



Commercial Kitchen Extraction And HVAC Systems Specialists
ESTABLISHED 2005

**10 Charlotte Place
London
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KITCHEN EXTRACTION AND VENTILATION SYSTEM PROPOSAL

Date: 9th July 2021

Ref:P11845663

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, fresh supply air, high level odour control filtration system

Kitchen extraction system

In the basement kitchen area Above the cook line a 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 .

450mm kitchen extract ductwork system from the canopy hoods will travel to the ground floor then rise exist the building onto the flat roof, the ductwork system will then be connected to a high level odour filtration unit as per odour assessment report OD765987 , 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 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 filtration unit will then be connected to 450GBW/4 EC Helios Kitchen extract fan unit, Fan unit will then 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 attenuators after the fan unit to achieve the insertion loss, as per noise impact assesment prepared by Venta Acoustics report number VA3753.210708.NIA , 450mm circular kitchen extract ductwork system from silencer will then rise vertical to the top of the building and terminate 1 meters above roof level via vertical high velocity discharge nozzle as shown on the drawing.

Fresh air kitchen supply system

Fresh air into the kitchen areas will be provided by a pre filtered motorised (Air flow 102 H2WL/4 supply fan unit) system, supply fan unit will then be connected using flexible connectors and mounted using anti vibration rubber mountings to eliminate any noise and vibration levels, Acoustica attenuators either sides of the fan unit to achieve the insertion loss, as per noise impact assesment prepared by Venta Acoustics report number VA3753.210708.NIA from flat roof , air supply ductwork from the fresh air system will enter into the kitchen area and provide air back into the kitchen areas via air diffusers grills , as shown on on the drawing .

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

Attenuation has been selected as per noise impact assesment prepared by Venta Acoustics report number VA3753.210708.NIA , 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 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

Irfan Nakiip
Operations Director



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