

Extractor system details

The following would be installed on site to control the odour and meet requirements.

ESP 1500E

The first stage of control will be PurifiedAir's Electrostatic Precipitator units in a double pass formation. ESP 1500E's have been specifically designed for kitchen extract and not modified from industrial use, they have integral sumps to collect the oil, grease and smoke particles filtered out of the exhaust; this not only simplifies servicing but eradicates potentially dangerous spillage from the bottom of the units and greatly cuts down on flammable build-ups within the duct run.

The ionisation voltage has been designed to run at a negative potential which enhances the ionisation of particles and also produces more Ozone which is helpful in reducing odours in kitchen applications. ESP 1500E units fit in-line with the kitchen ducting and can be configured modularly to cope with all extract volume requirements.

The Electrostatic Precipitator is a very efficient means for separating the particulate phase; operating efficiency when clean can be as high as 98% at particle sizes down to 0.01 micron.

The Electrostatic Precipitator does not present a high-pressure loss (175PA approx. dependant on air flow). This gives a specific advantage in that most standard Kitchen extractor fans will have the capability of overcoming this small differential. This is particularly advantageous when it is considered that if the pressure loss were high larger noisier fans would probably be necessary resulting in potential noise pollution.

Purified air carbon filters

The second stage of control will be Purified Air's Sites Safe carbon filters; these innovative carbon units measure 594x196x597mm, three combining to 594x594x597mm, directly replacing original carbon blocks whilst providing exactly the same filter performance as an existing full size cell.

Sitesafe carbon filters use panels of activated carbon to remove the malodorous gases within the commercial kitchen extract duct through the process of chemical adsorption. By installing Purified Air ESP 1500 E units before, Sitesafe filters, the carbon life span is greatly will increase, allowing it to nullify malodours at optimum efficiency for much longer.

Helious 560 mm Fan

(the brochure of full details attached)

The flue stack would not be less than 1 meter shown on rear elevation.

