



Odour Abatement

Kitchen Odour Abatement Proposal Extract System 1					
Air Volume:	3.72m ³ /s				
Cooking Application:	Chinese food				
Meals served per day:					
Opening Hours:					
Outlet Type	Dispenser	Proximity of Receivers	Size of kitchen	Cooking type	Total Score
Pub	10	5	3	10	28
Impact Risk	Odour Control Requirement	Significance Score			
Low to Medium	Low level odour control	Less than 20			
High	High level odour control	20 to 35			
Very High	Very High level odour control	More than 35			
First Stage Filtration					
Type 11 Pleated Panel Filter 595x595x45mm, pressure drop (pd) 55pa					
Efficiency: G4					
Qty: 4					
Manufacturer: Purified Air					
Second Stage Filtration					
Electrostatic Precoator 4500E 1350 x 630 x 640					
Efficiency: 99%					
Qty: 3					
Manufacturer: Purified Air					
Third Stage Filtration					
Ultra violet UV-D 1000					
Efficiency: 98%					
Qty: 3					
Manufacturer: Purified Air					
Fourth Stage Filtration					
Type 8 Carbon Cube 597x597x597mm, pd 125pa					
Contact Time: 0.3 seconds					
Qty: 4					
Manufacturer: Longar Industries Ltd					
Fifth Stage Filtration					
O.N. 10 Deodoriser					
Efficiency: NA					
Qty: 1					
Manufacturer: Purified Air					

Plant Loadings

Kitchen Extract			Kitchen Supply		
Equipment	Qty	Weight (kg)	Equipment	Qty	Weight (kg)
Carbon Housing	1	80	Silencers	2	45
Carbon cells	4	70	Duct	1	40
Extract fan	1	184	Frame	1	35
Silencer	1	60	Fan	1	44
Duct	1	130			
ESP	3	140			
UV-D	3	80			
		Total			Total
		1394			209

Fan Schedule

REF	Fan Type	Air Volume m ³ /s	External Resistance (Pa)	Fan Model	Electrical Supply	Motor Rating (kW)	Max. Speed	Noise level @5m sphere	Weight	Installation Arrangement
EF1	Centrifugal	3.72m ³ /s	450pa	MUB/T 100 G30D4-K2-L	3-Phase	5.1kw	1439	57dba	183kg	In-Line, ducted
SF1	Axial	3.162m ³ /s	220pa	SLC 560/A/5B-AC	3-Phase	1.6kw	1460	60dba	44kg	In-Line, ducted

