part numbers – please view our Fan Selector or our online Accessories Catalogue.

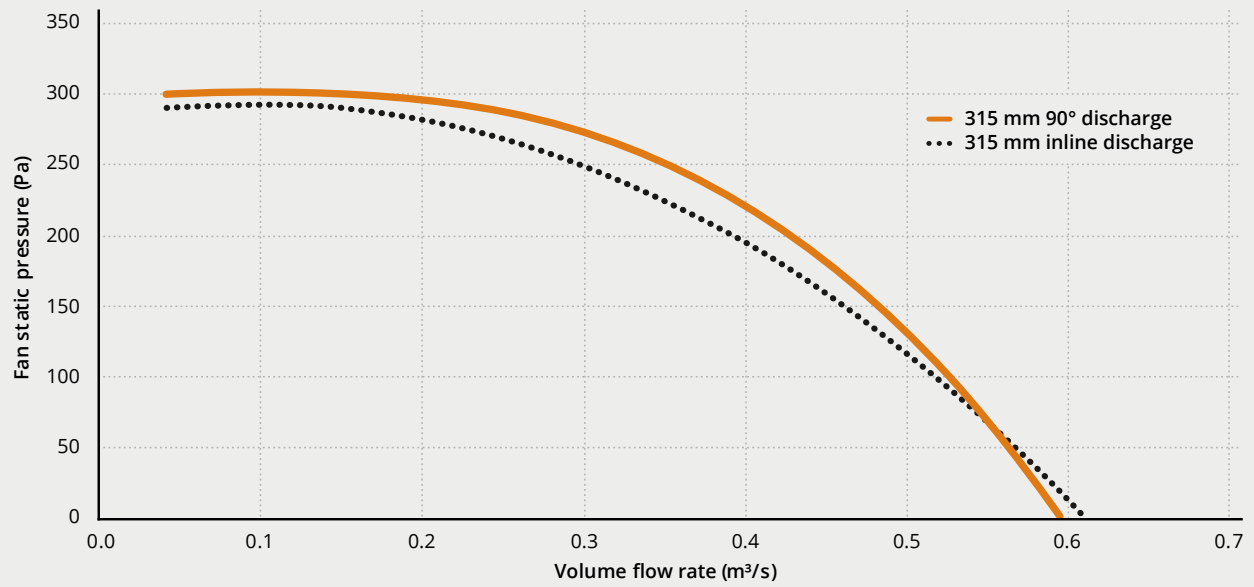




Performance charts

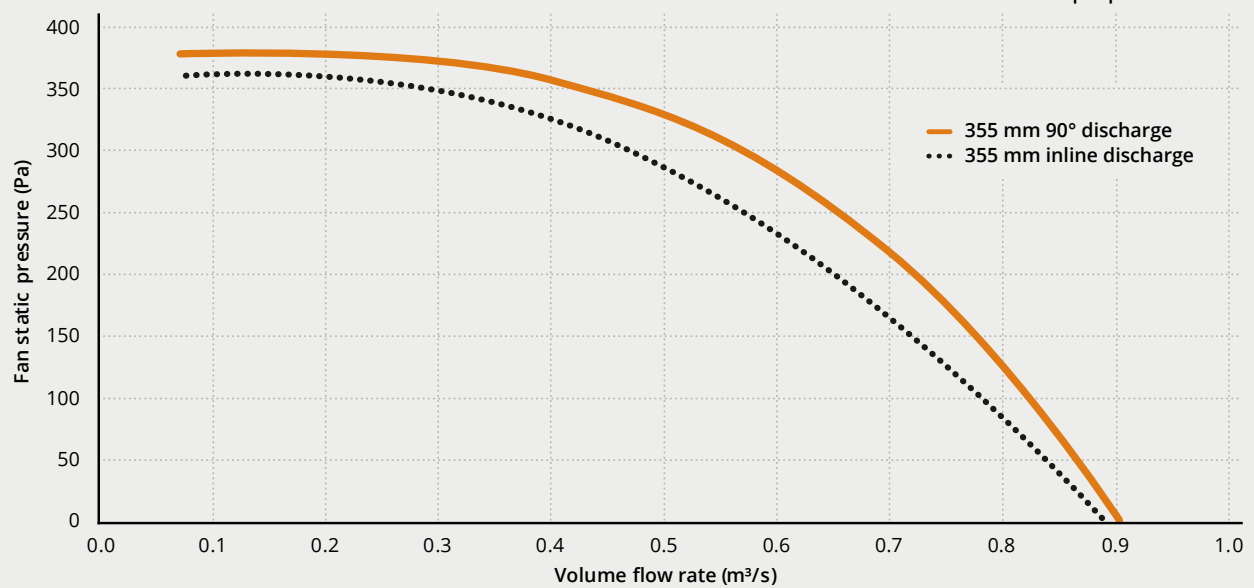
POWERBOX³ 50-315-1 & 50-315-3

1420 rpm performance



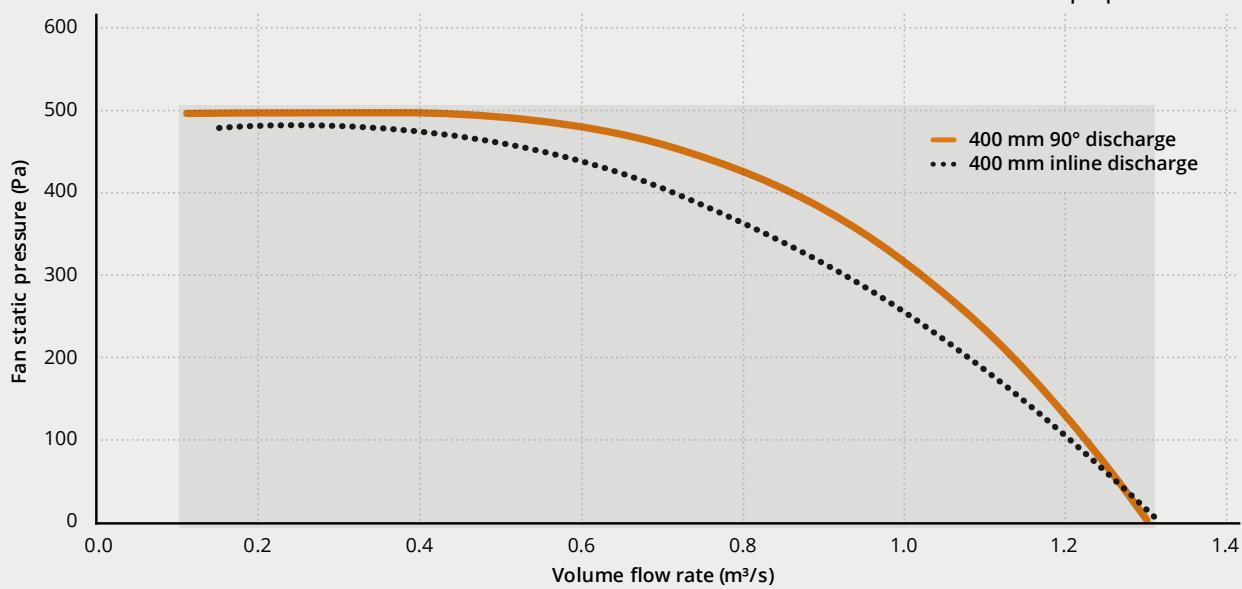
POWERBOX³ 50-355-1 & 50-355-3

