

Date: 30th September 2018

Extraction System Proposal

R.E. Mr Tariq, 33a Wellington Rd, Dewsbury, WF13 1HL

Further to my visit at your premises regarding the installation of a fume extraction system at your premises, we will be installing an extraction system that will achieve the desired performance, and to keep it within the desired council regulations, to abate excessive noise, reduced gaseous odours and small grease or food particles.

The internal aspect of the extraction system was designed to be compact, accessible with low acoustic and visual pollution. With this in mind the design process identified the external inline duct unit as being the most suitable. This comprised of filter pods for secondary filtration, coupled directly to the fan and attenuator and terminating with high velocity cowl. We will also be installing a fresh air intake fan to allow fresh air to circulate inside the premises.

Fitting	Specification	Description	Page
Fan	Flakt Woods 45JM	Single phase long case fan	2
Fresh Air Fan	Vent-Axia 355mm	Plate Mounted Axial Fan	4
Primary Filter	Jasun Baffle Filter	Stainless steel grease filters	5
Pre-Filter	Farr Camfil 30/30 (G4)	610x610x50mm pleated pre filter of fine grease particles, second stage	7
Carbon Filter	Jasun Carbon Panels (ACKI)	610x610x100mm activated carbon filter, reduced cooking odours enhanced garlic odour removal	8
Attenuator	Helios Circular Attenuator 8750	400X800mm with acoustic reduction medium	10
Termination	Jet Cowl with Mesh Guard	Vertical exhaust gas termination, cut to prevent rain ingress, meshed to abate small birds	11
Sketch		A visual guide of where the duct flue will come out from	12

This covering letter forms part of 'The Extraction System Proposal Document', comprising of all relevant information (explained within contents page). Furthermore, all the work will be fitted by us, except for electrical and gas plumbing work, however assistance will be given to help you with all electrical diagrams et al. If you have any further queries please do not hesitate to contact me.

Amina Parveen

Fan: Flakt Woods 45JM



Northern Fan Supplies Ltd
Technical Data Sheet
JM Aerofoil



Quotation Number	:	Project Code	:	AH-17820-1
Project Name	:	Customer	:	
Item Reference:	:	Date:	:	Monday, July 30, 2018

Fan Code	45JM/20/2/6/26
Fan Diameter / Size	450 Size / mm
Blades	6
Fan Speed	2910 rpm
Velocity	16.1 m/s
Blade Angle	26°
Installation Type / Form of Running	D / B
Fan Casing	Long
Requested Duty	2.5m³/s @ 400 Pa (static)
Actual Duty	2.56m³/s @ 418 Pa (static)
Outlet Dynamic Pressure	155 Pa
Duty Shaft Power	2.22 kW
Max Shaft Power	2.50 kW
Total Efficiency	66.1 %
Motor Frame	100L [Class F]
Motor Rating	3.60 kW [IE2]
Full Load Current	7.1 A
Starting Current	45.44 A
Motor Mounting	Pad
Electrical Supply	380-420 Volts 50 Hz 3 Phase
Start Type	DOL
Motor Winding	Standard
Enclosure	Standard All
ErP [FMEG] Rating	N 61 (ErP Compliant)
ErP [FMEG] Target	N 58
FMEG Blade Angle [Range]	22° [16° - 34°]
Measurement Category	D (Total)
VSD	N
Fan + Motor Efficiency	57.1% (2.16 m³/s @ 570 Pa)
Motor Input Power (ErP)	2.15 kW
SFP value	1.02 W/(l/s) @ Actual Duty
Power from mains	2.61 kW
Energy Consumption	7839 kWh (3000 h/year)
Running Cost / Year	£941
Air Density	1.2 kg/m³ / 20 °C / 0 m / 50% RH
Smoke Venting	Non Smoke Venting
Product Number	EJ481275

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.

Acoustic data has been derived from tests carried out in a Flakt Woods laboratory, in accordance with BS 848 Pt 2, 1985 / ISO 5136 under Ducted conditions. The LpA figure provided is the overall Inlet sound pressure level calculated at the specified distance, under spherical, free field conditions. Breakout levels stated are estimated from induct sound power levels and are provided for guidance.

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

Terms and Conditions: This offer is made subject to the terms and conditions detailed on the accompanying letter.

	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3 m**
Inlet*	85	84	87	86	83	83	78	75	93	68
Outlet*	87	84	89	87	84	83	79	76	94	69
Breakout*	77	66	67	64	59	55	57	52	78	45
* Lw dB re 10 ⁻¹² W										** dBA re 2x10 ⁻⁵ Pa
Sound data at actual duty.										

