

# **Extract & Ventilation Statement**

**27A-33 Commercial Street,  
Batley, WF17 5EP**

**September 2023**

## **Extraction Ventilation Statement**

The proposal is for the installation of 1No extraction flue for the use of the property.

### **Extraction Flue**

The main elements of the grease and odour control system starts in the kitchen and will be accordance with the following:

### **Kitchen Canopy Extraction Requirements**

The canopy is as existing and contains primary grease filters and all cooking equipment is below the canopy primary grease filters are cleaned every 2 – 3 days.

The extraction system has been designed to ensure that the velocity of gases through these filters enables sufficient residence time this system has been designed to have 0.4s residence time.

### **Panel Pre Filter**

This filter will be installed in the ductwork within the filter housing this will be a disposable pleated panel filter located within the ductwork. The filter will be in-line but prior to the odour control/filtration, in the same filtration housing. The secondary filter shall be replaced every 3 months, however this could be done earlier depending on the volume of cooking.

### **Odour Control Filtration (Carbon Filter)**

Activated carbon filters will be installed after the secondary filter.

Activated-carbon filters absorbs gaseous odours, usually volatile organic compounds, onto the filter medium. The carbon filter will have a dwell time of 1.4s. there will be 2No Carbon filters installed will be checked every 3 months prior to replacement.

The carbon filtration will be located at a sufficient distance along the duct run, to prevent the heat from the cooking reducing the efficiency of the filtration. The filter housing has been designed to ensure ease of access for maintenance and to provide a good seal around the filters to prevent gases bypassing the filters, rendering them ineffective.

The internal surfaces of the filter housing shall be cleaned monthly.

The gaseous flow rates, through the filters, shall be matched to the respective retention time of each filter to achieve optimum efficiency of the filters. It is critical to achieve optimum efficiency to effectively remove grease and odour and to prevent breakthrough of grease and odour, by too great a flow.

### **Extraction Motor / Fan**

The extraction motor has been correctly rated for the application and at the correct speed/flow rate to achieve optimum performance of the filtration. The extract fan shall be mounted on Anti – Vibration component and the extraction motor will be cleaned and maintained in accordance with the manufactures specifications. The motor controller shall be located in the kitchen and be of, two speed or variable speed design, adjusted so that the speed settings correlate to and achieve the optimum flow rates of the odour control system.

## **Noise Control / Attenuator**

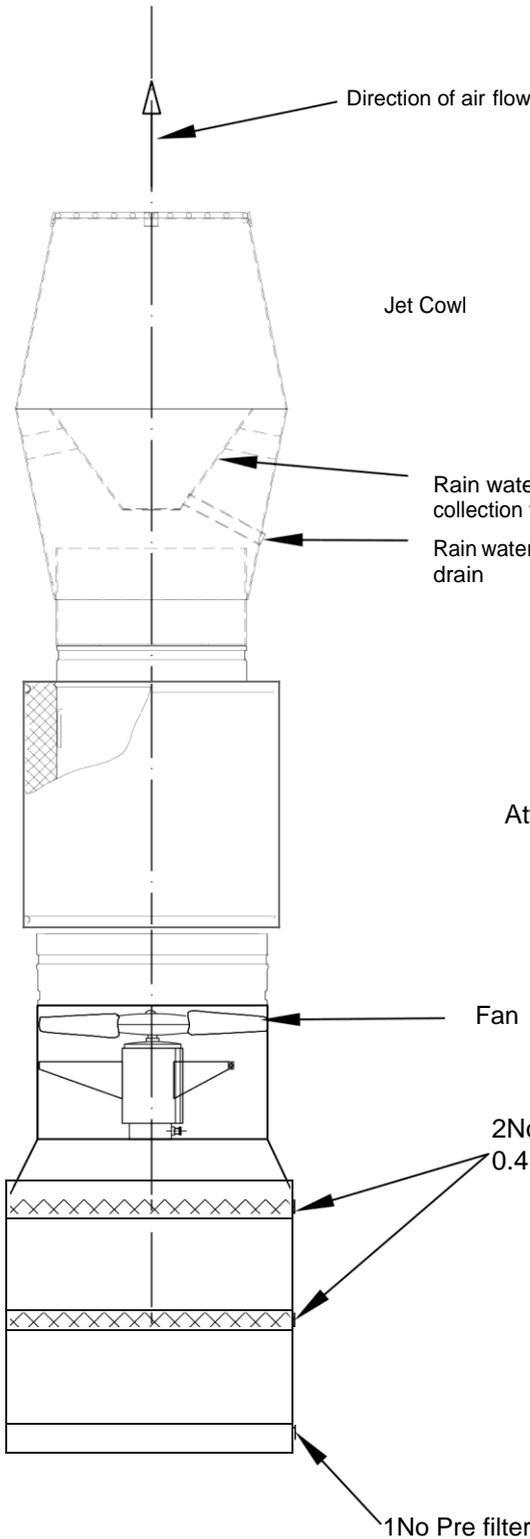
Noise control shall be implemented; attenuator will be installed after fan installation as per schematic. The attenuation will be of pod type supplied by London Fans.

## **Noise Level Assessment**

British Standard 8233:1999 'Sound insulation and noise reduction for buildings – Code of Practice' gives recommendations for acceptable internal noise levels in residential properties. Assuming worst case conditions, of the closest window being for a bedroom, BS8233:1999 recommends 30-35dB(A) as being 'Good' to 'Reasonable' internal resting/sleeping conditions. With external levels of 40dB(A) at this window, the window itself would need to provide 10dB attenuation to achieve 'Good' conditions. However, according to BS8233:1999, a partially open window offers between 10-15dB attenuation.

## **Final Termination**

The ducting shall discharge slightly above eaves level with no restriction to final opening. Duct termination has been designed to achieve a vertical efflux velocity of at least 8 metres per second (m/s).



Notes:

1. For component details refer to specification.
2. Length and position may vary slightly due to site conditions.
3. The filters and flue will be maintained every 3 months by a specialist.
4. Anti-vibration component will be installed on the fan.
5. Internal canopy grease filters etc will be maintained by user.
6. Ductwork to include sump at bends

Information Only

Existing Canopy  
grease filter not  
shown

client

project

title      Extraction flue component schematic

|     |            |            |            |
|-----|------------|------------|------------|
| rev | amendments | scale: NTS | drawing no |
|     |            |            |            |

# V Line Pleated Panel Filter

## Economy Standard

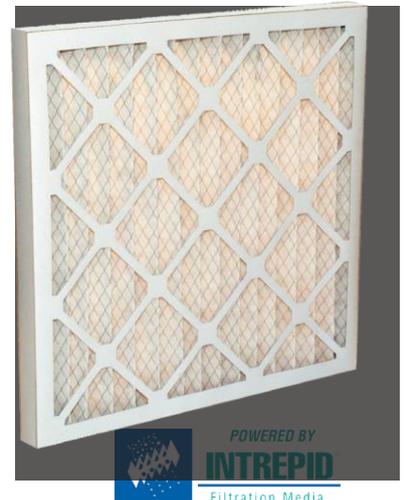


### General Description

The V Line pleated Panel filter is a standard capacity disposable product offering a better than basic level of filtration, or pre-filtration in HEVAC applications. This product is made using patented Kimberly Clark media which delivers a constant level of filtration over its life.