1420 rpm performance



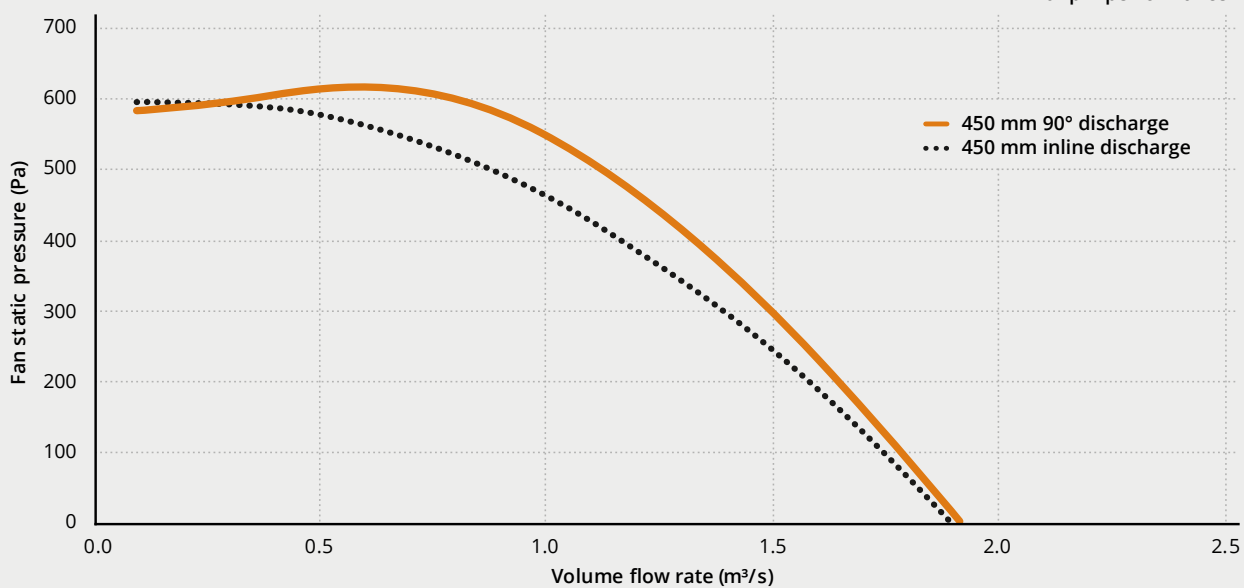
POWERBOX³ 67-400-1 & 67-400-3

1450 rpm performance



POWERBOX³ 67-450-1 & 67-450-3

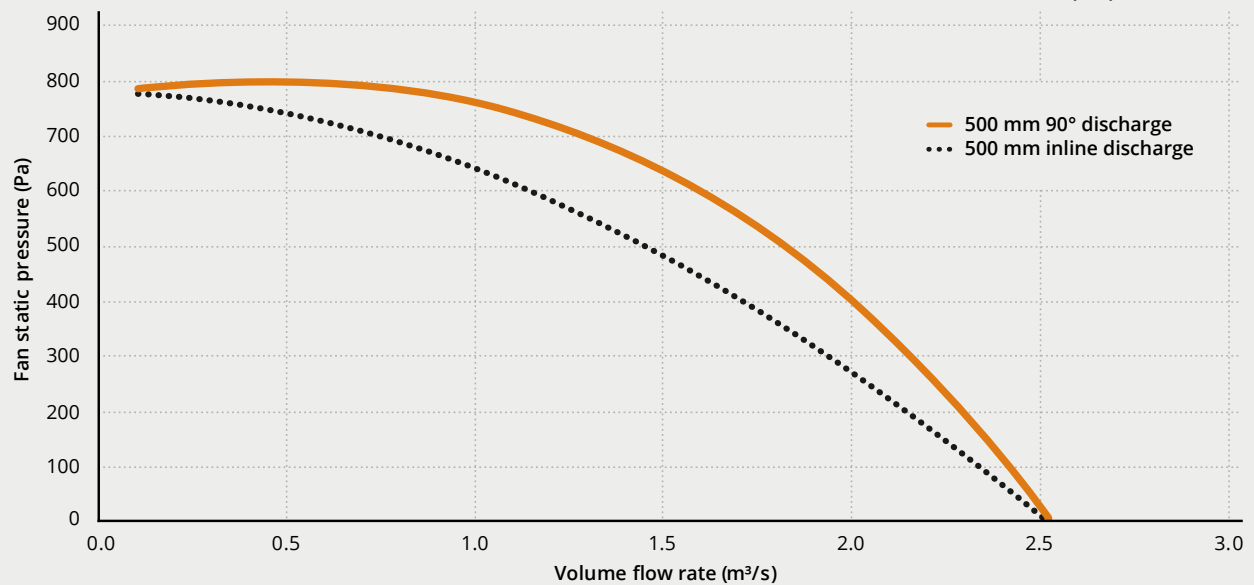
1440 rpm performance



Performance charts

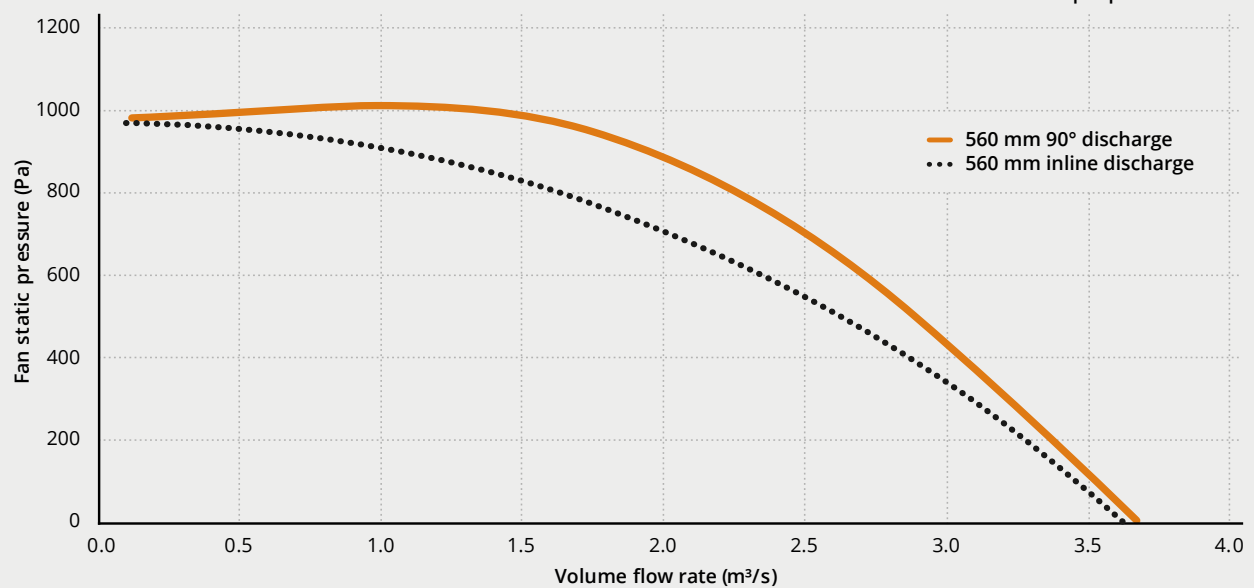
POWERBOX³ 67-500-1 & 67-500-3

1460 rpm performance



