

Good morning,

Please find all the relevant information relating to the extract, which can form part of this planning application.

I trust the submission can now proceed unimpeded

Info for planning:

Fan detail:

Fan Code	50 MaXfan Compac
Fan Diameter / Size	500 Size / mm
Fan Speed	2910 rpm
Velocity	7.0 m/s
Blade Angle	16°
Installation Type / Form of Running	D / AB
Fan Casing	Long
Requested Duty	1.37m³/s @ 805 Pa (static)
Outlet Dynamic Pressure	29 Pa
Duty Shaft Power	2.08 kW
Max Shaft Power	2.35 kW
Total Efficiency	55.7 %
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 64 (ErP Compliant 2015)
ErP [FMEG] Target	N 58
FMEG Blade Angle [Range]	0° [0° - 0°]
Measurement Category	D (Total)
VSD	N
Fan * Motor Efficiency	60.5% (2.44 m³/s @ 604 Pa)
Motor Input Power (ErP)	2.44 kW
SFP value	1.82 W/(l/s) @ Requested Duty
Power from mains	2.5 kW
Energy Consumption	7511 kWh (3000 h/year)
Running Cost / Year	£901
Air Density	1.2 kg/m³ / 20 °C / 0 m / 50% RH
Smoke Venting	Non Smoke Venting
Product Number	EJ513266

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.

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*	92	87	96	98	96	94	89	86	103	80
Outlet*	93	87	98	98	96	94	89	87	103	80
Breakout*	83	69	76	75	71	66	67	63	85	56

* Lw dB re 10⁻¹² W

** dBA re 2x10⁻⁵ Pa

Sound data at requested duty.



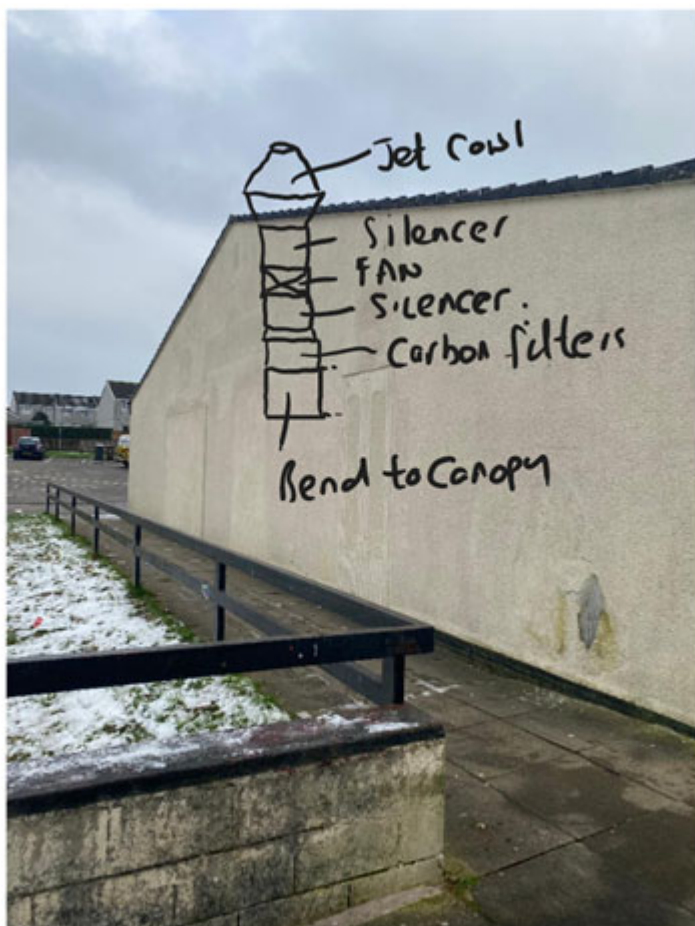
We would expect the fan breakout noise to be around 42Db with silencers installed.

Replacement air input into the kitchen will consist of an outside weather louvred grille with a fan and grille installed internally in a pre made housing.

Detail:



General idea of outside ductwork with fan, silencers, carbon filters and jet cow



Maintenance of the carbon filtration system will be discussed with the client and we can discuss a contract to replace them every 4 months or when required.

If you have any further questions then please don't hesitate to contact me.

Kind regards

Paul Jackson

Managing Director

PMJ Kitchen Ventilation Ltd

Specialists in Commercial Kitchen Design & Installation



