STAINLESS TEESSIDE

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20/04/2020

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, 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 cow, we will install a canopy as well as the other parts.

- Fitting Specification Description Page Fan 400 JM Flakt Woods single phase long case fan.
- Five Primary Filter Jasun Baffle Filter Stainless steel grease filters.
- A three meters stainless steel canopy 100/55 cm.
- Six stainless steel cladding sheets 0.9 mm thickness.
- Termination Jet Cowl with Mesh Guard Vertical exhaust gas termination, cut to prevent rain ingress, meshed to abate small birds.
- Six meters of pipeline and one meter above the last roof.

EMAIL **TWITTER HANDLE** **TELEPHONE** **LINKEDIN URL**

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- Carbon Filter Jasun Carbon Panels (ACKI) 495 X 495 X 95mm activated carbon filter, reduced cooking odours enhanced garlic odour removal.
- Pre-Filter Farr Camfil 30/30 (G4) 508 X 508 X 50mm pleated pre filter of fine grease particles, second stage
- Sound Attenuator CP03 – CAP 0500 – 2D 500 X 1000mm with acoustic reduction mediu

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Technical Data Sheet

JM Aerofoil

Project Name	:	jm single phase pdf
Quotation Number	:	
Customer	:	nfs

FanCode	40JM/16/4/5/40
FanDiameter / Size	400mm
Blades	5
FanSpeed	1420 rpm
Velocity	8.0 m/s
BladeAngle	40°
Form of Running	B
FanCasing	Long
RequestedDuty	1.01m³/s @ 110Pa (static)
OutletDynamic Pressure	38 Pa
DutyShaft Power	0.265kW
MaxShaft Power	0.271kW
Total Efficiency	56 %
MotorFrame	BT9
Motor Rating	0.320kW
Full LoadCurrent	2.2A
StartingCurrent	5 A
MotorMounting	Pad
ElectricalSupply	220-240 Volts 50 Hz 1 Phase
StartType	DOL
Motor Winding	Standard
Enclosure	StandardAll
AirDensity	1.2 kg/m³ /20 °C / 0 m / 50% RH
Smoke Venting	Non Smoke Venting
ProductNumber	DX411452

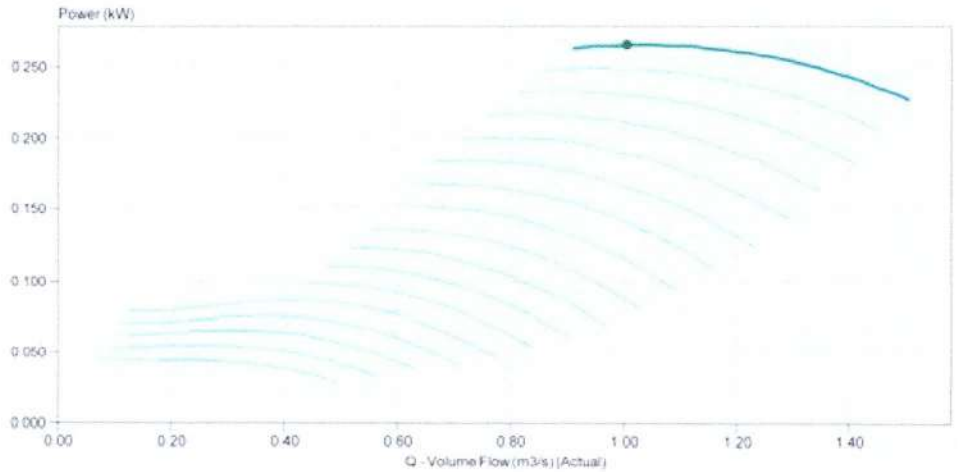
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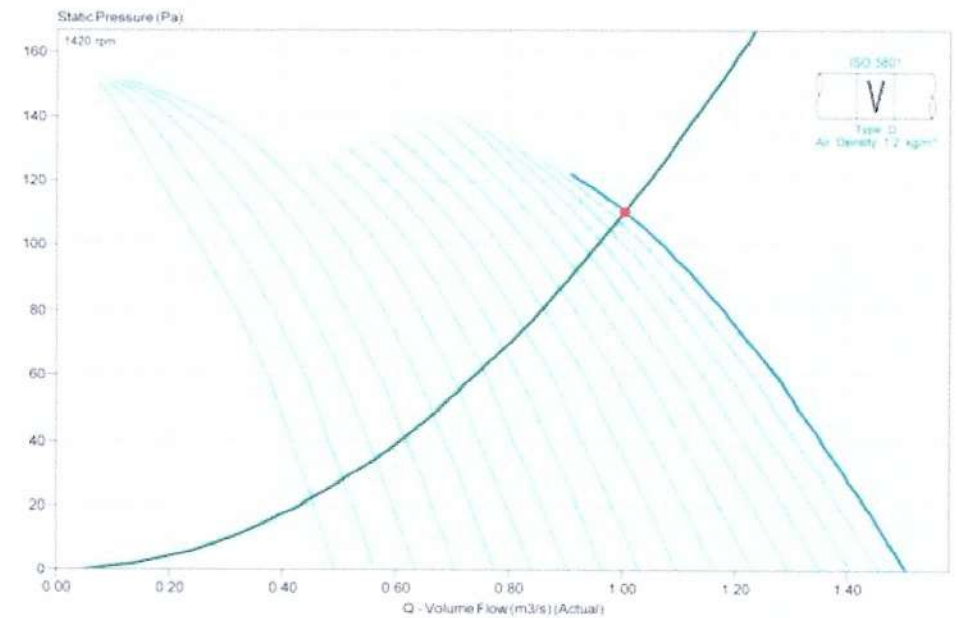
Northern Fan Supplies Ltd