Description	Qty
Fan	
EJ481275 - 45JM/20/2/6/26	1
Accessories	
Thermistors	1

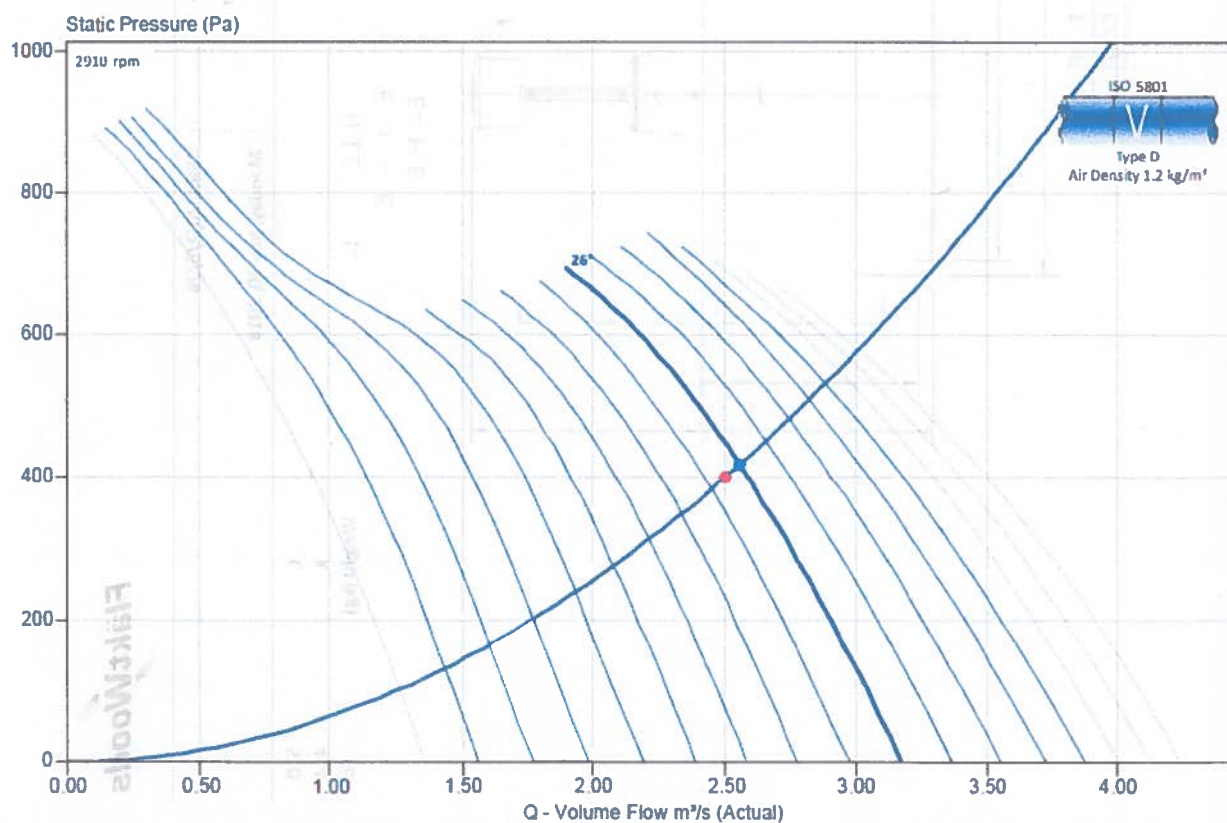
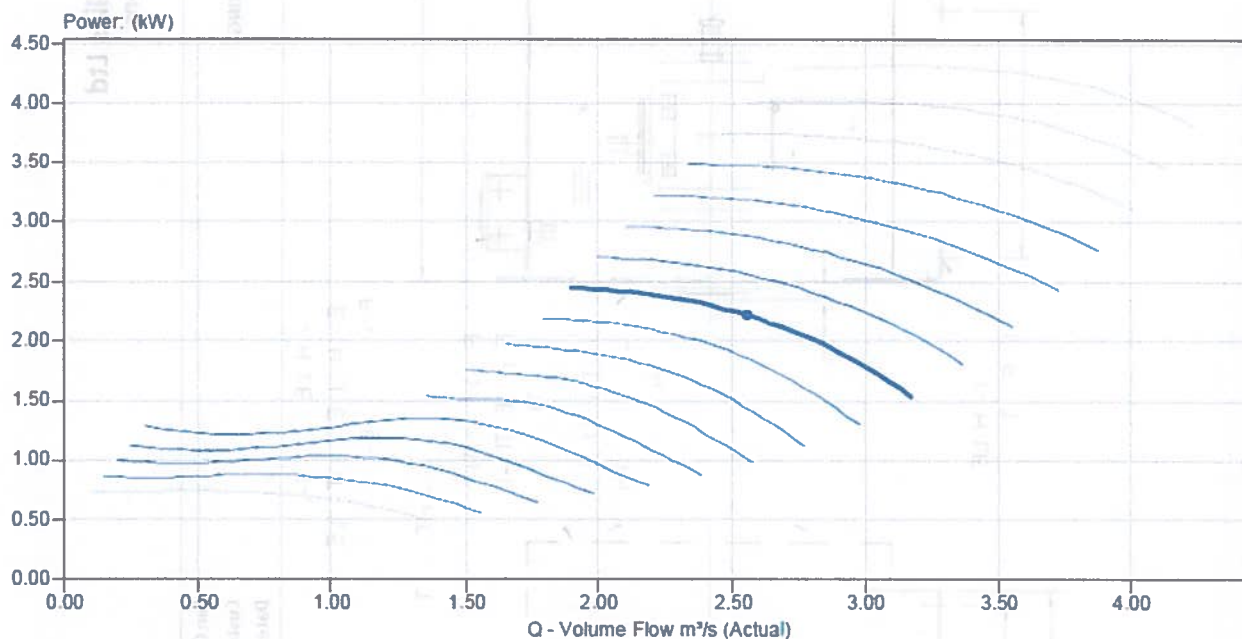