### Construction

This product is constructed by bonding a pleat pack of Intrepid V Line media into a water repellent AquaKote card frame



### Features

The Frame is made from AquaKote card which has

- Superior tear resistance when wet
- Great dry tear resistance and
- Manufactured from a renewable source.

### Kimberley Clark Patented Intrepid Media

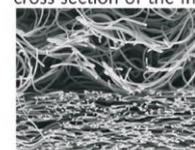
- Has a Graduated Density for even dirt loading , resulting in greater dust holding
- Hydrophobic – so will not load with moisture in the air
- Has a constant efficiency due to its extra electrostatic charge
- Superior Efficiency V's Particle size (see table)
- Has a low pressure drop
- Is made form continuous fibres so will not shed

Test Comparing Filtration efficiency V's different sized particles. Intrepid Media V's Cotton Polyester Filters

| Particle Size Rang(mm) | Initial Fractional Efficiency(%) |                                    |
|------------------------|----------------------------------|------------------------------------|
|                        | V Line Intrepid                  | The "best" Cotton Poly Alternative |
| 0.3-0.4                | 7                                | 2                                  |
| 0.4-0.55               | 15                               | 6                                  |
| 0.55-0.7               | 28                               | 11                                 |
| 0.7-1.0                | 41                               | 19                                 |
| 1.0-1.3                | 52                               | 24                                 |
| 1.3-1.6                | 58                               | 28                                 |
| 1.6-2.2                | 63                               | 32                                 |
| 2.2-3.0                | 67                               | 36                                 |
| 3.0-4.0                | 70                               | 37                                 |
| 4.0-5.5                | 71                               | 38                                 |
| 5.5-7.0                | 72                               | 38                                 |
| 7.0-10.0               | 73                               | 39                                 |

|                                     |               |                       |
|-------------------------------------|---------------|-----------------------|
| Filter Efficiency to BS EN 779      |               | <b>G4</b>             |
| Rating to ASHRAE 52.2 Test Standard |               | Merv 8                |
| Filter Thickness                    | Rated Airflow | Initial Pressure Drop |
| 20mm                                | 1.5m/sec      | 60Pa                  |
| 45mm                                | 2.0m/sec      | 62Pa                  |
| 95mm                                | 2.5m/sec      | 80Pa                  |
| Final Recommended Pressure Drop     |               | 250Pa                 |

Hi Magnification photo showing the cross section of the Intrepid media



Coarse  
 ↓ Airflow  
 Fine

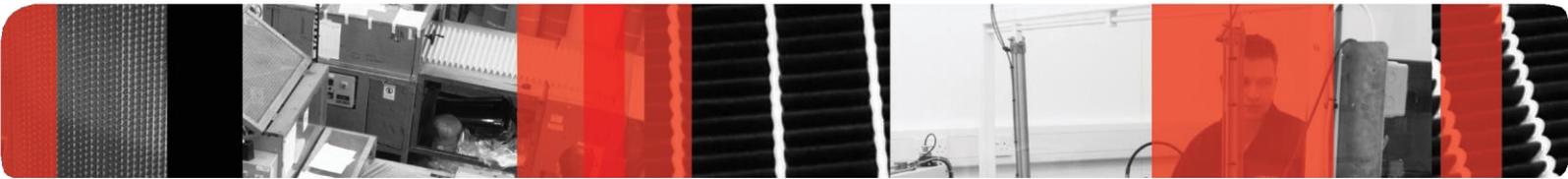


FM 29257  
 BS EN ISO 9001:2008



EMS 81914  
 BS EN ISO 14001:2004

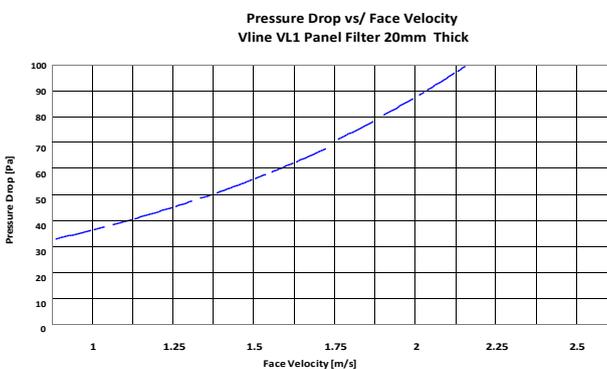
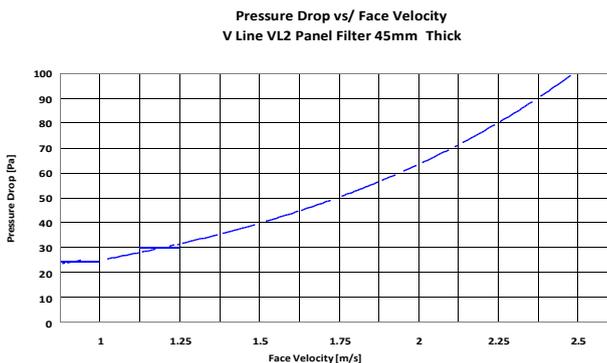
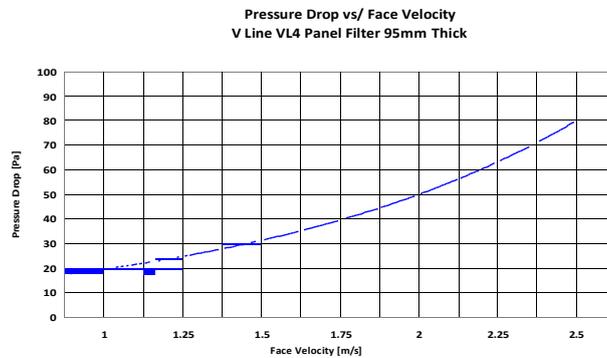
# V Line Panel Filter (VL) STANDARD SIZES



| No.      | Nominal Size Inches | Height (mm) | Width (mm) | Depth (mm) | Rated Airflow m <sup>3</sup> /hr |
|----------|---------------------|-------------|------------|------------|----------------------------------|
| VL4-1010 | 10x10x4             | 241         | 241        | 95         | 544                              |
| VL4-1020 | 10x20x4             | 241         | 495        | 95         | 1117                             |
| VL4-1212 | 12x12x4             | 292         | 292        | 95         | 798                              |
| VL4-1224 | 12x24x4             | 292         | 594        | 95         | 1623                             |
| VL4-1515 | 15x15x4             | 368         | 368        | 95         | 1268                             |
| VL4-1520 | 15x20x4             | 368         | 495        | 95         | 1705                             |
| VL4-1616 | 16x16x4             | 394         | 394        | 95         | 1453                             |
| VL4-1620 | 16x20x4             | 394         | 495        | 95         | 1825                             |
| VL4-1625 | 16x25x4             | 394         | 622        | 95         | 2294                             |
| VL4-1818 | 18x18x4             | 445         | 445        | 95         | 1854                             |
| VL4-1831 | 18x31x4             | 445         | 775        | 95         | 3228                             |
| VL4-2020 | 20x20x4             | 495         | 495        | 95         | 2293                             |
| VL4-2024 | 20x24x4             | 495         | 594        | 95         | 2752                             |
| VL4-2025 | 20x25x4             | 495         | 622        | 95         | 2882                             |
| VL4-2424 | 24x24x4             | 594         | 594        | 95         | 3303                             |