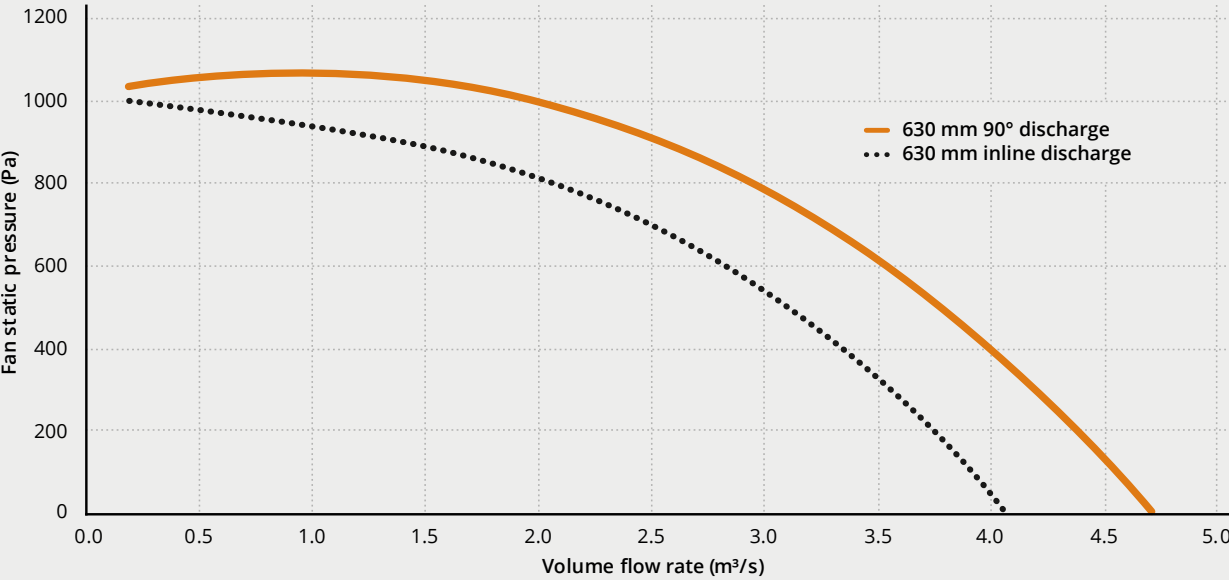
POWERBOX³ 80-560-3

1460 rpm performance



POWERBOX³ 80-630-3*

1350 rpm performance
*Requires Speed Control Drive



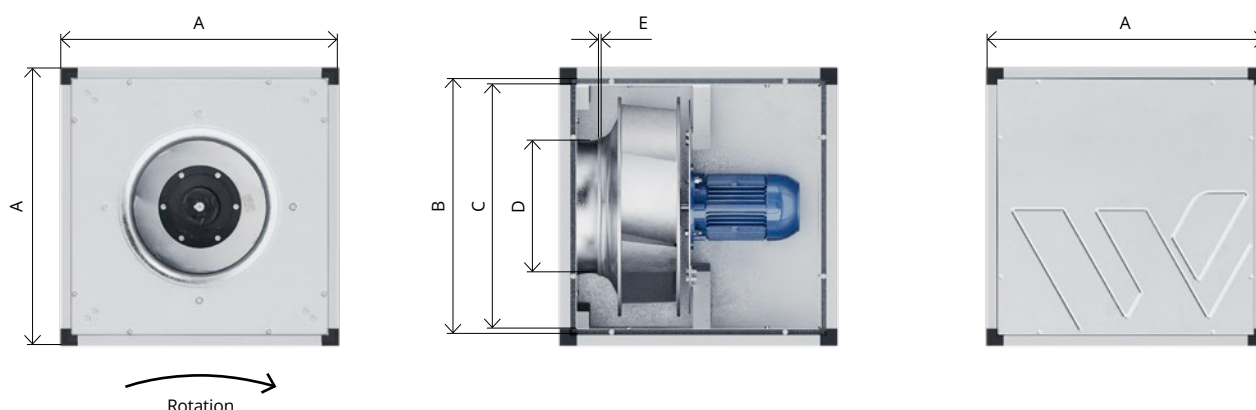
Technical details



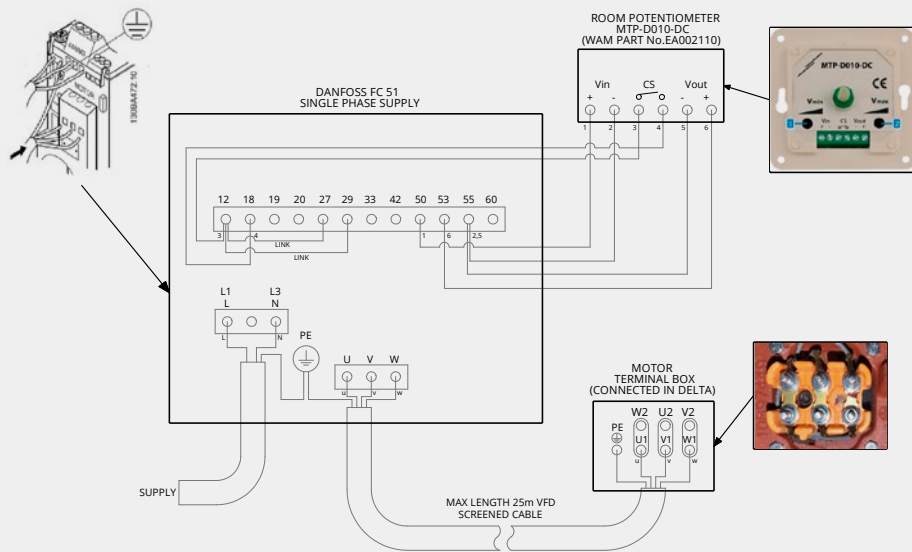
For more information and accessory and spares part