



14-03-15

Specification sheet for canopy extraction system proposed to be installed at
1403-8- Ferdinand street

Canopy

Maximum canopy facia 3000mmx1200mm with 6 baffle filters (0.9/430 dp s/s)

Extraction

The fan which is used is a TCBBX2/4-450 RPM 1370,KW 1.24,MAC 5.40,DBA 74,MAV 6900,KG 42,
3000mmx1200mm canopy requires @ 0.36m/sec velocity require 1.6m³/sec total

System

Baffle filters 36pa

Total run of spiral duct is 6mt 3pa per mtx6 (18pa) 2x90 bend 6pa per bend x2 (12pa) carbons 120pa

Total system approximately 186pa TCBBX2/4-450 will achieve 1.6m³/sec @ 280pa

Duct

We have based this extraction system on 450mm galvanised spiral duct.We will use split rings with internal rubber seals to reduce vibration.

For external duct approximately 1.5mt in length we will be using anti vibration brackets

Db

2x 1d long silencers will reduce approximately 20dba further dba will drop over distance through carbons,duct work (6mt) and bends which will reduce approximately 10dba.Giving the approx dba level @ 44dba

Carbons

We have advised to use grade 207c this is used for all European,fast food and Asian cooking.Based on the above air volume which is 1.6m³/sec total giving a dwell of 0.9 sec based on a dwell time of 0.1 sec on 595mm carbon panel cells,which we believe is sufficient for your usage.

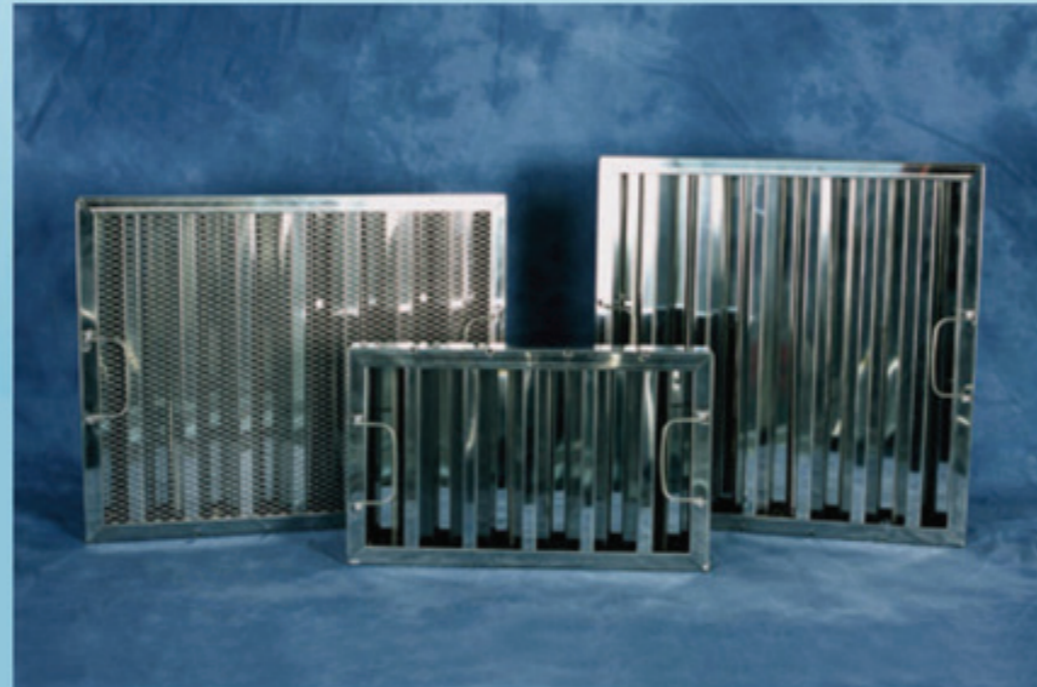
Service

It is advised that for commercial kitchens who operate 7 days a week that they change carbon every 8/12 months and clean pre filter every month or change if required.But this also varies depending on the usage,duct work and fan should be cleaned atleast every year

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1403-8-ferdinand street

baffle filters x6



Type 2 Airgard Baffle Filter

For use in commercial kitchens, the Type 2 baffle filter enhances ventilation to purify grease-laden air and act as a fire barrier, preventing any cooking flames travelling past the extract canopy. The product has been tested to European Standard DIN 18869-5.

The new Type 2 filter from Longar was developed with safety and efficiency in mind, featuring rolled edges on the frame and blades. Due to its unique design, the unit has higher grease filtration efficiency than any other kind of baffle filter on the market.