Northern Fan Supplies Ltd
Performance Chart
JM Aerofoil



Quotation Number :
Project Name : EASTERN CATERING
Item Reference :

Project Code : AH-17820-1
Customer :
Date : Monday, July 30, 2018
Fan Code : 45JM/20/2/6/26



Fresh Air Fan: Vent-Axia 355mm

EuroSeries® (ESP)

Plate Mounted Axial Fans

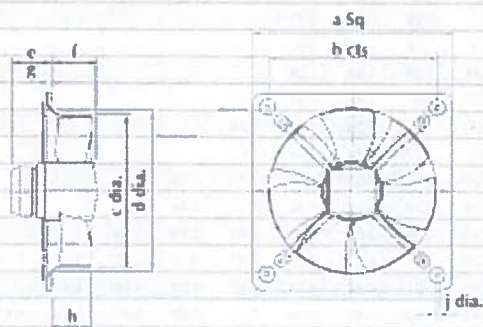
Roof Units

from Vent-Axia

Features & Benefits

- Die cast aluminium impellers
- Fully speed controllable
- Air Volumes up to 13.89m³/s
- Sizes 315 to 1000 dia protected to IP54
- Operating Temperatures from -40°C up to +70°C Motor
- Insulation Class F
- Thermal overload for motor protection
- All units reversible - Supply or Extract
- Tough epoxy paint finish
- Quality Assurance to BS EN ISO 9001:1994
- Performance tested to ISO 5801

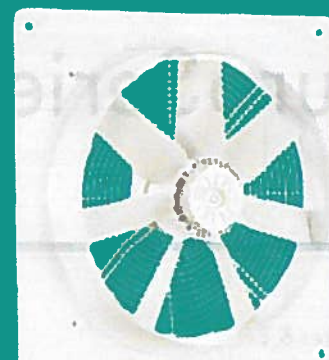
Dimensions (mm)



Dia	a	b	Øc	Ød	e	f	g	h	Øi	Kg
250	370	320	256.5	264.5	84	80	6	80	9	3.4
315	430	380	320	328	84	84	19	70	9	6.3
355	485	435	367	372	86	97	21	75	9	7.3
400	540	490	412	428	93	100	12	88	9	10.2
450	575	535	463	488	86	139	14	96	11	15.8
500	655	615	517	526	84	141	16	104	11	17.3
560	725	675	568	589	81	142.5	16	119	11	24
630	805	750	643	664	82	142.5	20	130	11	45
710	850	810	720	763	37	176.5	20	150	14.5	31
800	970	910	804	869	34	244	17	193	14.5	38
1000	1170	1110	1009	1067	40	284	20	200	14.5	84

