

**COMMERCIAL KITCHEN VENTILATION STRATEGY
48 JOEL STREET**

48 JOEL STREET-KITCHEN VENTILATION STRATEGY



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1. PARTY SUMMARY

MEP CONSULTANT	
HIRA & KHALIQUE ASSOCIATES	
Address:	2 nd Floor, Office A, Ferguson House 113 Cranbrook Road, IG1 4PU Mainline: 02031767970 www.hkassociates.co.uk
Design Consultant:	Lead consultant-07872450805 (S Khalique) MEP Designer- J Chau
Revision Number	00
Revision Notes	
Revision Date	04.02.2021
PROJECT ADMINISTRATOR	
Address:	-
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ARCHITECT	
SIRAF ASSOCIATES LTD	
Address:	186 Sloane Street London, SW1X 9QR
Tel:	
SITE REFERENCE	
48 Joel Street	
Address:	
No. Units:	1
Other Info:	NA
CLIENT	
Name:	Amigo Burger
Address:	

2. EXTRACT CANOPY

Kitchen canopy shall be manufactured and installed in line with DW 172 and DW 144 guidance. Canopy shall be 3000x1000mm, made from fine grain satin finish stainless steel- wall mounted single island- with built-in stainless steel baffle filters and a welded drain channel for drainage.

- Estimated extract speed 8-9 m/s
- Estimated air extract flow rate 1.0m³/s



3. EXTRACT FAN

Kitchen fan shall be bifurcated axial flow central rotating blade, with 2-hour minimum fire rated material resistance. Fan must be housed within an acoustic covering and interlock to gas control panel in the kitchen.

Product Reference	Dimension	Design Volume	Pressure drop	Sound	Electrical Supply	Manufacturer and Model	Note
		m ³ /s	Pa	dBA			
EF01- Kitchen extract fan	350 dia x 535 Length mm	1.0	200-250	63@3m	TBC	TBC	Speed controller, built in temp cut out switch, anti-vibration mount



4. ATTENUATORS

Attenuation shall be applied to the atmospheric side to suppress noise to approx. 45dBA at discharge outlet. Final noise rating to be confirmed by the acoustic consultant.



F SE- RIES SIZE ONLY	EXCLUDING POD KIT								INCLUDING FITTED POD							
	CENTRE BAND FREQUENCY								CENTRE BAND FREQUENCY							
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
F0250-1	1	2	2	8	10	8	8	7	2	6	8	13	21	24	22	18
F0250-2	1	3	4	13	18	12	12	10	3	12	13	23	29	29	19	20
F0315-1	1	2	4	9	11	10	9	7	2	7	8	14	22	25	22	19
F0315-2	2	2	5	13	18	12	11	10	3	13	14	23	30	30	20	25
F0355-1	2	3	5	11	13	11	10	8	2	6	8	11	22	24	21	16
F0355-2	3	4	7	14	18	15	11	10	3	10	15	22	29	30	29	22
F0400-1	2	3	5	10	13	11	9	8	2	7	9	15	23	25	21	17
F0400-2	3	4	8	14	18	14	11	9	3	10	14	24	30	29	28	21
F0450-1	2	3	6	12	13	11	9	7	2	6	8	16	23	23	21	16
F0450-2	3	4	8	17	18	15	11	10	3	7	12	22	29	29	25	20



5. DUCTWORK

Extract duct shall be made with 20 SWA steel gauge, manufactured to DW172 standards along with fire resistant fixings, and painted in suitable weatherproof coat on exposed surfaces. All supply ducts shall be galvanised steel, manufactured to DW144 standards. Supply duct shall be connected either into the kitchen canopy or ventilated ceiling. All supply ducts shall be thermally insulated to prevent condensation on the surface.

6. FILTERS

- Stage 1 – grease filter (Built into canopy)
- Stage 2 – carbon filter

7. ODOUR CONTROL UNIT

- Odour control unit shall be electrostatic percipetator with auto cut-off switch when door is open and fault indicator and operation lights.
- For high grease/oil applications drainage is required
- Unit shall be mounted horizontal with access on one side.

8. GAS SAFETY CONTROL PANEL

- Automatic shut off gas solenoid valve shall be installed on the incoming gas to the kitchen.
- Solenoid valve shall be controlled via gas safety interlock panel in the kitchen.
- All extract and supply fan must stop in the event of fire to reduce the spread.
- Gas interlock panel shall be compliant to BS6173 and operates using 230V AC single phase supply
- Emergency knock off button shall be provided in the kitchen