Type 2 features:

- Rolled stainless steel section with full safety edges on frame and blades
- Welded construction
- Folding handles
- Drain holes
- Optional mesh to front and rear

For more information on the Airgard baffle filter, call [01264 332 993](tel:01264332993)

1403-8-ferdinand street

dc-cf1

24"x24"x2" x 4 panels

Multicarb Activated Carbon Discarb Units



General Description

These filters are manufactured for ease of installation and incorporation into ducted air systems. They can be used on both supply for purifying incoming air, and can be used on the extract to remove toxic gasses and odours generated within a process.

Construction

These modules are manufactured by mounting a series on carbon panel filters with a sealed case. The airflow is epitomized by presenting the filtering surfaces in a "V" formation.

Each carbon panel is sealed into the filter case so as to ensure no air can bypass the carbon granules.

The panels are manufactured using long established bonding techniques which hold the activated carbon granules in a rigid biscuit. The biscuit is encapsulated in a carbon impregnated cloth which prevents any leakage of granules or powder.

The unique bonding method used by Jasun Envirocare ensures that, unlike our competitors filters, that the panels will remain intact and rigid even if wet.

Typical Applications

- Reduction of Cooking Odours
- Removal of Kerosene Exhaust Fumes
- General Odour Reduction
- Neutralisation of Ammonia and its Derivatives
- Removal of Formaldehyde
- Removal of Airborne Pollutants and Contaminants
- Removal of Acid Gases (H₂S, SO₂, NO_x, HCl)

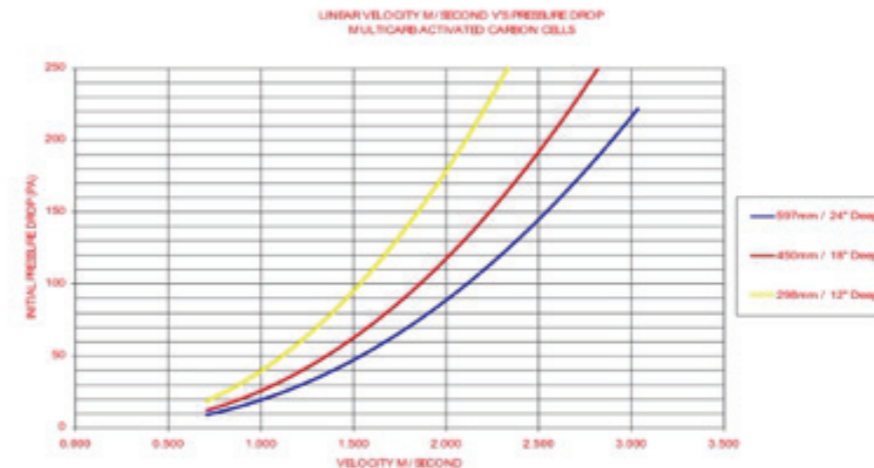
Please check with our sales department when specifying carbon filters as most applications require a bespoke solution specifically tailored for the job in hand.



Multicarb Cells STANDARD SIZES



No.	Nominal Size (Inches)	Height (mm)	Width (mm)	Depth (mm)	Weight of Carbon (Kg)	Cell Weight	Capacity @ 0.1 Second Dwell Time
DC-CF1	24 x 24 x 8	594	594	197	10	22	800
DC-CF1-HALF	24 x 12 x 8	594	291	197	5	11	400
DC242412/8	24 x 24 x 12	594	594	292	13	24	990
DC121212	12 x 12 x 12	297	297	297	6	12	450
DC181812	18 x 18 x 12	445	445	297	13	25	990
DC241212	24 x 12 x 12	594	297	297	13	25	990
DC242412	24 x 24 x 12	594	594	297	25	36	1900
DC-CF2	24 x 24 x 16	594	594	397	18	34	1370
DC-CF2-HALF	24 x 12 x 16	594	291	397	9	18	685
DC-WA15-208	24 x 6 x 18	144	600	440	7	13	533
DC121218	12 x 12 x 18	292	292	451	10	15	761
DC181818	18 x 18 x 18	445	445	451	19	26	1445
DC241218	24 x 12 x 18	594	297	451	18	26	1369
DC242418	24 x 24 x 18	594	594	451	36	52	2740
DC121224	12 x 12 x 24	292	292	597	13	19	990
DC181824	18 x 18 x 24	445	445	597	25	36	1900
DC241224	24 x 12 x 24	594	297	597	25	36	1900
DC242424	24 x 24 x 24	594	594	597	50	61	3800



1403-8-ferdinand street

silencers x2

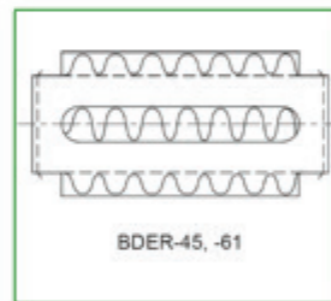
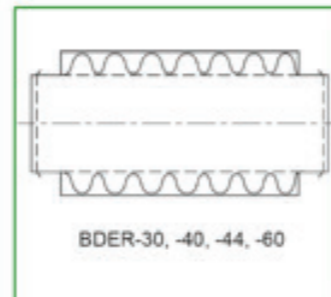
Round sound absorber for round ducts BDER