numbers – please view our Fan Selector or our online Accessories Catalogue.

DIMENSIONS & WEIGHTS

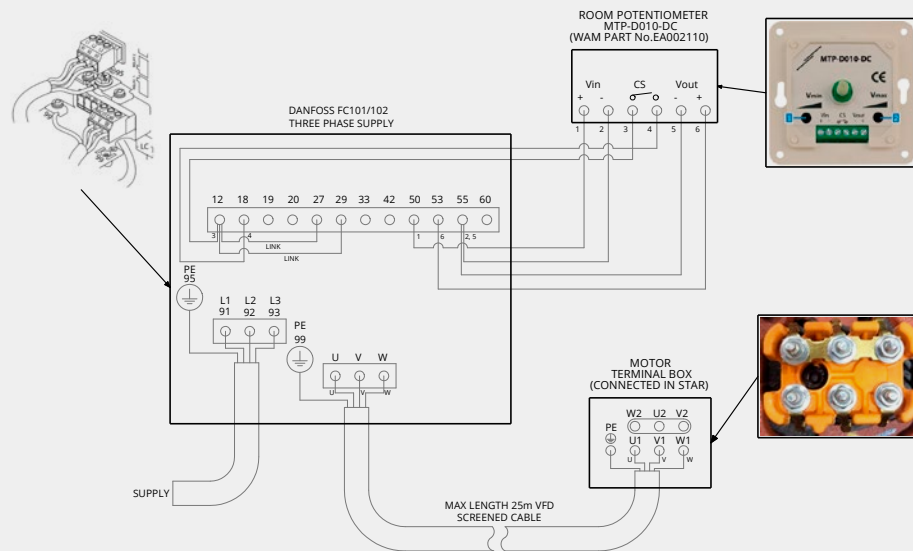
Ø	Weight (≈kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
315	43	500	460	430	218	3.15
355	45	500	460	430	246.3	3.55
400	63	670	630	600	278	4
450	65	670	630	600	312	4.5
500	73	670	630	600	346.5	5
560	108	800	740	700	388.1	5.6
630	114	800	740	700	437	6.3



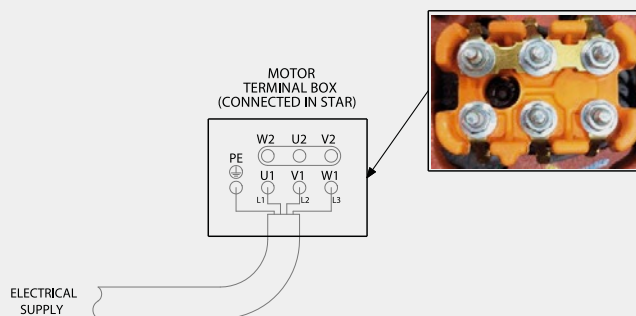
SINGLE PHASE / IEDXB20



THREE PHASE / IDDXF54, IDDXF55, IDDXF66



THREE PHASE / DOL



Woods Air Movement has a range of standard products or designs and develops a wide range of products

