

Information for Environmental Officer

3.5 Metre fine grain satin finish stainless steel 1200mm wide wall canopy, complete with stainless steel baffle filters and a fully welded drain channel and tap for easy cleaning.

Stainless steel wall cladding, behind the canopy only.

Mounting the canopy on the back wall, exiting from the top with low profile galvanised ducting, through into flat roof, turning back again to run parallel with the canopy to a activated carbon filter complete with mesh pre-filter, then to fan complete with speed controller and a attenuator, transposing to rectangular ducting rising up through roof and terminating with a cut off cowl complete with bird mesh.

The fan specified is a woods type 630mm contra rotating axial fan, 1420rpm, Noise level 48dba at 3 metres. With a silencer, noise would reduce to 41dba at 2 metres, the ducting supports would be mounted on residual rubber anti vibration mountings to stop any reverberation noise travelling through the wall.

Transformer speed controller that stops any harmonics.

Fan duty 1.70m³/sec @ 280pa. Static pressure.

Canopy face velocity 100ft/min (0.51m/s)

Discharge velocity through cowl 11.90 m/s

Carbon filters are fitted with a pleated pre-filter to stop any carry over grease, before actuated carbon filters. In the canopy you have baffle type grease filters, which have a drain gully, which allows grease to run into bottom channel to a drain tap, which can be drained and cleaned weekly.

The carbon cells will neutralise 90-95% of the odour before discharging to atmosphere.

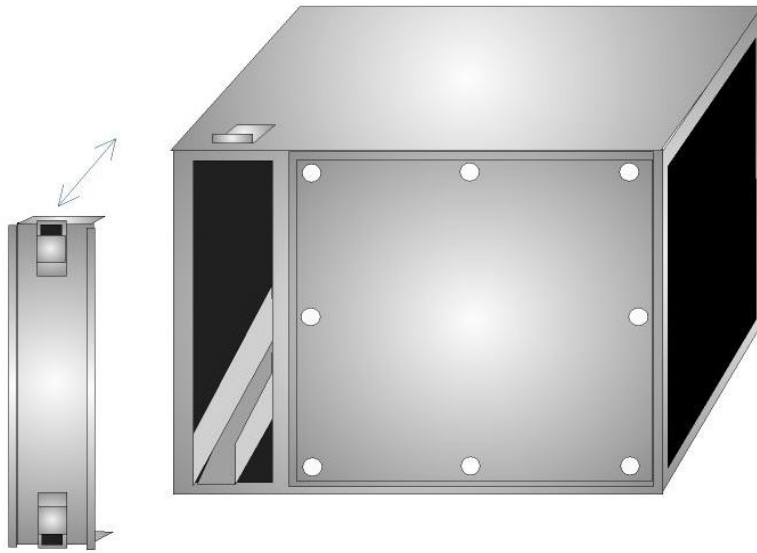
The actuated heavy duty carbon filter complete with v pleat pre-filter

Dwell time 0.20 seconds **Area x deep divided by volume**

600 x 600 x 800mm deep carbon cell = 0.36 M².

0.36 x 0.80 divided by **1.70 m³/sec** = 0.17 seconds dwell time.

Pre filter extra 0.03secs which is a **total of 0.20secs dwell time.**



QUICK RELEASE CLIPS ON PRE-FILTER SECTION

All our systems comply with DW172 regulations and specifications regards to ducting sizes, heights and fan duties etc.

Fan and associated equipment, mounted internally to reduce noise generation and maintaining good aesthetics outside.

Easier for maintaining pre filters are clean or replaced and general maintenance.

The fan and ducting have been situated to maximise the full extraction potential. It is important that the following procedures are carried out as stipulated,

The canopy must be externally cleaned on a weekly basis. All grease filters must be cleaned at Least three times a week using hot soapy water, to avoid grease carry over.

The canopy and full extraction system must be professionally deep cleaned no later than twelve months after installation and certified. Failure to adhere to these guidelines will prevent the system working to its full potential, and odours may arise due to grease residue inside the ducting giving a carry over.

Summary Cleaning Information

Canopy

Wash down weekly with hot soapy water ensure all fat channels are clear and clean

Grease Filters

Clean at least three times a week using hot soapy water, water must be hot enough that rubber gloves are worn.

Ensure oil and fat outlets are clear and clean

Replace filters with the drainage slots at the bottom facing down

Pre Filters in Carbon Box

Change each three months if fitted.

Carbon Filters

Inspect for signs off grease when changing Pre Filters

Carbon Filters if Fitted

Change- manufactures Recommendation each twelve months – eighteen months depending on hours used and type of deposits left on the filters.