Round sound absorber for round ducts BDER



The sound absorber BDER is used in round general-ventilation ducts. The maximum air flow through absorbers BDER-30, -40, -44 and -60 is approx. 10 m/s, the recommended flow rate being less than 5 m/s. With baffle-equipped absorbers BDER-45 and -61, the maximum air flow before the absorber is 6 m/s (size 031) or 7 m/s (sizes 040 - 063), and the recommended flow rate through the absorber is 3 or 3.5 m/s respectively.



Product Facts

- Type approval for strength and leakage - Sitac / Svenskt Bygghögskännande AB, No. 1718/88, tightness class D (EN 12237)
- Acoustic performance in accordance with ISO 7235
- Polyester absorbers certified for cleanliness class M1
- Made of hot-dip galvanised sheet metal with a Z275 coating, corrosion category C2 (EN-ISO 12944-2)
- Absorbing materials polyester and mineral wool

Product code example

Sound absorber BDER-30-016-060

Round sound absorber for round ducts BDER



Round sound absorber for round ducts BDER

Description

The sound absorber BDER is used in round general-ventilation ducts.

The maximum air flow through absorbers BDER-30, -40, -44 and -60 is approx. 10 m/s, the recommended flow rate being less than 5 m/s. With baffle-equipped absorbers BDER-45 and -61, the maximum air flow before the absorber is 6 m/s (size 031) or 7 m/s (sizes 040 - 063), and the recommended flow rate through the absorber is 3 or 3.5 m/s respectively.

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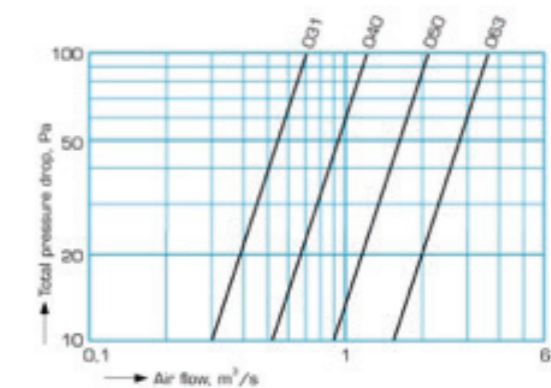
- Made of hot-dip galvanised sheet metal with a Z275 coating, corrosion category C2 (EN-ISO 12944-2)

- Absorbing materials polyester and mineral wool

- BDER-40** straight M1-certified sound absorber with 50 mm polyester fibre filling
- BDER-44** straight M1-certified sound absorber with 100 mm polyester fibre filling
- BDER-45** straight M1-certified sound absorber with 100 mm polyester fibre filling and a 100 mm baffle
- BDER-30** straight sound absorber with 50 mm mineral wool filling, fire resistance class EI 30 *) (SITAC 2525/80)
- BDER-60** straight sound absorber with 100 mm mineral wool filling, fire resistance class EI 60 *) (SITAC 2525/80)
- BDER-61** straight sound absorber with 100 mm mineral wool filling and a 100 mm baffle, fire resistance class EI 60 *) (SITAC 2525/80)

*) provided that the safety distance to an escape route and combustible material is at least that specified in the tables below (Swedish Fire Regulation BBR 5:6213)

Pressure drop BDER-45, BDER-61



The pressure drop across other sound absorbers is the same as that of an equivalent length of ducting.

Installation, handling and storage

BDER is a Veloduct component. Please see the installation, handling and storage instructions for the Veloduct / Ekoduct ducting system.

Operation and maintenance

The product can be used without any maintenance other than cleaning, which should be done with a nylon brush as part of normal duct cleaning. The frequency of cleaning should be the same as that specified for the entire ventilation system.

Packaging

Normally packed in cardboard, with the ends covered in plastic. The packaging may vary depending on the number and size of the products ordered.

Disposal

The metal casings can be recycled as metal, the fillings are landfill waste.

Product code

Sound absorber
BDER-aa-bbb-ccc

Model (aa)

30, 40, 44, 45, 60, 61

Size, cm (bbb)

Length, cm (ccc)

Split Rings

Split Ring Supports SPR

Two piece split ring. Can be used to install ducts horizontally or vertically. Used in combination with support channel and threaded rod they can be used to make an effective wall support (see the FAQ section for tips on fixing duct to a wall). Requires two studs.

As a general guide, and assuming a straight run of duct, supports on spiral ducting should be placed every 3m minimum.