Vent-Axia

Roof Units



Performance Guide

Performance Guide			Fan	IP	m³/s														Motor	S.C.	F.L.C.	dBA
Size	Phase	Pole	Stock Ref	RPM	Rating	0	25	50	70	100	125	150	200	225	250	300	kW	Amps	Amps	@ 3m		
250	1	2	ESP25012	2440	IP44	0.46	0.42	0.4	0.37	0.31	0.21	0.14					0.14	1.15	0.6	59		
250	3	2	ESP25012	2400	IP44	0.52	0.57	0.55	0.53	0.5	0.45						0.35	2.5	0.63	61		
315	1	2	ESP31512	2690	IP54	1.02	0.98	0.96	0.92	0.88	0.84	0.8	0.68				0.48	6	2.1	64		
315	3	2	ESP31512	2800	IP54	1.06	1.03	1.01	0.98	0.95	0.92	0.87	0.81	0.67			0.48	5	0.9	60		
250	1	4	ESP25014	1340	IP44	0.21	0.17	0.12	0.07								0.04	0.3	0.16	44		
315	1	4	ESP31514	1300	IP54	0.52	0.5	0.42	0.34								0.15	1.38	0.7	50		
315	3	4	ESP31514	1390	IP54	0.58	0.52	0.44	0.35								0.11	2.1	0.27	46		
355	1	4	ESP35514	1330	IP54	0.96	0.82	0.72	0.63								0.19	1.43	0.84	52		
355	3	4	ESP35514	1370	IP54	1	0.92	0.83	0.71								0.17	1.35	0.37	49		
400	1	4	ESP40014	1350	IP54	1.4	1.28	1.16	0.97								0.29	2.4	1.43	56		
400	3	4	ESP40014	1350	IP54	1.48	1.38	1.28	1.08								0.26	2.1	0.56	51		
450	1	4	ESP45014	1370	IP54	1.72	1.6	1.46	1.34	1.11							0.36	3.6	1.6	61		
450	3	4	ESP45014	1380	IP54	1.8	1.7	1.57	1.43	1.24							0.36	2.6	0.8	56		
500	1	4	ESP50014	1290	IP54	2.1	1.97	1.82	1.64	1.41							0.51	4.3	2.1	50		
500	3	4	ESP50014	1380	IP54	2.22	2.11	2.05	1.9	1.75	1.54						0.55	3.7	1.05	58		
560	1	4	ESP56014	1320	IP54	3.72	3.58	3.44	3.32	3.11	2.94	2.71					1.4	9.3	6	63		
560	3	4	ESP56014	1270	IP54	3.43	3.24	3.08	2.92	2.67	2.38	2.05					1	7	1.8	70		
630	1	4	ESP63014	1320	IP54	5.02	4.92	4.77	4.62	4.41	4.26	4.02	3.47	3.14	2.72		2.2	18	9.9	70		
630	3	4	ESP63014	1360	IP54	5.19	5.01	4.86	4.71	4.47	4.23	4.02	3.41				1.9	14	3.2	64		
710	3	4	ESP71014	1290	IP54	6.81	6.65	6.49	6.34	6.16	5.94	5.72	5.22	4.82	4.42		2.9	19	5.3	72		
800	3	4	ESP80014	1270	IP54	10.39	10.1	9.81	9.57	9.18	8.79	8.45	7.73	7.2	6.72	5.51	4.7	29	8.3	78		
315	1	6	ESP31516	750	IP54	0.62	0.53										0.09	1.2	0.46	44		
355	3	6	ESP35516	710	IP54	0.62	0.35										0.09	0.5	0.23	45		
400	1	6	ESP40016	740	IP54	0.98	0.81										0.13	1.4	0.6	45		
400	3	6	ESP40016	720	IP54	0.96	0.79										0.11	0.9	0.28	50		
450	1	6	ESP45016	715	IP54	1.15	0.99										0.17	2.7	0.77	50		
450	3	6	ESP45016	820	IP54	1.16	1	0.75									0.12	1	0.28	51		
500	1	6	ESP50016	710	IP54	1.45	1.27	0.96									0.25	4.74	1.35	54		
500	3	6	ESP50016	900	IP54	1.52	1.35	1.16									0.23	1.5	0.56	56		
560	1	6	ESP56016	880	IP54	2.46	2.25	1.95	1.65								0.43	4.6	1.95	56		
560	3	6	ESP56016	860	IP54	2.39	2.15	1.83	1.42								0.39	1.75	0.81	56		
630	1	6	ESP63016	880	IP54	3.33	3.06	2.75	2.46								0.6	5.3	2.7	57		
630	3	6	ESP63016	890	IP54	3.37	3.1	2.8	2.48								0.59	3.6	1.3	59		
710	1	6	ESP71016	850	IP54	4.56	4.24	3.9	3.52								0.89	8	4.1	60		
710	3	6	ESP71016	860	IP54	4.71	4.41	4.11	3.8	3.29							1.1	7.7	2.2	62		
800	3	6	ESP80016	900	IP54	6.3	5.94	5.58	5.22	4.67	4.25						1.4	9.8	2.7	64		
1000	3	6	ESP100016	935	IP54	12.89	13.35	13.04	12.73	12.35	11.92	11.46	10.88	10.26	9.72		5.5	67	10.5	77		
630	3	8	ESP63018	630	IP54	1.79	1.29										0.31	1.5	0.65	55		
710	3	8	ESP71018	630	IP54	3.4	2.98	2.37									0.43	3.3	1.1	55		
800	3	8	ESP80018	670	IP54	4.82	4.35	3.84									0.62	5	1.75	58		
1000	3	8	ESP100018	670	IP54	9.78	9.35	8.91	8.42	7.66	6.63						2.2	13	4.2	65		

For fans wired to reverse run, duty reduced by 30%.



always run along the H edge, and the drain

Special kitchens and ventilation from food preparation
Prevent flame from travelling from the cooking area up

less steel to create a series of baffle plates which is then wrapped with the outer frame.

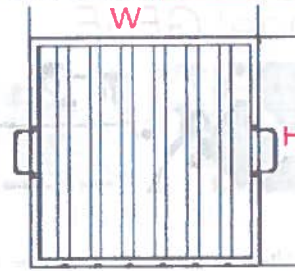
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GFBE Baffle Filter STANDARD SIZES



Jasun Envirocare always specify filters as Height (H) x Width (W). This is particularly important with baffle filters because the handles will always go on the H edge, the blades will always run along the H edge, and the drain holes will always be in the W edge.



Part No	Nominal Size Inches	Height (mm)	Width (mm)	Depth (mm)	Minimum Airflow m ³ /hr	Recommended Airflow m ³ /hr	Maximum Airflow m ³ /hr
GFBE-1020	10 x 20 x 2	241	495	45	490	558	644
GFBE-1212	12 x 12 x 2	292	292	45	350	399	460
GFBE-1216	12 x 16 x 2	292	394	45	472	538	621
GFBE-1224	12 x 24 x 2	292	594	45	712	812	937
GFBE-1616	16 x 16 x 2	394	394	45	637	727	838
GFBE-1620	16 x 20 x 2	394	495	45	800	913	1053
GFBE-1625	16 x 25 x 2	394	622	45	1006	1147	1323
GFBE-1818	18 x 18 x 2	445	445	45	813	927	1069
GFBE-2010	20 x 10 x 2	495	241	45	490	558	644
GFBE-2016	20 x 16 x 2	495	394	45	800	913	1053
GFBE-2020	20 x 20 x 2	495	495	45	1006	1147	1323
GFBE-2025	20 x 25 x 2	495	622	45	1264	1441	1663
GFBE-2424	24 x 24 x 2	597	597	45	1463	1668	1925

