



Commercial Kitchen Extraction And HVAC Systems Specialists  
ESTABLISHED 2005

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**I AM DONER  
44 Chalk Street  
NW1 8AJ  
Camden  
London**

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

**Date: 26th September 2023**

**Ref:P1184589463**

Fan rescue Ltd Ability House, Unit 129, 121 Brooker Road, Waltham Abbey EN9 1JH  
Tel: 0203 308 2936 • E-mail: [enquiries@fanrescue.co.uk](mailto:enquiries@fanrescue.co.uk) • [www.fanrescue.co.uk](http://www.fanrescue.co.uk)  
VAT number: 906 9111 32  
Company Registered in England & Wales Number 5954579

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 punted 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)

From the smaller canopy the 250mmDIA duct will connect to the main 350mmx350mm square duct, Kitchen ductwork system will have hatches every 2 meters, from the canopy hoods, the square duct will be connected to a high level odour filtration unit as per the odour impact assessment OD657741 , the filtration system consist of , 2 No disposable pre-filter G4 ,highly efficiently in removing filtering oil and grease particles , recommended to be replaced very 2 -3 weeks depending on the usage , then 1No RY Air esp 2500b with UV ozone light technology to eliminate cooking smoke, grease and odour, followed by Air clean extra duty carbon filter unit & Casing, carbon filters use panels of activated carbon to remove the malodourous gases within the commercial kitchen extract duct through the process of chemical adsorption, to give dwell time of 0.4sec , recommended to be replaced very 6-12 months depending on the usage, the square kitchen extract ductwork system from the filtration unit will then be connected to Kitchen extract fan unit Helios GBW 450 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 R02-2-1200 attenuator after the fan unit to achieve the required insertion loss, as per noise impact assessment prepared by Venta Acoustica Report Number VA4905.230926, kitchen extract ductwork will then rise from the flat roof along the wall then vertically terminate via high velocity discharge nozzle which then terminates 1 meter above eaves 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, Supply fan Etaline E1 250 E2 01 cased inside an acoustic fan casing , the

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 R02-2-600 attenuators installed after the fan unit to achieve the required insertion loss, as per noise impact assessment prepared by Venta Acoustica Report Number VA4905.230926 , 250mm 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.

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 by as 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

*Jifan Nakipi*

Operations Director



[www.thebesa.com/HV020676/](http://www.thebesa.com/HV020676/)

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