Noise & Vibration Consultants 4 Mulberry Place, Pinnell Road, London, SE9 6AR **Tel: 020 8859 0303** Email: info@acousticsplus.co.uk Web: www.acousticsplus.co.uk



Proposed Installation of Mechanical Plant

16 Acton Street, London, WC1X

Environmental Noise Assessment

Author: Phil Huffer B.Sc. (Hons) MIOA

Principal Consultant

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Proposed Installation of Mechanical Plant					
Project Address:	16 Acton Street London WC1X				
Project Reference:	102903				

Issue/Revision Record									
Issue:	Date:	Remarks:	Author:						
1	16/06/2015	First Issue	Phil Huffer						

	Signature:	Print:	Title:	Date:
Author:	Plufty.	Phil Huffer	Principal Consultant	16/06/2015
Reviewer:	Acad.	Andy Dodd	Senior Consultant	16/06/2015

1. INTRODUCTION

- 1.1 Acoustics Plus Ltd (APL) is an independent firm of multi-disciplinary acoustic engineers. APL is engaged by both private and public sector clients.
- 1.2 APL is a registered member of The Association of Noise Consultants (ANC) and the author is a corporate member of The Institute of Acoustics (IOA).
- 1.3 APL has been instructed by the applicant, Heatherwick Studios, to consider and advise upon the noise implications of the proposed installation of mechanical plant.
- 1.4 The proposed installation consists of an Air Handing Unit and 2No. outdoor condenser units mounted on the flat roof of the property.
- 1.5 It is understood the Local Planning Authority (LPA) require further information on noise levels from the proposed installation in order to fully assess the noise impact upon the surrounding neighbourhood.
- 1.6 This report provides the response to the LPA, on behalf of the Applicant.

2. BASELINE SITUATION

- 2.1 The Application Site (the "site") is situated at 16 Acton Street, London, WC1X. The site, once redevelopment is complete, will consist of a building with B1 use arranged over 2 storeys. The site and its surroundings are shown in Figure 1 to 8.
- 2.2 It is proposed to install mechanical plant at roof level. The mechanical plant will consist of 1No. Air Handling Unit and 2No. external condenser units. The specification of the plant has been provided by Lamorbey Associates and will consist of:
 - (a) Air Handling Unit: 1No. Fläktwoods eQ Prime (size18)
 - (b) Office outdoor condenser: 1No. Mitsubishi PUMY-P100VHMB
 - (c) Server room outdoor condenser: 1No. Mitsubishi PUHZ-ZRP35VKA
- 2.3 The location of the proposed equipment is shown in Diagram 1 overleaf. This diagram also shows the location of noise sensitive façades nearby to the plant. This is considered to be the rear façades of properties facing on to Swinton Street for plant items (a) and (b) and the rear façades of properties facing on to Acton Street for plant item (c).

2.1 The location of the roof mounted plant is shown in Diagram 2 below.

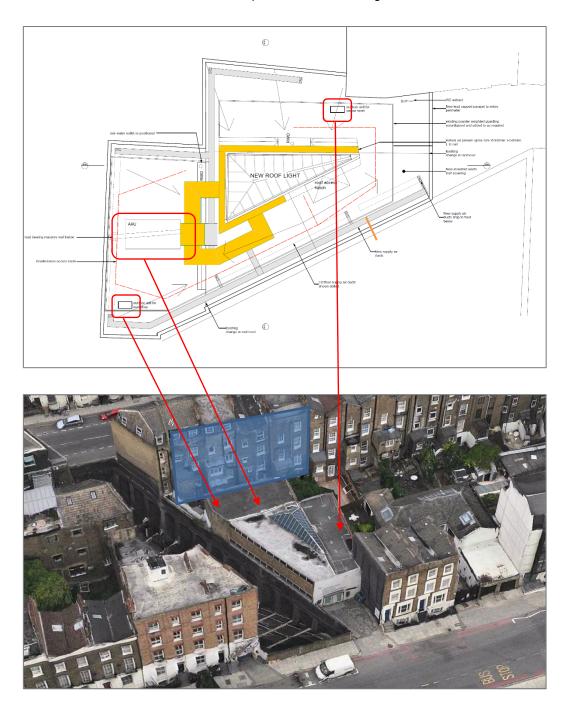


Diagram 2

3. NOISE OUTLINE

- 3.1 In order to produce an environmental noise assessment, consideration must be given to the prevailing background noise in the locality of the installation.
- 3.2 Measurements of background noise were obtained over a 24 hour period at a location deemed representative of background noise levels experienced at the nearest noise sensitive façade.
- 3.3 The measurements obtained during the exercise were obtained at roof level on 16 Acton Street.
- 3.4 The particulars of the measurement exercise are recorded below:

Date: 9th March – 10th March 2015

Start Time: 13:14 hrs

Location: roof level, 16 Acton Street

Weather: No rain, light wind.

