

SPECIFIC EXTRACT FLOW RATE (SEFR) - DW/172:2017	100%	SEFR WITH CCA - m³/s	3.82
	85%	MAKE-UP AIR - m³/s	3.25

CLIENT Blacklock						17/07/2023 DATE	
SITE Manchester						CANOPY FACTOR	1.15
						Equipment Flow Rate (m³/s)	3.320175

Canopy Factors									
Type				Open Both Ends	Open One End	Closed Both Ends			
Low Level				1.15	1.10	1.05			
Passover				1.15	1.10	1.05			
Overhead Wall				1.25	1.20	1.15			
Overhead Wall, Island Mounted				1.50	1.40	1.30			
Island				1.35	1.25	1.15			

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Appliance	Coefficient		Surface Temp	Qty	Dims		Power	Coefficient	Area	Flow Rate		
	Gas	Electric			Width	Depth						Gas or electric
	m³/s per m²				°C	#						(mm)
MISCELLANEOUS												
Benches, Spreaders and Worktops	0.03	0.03	25	2	300.00	600	g	0.03	0.18	0.01	0.01	
Benches, Spreaders and Worktops	0.03	0.03	25					0.00	0.00	0.00	0.00	
Sink	0.15	0.15	25					0.00	0.00	0.00	0.00	
Pass Through Dishwasher	0.40	0.40	61					0.00	0.00	0.00	0.00	
Pan/Utensil Wash Machine	0.40	0.40	42					0.00	0.00	0.00	0.00	
Rack and Flight Dishwasher	See manufacturer's Spec		58									
HEATING/WATER												
Coffee Maker	0.00	0.03	25					0.00	0.00	0.00	0.00	
Microwave Oven/Toaster	0.00	0.03	25					0.00	0.00	0.00	0.00	
Bains Marie, Hot Cupboard	0.20	0.15	57					0.00	0.00	0.00	0.00	
Chip Scuttle	0.15	0.15	35									
Servery Counter - Hot Food	0.24	0.24	73					0.00	0.00	0.00	0.00	
Water Boiler/Still/Beverage Unit	0.25	0.20	78					0.00	0.00	0.00	0.00	
Light Duty Boiling Pan, Tilting Kettle	0.30	0.25	98					0.00	0.00	0.00	0.00	
Refrigeration Unit	See manufacturer's Spec		35					0.00	0.00	0.00	0.00	
BOILING / ROASTING / STEAMING												
Induction Hob, Ceramic Stove	0.20	0.20	30					0.00	0.00	0.00	0.00	
Combination Microwave Ovens	0.15	0.15	35					0.00	0.00	0.00	0.00	
Open Top Range and Oven	0.40	0.30	190					0.00	0.00	0.00	0.00	
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Solid Top Oven Range	0.60	0.51	420	1	900	600	g	0.60	0.54	0.32	0.37	
Boiling Table, Hob Top, Stock Pot Stove	0.35	0.25	190					0.00	0.00	0.00	0.00	
Boiling Pan / Steam Kettle	0.35	0.25	146					0.00	0.00	0.00	0.00	
Bratt Pan	1.10	0.90	190					0.00	0.00	0.00	0.00	
Heavy Duty Multi/Bulk Cooking Pan	0.90	0.90	240					0.00	0.00	0.00	0.00	
Pasta Cooker	0.30	0.20	120					0.00	0.00	0.00	0.00	
Roasting Ovens (with worktop)	0.35	0.30	98					0.00	0.00	0.00	0.00	
Tandoori Oven (not solid fuel)	0.50	0.33	90					0.00	0.00	0.00	0.00	
Combination Steaming Ovens (use larger oven if stacked)												
→Stand-Mounted 6 grid	0.35	0.30	92					0.00	0.00	0.00	0.00	
→Stand-Mounted 10 grid	0.45	0.32	92	3	850	850	g	0.45	0.72	0.98	1.12	
→Stand-Mounted 12 grid	0.58	0.35	92					0.00	0.00	0.00	0.00	
→Stand-Mounted 20 grid	0.86	0.40	92					0.00	0.00	0.00	0.00	
→Stand-Mounted 40 grid	1.18	0.55	92					0.00	0.00	0.00	0.00	
Atmospheric Steamer	0.35	0.20	125					0.00	0.00	0.00	0.00	
Pressure Steamer	0.30	0.20	120					0.00	0.00	0.00	0.00	
Dim Sum Steamer	0.30	0.20	123					0.00	0.00	0.00	0.00	
Fan Assisted Convection Oven	0.40	0.30	86					0.00	0.00	0.00	0.00	
Holding Oven	0.10	0.10	57					0.00	0.00	0.00	0.00	
FRYING												
Deep Fat Fryer	0.50	0.45	190	2	350	600	g	0.50	0.21	0.21	0.24	
Pressure Fryer	0.50	0.45	170					0.00	0.00	0.00	0.00	
GRILLING & BROILING												
Mild Steel Griddle	0.30	0.25	190					0.00	0.00	0.00	0.00	
Chrome Griddle / Plancha (chrome)	0.45	0.40	290					0.00	0.00	0.00	0.00	
Induction Griddle	0.27	0.27	62					0.00	0.00	0.00	0.00	
Clam Shell / Contact Grill	0.45	0.34	105					0.00	0.00	0.00	0.00	
Upright or Chain Broiler	0.75	0.55	410					0.00	0.00	0.00	0.00	
Salamander Grill	0.75	0.55	260					0.00	0.00	0.00	0.00	
Rotisserie (not solid fuel)	0.75	0.55	195					0.00	0.00	0.00	0.00	
Shawarma Kebab Machine	0.75	0.55	195					0.00	0.00	0.00	0.00	
Chargrill / Charbroiler	0.95	0.52	350					0.00	0.00	0.00	0.00	
Vapourising Grill (less than 16kW/m2)	0.75	0.75	170					0.00	0.00	0.00	0.00	
Chinese Wok Range (Induction)	0.40	0.40	88					0.00	0.00	0.00	0.00	
Chinese Wok Range	0.90	0.90	280					0.00	0.00	0.00	0.00	
Chinese Wok Range (Turbo)	1.00	1.00	370					0.00	0.00	0.00	0.00	