| No.      | Nominal Size Inches | Height (mm) | Width (mm) | Depth (mm) | Rated Airflow m <sup>3</sup> /hr |
|----------|---------------------|-------------|------------|------------|----------------------------------|
| VL2-1010 | 10x10x2             | 241         | 241        | 45         | 418                              |
| VL2-1020 | 10x20x2             | 241         | 495        | 45         | 859                              |
| VL2-1212 | 12x12x2             | 292         | 292        | 45         | 614                              |
| VL2-1224 | 12x24x2             | 292         | 594        | 45         | 1249                             |
| VL2-1515 | 15x15x2             | 368         | 368        | 45         | 975                              |
| VL2-1520 | 15x20x2             | 368         | 495        | 45         | 1312                             |
| VL2-1619 | 16x19x2             | 394         | 470        | 45         | 1333                             |
| VL2-1620 | 16x20x2             | 394         | 495        | 45         | 1404                             |
| VL2-1624 | 16x24x2             | 394         | 594        | 45         | 1685                             |
| VL2-1625 | 16x25x2             | 394         | 622        | 45         | 1764                             |
| VL2-1818 | 18x18x2             | 445         | 445        | 45         | 1426                             |
| VL2-1820 | 18x20x2             | 445         | 495        | 45         | 1586                             |
| VL2-1824 | 18x24x2             | 445         | 594        | 45         | 1903                             |
| VL2-2020 | 20x20x2             | 495         | 495        | 45         | 1764                             |
| VL2-2024 | 20x24x2             | 495         | 594        | 45         | 2117                             |
| VL2-2025 | 20x25x2             | 495         | 622        | 45         | 2217                             |
| VL2-2424 | 24x24x2             | 594         | 594        | 45         | 2540                             |

| No.      | Nominal Size Inches | Height (mm) | Width (mm) | Depth (mm) | Rated Airflow m <sup>3</sup> /hr |
|----------|---------------------|-------------|------------|------------|----------------------------------|
| VL1-1010 | 10x10x1             | 241         | 241        | 20         | 314                              |
| VL1-1020 | 10x20x1             | 241         | 495        | 20         | 644                              |
| VL1-1212 | 12x12x1             | 292         | 292        | 20         | 460                              |
| VL1-1224 | 12x24x1             | 292         | 594        | 20         | 937                              |
| VL1-1515 | 15x15x1             | 368         | 368        | 20         | 731                              |
| VL1-1520 | 15x20x1             | 368         | 495        | 20         | 984                              |
| VL1-1619 | 16x19x1             | 394         | 470        | 20         | 1000                             |
| VL1-1620 | 16x20x1             | 394         | 495        | 20         | 1053                             |
| VL1-1624 | 16x24x1             | 394         | 594        | 20         | 1264                             |
| VL1-1625 | 16x25x1             | 394         | 622        | 20         | 1323                             |
| VL1-1818 | 18x18x1             | 445         | 445        | 20         | 1069                             |
| VL1-1820 | 18x20x1             | 445         | 495        | 20         | 1189                             |
| VL1-1824 | 18x24x1             | 445         | 594        | 20         | 1427                             |
| VL1-2020 | 20x20x1             | 495         | 495        | 20         | 1323                             |
| VL1-2024 | 20x24x1             | 495         | 594        | 20         | 1588                             |
| VL1-2025 | 20x25x1             | 495         | 622        | 20         | 1663                             |
| VL1-2424 | 24x24x1             | 594         | 594        | 20         | 1905                             |



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# Northern Fan Supplies Ltd

## Technical Data Sheet MaXfan Compac



|                  |   |              |                            |
|------------------|---|--------------|----------------------------|
| Quotation Number | : | Project Code | :                          |
| Project Name     | : | Customer     | :                          |
| Item Reference:  | : | Date:        | : Friday, January 31, 2020 |

|                                     |                   |
|-------------------------------------|-------------------|
| Fan Code                            | 56 MaXfan Compac  |
| Fan Diameter / Size                 | 560 Size / mm     |
| Fan Speed                           | 2910 rpm          |
| Velocity                            | 11.6 m/s          |
| Blade Angle                         | 16°               |
| Installation Type / Form of Running | D / AB (Vertical) |
| Fan Casing                          | Long              |

|                         |                            |
|-------------------------|----------------------------|
| Requested Duty          | 2.81m³/s @ 474 Pa (static) |
| Outlet Dynamic Pressure | 81 Pa                      |

|                  |         |
|------------------|---------|
| Duty Shaft Power | 2.09 kW |
| Max Shaft Power  | 2.22 kW |
| Total Efficiency | 77.9 %  |

|                   |                             |
|-------------------|-----------------------------|
| Motor Frame       | 90L [ Class F ]             |
| Motor Rating      | 2.64 kW [ IE2 ]             |
| Full Load Current | 9.36 A                      |
| Starting Current  | 52.8 A                      |
| Motor Mounting    | Pad                         |
| Electrical Supply | 220-240 Volts 50 Hz 1 Phase |
| Start Type        | DOL                         |
| Motor Winding     | Standard                    |
| Enclosure         | Standard All                |

|                          |                            |
|--------------------------|----------------------------|
| ErP [FMEG] Rating        | N 70 (ErP Compliant)       |
| ErP [FMEG] Target        | N 58                       |
| FMEG Blade Angle [Range] | 0° [ 0° - 0° ]             |
| Measurement Category     | D (Total)                  |
| VSD                      | N                          |
| Fan + Motor Efficiency   | 66.7% (3.44 m³/s @ 467 Pa) |
| Motor Input Power (ErP)  | 2.41 kW                    |

|                     |                               |
|---------------------|-------------------------------|
| SFP value           | 0.88 W/(l/s) @ Requested Duty |
| Power from mains    | 2.51 kW                       |
| Energy Consumption  | 7529 kWh (3000 h/year)        |
| Running Cost / Year | £678                          |

|                |                                  |
|----------------|----------------------------------|
| Air Density    | 1.2 kg/m³ / 20 °C / 0 m / 50% RH |
| Smoke Venting  | Non Smoke Venting                |
| Product Number | EJ563236                         |

Performance data has been derived from tests carried out in a Flakt Woods laboratory, in accordance with ISO 5801 and is specifically applicable for Ducted installations. When an electronic controller is incorporated, enhanced motor noise can occur - particularly when the operating speed is well below maximum. FWL therefore recommend using an auto transformer speed controller for noise sensitive applications. Bifurcateds are Erp exempt when used continuously at >100C. They are not for use in the EEA at lower temperatures.

The MaXfan Compac includes a preprogrammed inverter drive to operate via 1 phase supply, offering full speed control and optimised performance.

Acoustic data has been derived from tests carried out in a Flakt Woods laboratory, in accordance with BS 848 Pt 2, 1985 / BS EN ISO 5136 under Ducted conditions. The single figure provided is the overall Inlet sound pressure level at the specified distance, under spherical, free field conditions.

Acoustic figures for adjusted running speeds have been interpolated and are for reference only.

This Offer is made subject to the latest version of our A100-19 Terms and Conditions, a copy of which can be made available on request.

