



Project Name

Mother Hubbards

8 South Parade

Rochdale

OL16 1LR

Date Completed

27/02/24

Completed By

Ian Clay

Ventilation Calculation

Equipment Description	Qty	Width	Depth	Area (m ²)	Total Area (m ²)	Co Efficient	Rate	Unit
GAS - Deep Fat Fryer (UCR)	0	555	555	0.31	0.00	0.50	0.00	m ³ /s
GAS - Deep Fat Fryer (Std)	4	555	610	0.34	1.35	0.50	0.68	m ³ /s
GAS - Deep Fat Fryer (Large)	0	710	610	0.43	0.00	0.50	0.00	m ³ /s
ELECTRIC - Griddle	0	600	600	0.36	0.00	0.40	0.00	m ³ /s
Total Extract Rate (Theoretical)							0.68	m ³ /s
Velocity (Ideal 6 to 9)							9	m/s
Area of Duct							0.08	m ²
Duct Size							0.27	m ²
Nearest Size (Round)							315	mm

Supply Air Calculation

Pan Size	Qty	Rate	Total	Unit
UCR (555)	0	25	0	kW
Standard (555)	4	25	100	kW
Large (710)	0	27	0	kW
Total			100	kW
Total kW x 12cm ²			1200	cm ²
Minimum Aperture (Width)			35	cm
Minimum Aperture (Depth)			35	cm

Based on Based on IGEM/UP/10 Edition 4 with Amendments

Position of Jet Cowl Above Roof

Description	Total	Unit
Factor for fanned draught flues	2.6644	
Net heat input	100	kW
Sub Total	266.44	
Plus	113.49	
Dimension	380	mm