

MECHANICAL VENTILATION

The contractor shall be responsible for the design, supply, and installation and commissioning of :

1) New mechanical extract ventilation systems to serve the kitchen areas.

Note: The kitchen canopies and fans shall be designed by the kitchen contractor.

General:

- Designed in accordance with Building Regs Part F
- Designed in accordance with CIBSE Guide B2
- Designed in accordance with planning and environmental health recommendations.
- Kitchen vent installed in accordance with DW 172

Kitchen

A full extract canopy shall be provided cover the cooking range. Ducts shall exit to outside and rise to high level to terminate in a cowl at roof level. All canopies shall be selected to suit the appliances, addition units will require increased canopy size - to be determined by the final equipment layout. A bifurcated axial fan shall be located externally and shall be interlocked to the gas panel - where gas is used.

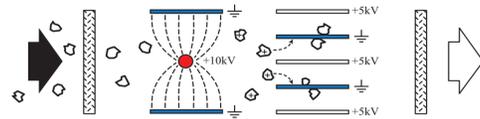
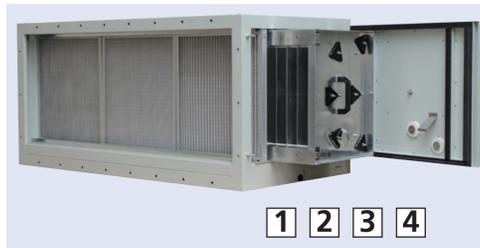
The extract side shall comprise: EC bifurcated fan, system and outside attenuators, electrostatic precipitator and roof cowl.

General

All ducts shall be spiral wound galvanised . Kitchen ducts shall use fire rated ductwork where passing through compartment lines yet shall be avoided where possible.

Filter Technology

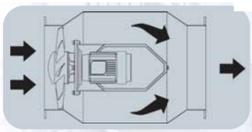
- 1 Pre-filter**
Eurovent Class 2
- 2 Ionisation section**
- 3 Collector section**
Eurovent class 9
Filter surface 15m² per collector
(ESP 1500E 15m²,
ESP 3000E 30m²,
ESP 4500 45m²)
- 4 Final filter**
Eurovent Class 2



Electrostatic Precipitator

THE PRECIPITATOR USES POSITIVE AND NEGATIVELY CHARGED PLATES TO CHARGE AND THEREBY ATTRACT ODOUR PARTICLES IN THE EXTRACT SYSTEM.

BIFURCATED EXTRACT FAN

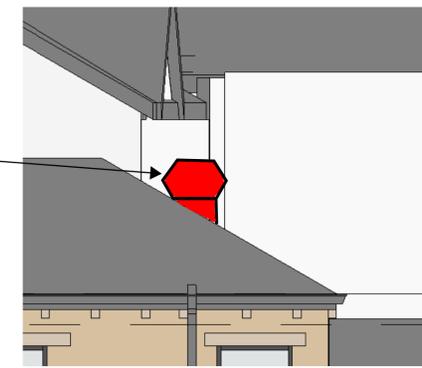


BIFURCATED AXIAL FAN ON WALL BRACKET WITH SOUND PRESSURE OF 69 dB(A) AT 1 METRE FROM SOURCE.

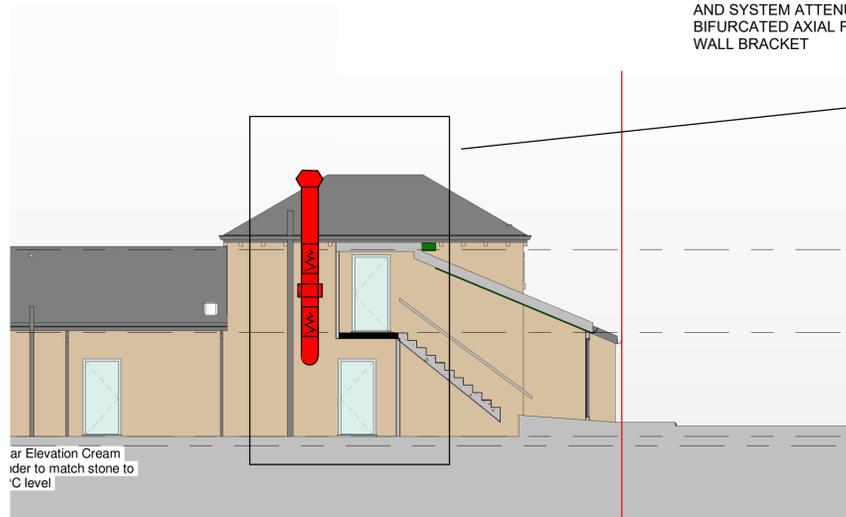
Model	Speed (r.p.m.)	Max. power absorbed (kW)	Maximum absorbed current (A)		Degree of protection	Insulation class	Max. air volume (m ³ /h)	Sound pressure level (dB(A))	Weight (kg)
			230 V	400 V					
TET/2-400	2850	1,10	4,30	2,55	IP-55	Class F	7500	81	53,4
TET/4-400	1400	0,55	2,60	1,50	IP-44	Class B	4000	69	52
TET/4-600	1410	1,10	4,80	2,80	IP-44	Class B	12800	74	83,5
TET/6-600	905	0,37	2,00	1,26	IP-55	Class F	8000	65	80



