



Spice Merchant Restaurant
C/O Sammons Architectural LTD
Leek
Staffs
ST13 6JP
8/1/25

APP NO SMD/2024/0377

Kitchen Extract System

We are proposing to install a canopy in the property, the extract canopy will be fitted with stainless steel filters to collect airborne grease and particles, ductwork will pass through the existing wall where an extract fan will be sited complete with attenuators before and after the fan ,

There will be a Kitchavent 3000 max duty rated @2.12m3s sited in line which has further grease filtration and 4 carbon cells to control the smell of odours leaving the kitchen via the ductwork.

I would suggest that all external plant is painted to blend in with the building fabric.

Extract System Spec

System duty is 1.7 m3/s @ 500 pa

Fan will be by Elta fans suitable for high temperature motor out the airstream model SSQU4-56HT , the fan we have selected has a 4 pole motor to aid in achieving a low breakout noise, the fan will be inverter controlled as this also stops motor hum noise when running at low speeds as the system will only run at full duty during busy periods,

Kitchavent 3000 .1 sec contact time, c/w pre grease filter bag filter and 4 x carbon cells

The ductwork will run along the existing external wall (within the extension), connect onto the carbon filtration system before passing onto the box fan. The existing flue shall be extended upward which shall terminate above the proposed lean-to roof, and below the eaves of the higher roof, with a vertical discharge cowl. Efflux velocity of 10.83 m/s with a duct size of 400 Dia

The maximum operating noise of the system will be 57dba @ 3m

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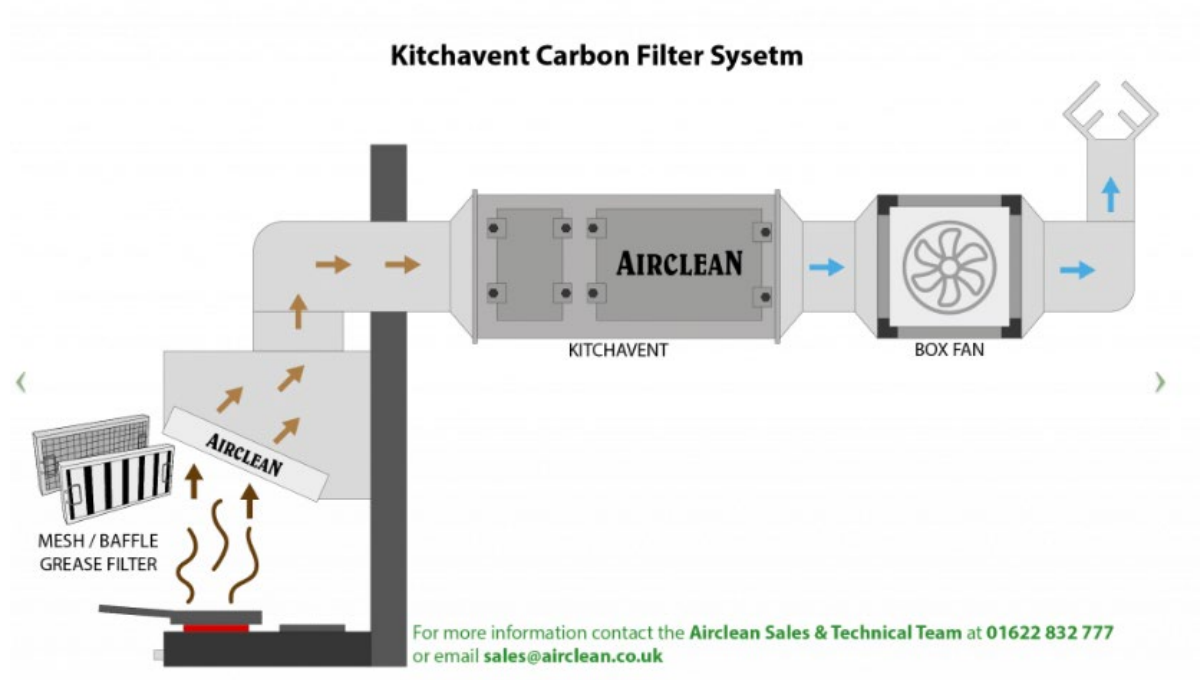
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System Maintenance

The entire system will need weekly maintenance to clean the internal filters in the canopy and the external units will need to be cleaned every 4 weeks depending on cooking loadings, the carbon filters will need to have a cell test in 6 months from initial fit to determine lifespan, I would expect this to be around 10 to 12 months, this will need to be discussed with the ventilation installer



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