



Commercial Kitchen Extraction And HVAC Systems Specialists
ESTABLISHED 2005

**12 Bolton Street
Bury
BL9 0LQ**

**KITCHEN EXTRACTION, KITCHEN FRESH AIR AND HIGH LEVEL ODOUR CONTROL SYSTEM
PROPOSAL**

Date: 3rd June 2024

Ref:P1184588557

Fan Rescue was asked to carry out a site survey and put together a proposal for the kitchen extraction and ventilation system at the above address.

Kitchen extraction, kitchen fresh supply air and high level odour control filtration system

Kitchen extraction system

Above the cook line wall mounted type stainless steel kitchen extract canopy hood, manufactured in 304 grade with external dull polish grain and internal stainless steel filter housing to removable/ washable stainless steel baffle type grease filters, which are highly efficient at grease removal, the hood will also include LED lighting system (electrical connections to the lights by others)

560mm dia kitchen extract ductwork system with cleaning access hatches every 2 meters , from the canopy hood the ductwork will be connected to a very high level odour filtration unit as per the odour impact assessment OD657903, the filtration system consist of, 2 No disposable pre-filter G4 ,highly efficiently in removing filtering oil and grease particles , recommended to be replaced every 2 -3 weeks depending on the usage, then 1No RYD Air ESP 5000B with UV ozone light technology which eliminates cooking smoke, grease and odours, followed by Air clean extra duty carbon filter unit & Casing, carbon filters use panels of activated carbon to remove the malodorous gases within the commercial kitchen extract duct through the process of chemical adsorption, to give dwell time of 0.4sec , recommended to be replaced every 6-12 months depending on the usage. The 560mm dia kitchen extract duct will then connect to the Kitchen extract fan unit Helios GB EC 560 be connected using flexible connectors and mounted using anti vibration rubber mountings to eliminate any noise and vibration levels, the fan unit will then be connected to Acoustica CP03-CA-0560-2D attenuator after the fan unit to achieve the required insertion loss –10db. The kitchen extract ductwork will then, vertically terminate via high velocity discharge nozzle which then terminates 1 meter above roof level as shown on the drawing.

Fresh air kitchen supply system

Fresh air into the kitchen areas will be provided by a pre filtered motorised system, , Nicotra gebhardt DDMP 10/10 , supply fan unit will then be connected using flexible connectors and mounted using anti vibration rubber mountings and isolators to eliminate any noise and vibration levels, Acoustica CP03-CA-0400-2D attenuators installed before and after the fan unit to achieve the required insertion loss –10dba, 315mm circular air supply ductwork system will enter into the kitchen areas and provide 85% air back into the kitchen areas via air diffusers grills as shown on the drawing.

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Air Condition System

The ground floor consists of 2 Air Conditioning Units (AUYG36LRLE) to keep the restaurant warm and cool, the AC pipework will exit to the side of the building, each ac unit will be connected to its own condenser (AOYG36LETL) as shown on the drawing.

Kitchen extraction, ventilation system will be manufactured and installed subject to in accordance with FGAS, BESA DW 172/144 specifications and EMAQ+dated 2018 specifications Guide.

Attenuation has been selected to provide a system rating level of at least 10 dB(A) below the lowest existing background noise level for the proposed operating hours and when extrapolated to the nearest noise sensitive neighbouring residential property.

All electrical work to be to relevant Standard with the fan interlocked to the filtration equipment so it cannot function independently.

Servicing

Above systems will be required to be serviced and maintained every 6 months in accordance with BESA TR19 , Fan Rescue ltd will provide this service

Note : see attached all equipment specification sheets for further information on the proposed plant equipment.

We hope this is of assistance and await your further instruction.

Yours sincerely

Jrfan Nakip

Operations Director



www.thebesa.com/HV020676/

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