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Pressure Drop	
Minimum	57Pa
Recommended	76Pa
Maximum	100Pa
Final Recommended Pressure Drop	



T +44 (0) 1278 452277
F +44 (0) 1278 450873

Riverside House, Parrett Way
Bridgwater TA6 5LB

www.jfilters.com

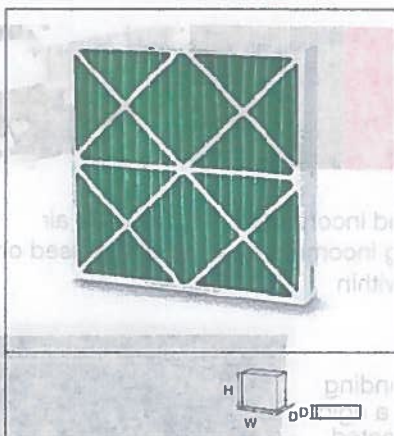


Pre-filter: Farr G4 450x450x50

Pre-Filtration: G3 to G4

Pleated Filters

30/30



Advantages

- Water resistant cardboard frame
- Conception with girders/crossbars
- Diagonal stiffener stuck to media to keep the spacing of folds, protect and maintain the filter
- Fully supported media bonded onto a wire support grid
- Rounded pleats for a maximum capacity of dust retention and facilitate airflow through the media
- Replaceable filter media

Application: Primary filter for air conditioning systems.

Type: High performance disposable pleated panel filter.

Case: Rigid water resistant cardboard.

Media: Mixture of cotton and synthetic fibre.

EN779:2012 efficiency: G4.

Gravimetric efficiency: 92%.

Recommended final pressure drop: 250 Pa.

Temperature: 70°C maximum in continuous service.

Holding frames: Front and side access housings and frames are available, Type 8, Type L, and FC Housings.

Dimensions (WxHxD) mm	Filter classification EN779:2012	Air flow/pressure drop m³/hr/Pa	Media area m²	Unit weight kg	Unit volume m³
305x305x50	G4	864/70	0.39	0.24	0.01
305x610x50	G4	1710/70	0.79	0.4	0.01
406x508x50	G4	1890/70	0.94	0.44	0.01
406x635x50	G4	2340/70	1.18	0.55	0.02
508x508x50	G4	2340/70	1.12	0.55	0.02
508x610x50	G4	2880/70	1.36	0.66	0.02
508x635x50	G4	2970/70	1.42	0.7	0.02
610x610x50	G4	3420/70	1.84	0.78	0.02
305x610x100	G4	2070/90	1.28	0.75	0.02
406x508x100	G4	2250/90	1.45	0.85	0.02
406x635x100	G4	2880/90	1.82	1.05	0.04
508x508x100	G4	2880/90	1.73	1.05	0.04
508x610x100	G4	3420/90	2.09	1.25	0.04
508x635x100	G4	3600/90	2.18	1.3	0.04
610x610x100	G4	4140/90	2.56	1.45	0.04
305x610x25	G4	1310/85	0.42	0.25	0.01
406x508x25	G4	1460/85	0.45	0.3	0.01
406x635x25	G4	1840/85	0.57	0.35	0.01
508x508x25	G4	1800/85	0.56	0.35	0.01
508x610x25	G4	2200/85	0.68	0.4	0.01
508x635x25	G4	2300/85	0.71	0.45	0.01
610x610x25	G4	2600/85	0.83	0.5	0.01

Other dimensions are available on request. All dimensions are nominal.

As part of our continuous improvement, Camfil reserve the right to change specifications without notice. 2013-01-28

www.camfil.com

camfil

Carbon Filter: Jasun Carbon 4-2424 (ACKI)



Manufacturing
Air Filters in
the UK for
Over

40
Years

Activated Carbon Panels



JASUN
ENVIROCARE PLC



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.

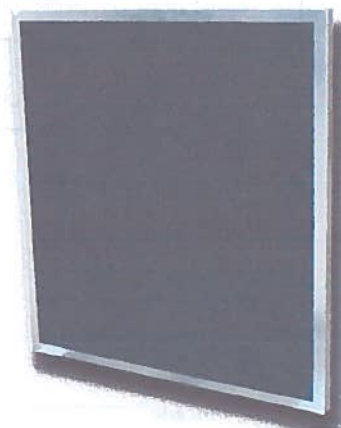
Construction

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 Filtration ensures that, unlike our competitors filters, that the panels will remain intact and rigid even if wet.

For filters over 45mm we create a panel using 2 thin biscuits on the outside and loose filling the void between with activated granules. This allows us to use special grades and combinations of formulated carbon, for instance school grade carbon which is a blended mixture of carbons designed for fume cabinets.

