

Condition 12 - Odour Control System

Site address: Red Cow, 50 Crown Street Reading, RG1 2SE

*The odour, smoke and grease control system is proposed for the kitchen extraction system at the above site - as required **as per DEFRA guidelines**.*

The system will be comprised of an ESP system to remove grease and smoke particulate from the airstream. The system will then be fitted with an ozone system. The ozone system breaks down odour particles on contact and helps to minimise grease build up within the ductwork. The system will terminate with a high velocity vertical cowl to distribute fumes to high level.

The combination of the esp + ozone system acts as fine filtration as per current DEFRA guidance.

INITIAL GREASE REMOVAL

The extraction hood will be fitted with stainless steel baffle filter units. These filters will remove larger particles of grease from the airstream before they enter the extract canopy plenum and duct system.

SMOKE & GREASE REDUCTION - Data sheet: 2.0

An ESP unit will be fitted to the system adjacent to the extraction system. This system will remove grease and smoke particles **up to 98%** from the air stream before the system extracts to atmosphere.

ESP Unit: Rydair RY5000

Dimensions = H:540 x W:1243 x L:620 mm Weight = 90Kg

Location = within the kitchen.

ODOUR REDUCTION - Data sheet: 3.0

An ozone unit will be fitted to the ductwork system. This system is fitted externally to the ductwork and is not an inline unit. The system generated ozone electronically. This means there is no need for UV bulb replacements. The Ozone Extract improves the efficiency of kitchen extraction systems by increasing performance, removing cooking odours on contact, reducing grease deposits as well as lowering the cost of system maintenance.

Ozone Unit: ECE16g unit x 1

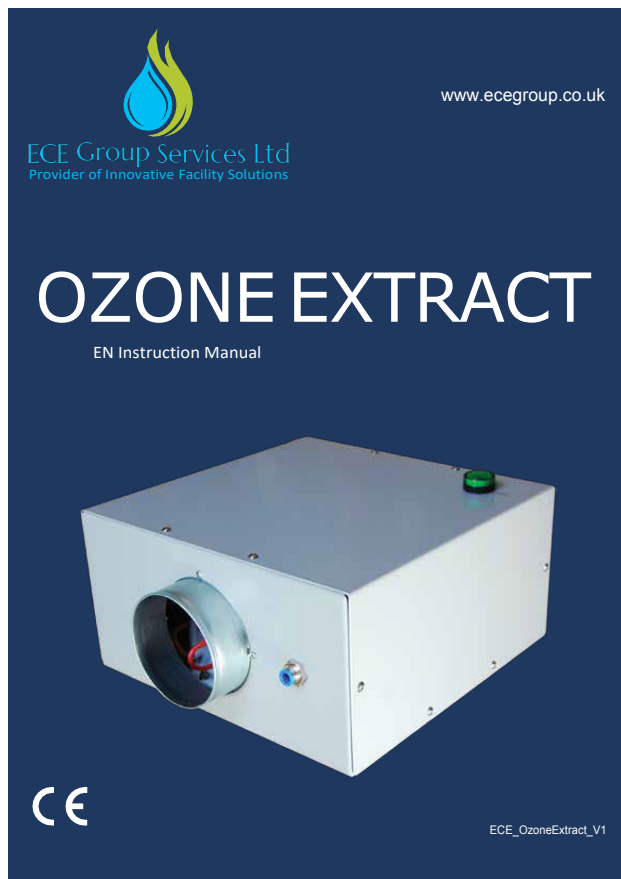
Dimensions = 400mm X 300mm X 100mm

TERMINATION EXHAUST POINT

The proposed exhaust point is 1,500mm below the existing chimney termination. This is approximately 1,500mm above the adjacent windows this is approx 1,000mm **above any adjacent windows within 20m of the outlet**. The system will be fitted with a vertical high velocity cowl termination with a velocity rate of 10m/s. This will force the already filtered air to atmosphere away from any adjacent windows.



- ESP Unit.
RY5000 unit.
Grease & Smoke Removal.
ESP Data sheet attached in email.



- Ozone Unit
16g unit.
Odour & grease reduction
Ozone Data sheet attached in email.