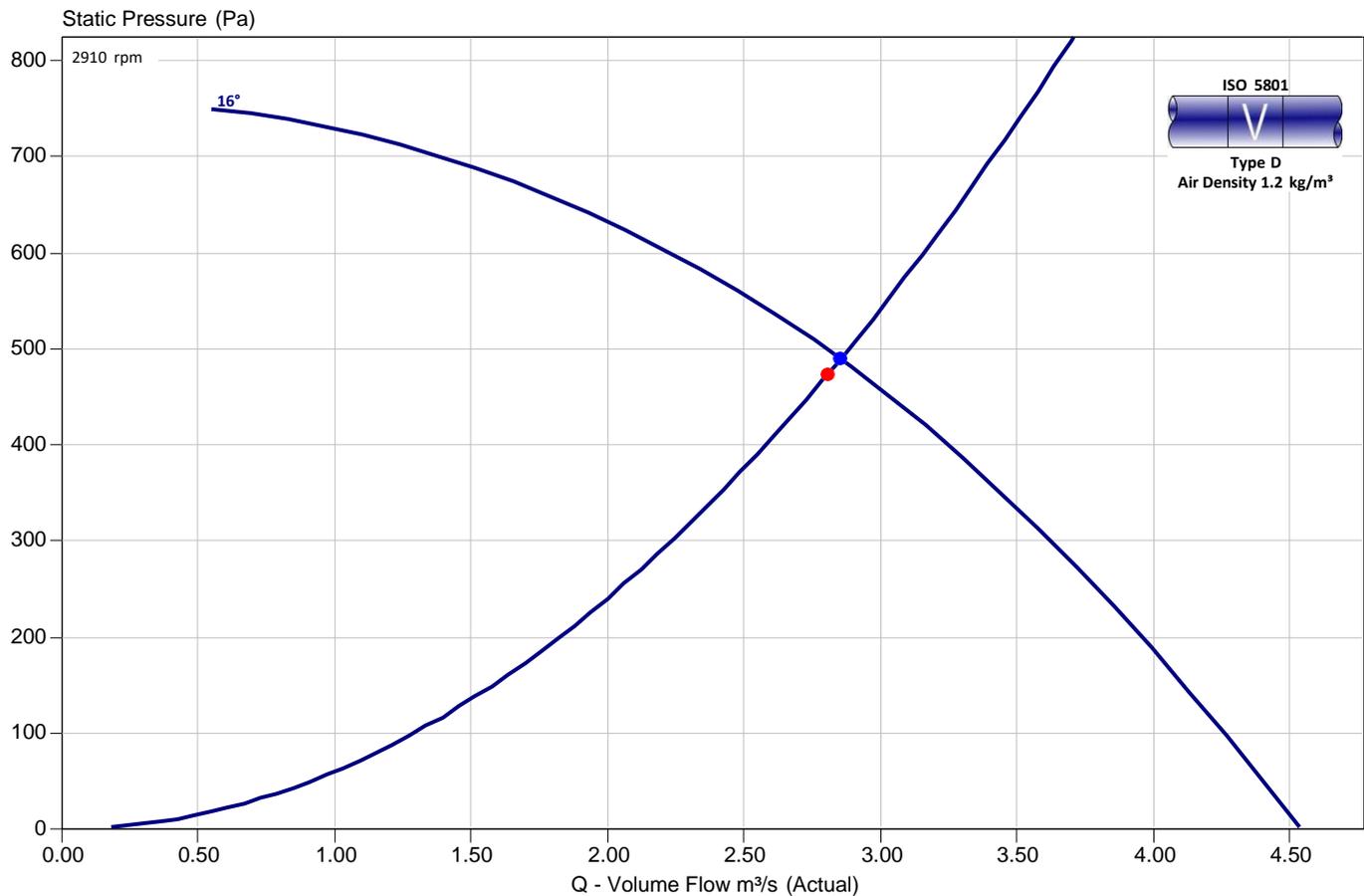
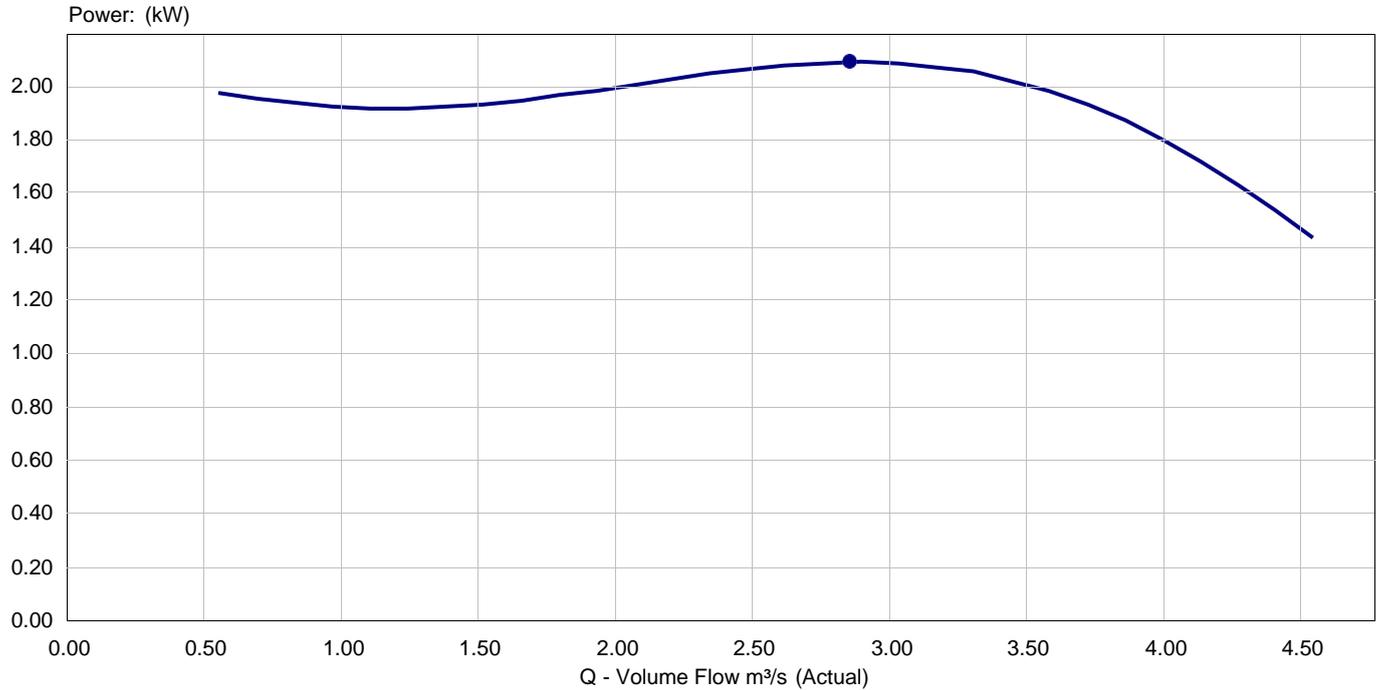
|           | Sound Spectrum (Hz) |     |     |     |    |    |    |    | Overall |             |
|-----------|---------------------|-----|-----|-----|----|----|----|----|---------|-------------|
|           | 63                  | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Lw*     | LpA @ 3 m** |
| Inlet*    | 85                  | 92  | 89  | 91  | 88 | 85 | 79 | 77 | 97      | 73          |
| Outlet*   | 86                  | 94  | 90  | 91  | 89 | 86 | 80 | 78 | 98      | 73          |
| Breakout* | 76                  | 73  | 64  | 66  | 64 | 59 | 61 | 54 | 79      | 49          |

