

EXTRACAIR INSTALLATIONS LTD

REFRIGERATION-AIR CONDITIONING-VENTILATION

Kitchen Extraction Statement

Pins Social Club

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Little Quay Street, Manchester. M3 3HP

INTRODUCTION

The site is located within the heart of Manchester city centre adjacent to the historic Opera house . The site has 14 storeys above ground and a basement where the proposed kitchen is to be located.

As part of the design an odour risk assessment has been conducted to obtain the level of filtration required from the kitchen extract system before discharge to atmosphere. The assessment concluded high level odour control is required (Table can be seen on drawing LX11278/1) .

The building has a vertical service shaft which will be utilised for the kitchen exhaust . There will be 1 cooking area served by one kitchen extract system. The ventilation canopy will be designed to DW 172 and constructed from 304 stainless steel with a full length filter housing with the ductwork constructed to DW144 with ample access doors to meet TR/19 cleaning requirements.

Proposed is a dedicated odour control and filtration systems with enough duct run to allow the correct operation of the odour neutraliser. The Extract fan will be mounted near the end of the duct run to ensure as much of the system is under negative pressure with Melinex lined attenuators placed either side of the fan. The kitchen exhaust to terminate through a new proposed weather louvre powder coated to an agreed colour.

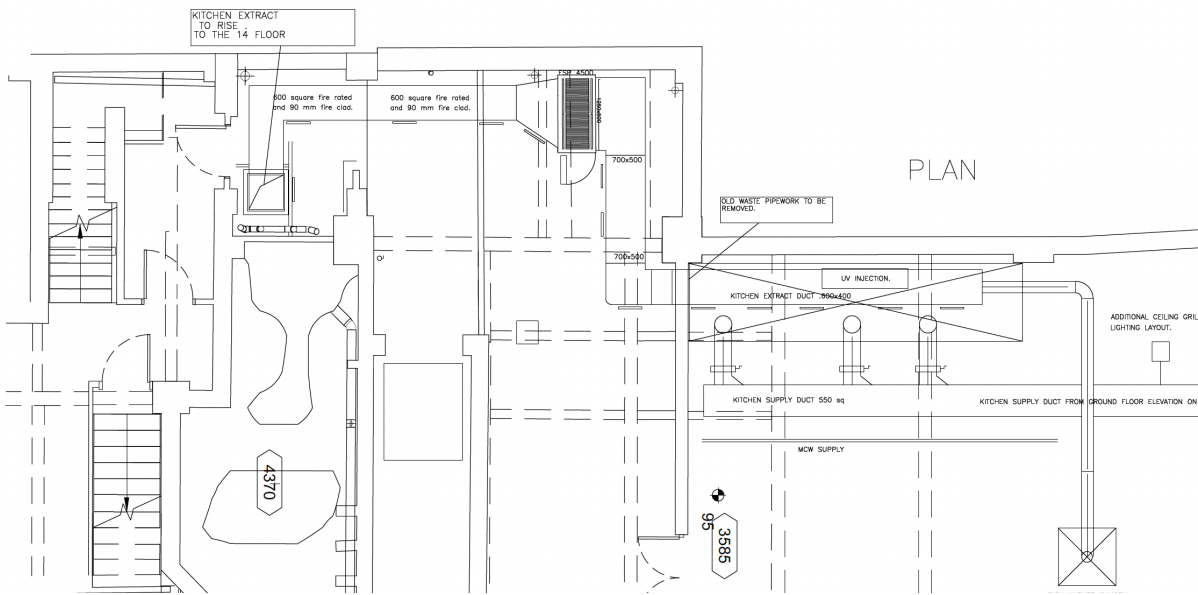
The proposed filtration system's initial line of defence will be Shepherd Canopy filters which remove up to 98% of the grease at source keeping the ductwork and canopy plenum clean. The filters come in pre cut pads and are easy to exchange for clean. The biodegradable pads are exchanged as required with the spent ones disposed of with the general waste.

Second line of defence via Purified Air electrostatic precipitator .Purified Air are a leading supplier of odour control equipment and provide a top level of routine maintenance to guarantee the operation of the equipment. Model ESP4500

Third line of defence via Odour neutralising ozone injection unit again via Purified Air . Model UVO1000

The kitchen extract fan to be a purpose high temperature unit with the motor mounted outside of the airstream. The System Air MUB kitchen fan has an easily removable access door for cleaning and has good air movement to sound level properties.

PROPOSED PLAN



SECTION