PIZZA COOKING & BAIING (GAS OR ELECTRIC ONLY. NO SOLID FUEL)										
Conveyor Pizza Oven										
→Single Deck	0.30	0.25	90					0.00	0.00	0.00
→Double Deck	0.60	0.50	90					0.00	0.00	0.00
→Tripple Deck	0.90	0.75	90					0.00	0.00	0.00
Deck Pizza Oven										
→Single Deck	0.20	0.15	90					0.00	0.00	0.00
→Double Deck	0.40	0.30	90					0.00	0.00	0.00
→Tripple Deck	0.60	0.45	90					0.00	0.00	0.00
Pastry / Baking Oven										
→Single Deck	0.15	0.10	90					0.00	0.00	0.00
→Double Deck	0.30	0.20	90					0.00	0.00	0.00
→Tripple Deck	0.45	0.30	90					0.00	0.00	0.00
SOLID FUEL COOKING (INCLUDING GAS OVENS THAT HAVE SOLID FUEL CAPABILITY)										
Open Grill / BBQ / Charcoal Pit	0.96	0.96	420	2	1500	700	S			1.80
Enclosed Charcoal Oven	1.24	1.24	210				S	0.00	0.00	0.00
Stone Hearth Oven	0.45	0.45	90				S	0.00	0.00	0.00
Smoker (See Manufacturers Literature - set to 1 worse case)	1.00	1.00					S	0.00	0.00	0.00
Tandoori Oven	0.55	0.55	90				S	0.00	0.00	0.00
Rotisserie	0.65	0.65	95				S	0.00	0.00	0.00

