



Commercial Kitchen Extraction & Ventilation Systems Specialists  
ESTABLISHED 2005

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**130 Charing Cross Road  
London  
WC2H 0LA**

**KITCHEN EXTRACTION SYSTEM PROPOSAL**

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**Date: 29th July 2017**

**Ref:P76584R**

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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 odour control filtration system**

Above the cooking equipment a wall mounted type stainless steel extract canopy , 3200mm long x 1100mm wide , 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 .

300x600mm Ductwork system from the canopy hood will connected to a , high odour filtration unit, the filtration system consist of 2x disposable pre-filter G4(Please see attached tech info ) 2No 24"x24"24" 50kg of extra duty carbon filter unit total of 100kg & Casing ,(Please see attached tech info ) to give dwell time of 0.4 sec , the filtration unit will then be connected to a Helios 500GBW/4/4 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 a Acustica R02-6-1200, 1200mm long attenuator after the fan to achieve the insertion loss, 450mm diameter ductwork from silencer will then exit the rear of the building , then rise vertically to the top of the building and terminate 1 meters above the eaves level via high velocity discharge nozzle as shown on the CAD drawing.

### **Passive Fresh air kitchen supply system**

Fresh air into the kitchen area will be provided by a motorised pre filtered ducted system, from the weather louver grill at the rear of the building 450mm diameter supply ductwork will be connected to a Helios 450GBW/4/4 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 a Acustica R02-6-1200, 1200mm long attenuator before then fan to achieve the in-

section loss , supply ductwork will then enter into the kitchen area to provide fresh air via 3 no of diffuser grills as shown on the CAD Drawing .

Kitchen extraction system will be manufactured and installed subject to in accordance with DEFRA guidance , DW 172 specifications.

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

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

Yours sincerely

**Irfan Nakip**  
Operations Director