Depth: 12mm to 150mm



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

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

Stock Grades of Carbon

Grade	Application
AC207	Good general Carbon grade suitable for many applications
AC209	Copper Coated Carbon for use in Museums and archives
ACKI	For enhanced garlic odour removal
ACSC1	School Grade for acid Gasses and SO ₂ HCL NO ₂ H ₂ S
ACAM	Ammonia
ACMO	Mortury Grade, formaldehyde Removal
ACCA	Caustic, Pottasium Hydroxide Impregnated
ACGU	Special formulation for Sewage odours

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Issue Date 17 September 2012 9:36 AM
Designed by Farhan Ali Eastern Engineering Catering Engineering LTD
203 Garnett street, Bradford, West Yorkshire, BD3 9HT.
01274 393 494 – easternvetilation@hotmail.co.uk



Activated Carbon Panels STANDARD SIZES



Model Number	Description	Size			Weight Of Carbon Kg	Capacity m³/hr	
		Height (mm)	Width (mm)	Depth (mm)		0.1 Second Dwell	0.2 Second Dwell
{grade}-1-1212	Carbon Panel 12x12x1	292	292	20	0.77	55	28
{grade}-1-1224	Carbon Panel 12x24x1	292	594	20	1.56	112	56
{grade}-1-1515	Carbon Panel 15x15x1	368	368	20	1.22	88	44
{grade}-1-1620	Carbon Panel 16x20x1	394	495	20	1.76	126	63
{grade}-1-1625	Carbon Panel 16x25x1	394	622	20	2.21	159	79
{grade}-1-1818	Carbon Panel 18x18x1	445	445	20	1.78	128	64
{grade}-1-1824	Carbon Panel 18x24x1	445	594	20	2.38	171	86
{grade}-1-2020	Carbon Panel 20x20x1	495	495	20	2.21	159	79
{grade}-1-2024	Carbon Panel 20x24x1	495	594	20	2.65	191	95
{grade}-1-2025	Carbon Panel 20x25x1	495	622	20	2.77	200	100
{grade}-1-2424	Carbon Panel 24x24x1	594	594	20	3.18	229	114
{grade}-2-1212	Carbon Panel 12x12x2	292	292	45	1.73	124	62
{grade}-2-1224	Carbon Panel 12x24x2	292	594	45	3.51	253	126
{grade}-2-1515	Carbon Panel 15x15x2	368	368	45	2.74	197	99
{grade}-2-1620	Carbon Panel 16x20x2	394	495	45	3.95	284	142
{grade}-2-1625	Carbon Panel 16x25x2	394	622	45	4.96	357	179
{grade}-2-1818	Carbon Panel 18x18x2	445	445	45	4.01	289	144
{grade}-2-2020	Carbon Panel 20x20x2	495	495	45	4.96	357	179
{grade}-2-2024	Carbon Panel 20x24x2	495	594	45	5.95	429	214
{grade}-2-2025	Carbon Panel 20x25x2	495	622	45	6.23	449	224
{grade}-2-2424	Carbon Panel 24x24x2	594	594	45	7.14	514	257
{grade}-4-1212	Carbon Panel 12x12x2	292	292	95	3.65	262	131
{grade}-4-1224	Carbon Panel 12x24x2	292	594	95	7.41	534	267
{grade}-4-1515	Carbon Panel 15x15x2	368	368	95	5.79	417	208
{grade}-4-1620	Carbon Panel 16x20x2	394	495	95	8.34	600	300
{grade}-4-1625	Carbon Panel 16x25x2	394	622	95	10.48	754	377
{grade}-4-1818	Carbon Panel 18x18x2	445	445	95	8.47	610	305
{grade}-4-2020	Carbon Panel 20x20x2	495	495	95	10.47	754	377
{grade}-4-2024	Carbon Panel 20x24x2	495	594	95	12.57	905	453
{grade}-4-2025	Carbon Panel 20x25x2	495	622	95	13.16	948	474
{grade}-4-2424	Carbon Panel 24x24x2	594	594	95	15.08	1086	543
{grade}-6-1212	Carbon Panel 12x12x2	292	292	150	5.76	414	207
{grade}-6-1224	Carbon Panel 12x24x2	292	594	150	11.71	843	421
{grade}-6-1515	Carbon Panel 15x15x2	368	368	150	9.14	658	329
{grade}-6-1620	Carbon Panel 16x20x2	394	495	150	13.16	948	474
{grade}-6-1625	Carbon Panel 16x25x2	394	622	150	16.54	1191	596
{grade}-6-1818	Carbon Panel 18x18x2	445	445	150	13.37	962	481
{grade}-6-2020	Carbon Panel 20x20x2	495	495	150	16.54	1191	595
{grade}-6-2024	Carbon Panel 20x24x2	495	594	150	19.85	1429	714
{grade}-6-2025	Carbon Panel 20x25x2	495	622	150	20.78	1496	748
{grade}-6-2424	Carbon Panel 24x24x2	594	594	150	23.82	1715	857

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T +44 (0) 1278 452277
F +44 (0) 1278 450873

Riverside House, Parrell Way
Bridgwater TA6 5LB

www.jfilters.com

Helios Flanged Attenuator RSD 450/800 (8750)

Flanged circular attenuators RSD



■ Specification - Installation

Casing made from galvanised steel, acoustically lined with high quality mineral wool covered with cloth to prevent erosion. Acoustic lining retained by perforated steel sheet. Dimensions and tapered flange holes of all sizes fit Euro nominal diameter (R 20). Tapped holes in accordance to DIN 24155, Pt. 3.

