

Title: Proposed Extract Ventilation System.

Address: 734 Oxford Road, Reading RG30 1EH.

Kitchen Extract System. The extract system would consist of a 2.7m long x 1.1m wide x 500mm high Stainless steel canopy fitted with stainless steel baffle filters. On the back of the canopy 1no 500 x 400 galvanized sheet metal spigot through the wall into a void in the store room, a 500 x 500 duct up through the roof with a timber upstand weathered to the roof felt, a cravat fitted to seal the ducting, to the upstand, a bend over changing to 800 x 500 with a taper too the size of the pre-filter housing 1200 x 600 this would include washable pre-filters, throw away bag filters, carbon blocks, extract fan, a double silencer and a discharge beak. The extract system would be supported on uni-strut frames with rubber feet onto the roof, and the system would also incorporate removable access panels for future duct cleaning.

Extract Fan: This would be a Helios GBW 500/4 1ph Gigabox fan. The air volume would be 8399m³/hr at free air. The fan would be controlled by a Helios transformer single phase speed controller. The extract fan will be supported on anti-vibe mounts to reduce any vibration onto the structure.

Silencer: Standard Flakt Woods silencer 1000mm long x 500 dia the silencer would reduce the noise levels by 12 - 16dB at 3 metres from listener.

Filter Section: The filter section would incorporate 2 no 595 x 595 x 45 washable mesh filters, 2 no 595 x 595 x 380 long throw away bag filters and 2 no 595 x 595 x 600 long carbon blocks.

Gas Interlock Control: The extract fan interlock with the gas solenoid valve through a control panel.

Maintenance: Access doors fitted to the ducting, and a cleaning contract to maintain the system will be given, the mesh filters would need to be cleaned regularly (every two months) and the bag filters replaced to protect the carbon blocks.

8th February 2022

Catering Equipment Solutions Ltd. Unit 2 Wallingford Road, Uxbridge UB8 2RW