

# Kitchen Ventilation

The Cattles Building has been subject to change of use and as part of this we were invited to design, manufacture and install a fully ducted Kitchen extraction system, including manufacturing the canopy



A new kitchen extract canopy has been installed within the new area with both supply and extract ventilation.

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The Canopy is a Combined Outboard/Induction type canopy, manufacture from 304 DP1 grade stainless steel c/w 4No. 500 x 500 Stainless steel Baffle Filters for extraction.



For supply make up air there are 2No. 1900 x 150 Fixed linear bar grille c/w opposed blade dampers for balancing prepossess on the face of the canopy.

There are also 2No. 300 x 300 door transfer grille c/w intumescent fire block to make up the remaining 15% of supply.

This keeps the kitchen under negative pressure to stop smells migrating to other areas.

Supply and extract ducts run up in the suspended ceiling away from view in rectangular galvanised mild steel ductwork, passing through the wall to warehouse area above the set of double doors c/w fire dampers and access doors. We have included for additional **access doors to allow the ductwork to be cleaned** within the ceiling void of the kitchen area on the extract duct only.

The ductwork then rises up the wall to high level, where the extract terminates above roof level c/w with roof cowl and weathered upstand. The supply duct continues to run at high level with an **air inlet filter** inside the warehouse for a distance then rises to terminate above roof level c/w with roof cowl and weathered upstand to prevent short circuiting of supply and extract air.

The extraction system is sized on table 2-appliance coefficient and temperature schedule. The ducted supply air represents 85% of the extract volume. **Both fans** come complete with variable speed controllers.



The supply air is tempered using a heater battery to heat incoming air. This is a 2-stage 18kW heater battery, duct thermostat, air proving switch and associated control panel. The whole system was completed within Budget to the satisfaction of the customer



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