



Fan Services

*Commercial Kitchen Extraction
and Ventilation Experts*

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KITCHEN EXTRACTION & ODOUR CONTROL SYSTEM

Above the cooking equipment a stainless-steel extractor hood canopy, 3,200mm long x 1,200mm Deep 500mm high.

The canopy is manufactured in 304 grade with external dull polish grain and internal filter housing to removable/washable baffle type grease filters, which are highly efficient at grease removal.

304 grade stainless steel wall cladding underneath of the canopy.

500mm diameter/ 90-degree Ductwork from the canopy hood will be connected to a secondary filtration housing which will accommodate G4 Pleated Panel Filter immediately after the canopy baffle filters and prior to the fan. This filter will have a quick release clamps for ongoing maintains. (please see attached tech spec for the filter).

Third stage of filtration is ozone odour control units such as type OC2 which will inject ozone into the extract ductwork just after the canopy and before the fan.

These will treat the odour emissions, via an oxidation reaction. This location closest to the source of the odours, will allow the maximum dwell time for the ozone to react with the emissions in the extract ventilation ductwork and ensure that adequate dilution takes place before the plume interacts with a receptor.

The ozone unit will be interlocked so that it only operates when the extract fan is operating. (please see attached tech spec for the OC2).

The filtration housing will then be connected to Helios GBW500/4 insulated box extractor fan unit with transformer speed controller. (please see attached fan technical specification).

The fan will be mounted on using anti vibration rubber mountings and connected to ducting using flexible connectors to eliminate vibration levels.

The 500mm diameter ductwork from the fan will then be reduced to 450mm diameter and exit the building vertically to discharge one meter above the eaves level with high velocity type HN jet cowl. (please see attached cowl details).

Circular spigotted noise attenuators would be installed on vertical ductwork outside the building- type Acustica CP03-C-450-2D, 900mm long to achieve the insertion loss. (please see attached details).

The Kitchen extraction system will be manufactured and installed in accordance with DW172 specifications.

CLEANING AND MAINTAINCE:

- 1- TR19 extractor system, ductwork cleaning to be scheduled every 6 months.
- 2- Pleated G4 Panel Filters to be changed every 2 weeks.
- 3- OC2 to be serviced every year.

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

Kind regards

Fadi Zen
Managing director