

STAINLESS STEEL KITCHEN EXTRACT /
SUPPLY CANOPY TO DW172 OVER
COOKING EQUIPMENT. APPROX DIMENSIONS
5M X 1.5M
DUTY TO BE:
1.5M³/S EXTRACT
1.28 M³/S SUPPLY

300X300 SUPPLY SPIGOT
THROUGH FLAT ROOF

300X300 EXTRACT
SPIGOT THROUGH FLAT ROOF

KITCHEN

STORE/ WASH

FC 792
CH 2093

FC 792
CH 2093

FC 792
CH 2093

FC 792
CH 2093

FC 792
CH 2093

STORE

RESTAURANT

BAR

FC 961
CH 1954

FC 961
CH 1954

FC 805
CH 2056

FIRST FLOOR PLAN

300X300 SUPPLY SPIGOT
THROUGH FLAT ROOF

400X400 KITCHEN
SUPPLY DUCT

300X300 EXTRACT
SPIGOT THROUGH FLAT ROOF

400X400 KITCHEN EXTRACT DUCT
WITH CLEANING DOORS AT 2M
CENTRES

Silencer
Fan
800(w)
800(h)
800(d)
Silencer
1200x800 filter
on air inlet

ESP
1350(w)
640(d)
640(h)
640(f)
ESP
1350(w)
1200(h)
1200(f)
Carbon
1200(w)
1200(h)
750(d)
Carbon
1200(w)
1200(h)
750(d)
Fan
800(w)
800(h)
800(d)
Silencer

KITCHEN EXTRACT
DISCHARGE

+3611/
ROOF- U/S
COPING

ROOF PLAN

Revisions

1	27/2/20	Layout Updated
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Rev	Date	Comments
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NOTES

PLANT WEIGHTS:-

KITCHEN EXTRACT SILENCER	60KG
KITCHEN EXTRACT FAN	105KG
CARBON FILTERS	280KG X 2 (560KG TOTAL)
KITCHEN SUPPLY FAN	57KG
ESP	118KG X 2 (236KG TOTAL)

EMAQ+ (REVISED DEFRA) RISK ASSESSMENT:-

DISPERSION	PROXIMITY	SIZE	TYPE	TOTAL
15	10	3	10	38

FANS:-

EXTRACT FAN:

DUTY (TO DW172): 1.5M³/S @ 600pa (TBC)

MODEL: HELIOS GIGABOX GBD 560/4/4 T120

SOUND POWER LEVELS:-

hz	63	125	250	500	1k	2k	4k	8k	tot
INLET	NA	69	78	75	74	73	70	62	82
OUTLET	NA	76	77	79	79	77	72	64	85

SILENCER SOUND POWER LEVELS

hz	63	125	250	500	1k	2k	4k	8k
	-6	-8	-12	-20	-18	-13	-11	-9

SUPPLY FAN:

DUTY (TO DW172): 1.28M³/S @ 150pa (TBC)

MODEL: HELIOS GIGABOX GBD 500/4/4

SOUND POWER LEVELS:-

hz	63	125	250	500	1k	2k	4k	8k	tot
INLET	NA	57	66	69	74	70	64	55	77
OUTLET	NA	77	73	74	74	73	69	60	80

CARBON FILTERS:

MANUFACTURER: PURIFIED AIR
QUANTITY: 24 SITE SAFE FILTERS (2 BANKS OF 12 FILTERS) GIVING 0.58 SECONDS DWELL TIME

ESP:

MANUFACTURER: PURIFIED AIR
MODEL: 4500E
QUANTITY: 2
CONFIGURATION: IN LINE (ONE AFTER THE OTHER) DOUBLE PASS

DISCHARGE:

ROOF LEVEL, VERTICAL VIA HIGH VELOCITY DISCHARGE CONE

CONTROLS:

BOTH SUPPLY AND EXTRACT FANS TO BE FITTED WITH 5 STAGE SPEED CONTROLLERS

KITCHEN VENTILATION TO BE INTERLOCKED WITH GAS SUPPLY VIA A GAS SOLENOID VALVE AND PROVING SYSTEM ALSO INCORPORATING APPROPRIATE SAFETY INTERLOCKS FOR THE CHARCOAL GRILL IN ACCORDANCE WITH THE REVISED DW172



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Client:

Jimmy's

Project:

Jimmy's Restaurant, 27 Blossom Street,
Manchester

Drawing title:

Kitchen Ventilation System

Drawing Description:

First Floor and Roof Layouts

Scale:

1:50 @ A1

Drawn By:

Date:

Jan 2020

Drawing Number:

2192 M/101

Rev:

1