\* Lw dB re 10<sup>-12</sup> W  
\*\* dBA re 2x10<sup>-5</sup> Pa  
Sound data at requested duty.

| Description                 | Qty |
|-----------------------------|-----|
| <b>Fan</b>                  |     |
| EJ563236 - 56 MaXfan Compac | 1   |
| <b>Accessories</b>          |     |
| Inverter                    | 1   |
| Thermistors                 | 1   |



|                  |   |              |                            |
|------------------|---|--------------|----------------------------|
| Quotation Number | : | Project Code | :                          |
| Project Name     | : | Customer     | :                          |
| Item Reference:  | : | Date:        | : Friday, January 31, 2020 |
|                  |   | Fan Code     | : 56 MaXfan Compac         |





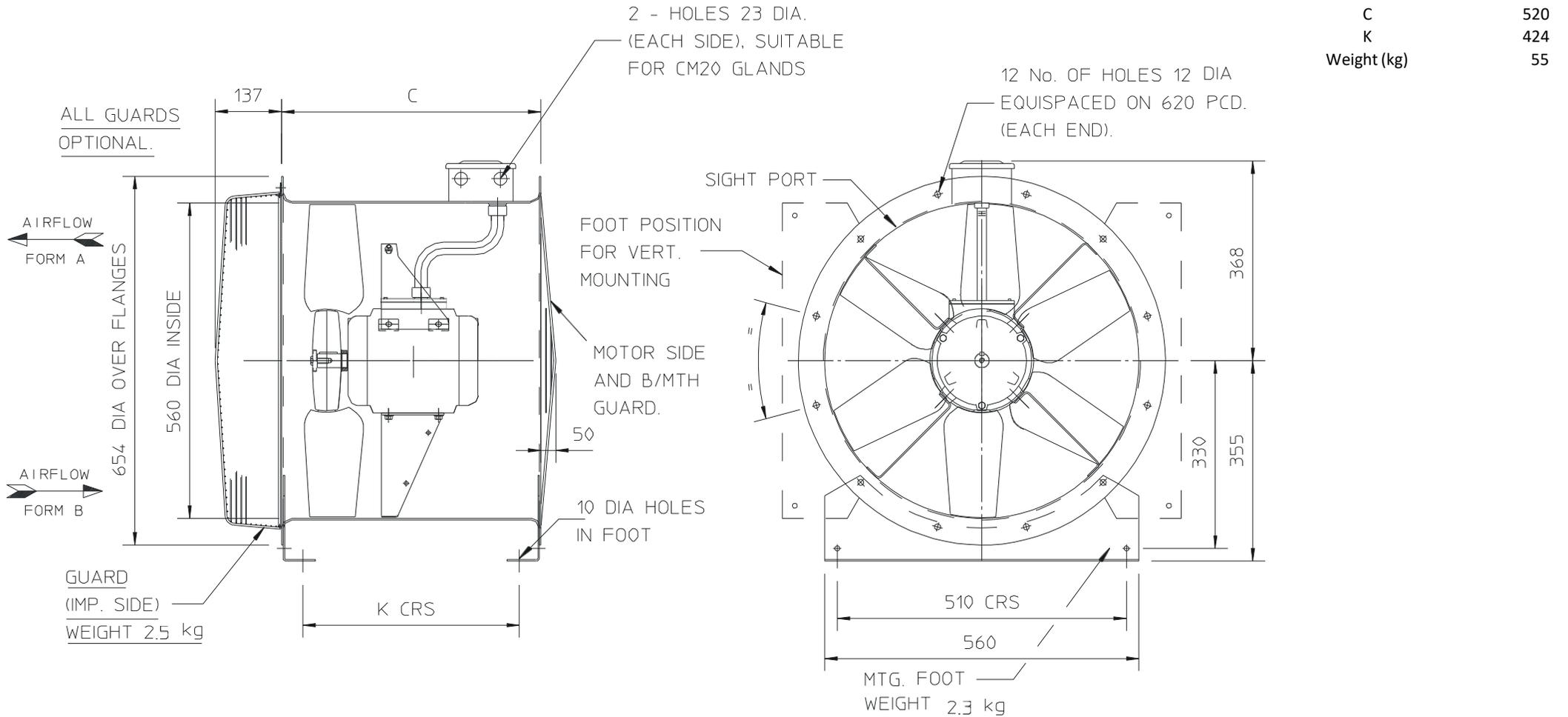
# Northern Fan Supplies Ltd

Drawing and Dimensions  
MaXfan Compac



Quotation Number :  
Project Name :  
Item Reference :

Fan Code : 56 MaXfan Compac  
Customer :  
Date : Friday, January 31, 2020



Notes : Dimensions shown in mm / Weight in kg

Reference:D275256

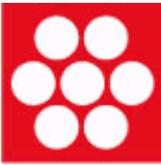
This drawing shows dimensions that should be used as a guide only and are subject to change. Certified drawings are available on request.

Unit E1 Longford Trading Estate  
Thomas Street, Lancashire, M32 0JT  
Tel: 0161 864-1777 Fax: 0161 864-2777

Website: [www.nfan.co.uk](http://www.nfan.co.uk)  
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Printed on 31 January 2020

Selection Engine: 3.1.3.28a



# AC207-2-2424

Carbon Panel 24x24x2 Grade 70% CTC

## Description/Application

Carbon 208 EA - High grade carbon panel filters Grade: Minimum 70% CTC

### Description

Made with a strong galvanised steel frame, our archive grade carbon filters use granules of activated carbon bonded together to form a carbon panel. Whats more, our archive grade carbon panel filters are specially treated for enhanced H25 removal. Our very own dry bonding technique allows the finished filter to maintain the characteristics of unbonded carbon and negates any possibility of settling or bowing which can happen in loose fill panels.

## Application

### Specification

#### EU Grade

207C

#### Efficiency (>95%)

μ (Micron)

#### Capacity

Rated Capacity (CFM): 336

Rated Capacity (M<sup>3</sup>/hr): 572

#### Resistance

### Dimensions

Nominal (Inches): 24x24x2

Actual (mm): 594x594x45

Pockets:

### Visual



FM 29257  
BS EN ISO 9001:2000



Riverside House, Parrett Way, Colley Lane, Bridgwater, Somerset TA6 5LB  
Tel: +44(0)1278 452277 Fax: +44(0)1278 450873 sales@jfilters.com www.jfilters.com



EMS 81914  
BS EN ISO 14001:1996



## CASED AXIAL ACCESSORIES

### SILENCER

#### PERFORMANCES

The performances are derived from tests to BS848. Measurements of fan noise are made with and without the silencer in position. The difference between recorded levels is the dynamic (with airflow) attenuation or insertion loss of the silencer. Type B silencers may be directly coupled to both inlet and outlet flanges of the fan. When type C silencers are directly coupled to the fan flanges they are most effective on the outlet. A spacer duct of 1D length between the fan inlet flange and a type C silencer is necessary to ensure maximum performance.

Note: C type silencers mounted close to a fan may effect the aerodynamic performance.

