

Odour Control system, GDK GRAVESEND

The odour assessment for the kitchen extract system has a predicted odour risk of 35 based on the DEFRA guide, which equates to a high level of odour control required. Therefore we would propose to install an odour control system, detailed as follows.

The system would comprise of a purpose made filter housing incorporating the following filter types: -

4no 592x592x350 CP4 Fire Rated Bag Filter

General Description

The CP4, fire rated range of bag filters are used widely in government buildings, hospitals and other sensitive areas. This grade of filter would capture 90% of the grease left within the system after the canopy baffle filters.

Meets NHS HTM03 Filter Specification, Filter Class EN779:2012 G4

4no 592x592x300 RP Compact Medium/Fine Ridgid HEPA bag filters

General Description

The F9 grade ridgid bag filter are used within this system to capture the heavy particles of smoke from the cooking process and are 80% efficient.

4no-995x995x995 Discarb Activated Carbon Units

General Description

These filters are manufactured for ease of installation and incorporation into ducted air systems. They can be used on both supply for purifying incoming air, and can be used on the extract to remove toxic gasses and odours generated within a process.

Construction

These modules are manufactured by mounting a series on carbon panel filters within a sealed case. The airflow is epitomize by presenting the filtering surfaces in a "V" formation.

Each carbon panel is sealed into the filter case so as to ensure no air can bypass the carbon granules.

The panels are manufactured using long established bonding techniques which hold the activated carbon granules in a rigid biscuit. The biscuit is encapsulated in a carbon impregnated cloth which prevents any leakage of granules or powder.

The carbon filters would remove 90% of any residulal odours.

The final exhaust position of the extract system terminal would be at high level and would exhaust through a vertical jet cowl at 15m/s

Yours Sincerely

