From the oil sump, the duct converts into a single 315mm diameter duct which exits the other end of the trench, turning 90° and rises vertically outside the building. It then turns 90° at a height of 3000mm and travels for a distance of 2500mm turning 90° again to point vertically. Another 90° bend follows and connects into a 3 stage activated carbon filter cell.

The carbon filter cell comprises of a secondary grease filter, a particle filter and a carbon filter. The specification is as follows: Grease filter stainless steel mesh 600mm x 600mm x 50mm to be cleaned on a weekly basis. Pre-filter/EU4 particulate bag filter to be replaced as needed. Carbon filter/207°C carbon. High temp steam activated and de-dusted 50kg surface area 1050m³g typical. Dwell time 0.3 seconds. Apparent density 460-520kg/m³ resistance clean 50pa.

After the carbon filter cell, the duct then connects horizontally into the centrifugal fan unit. The fan unit is a 300mm diameter inlet/outlet, having an internally mounted 300mm x 125mm impeller connecting to a single phase 4 pole twin capacitor resilient mounted motor with flexible/anti-vibration connections on the inlet and outlet of the unit the noise level of this unit is 45dba @ 2000mm.

Finally, on exiting the fan unit, the exhaust duct rises 3000mm and terminates with a high velocity jet cowl, 1000mm above roof level.

The customer has agreed that there will be a weekly cleaning log kept for the grease filters in the backs of the pan covers, sump and the secondary grease filter in the carbon filter.

There will also be a 6 monthly service contract in place.

If you have any queries or would like to discuss this quotation, please do not hesitate to contact me on 01243 553691.

Yours sincerely

John Coleman