



Suite 20, Crow's Nest Business Park, Ashton Road, Billinge, WN5 7XX
☎ 0800 002 5120. 📞 07957 564 198 📧 hgeventilation@gmail.com

Report

To: Michael

3/8/2021

From: Steven

Ventilation Report For 129 Manchester Road, Chorlton. M21 9PG

Risk assessment for the odour as follows

Cooking type of food	1. Low. Healthy, Italian, French
Size of kitchen	1. Small, less than 30 covers, small take away
Proximity of receptors	10. Closest sensitive receptor less than 20m from kitchen discharge
Dispersion	5. Good, at high level vertical discharged @ 10-15 m/s
Total	17. Low level odour control required

Extraction Canopy

The canopy will be fabricated from stainless steel 1.0mm/304g construction with all visible joints to be welded, ground and polished and incorporates a gutter around all edges with a drip tray at lowest point. A single sided extract plenum will contain stainless steel baffle type grease filters approx. 495 x 495mm across the full width of the plenum.

Canopy Dimensions: 2900mm x 1200mm x 650-400mm. The canopy will overhang the appliances by 300mm at each end unless up against a wall.

The face velocity at the cooker hood, expressed in metres per second = 0.4m/s

Total Extract Volume: 1.62m³/s

Extract Ducting

The ducting will be 500dia. It will exit the rear of the building, turn 90° up the side of the building. Finishing with a vertical cowl. The discharge of air should be at a minimum height of 1m above the eaves.

Extract Fan



Suite 20, Crow's Nest Business Park, Ashton Road, Billinge, WN5 7XX
☎ 0800 002 5120. 📞 07957 564 198 ✉ hgeventilation@gmail.com

The following cased axial fan will be installed: Model: System Air MUB 500E4

Duty: 2.16 M³/s @ a face velocity of 0.4 M³/s

Fan Specification: ERP compliant range of cylindrical cased axial fans fitted with an aluminium impeller, manufactured from high grade rolled galvanised steel and protected against corrosion by cataforesis. Galvanised finish. Fitted with 1 impeller manufactured from die-cast aluminium. All models are supplied with pre-wired wiring junction box located on the outside of the fan casing for easy wiring access. Weight: 61kg Controls: Electronic speed Controller. Sound Pressure Level at 3m (without attenuation): 54dB(A) Sound Attenuation: 2 – No. 2D 500Dia x 1000 mm (øx2) Long Attenuator fitted to inlet and outlet of fan unit. Noise Reduction: - 10 dB(A). Anticipated Sound Pressure Level at 3m (with attenuation): 44dB(A) Fan Maintenance: The fan should be cleaned when necessary, at least 1/year to avoid imbalance and unnecessary damage to the impeller and bearings. The fan bearings are maintenance free and should only be replaced if damaged. Do not use a high-pressure cleaner (steam jet) when cleaning the fan. Make sure the fan impeller's balance weights are not moved or the fan impeller distorted. Listen for abnormal operating noise.

Supply Fan (Make Up Air)

To provide the required amount of make-up air, a mechanical ventilation system using a cased axial fan will be installed. An ESC 400. Duty: 1.2m³/s @ 40Pa. Fan to be mounted in galvanised steel casing. Fan Specification - ERP compliant range of cylindrical cased axial fans fitted with aluminium impellers and manufactured from high grade rolled galvanised steel and protected against corrosion by cataforesis. Galvanised finish. Weight: 24kg. Speed controller to be fitted. Sound Pressure Level at 3m - 56dB(A) .The fan should be cleaned when necessary, at least 1/year to avoid imbalance and unnecessary damage to the impeller and bearings. A filter will prolong the time interval between each cleaning of the fan. The fan bearings are maintenance free and should only be replaced if damaged. Do not use a high-pressure cleaner (steam jet) when cleaning the fan. Make sure the fan impeller's balance weights are not moved or the fan impeller distorted. Listen for abnormal operating noise.

Supply Air Filters

Within the duct line will be a galvanised steel filter cassette containing:

1 – No. Disposable Medium Duty Pleated Panel Pre-Filters G4 specification to meet EN779.
Manufacturer's recommendations on the frequency and type of maintenance of the filter having regard to the conditions that it will be used under= G4 Panel Filter: Every 3-6 months

Gas Interlock

The supply and extract fans are to be electrically linked to a gas safety panel. The cook line gas pipe will have a solenoid valve fitted inline, wired to the gas safety panel. The solenoid valve will only open when the extract and supply fan are both operational.



Suite 20, Crow's Nest Business Park, Ashton Road, Billinge, WN5 7XX
☎ 0800 002 5120. 📞 07957 564 198 ✉ hgeventilation@gmail.com

Maintenance

A schedule of maintenance must be provided including details for:

Cleaning of stainless steel baffle grease filters-

Weekly – Can be put through commercial dishwasher or washed in warm soapy water. (Life expectancy typically 24 months subject to quality)

Extract ductwork, fan and canopy: Every 6-12 months (to be reviewed periodically in conjunction with professional deep cleaning contractor) With a TR19 cleaning certificate.

Inspection and servicing of fans; Fans are maintenance free with sealed for life bearings. Regular cleaning (at the same time as the duct cleaning), to keep the Impellers free of detritus, should help ensure a life expectancy of around 5 years.

Supply air filters-

Changed every 3-6 months

Proposed Extract Run





Suite 20, Crow's Nest Business Park, Ashton Road, Billinge, WN5 7XX

☎ 0800 002 5120. 📞 07957 564 198 ✉ hgeventilation@gmail.com

Should you require any further details, please do not hesitate to contact me.

Thanks

Steven Nimbley