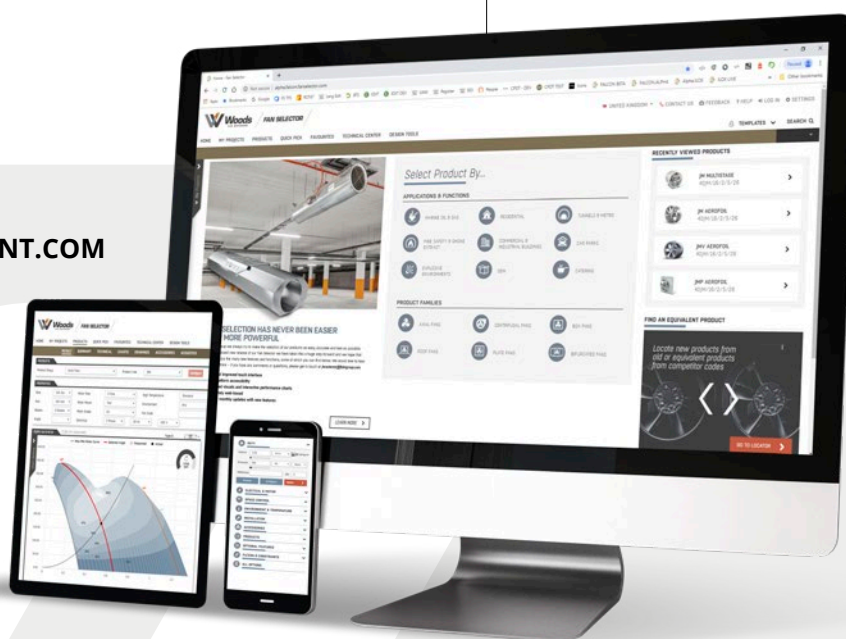
We manufacture a range of air movement and ventilation products that are the most reliable and of the best quality for various applications and industries. To ensure you receive the best quality, we run various tests on our fans before they are delivered to your doorstep.

Most of our product range are available as standard or high temperature, please contact one of our sales team members to find out more technical information on our products. If any of products do not meet your requirements then we have in-house capabilities to assist with designing, engineering and manufacturing the perfect solution for you.

ENSURING THE BEST POSSIBLE QUALITY IN EVERY DETAIL FOR OUR AXIAL FAN RANGE

- All impeller parts are X-ray inspected in accordance with ASTM E155.
- We ensure our products follow the ISO1940 Balance standards and Vibration BS848 pt 7 ISO14694.
- Our fans endure impeller strain gauge tests of speed over 125% for 15min.

> WOODSAIRMOVEMENT.COM



PRODUCT SELECTION AND CONFIGURATION HAS NEVER BEEN EASIER – OR MORE POWERFUL

We always try to make the selection of our products as easy, accurate and fast as possible. With the brand new release of our Fan Selector we have taken a huge step forward and we hope that you will enjoy the many new features and functions – including web-based multi-platform accessibility with touch interface and interactive performance charts.

Building on more than 100 years of innovation

Woods was founded in 1909 in Colchester, United Kingdom. We began as manufacturers of small electric motors and introduced a range of propeller fans in the 1920s.



Over the years, Woods moved away from manufacturing motors and concentrated on the design and manufacture of axial fans, developing the first aerofoil blade design. This continuous development has evolved into one of the world's largest ranges of certified axial fans for almost any application imaginable including fire safety, ventilation, industrial process, oil and gas and marine.

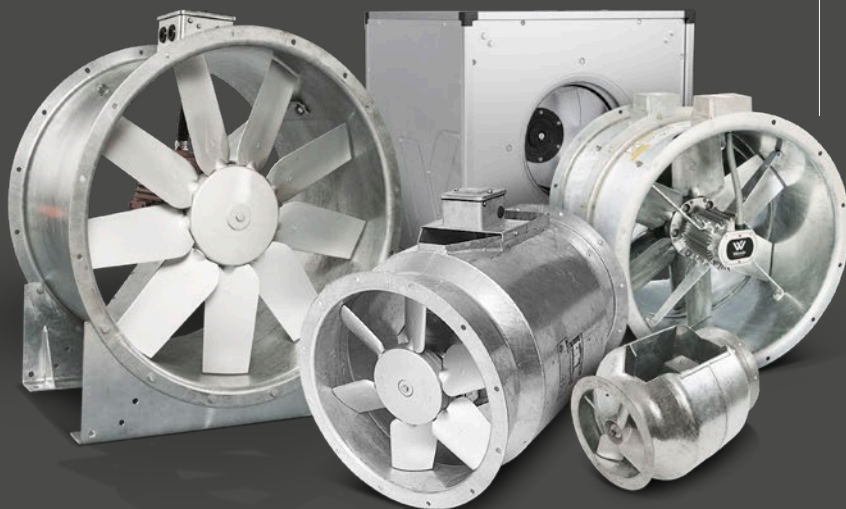
Woods was merged with Fläkt in 2002 to create Fläkt Woods which was subsequently merged with Denco Happel in 2016 to create FläktGroup. In 2020, Fläkt Woods changed their trading name to Woods Air Movement under FläktGroup holdings and opened offices in the United States of America, Germany and Singapore.

