

The Whitehouse Club EXTRACTION AND VENTILATION STRATEGY



DATE OF ISSUE: 09/09/2022

ISSUE: p1

GLD REFERENCE: J115/MEP/REP/001

PROJECT:

The Whitehouse Club

193 Middleton Rd

Crumpsall

Manchester

M8 4JZ

CLIENT:

Dappa Homes Ltd

DOCUMENT HISTORY:

ISSUE	DATE	DETAILS
P1	09.09.2022	REPORT

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1.0 INTRODUCTION

This report is written in response to MCC Planning Application number: 115468/OO/2017 Condition 29 regarding the strategy for commercial and residential ventilation at the White house club, 193 Middleton Rd, Crumpsall, Manchester M8 4JZ.

29) Prior to the first use of the club building within phase one, details of a scheme to extract fumes, vapours and odours from the premises shall be submitted for approval in

writing by the City Council, as Local Planning Authority. The approved scheme shall then be implemented prior to the first occupation of the club building and thereafter retained and maintained in situ.

Reason - To ensure appropriate fume extraction is provided for the club building pursuant to policies SP1 and DM1 of the Manchester Core Strategy and saved policy DC10 of the Unitary Development Plan for the City of Manchester (1995).

The principles that will be adopted in the design of the ventilation systems include:

- Compliance with Part F and Part L of the current Building Regulations as a Minimum
- Compliance with the Acoustic and Environmental Reports
- Compliance with BS9999:2008 and the developed fire strategy
- Compliance with DW144 HVCA Specification for Sheet Metal Ductwork
- Design of the ventilation system to minimise the concentration and recirculation of pollutants.
- Ventilation intake and discharge points compliance with Building Regulations Approved Document, Part B

2.0 HEATING SYSTEM

The buildings heating is via electrical Air source heat pumps with Heat recovery Air handling units located within the building .

3.0 GAS

There is no gas connection to the site and the building is entirely run on electricity.

4.0 CATERING

The There are no commercial cooking facilities in the club premisses. Note Domestic cooking via electric equipment is expected to take place in the Caretakes/managers flat .

5.0 VENTILATION

5.1 General

Ventilation for the club has been designed in line with Part F Volume 2: Buildings other than dwellings Services.

5.2 Function suites on ground and first floors

Mechanical ventilation to provide supply and extract ventilation for agreed occupancy levels via ceiling void mounted heat recovery ventilation units

VRF system for heating in winter and cooling in the summer

The calculations take account of some building infiltration only and there is no reliance on windows to offset heat gains to these spaces as comfort cooling has been provided.

Function suite wc's:

Supply and extract via mechanical ventilation heat recovery units to meet minimum building regulations ventilation rates.

Heating via electric panel radiators

No comfort cooling .

5.3 Second floor office accommodation

Mechanical ventilation to provide supply and extract ventilation for agreed occupancy levels via ceiling void mounted heat recovery ventilation unit.

Summer bypass available on MVHR unit.

Electric panel radiators for heating

No comfort cooling.

5.4 Second floor apartments

Mechanical ventilation to provide supply and extract ventilation to meet minimum building regulations requirements in line with Part F Volume 1: Dwellings System 4, Mechanical Ventilation with Heat Recovery (MVHR).

Summer bypass available on MVHR unit.

Heating via electric panel radiators,

No comfort cooling.