

Purbrook Park School

Sustainability Statement

Replacement Kitchen Ventilation System.

The existing School Kitchen is currently provided with a large roof mounted axial Kitchen extract fan, which is to be replaced to suit the new Kitchen equipment layout which is being designed by a specialist.

The specialist will provide details of the Kitchen extract and make-up air requirements in line with the recommendations of HVCA Publication DW172 (2005) once the layout has been agreed with the School.

The Kitchen specialist will provide details, supply and install the extract canopies which will complete with suitable grease/flame filters and vapour proof luminaires as necessary.

The replacement Kitchen ventilation system will be designed in full accordance with the requirements of DW172 and will include a new Kitchen Extract Fan and a make-up air supply air handling unit to provide 85% filtered and heated air to provide a minimum of 16°C during the heating season.

The existing external noise levels will be measured with the existing kitchen extract fan in operation, in order to ascertain the noise levels which are not to be exceeded by the new ventilation equipment.

The discharge air from the new Kitchen extract fan will be ducted to above the new Block A extension roof level with a vertical discharge efflux nozzle to meet the requirements of DW172 and to ensure that requirements of the Control of Odour and Noise in Commercial Kitchen Exhaust Systems produced by DEFRA are met.

Vapour encapsulated type in-duct sound attenuators will be utilised on the new Kitchen extract ductwork to reduce the noise levels both within the Kitchen and the exhaust to atmosphere.

Heat recovery will be considered to reduce energy consumption during the winter months.

The control of the Kitchen Ventilation system will be locally provided within the Kitchen by means of a 3 position switch, which will have Off/Preparation and Cook speed control of the Extract Fan and the Make-Up air handling unit supply fan.

In Preparation mode the fans will run a half speed, whilst in Cook mode the fans will run at full speed.