■ Pressure drop

The resistance of the RSD attenuators is very low. When designing the system consider twice the pressure drop of rigid ducting.

RSD

■ Attenuation factor

To increase the attenuation, several attenuators can be installed in line.

Information
Selection and
calculation

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Type	Ref. No.	Nominal length	Dimensions in mm			Tap hole diam.	Nominal weight (kg)	Attenuation dB							
			L	A	B			125	250	500	1000	2000	4000	8000	
RSD 225/ 300	8734	1	300	258	434	5 x M 8	7	2	5	9	14	11	8	6	1
RSD 225/ 600	8735	2	600	365	634	5 x M 8	12	4	10	17	27	25	17	14	1
RSD 225/ 900	8736	3	900	258	434	5 x M 8	17	7	13	24	33	31	20	16	1
RSD 250/ 300	8737	1	300	286	404	5 x M 8	7	3	5	8	13	9	7	5	1
RSD 250/ 600	8738	2	600	286	404	5 x M 8	12	5	10	16	24	19	14	10	1
RSD 250/ 900	8739	3	900	286	404	5 x M 8	16	5	13	23	26	21	15	11	1
RSD 280/ 400	8740	1	400	372	454	8 x M 8	10	4	5	9	14	9	8	6	1
RSD 280/ 800	8741	2	800	372	454	8 x M 8	18	7	9	16	26	16	17	14	1
RSD 280/1200	8742	3	1200	372	454	8 x M 8	25	9	12	23	37	21	20	16	1
RSD 315/ 400	8743	1	400	358	504	8 x M 8	11	3	3	7	13	9	7	5	1
RSD 315/ 800	8744	2	800	358	504	8 x M 8	19	6	5	14	26	19	12	9	1
RSD 315/1200	8745	3	1200	358	504	8 x M 8	26	9	12	21	36	18	17	14	1
RSD 355/ 400	8746	1	400	335	564	8 x M 8	10	3	4	7	11	7	6	4	1
RSD 355/ 800	8747	2	800	335	564	8 x M 8	18	6	7	13	22	14	12	8	1
RSD 355/1200	8748	3	1200	335	564	8 x M 8	25	9	11	17	26	15	13	10	1
RSD 400/ 400	8749	1	400	438	564	12 x M 8	12	3	4	6	9	7	5	3	1
RSD 400/ 800	8750	2	800	438	564	12 x M 8	21	6	5	12	18	13	10	8	1
RSD 400/1200	8751	3	1200	438	564	12 x M 8	30	7	10	14	22	15	13	9	1
RSD 450/ 400	8752	1	400	497	634	12 x M 8	17	4	5	8	13	8	7	5	1
RSD 450/ 800	8753	2	800	497	634	12 x M 8	28	6	7	13	18	13	12	9	1
RSD 450/1200	8754	3	1200	497	634	12 x M 8	36	8	10	16	25	17	14	10	1
RSD 500/ 600	8755	1	600	541	714	12 x M 8	27	4	5	9	11	9	8	6	1
RSD 500/ 900	8756	2	900	541	714	12 x M 8	36	6	6	11	16	12	13	9	1
RSD 500/1200	8757	3	1200	541	714	12 x M 8	45	8	11	17	24	17	15	12	1
RSD 560/ 600	8758	1	600	606	804	8 x M 10	32	4	5	9	9	8	8	6	1
RSD 560/1200	8759	2	1200	606	804	8 x M 10	52	6	10	18	19	16	13	10	1

High Velocity / Jet Cowl 450mm

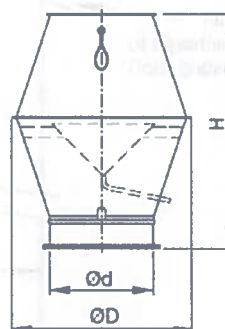
Hindab | roof hoods

Roof hood

HF



Dimensions



Description

Ventilation hood for air exit above roof, suitable for both industrial and comfort ventilation. The air is ejected in an upwards-directed jet. This avoids contaminating the air in the vicinity of the hood, and soiling of the area around the hood. The ejection is so effective that you can install a fresh air inlet in the immediate vicinity of the hood, without any special precautions.

The hood is made of galvanised sheet steel, and can also be supplied in other materials such as stainless steel sheet 1.4301, stainless acid-resistant steel sheet 1.4404, aluzinc AZ185 and painted in various colours, to special order. It has a net over the opening and an internal rain funnel to collect rainwater and snow, which is drained out of the hood through a hose. The hose can withstand temperatures of between -45 and +65 °C.