3.5 The measurements carried out during the exercise are recorded below:

L₉₀ percentile level (dB re 20µPa) at 15 minute intervals

- 3.6 The measurements obtained during the exercise are presented in Appendix B.
- 3.7 Minimum background and average noise levels are shown in Table 1 below:

WHO period	Lowest L _{A90,15min}	Average L _{Aeq,T}
07:00-23:00hrs	52 dB	60 dB
23:00-07:00hrs	41 dB	56 dB

Table 1

- 3.8 The proposed items of mechanical plant and their respective noise are as follows:
 - (a) Air Handling Unit: 1No. Fläktwoods eQ Prime (size18) AHU Exhaust air – sound power level 86dBA Fresh air – sound power level 70dBA
 - (b) Office outdoor condenser: 1No. Mitsubishi PUMY-P100VHMB Sound pressure level 49dBA @ 1m
 - (c) Server room outdoor condenser: 1No. Mitsubishi PUHZ-ZRP35VKA Sound pressure level 44dBA @ 1m

4. DESIGN CRITERIA

4.1 Information regarding the noise levels not to be exceeded by the proposed installation was provided by the LPA (London Borough of Camden). The design criteria is based on a typical planning condition that the LPA attach to applications of this nature.

Typical planning condition relating to mechanical plant

"Noise levels at a point 1 metre external to sensitive facades shall be at least 5dB(A) less than the existing background measurement (LA90), expressed in dB(A) when all plant/equipment (or any part of it) is in operation unless the plant/equipment hereby permitted will have a noise that has a distinguishable, discrete continuous note (whine, hiss, screech, hum) and/or if there are distinct impulses (bangs, clicks, clatters, thumps), then the noise levels from that piece of plant/equipment at any sensitive façade shall be at least 10dB(A) below the LA90, expressed in dB(A)."

- 4.2 It is expected that the proposed mechanical plant may have a noise that has a distinguishable, discrete continuous note (whine, hiss, screech, hum). The plant noise emission criteria that should not be exceeded is therefore 10dBA below the LA90, as shown in Table 2. These levels should not be exceeded at the nearest noise sensitive premises.
- 4.3 For mechanical plant items (a) and (b), the noise emission limit is only applicable between the hours of 07:00 and 22:00hrs (possible office hours). It is understood that these items of mechanical plant will not be operational outside of this period. For mechanical plant item (c), the noise emission limit will be at any time, as this condenser unit provides climate control of a server room.

Noise emission limit for mechanical plant 07:00 – 22:00hrs	Noise emission limit for mechanical plant (at any time)
42	31

Table 2

5. EQUIPMENT

- 5.1 All measurements were obtained using the following equipment:
 - Norsonic Precision Sound Level Meter Type NOR140 Serial No. 1403466
 - Rion Calibrator Type NC-74 Class 1 Serial No. 00410215
- 5.2 The relevant equipment carries full and current traceable calibration. The equipment, where necessary, was calibrated prior to and after the measurements were carried out.

6. CALCULATIONS

- 6.1 In order to predict the noise impact of the proposed installation of mechanical plant, consideration has been given to noise egress from the plant items to the nearest noise sensitive façade(s).
- 6.2 Where necessary, acoustic mitigation measures such as the use of acoustic attenuators have been included in the calculation process to demonstrate compliance. Items of plant requiring mitigation measures have been highlighted within the conclusion.
- 6.3 The following noise impacts were considered:
 - (a) Noise Impact A the egress of noise from the Office AHU to the noise sensitive property adjacent;
 - (b) Noise Impact B the egress of noise from the external condenser unit associated with the office climate control system to the noise sensitive property adjacent;
 - (c) Noise Impact C the egress of noise from the external condenser unit associated with the server room climate control system to the noise sensitive property adjacent:
- 6.4 Throughout the calculation exercise, guidance and formula were extracted from the authoritative publication "Noise Control in Building Services" (published by SRL).
- 6.5 The ductwork system attenuation was calculated by considering the attenuation of sound energy produced by each component of the ductwork system. Detailed calculation sheets are contained in Appendix C.

Noise Impact (A) and (B)

6.6 Noise leaving the ductwork system and condenser unit was propagated to the nearest noise sensitive façade using point source propagation. The calculation exercise (attached as Appendix C) provided the following results at the nearest noise sensitive façade:

Source	L _{Aeq} dBA @ noise sensitive façade
(a) Air Handling Unit fresh air	27
(a) Air Handling Unit exhaust	41
(b) Office condenser unit PUMY-P100VHMB	31 [49-20Log ₁₀ (11)+3]
(c) Server room unit PUHZ-ZRP35VKA	22 [44-20Log ₁₀ (17)+3]
Cumulative noise level of items (a) and (b)	42dBA

Table 3

- 6.7 In order to comply with the requirements of the LPA, any cumulative noise from the proposed installation of the mechanical plant should not exceed a level of 42dBA (10dB below the lowest measured background noise over the operational hours of the plant) at 1m from the nearest noise sensitive facade.
- 6.8 The calculated cumulative noise impact of (a), (b) and (c) is L_{Aeq} 42dBA. The calculation exercise (Table 3) demonstrates that the proposed installation meets the LPA criteria.