Performance Chart

JM Aerofoil

Project Name	: jm single phase pdf	Date	: Saturday, August 20, 2011
Quotation Number	:	Fan Code	: 40JM/16/4/5/40
Customer	: nfs	Item Reference	:





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Standard construction baffle style grease filters with Aluminum frame.
These filters are designed for use in commercial kitchens and ventilation from food preparation areas, where their primary function is to reduce flame from traveling from the cooking area up into the extract duct. They are manufactured by rolling Aluminum to create a series of baffle plates which are welded onto a sub frame. The sub frame is then wrapped with the outer frame.

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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 Mueums and archives
ACKI	For enhanced garlic odour removal
ACSC1	School Grade for acid Gasses and SO_2 HCL NO_2 H_2S
ACAM	Ammonia
ACMO	Mortury Grade, formaldehyde Removal
ACCA	Caustic, Pottasium Hydroxide Impregnated
ACGU	Special formulation for Sewage odours

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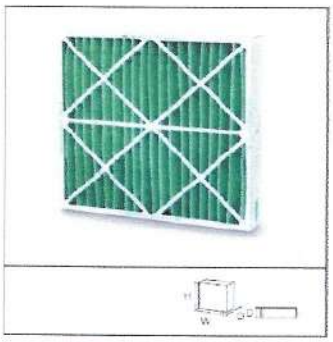
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Pre-filter: Farr G4 508 X 508 X 50mm

Pre-Filtration: G3 to G4

Pleated Filters

30/30



Advantages

- **Water resistant cardboard frame**
- **Conception with girders/ crossbars**
- **Diagonal stiffner 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 S, Type L, and FC Housings.

Dimensions (WxHxD) mm	Filter classification EN779:2012	Air flow/pressure drop m³/h-Pa	Media area m²	Unit weight kg	Unit volume m³
305x305x50	G4	904/70	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	1.18	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	1.64	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	2850/90	1.82	1,05	0,04
508x508x100	G4	2880/90	1.73	1,05	0,04
508x610x100	G4	3420/90	2.00	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	1310/65	0.42	0,25	0,01
406x508x25	G4	1450/65	0.45	0,3	0,01
406x635x25	G4	1840/65	0.57	0,35	0,01
508x508x25	G4	1800/65	0.56	0,35	0,01
508x610x25	G4	2200/65	0.68	0,4	0,01
508x635x25	G4	2300/65	0.71	0,45	0,01
610x610x25	G4	2600/65	0.83	0,5	0,01

* Dimensions are available on request - All dimensions are nominal

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CP03
C Series

ACOUSTICA

CP03 - CA - 0500 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

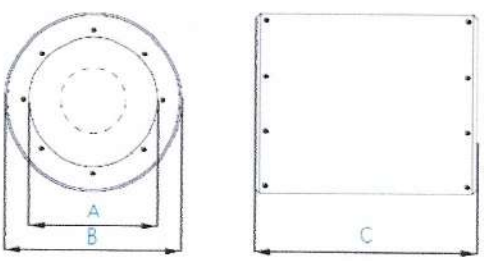
Insertion Loss (dB) - Centre Band Frequency

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

Replace * in code with A or B for connection pattern. 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 no se 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

Product Code	A (mm)	B (mm)	C (mm)	Weight (kg)
CP03 - CA - 0500 - 1D	500	653	500	18
CP03 - CA - 0500 - 2D	500	653	1000	32
CP03 - CAP - 0500 - 1D	500	653	500	22
CP03 - CAP - 0500 - 2D	500	653	1000	37



Pattern A
12 x M10 - 560 PCD

Pattern B
12 - M8 - 541 PCD