Woods has over 100 years of experience and knowledge in designing axial flow fans and remains a distinct brand within the FläktGroup family.



OUR FOOTPRINT

Our head office is situated in Colchester in the United Kingdom with the state of the art factory. We also have a factory and office in the United States of America and Singapore as well as an office situated in Germany. In India we have installed one of the first test rigs in the country. Our products are distributed and reach various markets globally, through strong partnerships with over 70 international distributors and agents.





Woods Air Movement delivers smart and energy efficient Air Movement and Fire Safety solutions to support every application area. We offer our customers innovative technologies, high quality and outstanding performance. The widest range of Air Movement and Ventilation products in the market, and strong market presence with over 100 years of experience and manufacturing of products, guarantees that we are always by your side, ready to deliver Excellence in Solutions.

**Contact our friendly sales team today
for more information**

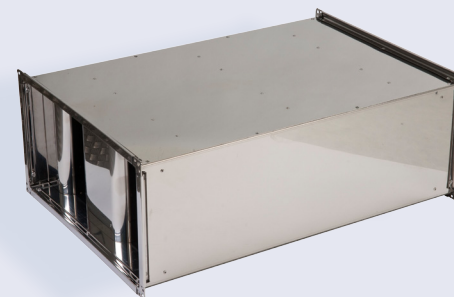
Call: +44 (0) 1206 222 555

Email: quotations.woods@flaktgroup.com
www.woodsairmovement.com





R02 6



R02 6 RECTANGULAR SILENCER

Available in **eight** standard lengths R02 6 Rectangular Duct Mounted Silencers have excellent attenuation properties, achieved with sound absorbing infill splitters, retained in the attenuator casing by a perforated liner.

The resistance to airflow is a function of the face velocity and length. It is not recommended to select the R02 6 silencers with a face velocity above 6 metres per second without asking advice regarding re-generated self noise. We can advise on the selections and can perform system analysis to ensure the correct unit is specified.

- High performance rectangular duct silencer
- Eight standard lengths
- Many connection options
- Cross section dimensions in 1mm increments
- System pressure within ducted systems to 1500 Pa
- 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
R02 6-600	2	3	6	7	12	14	11	10
R02 6-900	3	6	11	19	24	24	15	11
R02 6-1200	4	7	15	26	29	32	20	14
R02 6-1500	5	8	19	33	39	39	25	17
R02 6-1800	6	10	21	36	45	45	28	19
R02 6-2100	7	13	25	43	50	50	33	21
R02 6-2400	7	15	28	49	50	50	38	25

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.

RESISTANCE TO AIRFLOW (Pa)

FACE VELOCITY M/S	2.5	3.0	4.0	5.0	6.0
R02 6-600	12	16	23	43	63
R02 6-900	12	16	24	44	64
R02 6-1200	13	17	25	45	67
R02 6-1500	13	17	25	46	68
R02 6-1800	13	18	26	47	72
R02 6-2100	14	19	27	51	74
R02 6-2400	15	19	28	54	78

MATERIAL & FINISH

All components are manufactured from mill finish hot dip galvanised mild steel conforming to EN10327 (BS2989). To prevent erosion of absorbing materials, the R Series silencers are fitted with perforated splitters manufactured from galvanised mild steel conforming to EN10327 (BS2989)

R Series silencers utilise acoustic grade mineral fibre absorbing infill and are manufactured to the HVCA specification DW142 class B and M&E 100 for sheet steel thickness and stiffening.

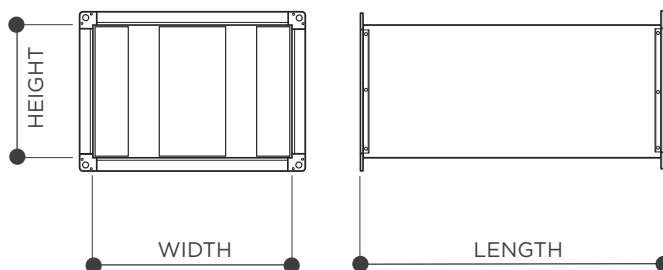
Pressure: Up to 1500 Pascal's positive and negative.
Temperature: - 12° to + 100° C.
Location: Internally & externally mountable.

