



Commercial Kitchen Extraction & Ventilation Systems Specialists
ESTABLISHED 2005

**188-189 Drury Lane
Holborn
WC2B 5QD**

KITCHEN EXTRACTION AND MAKE UP AIR SYSTEM PROPOSAL

Date: 5th January 2021

Ref:P768687542

**Fan rescue Ltd 39 Deer Park Way, Waltham Abbey, Essex EN9 3YN
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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 at the above address.

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

Above the cook line shown on the drawing we will install 1 No wall mounted type stainless steel kitchen extract canopy hoods, 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.

Kitchen extract ductwork system from the canopy hoods will be connected to a very high level odour filtration system, the filtration system consist of, 2 No ESP RydAir RY5000B built in with UV Ozone odour control system to eliminate cooking smoke and grease to be serviced every 3-6 months, depending on the usage (please see attached technical information), followed by air clean 200kg of extra duty active carbon filter & Casing, to give dwell time of 0.4 sec, carbon filter to be replaced every 6-12 months depending on the usage, (Please see attached technical information), the filtration unit will then be connected to a 560GBW/4/4 Helios kitchen extract fan unit (please see attached tech spec), 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 1 No attenuator after the fan unit to achieve the insertion loss, 560mm diameter kitchen extract ductwork from silencer will then exit the building and terminate low level via weather louver discharge grill as shown on the drawing.

Kitchen Fresh air kitchen supply system

Fresh air into the kitchen areas will be provided by a pre filtered motorised system 102 H2WL/4 Supply fan unit, please see attached tech spec, supply fan unit will then be connected using flexible connectors and mounted using anti vibration rubber mountings to eliminate any noise and vibration levels also the supply fan unit will then be connected to 2 No attenuator before and after the fan unit to achieve the insertion loss.

315mm diameter supply ductwork system from air inlet will enter into the kitchen area and provide 85% air replacement back into the kitchen areas via air diffusers grills , supply ductwork system will exit the building at the rear of the building as shown on on the drawing.

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 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 and serviced in accordance with BESA TR19 , Fan Rescue Ltd will provide this service.

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

Yours sincerely

Irfan Nakip
Operations Director