FRONT ELEVATION - NTS

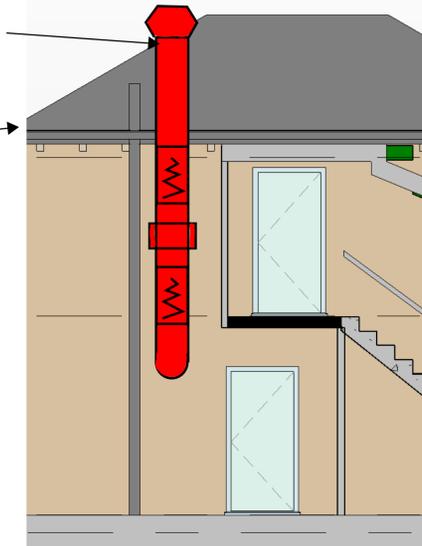


HIGH VELOCITY ROOF COWL AT APEX LEVEL

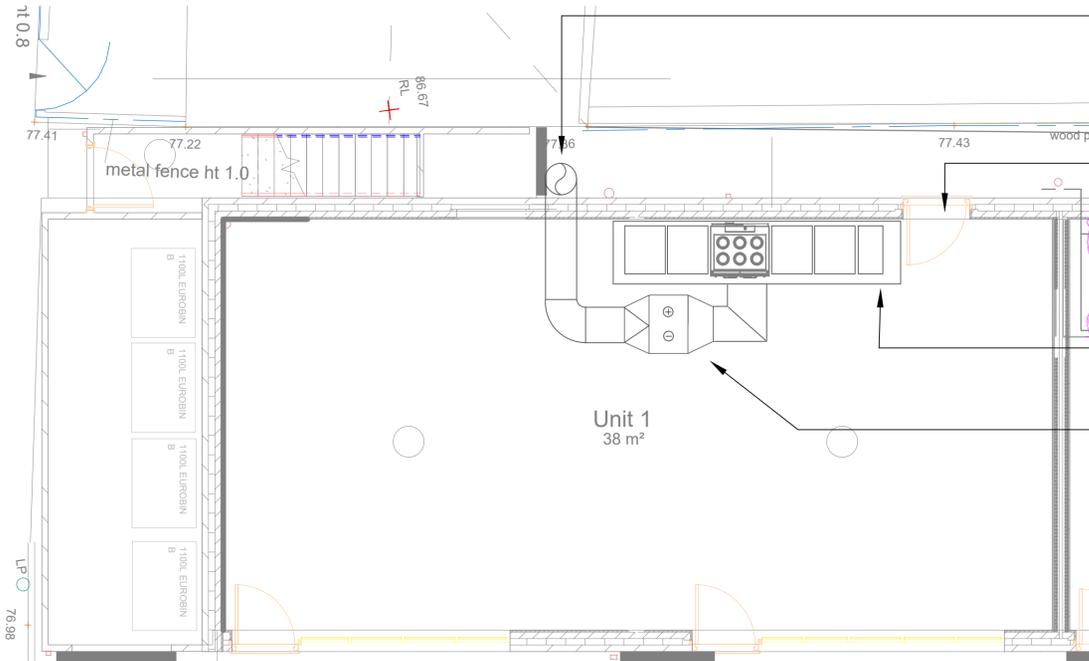


REAR ELEVATION - NTS

HIGH VELOCITY ROOF COWL AT APEX LEVEL, DISCHARGE AND SYSTEM ATTENUATION, BIFURCATED AXIAL FAN ON WALL BRACKET



77.31



GROUND FLOOR PLAN - NTS

EXTRACT DUCT RISE TO HIGH LEVEL AND TERMINATE 1000MM BEYOND ROOF LINE. TERMINATE IN COWL. NOTE: EXTRACT FAN IN VERTICAL

MAKE-UP AIR VIA OPEN DOOR WITH INSECT MESH

STAINLESS WALL CANOPY

KITCHEN EXTRACT DUCT, ELECTROSTATIC PRECIPITATOR TO REMOVE ODOUR AND GREASE.

DESIGN INTENT

NOTES:
IN CASE OF DOUBT OR DISCREPANCIES PLEASE REFER TO ARCHITECT FOR INSTRUCTIONS.
THIS DRAWING SHOULD NOT BE SCALED FOR CONSTRUCTION.
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REV	DATE	DESCRIPTION	BY
-	-	-	-

CLIENT : ADEEL SABIR

PROJECT : BRADFORD ROAD DEVELOPMENT

DRAWING TITLE : Mechanical Services Kitchen Ventilation Layout



DATE : JAN 23	SCALE : NTS @ A1
JOB NO. : -	DRAWN BY : TS
DWG NO. : M001	REV : -01
STATUS :	COMMENTS