#### CONSTRUCTION

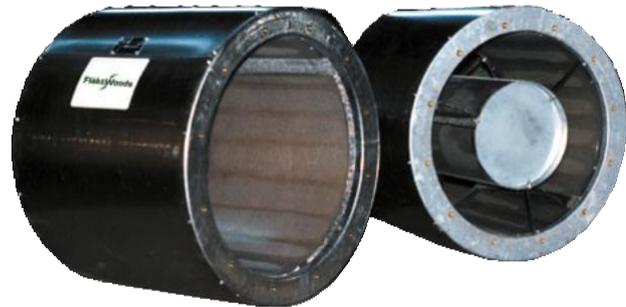
Casings are of rolled, pre-galvanised sheet steel with spun end rings incorporating tapped inserts for fixing. Suitable fixing screws are provided with all steel silencers.

The absorbent material is acoustic grade mineral fibre with an erosion resistant facing. It is protected and contained by a pre-galvanised perforated steel sheet formed to match the fan diameter.

Cylindrical silencers shall be suitable for air pressures up to a maximum of 1000 Pa. For duct pressures in excess of 1000 Pa please enquire.

A Melinex Lining (variant code M) can be supplied for critically clean applications such as hospitals to ensure no fibre migration. The lining may also be used in moisture or grease laden conditions, such as kitchen extract systems where the material is used to stop the ingress of grease etc. into the acoustic media.

The use of the lining also allows the silencers to be low pressure steam cleaned. Some reduction of attenuation due to the lining will be experienced.



#### SIZE RANGE

Type B silencer bore diameters range from 280 mm to 1000 mm metric range in lengths equal to or twice the bore diameter (ID or 2D) Pressure loss for type B silencers is the same as a plain duct.

Type C silencers have a centrally mounted absorbent pod in the airway for increased attenuation. The pressure loss due to the pod is provided in Fan Selector when selecting the C type silencer as an accessory.

The diameter range is 315 mm to 1000 mm metric range.

#### FINISHES

Standard finish is galvanised zinc coating to BS2989 Z2. Other finishes including epoxy paint are available to special order.

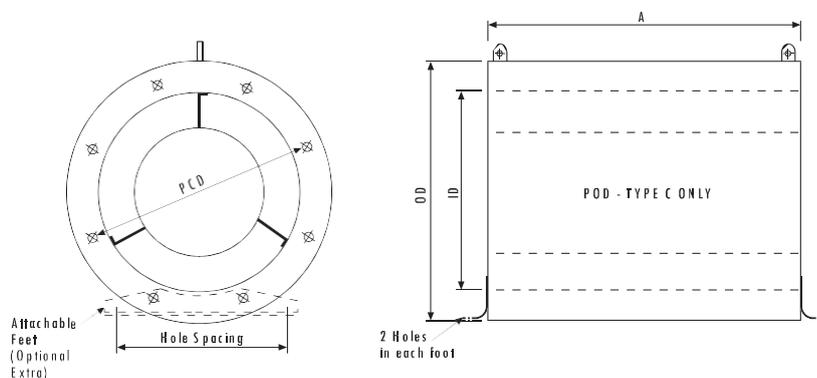
#### TEMPERATURE RANGE

Standard silencers are suitable for temperatures from -40°C to 200°C. When moisture resistant lining is used the continuous air handling temperature is limited to 80°C. Special treatments enable silencers to operate at temperatures up to 600°C. For smoke applications, please enquire.

#### MOUNTING

Galvanised steel mounting feet and matching flanges corresponding to those supplied for Aerofoil fans are available.

## CASED AXIAL ACCESSORIES



### B TYPE SILENCER

| Bore Dia.<br>mm (A) | Product Number<br>(B1D) | OD   | No of<br>holes | PCD  | Thread | Mounting Foot holes |         | A Length |      | Weight<br>(kg) |     |
|---------------------|-------------------------|------|----------------|------|--------|---------------------|---------|----------|------|----------------|-----|
|                     |                         |      |                |      |        | Dia                 | Spacing | 1D       | 2D   | 1D             | 2D  |
| 315                 | SB211401                | 415  | 8              | 355  | M8     | 10                  | 265     | 315      | 630  | 10             | 17  |
| 355                 | SB221401                | 455  | 8              | 395  | M8     | 10                  | 305     | 355      | 710  | 12             | 20  |
| 400                 | SB241401                | 500  | 8              | 450  | M10    | 10                  | 350     | 400      | 800  | 15             | 25  |
| 450                 | SB251401                | 600  | 8              | 500  | M10    | 10                  | 400     | 450      | 900  | 20             | 33  |
| 500                 | SB271401                | 650  | 12             | 560  | M10    | 10                  | 450     | 500      | 1000 | 25             | 41  |
| 560                 | SB281401                | 710  | 12             | 620  | M10    | 10                  | 510     | 560      | 1120 | 30             | 50  |
| 630                 | SB301401                | 780  | 12             | 690  | M10    | 12                  | 580     | 630      | 1260 | 35             | 61  |
| 710                 | SB311401                | 860  | 16             | 770  | M10    | 10                  | 660     | 710      | 1420 | 44             | 76  |
| 800                 | SB331401                | 1000 | 16             | 860  | M10    | 12                  | 750     | 800      | 1600 | 55             | 96  |
| 900                 | SB341401                | 1100 | 16             | 970  | M12    | 12                  | 850     | 900      | 1800 | 70             | 129 |
| 1000                | SB351401                | 1200 | 16             | 1070 | M12    | 12                  | 950     | 1000     | 2000 | 82             | 157 |

### C TYPE SILENCER (PODDED)

| Bore Dia.<br>mm (A) | Product Number<br>(C1D) | OD   | No of<br>holes | PCD  | Thread | Mounting Foot holes |         | A Length |      | Weight<br>(kg) |     |
|---------------------|-------------------------|------|----------------|------|--------|---------------------|---------|----------|------|----------------|-----|
|                     |                         |      |                |      |        | Dia                 | Spacing | 1D       | 2D   | 1D             | 2D  |
| 315                 | SC211401                | 415  | 8              | 355  | M8     | 10                  | 265     | 315      | 630  | 13             | 19  |
| 355                 | SC221401                | 455  | 8              | 395  | M8     | 10                  | 305     | 355      | 710  | 15             | 24  |
| 400                 | SC241401                | 500  | 8              | 450  | M10    | 10                  | 350     | 400      | 800  | 18             | 30  |
| 450                 | SC251401                | 600  | 8              | 500  | M10    | 10                  | 400     | 450      | 900  | 24             | 39  |
| 500                 | SC271401                | 650  | 12             | 560  | M10    | 10                  | 450     | 500      | 1000 | 29             | 48  |
| 560                 | SC281401                | 710  | 12             | 620  | M10    | 10                  | 510     | 560      | 1120 | 35             | 58  |
| 630                 | SC301401                | 780  | 12             | 690  | M10    | 12                  | 580     | 630      | 1260 | 42             | 72  |
| 710                 | SC311401                | 860  | 16             | 770  | M10    | 10                  | 660     | 710      | 1420 | 53             | 90  |
| 800                 | SC331401                | 1000 | 16             | 860  | M10    | 12                  | 750     | 800      | 1600 | 66             | 116 |
| 900                 | SC341401                | 1100 | 16             | 970  | M12    | 12                  | 850     | 900      | 1800 | 84             | 150 |
| 1000                | SC351401                | 1200 | 16             | 1070 | M12    | 12                  | 950     | 1000     | 2000 | 100            | 182 |