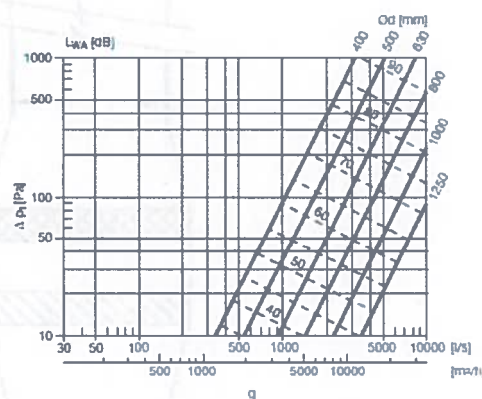
The hood has a flange connection, which includes a mating flange. The hood can be ordered with other connections, however.

To avoid damage to the net in the opening the hood is supplied with transport protection. This must be removed before the hood is taken into service.

The hood is delivered with three turnable lifting and anchoring wire-loops. A single wire-loop shall not be exposed for forces exceeding 1500 N.

Ød nom	ØD mm	H mm	m kg	Roof through connection TGR	
				50 mm	100 mm
400	685	905	11,1	5	6
500	855	1055	20,0	6	7
630	1075	1295	38,0	8	9
800	1360	1640	63,0	9	10
1000	1600	2110	89,1	11	12
1250	2020	2615	118	14	15

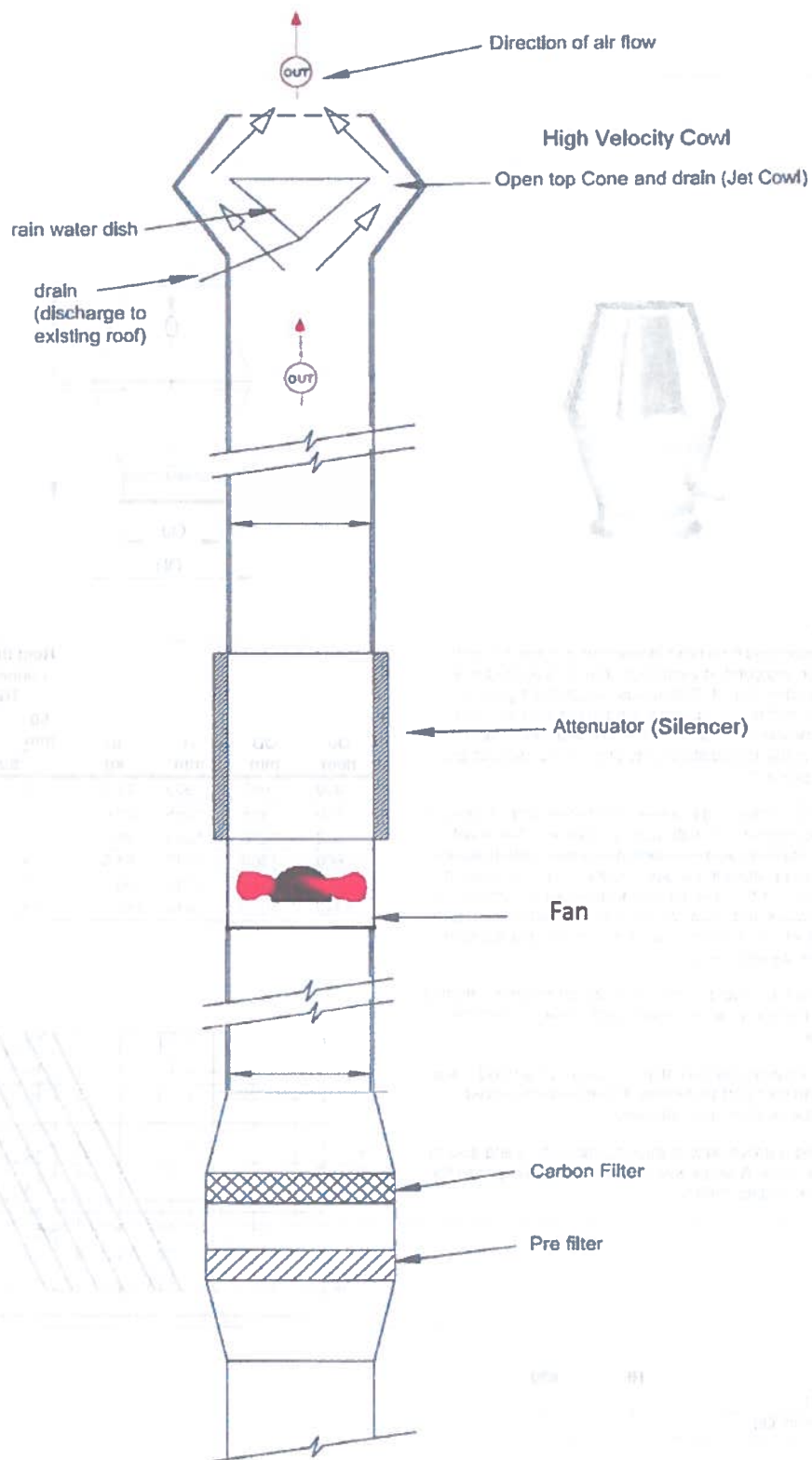
Technical data



Ordering example

Product **HF**
Dimension Ød **630**

Sketch



CATERING ENGINEERING LTD

RE: Mr Tariq; Steve Wright, 33a Wellington rd

Dewsbury

From : easterncatering@hotmail.com

01274 393494