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 materials such as 304 and 316 grade stainless steels, cold reduced (CR4) mild steel and aluminium.



DIMENSIONAL DATA

DIMENSION	MINIMUM	MAXIMUM
DUCT WIDTH	100mm	1200mm
DUCT HEIGHT	100mm	1200mm
LENGTH	400mm	2400mm

Units smaller than the minimum and larger than the maximum with the same areo-acoustic performances are available but may have different manufacturing methods and are therefore coded accordingly.

CONNECTION OPTIONS	
MEZ FLANGES	20, 30 & 40mm
DUCTMATE FLANGES	25 & 35mm
CIRCULAR SPIGOT	“SPIRAL FIT” circular spigots, can be offset.
RECTAGULAR SPIGOT	Rectangular spigots, can be offset
RAW	plain end for slip jointing etc.

INSTALLATION

For recommendations for the support of the fan the principles of Part six (pages 43-46) of the HVCA DW144 standard should be followed. Always use the correct size bolts as specified in the dimensional data table above. The arcuate holes are sized to allow the metric thread sizes to be utilised, for an M10 fixing for example the slot is made 19mm long by 13mm wide. Please contact us to confirm the suitability of any fan manufacturers product.

Centrifugal Fans	Position at least one duct width from inlet or outlet.
Axial Fans	Position at least one duct width from inlet or outlet.
Mixed-Flow Fans	Position at least one duct width from inlet or outlet.
Ductwork Bends	Position at least three duct widths from inlet or outlet. One duct width will increase resistance by 90%, two by 20%. Ensure splitters are in parallel plane to bend.
Ductwork Reducers	Direct couple only with reducers of maximum 15° cheek slope.
Finned Coils & Filters	Leave 500mm 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.

CLEANING

Should the product require routine cleaning we recommend low-pressure air blasting, vacuuming or wiping the exposed surfaces with 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.



SQUARE FLEXIBLE CONNECTOR

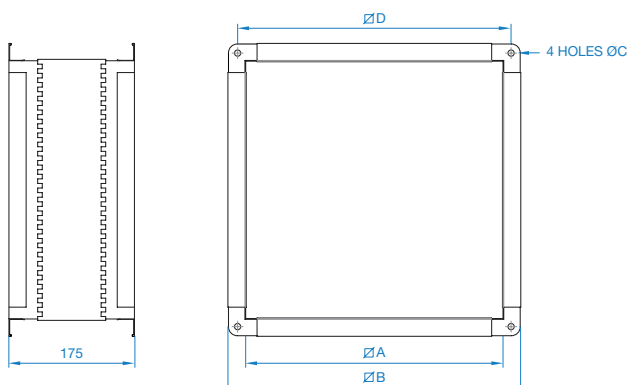
SQUARE FLEXIBLE CONNECTOR

Overview

- Provides easy flexible connection with any matched ducting
- Supplied as an assembly (less fixing)
- Grey elastomer coated fibreglass material to galvanised steel flanges



Product Code	Fan Dia.	A	B	C	D	Weight kg
063-0350-MFB	350	350	400	9	375	2.3
063-0400-MFB	400	400	450	9	425	2.6
063-0450-MFB	450	450	500	9	475	2.9
063-0500-MFB	500	500	550	9	525	3.2
063-0550-MFB	550	550	620	11	585	4.6
063-0650-MFB	650	650	720	11	685	5.4
063-0700-MFB	700	700	770	11	735	5.8
063-0800-MFB	800	800	870	11	835	6.6
063-1000-MFB	1000	1000	1070	11	1035	8.1



Dimensions are in mm.

SQUARE FLEXIBLE CONNECTOR

Notes

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Building Services

Tel **+44 (0) 1384 275800**
Fax **+44 (0) 1384 275810**
Email **info@eltafans.co.uk**

46 Third Avenue, Pensnett Trading Estate, Kingswinford,
West Midlands, DY6 7US United Kingdom

Applied Technology & Building Services Export

Tel **+44 (0) 1489 566500**
Fax **+44 (0) 1489 566555**
Email **at@eltafans.co.uk / export@eltafans.co.uk**

17 Barnes Wallis Road, Segensworth East Industrial Estate,
Fareham, Hampshire, PO15 5ST United Kingdom

eltafans.com

063-MFB-03-2018 Issue A



BS EN ISO 9001:2015 FM 556465



A MEMBER OF  ELTA GROUP