## CASED AXIAL ACCESSORIES

### SILENCER ACOUSTIC PERFORMANCE

#### TYPE B DYNAMIC ATTENUATION

| BORE DIA.<br>MM(D) | LENGTH | OCTAVE-BAND MID FREQUENCIES HZ |     |     |     |    |    |    |    |
|--------------------|--------|--------------------------------|-----|-----|-----|----|----|----|----|
|                    |        | 63                             | 125 | 250 | 500 | 1K | 2K | 4K | 8K |
| 315                | 1D     | 1                              | 2   | 4   | 9   | 11 | 10 | 9  | 7  |
|                    | 2D     | 1                              | 2   | 5   | 11  | 16 | 12 | 11 | 10 |
| 355                | 1D     | 1                              | 2   | 4   | 10  | 12 | 10 | 9  | 7  |
|                    | 2D     | 2                              | 3   | 6   | 13  | 17 | 14 | 11 | 11 |
| 400                | 1D     | 2                              | 3   | 5   | 10  | 13 | 11 | 9  | 8  |
|                    | 2D     | 3                              | 4   | 7   | 14  | 18 | 15 | 11 | 12 |
| 450                | 1D     | 2                              | 3   | 6   | 12  | 13 | 11 | 10 | 6  |
|                    | 2D     | 3                              | 4   | 8   | 17  | 18 | 15 | 11 | 11 |
| 500                | 1D     | 2                              | 3   | 6   | 13  | 14 | 10 | 10 | 5  |
|                    | 2D     | 3                              | 4   | 8   | 19  | 18 | 14 | 11 | 10 |
| 550                | 1D     | 2                              | 4   | 7   | 14  | 14 | 9  | 10 | 7  |
|                    | 2D     | 3                              | 5   | 9   | 19  | 18 | 14 | 12 | 11 |
| 630                | 1D     | 2                              | 5   | 7   | 15  | 13 | 8  | 9  | 8  |
|                    | 2D     | 4                              | 6   | 9   | 19  | 19 | 14 | 13 | 12 |
| 710                | 1D     | 2                              | 5   | 7   | 15  | 13 | 9  | 9  | 8  |
|                    | 2D     | 4                              | 6   | 9   | 19  | 17 | 13 | 12 | 11 |
| 800                | 1D     | 2                              | 5   | 8   | 16  | 12 | 9  | 9  | 8  |
|                    | 2D     | 4                              | 6   | 10  | 19  | 15 | 12 | 11 | 10 |
| 900                | 1D     | 2                              | 5   | 10  | 17  | 13 | 11 | 10 | 8  |
|                    | 2D     | 4                              | 6   | 12  | 19  | 15 | 12 | 11 | 10 |
| 1000               | 1D     | 4                              | 5   | 11  | 16  | 11 | 10 | 8  | 9  |
|                    | 2D     | 4                              | 6   | 13  | 19  | 14 | 12 | 11 | 11 |

#### TYPE C DYNAMIC ATTENUATION

| BORE DIA.<br>MM(D) | LENGTH | OCTAVE-BAND MID FREQUENCIES HZ |     |     |     |    |    |    |    |
|--------------------|--------|--------------------------------|-----|-----|-----|----|----|----|----|
|                    |        | 63                             | 125 | 250 | 500 | 1K | 2K | 4K | 8K |
| 315                | 1D     | 2                              | 5   | 5   | 9   | 18 | 20 | 18 | 15 |
|                    | 2D     | 2                              | 6   | 6   | 12  | 20 | 25 | 20 | 17 |
| 355                | 1D     | 2                              | 5   | 6   | 9   | 18 | 22 | 19 | 16 |
|                    | 2D     | 2                              | 6   | 7   | 13  | 25 | 27 | 21 | 17 |
| 400                | 1D     | 2                              | 6   | 6   | 10  | 19 | 24 | 20 | 17 |
|                    | 2D     | 3                              | 7   | 8   | 14  | 29 | 29 | 23 | 18 |
| 450                | 1D     | 2                              | 4   | 7   | 13  | 20 | 23 | 22 | 17 |
|                    | 2D     | 2                              | 5   | 9   | 16  | 29 | 29 | 21 | 20 |
| 500                | 1D     | 2                              | 3   | 8   | 16  | 21 | 22 | 21 | 17 |
|                    | 2D     | 2                              | 4   | 10  | 20  | 29 | 30 | 20 | 26 |
| 550                | 1D     | 3                              | 5   | 8   | 16  | 20 | 18 | 19 | 15 |
|                    | 2D     | 4                              | 5   | 10  | 20  | 29 | 28 | 21 | 23 |
| 630                | 1D     | 3                              | 5   | 8   | 15  | 19 | 16 | 14 | 12 |
|                    | 2D     | 5                              | 6   | 10  | 19  | 29 | 25 | 21 | 20 |
| 710                | 1D     | 3                              | 5   | 8   | 15  | 19 | 15 | 14 | 12 |
|                    | 2D     | 5                              | 6   | 10  | 20  | 26 | 23 | 18 | 17 |
| 800                | 1D     | 4                              | 5   | 8   | 16  | 19 | 15 | 14 | 13 |
|                    | 2D     | 5                              | 7   | 11  | 22  | 23 | 21 | 16 | 14 |
| 900                | 1D     | 4                              | 5   | 9   | 17  | 19 | 15 | 14 | 13 |
|                    | 2D     | 5                              | 7   | 12  | 24  | 23 | 21 | 16 | 15 |
| 1000               | 1D     | 5                              | 5   | 11  | 18  | 19 | 15 | 14 | 13 |
|                    | 2D     | 5                              | 7   | 13  | 26  | 24 | 20 | 16 | 16 |

All performances are derived from tests to BS848.

The above silencers give the following approximate dBA reductions: -

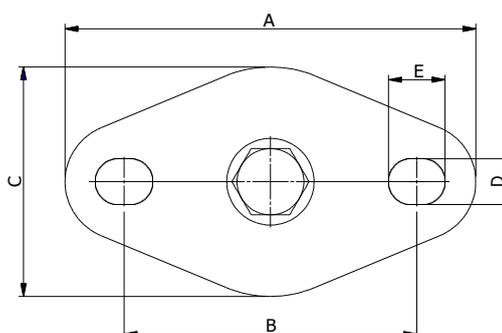
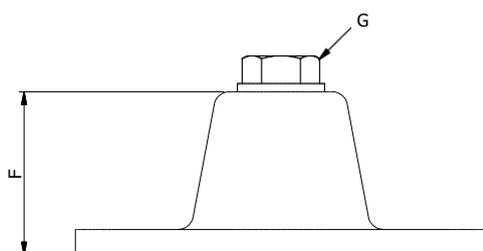
B Type 1 diameter length - 7 to -10 dBA

C Type 1 diameter length - 12 to -15 dBA

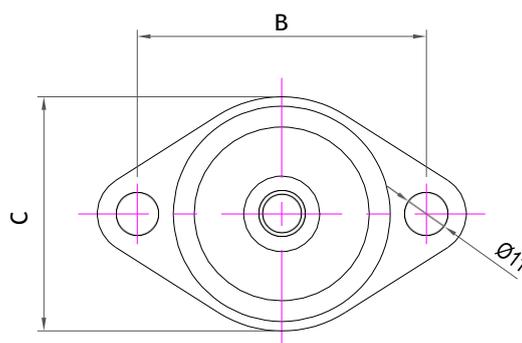
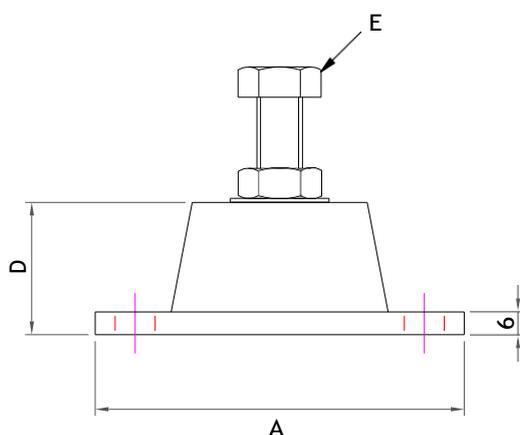
For full acoustic details and resistance to airflow for type C please refer to fan selector.

