

C705 CIAOOO PIZZA			EXTRACT DUCT SYSTEM RESISTANCE CALCS						
Section	Duct size - mm	Area	Length mtr	ζ	Volume m ³ .s ⁻¹	Velocity m.s ⁻¹	VP	Pa.m ⁻¹	Loss Pa
canopy					0.25				80
branch into header	200 dia			0.5	0.25	8	38.4		19.2
duct	200 dia		2.7		0.35			8	21.6
bend 90°	200 dia			0.24	0.35	11.2	75.26		18.06
duct	200 dia		1.2		0.35			8	9.6
bend 90°	200 dia			0.24	0.35	11.2	75.26		18.06
duct	200 dia		0.75		0.35			8	6
taper	200 dia<300dia			0.24	0.35	11.2	75.26		18.06
duct - branch inlet	300dia			0.23	0.5		31.1		7.15
duct	300dia		0.75		0.5	7.2		2.2	1.65
transform	300dia<350x475			0.26	0.5	7.2	31.1		8.09
ESP modules					0.5				125
duct	350x475		0.6		0.5			0.28	0.168
taper	350x475<1200x600			0.63	0.5	3.2	6.14		3.87
Carbon filters					0.5				30
taper	1200x600>580x580			0.12	0.5	1.8	1.94		0.23
bend 90°	580x580			0.47	0.5	1.8	1.94		0.912
FAN					0.5				
transform	230x580>300dia			0.05	0.5	7.2	31.1		1.56
sound attenuator	300dia				0.5				3
bend 90°	300dia			0.37	0.5	7.2	31.1		11.51
duct	300dia		0.7		0.5			2.2	1.54
transform	300dia<300x500			0.3		7.2	31.1		9.33
louvre	300x500				0.5				100
									494.59