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QF8044/R1/MGR/CW

21st October 2014

Conditioned Environment (Mechanical Services) Ltd
245 Acton Lane
Park Royal
London
NW10 7NR

For the attention of Mr Peter Milan

Dear Sir,

Re: 19 Percy Street, London W1

We have pleasure in attaching herewith our quotation for the silencers now required for the attenuation of the Kitchen Extract Fan and the Heat Recovery Unit on the above project to the following noise levels:-

Externally: 51.6 dBA at 1 metre from the nearest residential property's window
Internally: NR 35 in the Restaurant

The silencers for the kitchen extract system have been selected against the Sound Power levels given for the Elta extract fan listed in the table below:

Ref	Description	Make/ Model	Airflow (m ³ /sec)	Sound Power Level (dB ref 10 ⁻¹² watts)								
				63	125	250	500	1k	2k	4k	8k	
EF1	Kitchen Extract Fan	Elta SSQU2/4- 3HT	1.00 @ 300 pa	Inlet	73	75	70	66	62	65	64	59
				Outlet	76	76	70	68	68	64	63	59

We again attach herewith our sketches No. QFD/8044/S1 and -/S2 which give details of the silencers S1 to S4. We also attach herewith our bulletins No. 104/08 and 105/03 which give technical details of the Emtec RAAC 38 and RAAC43 silencers included in our quotation.

We trust that the above is in line with your requirements, but should you have any queries with regard to our proposals, please do not hesitate to contact the undersigned.

Yours faithfully


M.G. Roberts
Director



Reg. No. 3164658. VAT Reg. No. GB675017042
Directors: I.J.Marchant MIOA (Managing) – J.R.Tait B.Eng, AMIMechE, MIOA
M.G.Roberts BSc., C.Eng., MIMechE, MIOA – R.T.H.Roberts FCA. (Co.Sec.)



SILENCER SCHEDULE

Client: Conditioned Environment (Mechanical Services) Ltd

Project: 19 Percy Street, London W1

Ref. Location	Type	Dimensions (mm)			Vol (m ³ /s)	P.D (Pa)	Dynamic Insertion Loss (dB)						No.Off	Price Each (£)	Total (£)	
		W	H	L			63	125	250	500	1k	2k				4k
S1	Fresh Air Intake (HRU)	325	325	1050	0.258	25	4	7	15	24	32	33	29	18	1	£138.00
S2	Exhaust Air Outlet (HRU)	325	325	1350	0.258	25	5	10	19	32	39	38	31	20	1	£158.00
S3	Supply Air (Roomside)	325	325	1300	0.258	25	5	10	19	32	39	38	31	20	1	£156.00
S4	Extract Air (Roomside)	325	325	1300	0.258	25	5	10	19	32	39	38	31	20	1	£156.00
S5	Kitchen Extract	500	350	1500	1.00	45	6	12	11	10	13	14	13	13	1	£148.00
S6	Kitchen Exhaust	500	350	1200	1.00	45	5	9	11	10	12	12	11	12	1	£135.00
													...	£891.00		
													...	£30.00		
													...	£921.00		

Total price (supply only, ex works)

Delivery to site

Total price for silencers (delivered to site)

Note: - Silencers S1 and S2 to be as per our attached sketch No. QF/8044/S1.

- Silencers S3 and S4 to be as per our attached sketch No. QF/8044/S2.

- Silencers S5 and S6 to have Mez 20 flanges at either end and Melinex lining to acoustic infill

Terms and Conditions of Quotation

Validity : Prices are fixed for acceptance for 60 days.

Delivery : 2-3 weeks from receipt of order.

Carriage : Included above.

V.A.T. : Chargeable extra at the appropriate rate.

Payment : Nett 30 days from date of invoice subject to credit clearance.