## CASED AXIAL ACCESSORIES

### RUBBER IN SHEAR ANTI-VIBRATION MOUNTS



| Product Code | Type                        | Load at 5-6mm deflection (Kg) | A  | B  | C  | D | E  | F  | G  |
|--------------|-----------------------------|-------------------------------|----|----|----|---|----|----|----|
| 505000       | AV Rubber MP2-28 Yellow ISL | 28                            | 80 | 57 | 45 | 9 | 11 | 32 | M8 |
| 505001       | AV Rubber MP2-50 Blue ISL   | 50                            | 80 | 57 | 45 | 9 | 11 | 32 | M8 |
| 505002       | AV Rubber MP2-80 Red ISL    | 80                            | 80 | 57 | 45 | 9 | 11 | 32 | M8 |



| Product Code | Type                         | Load at 8mm deflection (Kg) | A   | B   | C  | D  | E          |
|--------------|------------------------------|-----------------------------|-----|-----|----|----|------------|
| 863893       | AV Rubber MP5-110 Yellow ISL | 110                         | 95  | 71  | 60 | 9  | M10 x 25mm |
| 863894       | AV Rubber MP5-180 Blue ISL   | 180                         | 95  | 71  | 60 | 9  | M10 x 25mm |
| 863895       | AV Rubber MP5-280 Red ISL    | 280                         | 95  | 71  | 60 | 9  | M10 x 25mm |
| 863896       | AV Rubber MP6-260 Blue ISL   | 260                         | 150 | 115 | 80 | 11 | M12 x 30mm |

All dimensions in mm.

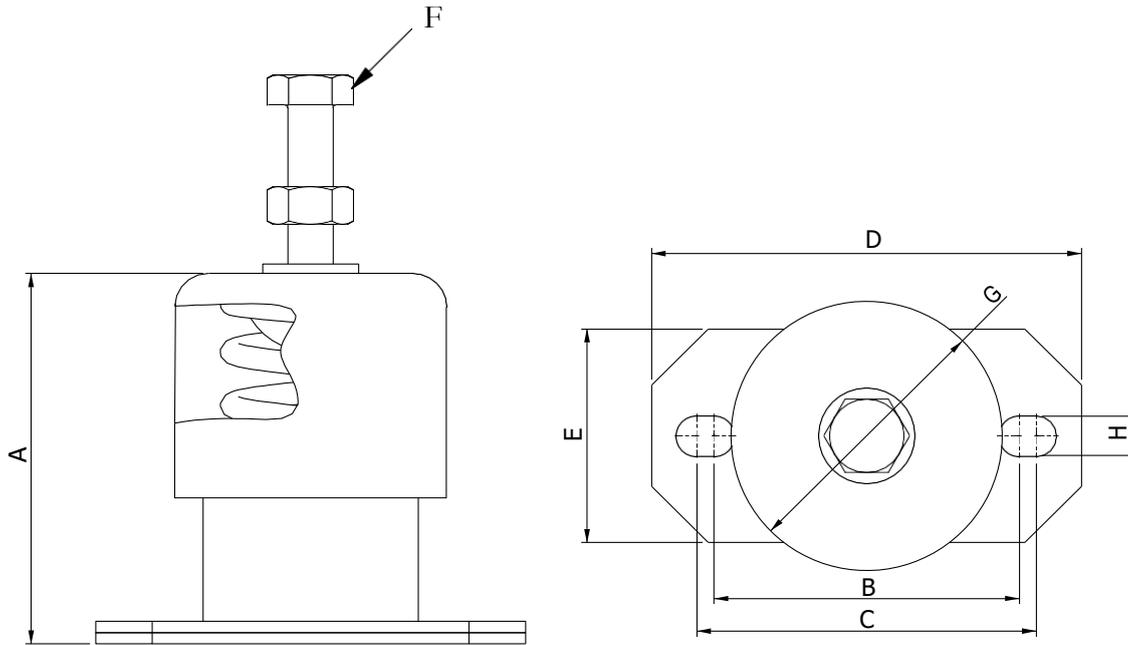
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## CASED AXIAL ACCESSORIES

### ENCLOSED SPRING ANTI-VIBRATION MOUNTS



| Product Code  | Type                      | Load at 20mm deflection (Kg) | A         | B         | C         | D         | E         | F         | G         | H        |
|---------------|---------------------------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| 505009        | MMS1-L-10 Claret ISL      | 10                           | 66        | 54        | 60        | 76        | 38        | M8        | 48        | 7        |
| 505010        | MMS1-L-15 Yellow ISL      | 15                           | 66        | 54        | 60        | 76        | 38        | M8        | 48        | 7        |
| <b>505011</b> | <b>MMS1-L-20 Grey ISL</b> | <b>20</b>                    | <b>66</b> | <b>54</b> | <b>60</b> | <b>76</b> | <b>38</b> | <b>M8</b> | <b>48</b> | <b>7</b> |
| 505012        | MMS1-L-40 Green ISL       | 40                           | 66        | 54        | 60        | 76        | 38        | M8        | 48        | 7        |
| 505013        | MMS1-L-70 Red ISL         | 70                           | 66        | 54        | 60        | 76        | 38        | M8        | 48        | 7        |
| 505014        | MMS1-L-100 Blue ISL       | 100                          | 66        | 54        | 60        | 76        | 38        | M8        | 48        | 7        |

| Product Code | Type                     | Load at 25mm deflection (Kg) | A         | B         | C         | D          | E         | F          | G         | H        |
|--------------|--------------------------|------------------------------|-----------|-----------|-----------|------------|-----------|------------|-----------|----------|
| 505015       | MMS1-30 Yellow ISL       | 30                           | 96        | 85        | 90        | 110        | 70        | M10        | 78        | 9        |
| 505016       | <b>MMS1-60 Green ISL</b> | <b>60</b>                    | <b>96</b> | <b>85</b> | <b>90</b> | <b>110</b> | <b>70</b> | <b>M10</b> | <b>78</b> | <b>9</b> |
| 505017       | <b>MMS1-100 Blue ISL</b> | <b>100</b>                   | <b>96</b> | <b>85</b> | <b>90</b> | <b>110</b> | <b>70</b> | <b>M10</b> | <b>78</b> | <b>9</b> |
| 505018       | MMS1-160 White ISL       | 160                          | 96        | 85        | 90        | 110        | 70        | M10        | 78        | 9        |
| 505019       | <b>MMS1-250 Red ISL</b>  | <b>250</b>                   | <b>96</b> | <b>85</b> | <b>90</b> | <b>110</b> | <b>70</b> | <b>M10</b> | <b>78</b> | <b>9</b> |

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