VENTILATION AND AIR CONDITIONING

SPECIFICATION

KFC-COVENTRY ROAD-HINCKLEY-LEICS

Introduction

The ventilation and air conditioning systems have installed as shown on drawing no. 31229/1A. These consist of the following:

Kitchen Extract Ventilation

The kitchen extract system incorporates two stainless steel canopies, one at 5450mm long x 1400mm wide and one at 1400 x 1000. The canopies incorporate continuous filter plenum complete with stainless steel baffle filters. From the canopies galvanised sheet metal ductwork extends, within the ceiling void, complete with a Systemair Ltd mixed flow extract fan capable of an air volume of 3.00 m3/sec. The extract system connects to an exhaust louvre located in the rear cladded wall of the building. The ductwork between the fan and louvre incorporates a silencer which is as specified in the Envirosound Ltd Acoustic report.

The ductwork system incorporates the provision for Odour Control. This can be undertaken in the following options.

Option 1. The installation of a Purified Air Ltd model ON 100 odour neutraliser unit.
Option 2. The installation of carbon filters complete with primary washable filtration.
Option 3. The installation of electrostatic precipitator units.
Option 4. The installation of an Ultra Violet system.

The system at present does not include any of the above options.

The ductwork system also incorporates a number of access panels which allow the future removal of the oil and grease build-up. The duct cleaning needs to be undertaken once per year.

Fresh Air Supply

The kitchen and staff areas are supplied with fresh air by a central plant. The air is introduced to the system through a louvre located in the rear cladded wall of the building. The duct system between the louvre and fan incorporates a silencer which is as specified in the Envirosound Ltd Acoustic report. The fresh air system has been designed to replace 70% of the air extracted from the kitchen and to achieve 10 air changes per hour in the staff areas.

Toilet Extract

The public and staff toilets are served by a common system. This discharges through a further louvre located through the cladded wall of the building. The system extracted at the rate of 10 air changes per hour from each room.

Air Conditioning

There are three Toshiba air conditioning systems within the building. The condensing units for the systems are located in the rear yard of the building and the environmental effects of the units are detailed in the Envirosound Ltd Acoustic report.

The air conditioning equipment will be thoroughly serviced by a qualified engineer twice per year.

29th September 2011