Noise Impact (C)

6.9 In considering the propagation of noise from the condenser, consideration was given to point source propagation. The output level of the condenser was first corrected by +3dB to account for 1No. reflecting plane beneath the condenser unit.

Source	L _{Aeq} dBA @ noise sensitive façade
Mitsubishi PUHZ-ZRP35VKA @ 1m	44dB
Distance attenuation over 6m	-16dB
Reflecting plane	+3dB
Level at noise sensitive façade	31dBA

Table 4

- 6.10 In order to comply with the requirements of the LPA, any noise from the proposed installation of the server room condenser unit should not exceed a level of 31dBA (10dB below the lowest measured background noise over the operational hours of the plant) at 1m from the nearest noise sensitive facade.
- 6.11 The calculated noise impact of the server room condenser unit is L_{Aeq} 31dBA. The calculation exercise (Table 4) demonstrates that the proposed installation meets the LPA criteria.

7. CONCLUSION & MITIGATION MEASURES

- 7.1 The foregoing assessment indicates that the proposed installation will meet the requirements imposed by the LPA.
- 7.2 No further mitigation measures (other than those detailed in this report) are required.
- 7.3 Lest there be any misunderstanding, the mitigation measures detailed are summarised as follows:
 - (a) AHU Exhaust duct atmosphere side in-line attenuator (as per spec sheet);
 - (b) AHU Fresh Air duct atmosphere side in-line attenuator (as per spec sheet);

Proposed installation of mechanical plant on roof of 16 Acton Street, London



Figure 1



Figure 2



Figure 3



Nearest noise sensitive façades



Figure 5



Figure 6





Figure 7



Figure 8







AIR HANDLING UNIT eQ Prime

Project 19167 () / acton st *Acon 2.8.150609.1*

AOC ACON-01668300

 Unit
 5 () / Unit for Issue
 2015-06-09

 Size
 018
 Page 3/20

Customer Customers ref.

Our ref. Duncan Goodall

Supply air flow 1.68 m³/sec Exhaust air flow 1.68 m³/sec

Ext. static pressure 200 Pa Ext. static pressure 200 Pa Voltage 3 x 400V + N, 50 Hz Weight 1396 kg

Specific electric power demand 2.06 kW/(m³/s) Dimensioned for wet condition

Ref. density 1.2 kg/m³ Ref. altitude above sea 0 m level

SUMMARY

Functional sections in direction of air flow	v0 (m/s)	Et (%)	tw (°C)	ts (°C)	dP* (Pa)
Supply air:					
Connection section	0.0				90
Filter	2.6				124
Cooler	2.2		-4 / 26.2	29 / 23.1	248
Inspection section					0
Plenum fan		63.0	26.2 / 27.1	23.1 / 24	696
Connection section	0.0				0
General loss					34
Supply outlet					200
Exhaust air:					
Exhust inlet					200
Connection section	0.0				0
Filter	2.4				116
Cooler	2.3		22 / -4.5	25 / 31	284
Additional throttling					84
Inspection section					0
Plenum fan	·	62.1			761
Connection section	0.0				37
General loss					40

^{*}Refers to the fan design case

SOUND POWER LEVELS

(standard: EN13053 ISO/CD 13347-2)

		Lw per octave band (dB)								
Octave band (Hz)	63	125	250	500	1k	2k	4k	8k	dB(A)	
Fresh air connection	63	64	75	65	63	60	56	56	70	
Supply air connection	67	72	82	81	80	77	72	70	84	
Extract connection	65	66	77	67	65	62	58	58	72	
Exhaust connection	69	74	84	83	82	79	74	72	86	
To surroundings	61	63	70	54	49	53	47	38	63	

TOLERANCE

According to EN 13053 the LwA tolerance is 4dB. Octave band tolerances are presented in the tolerance table

			Lwp	per octav	e band	(dB)			LwA
Octave band (Hz)	63	125	250	500	1k	2k	4k	8k	dB(A)
TOLERANCE	8	6	6	6	6	4	4	7	4

Frequency converters and motors mounted external are not included in the sound power levels

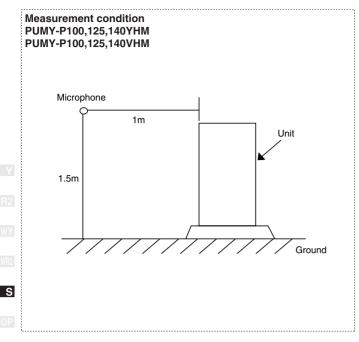


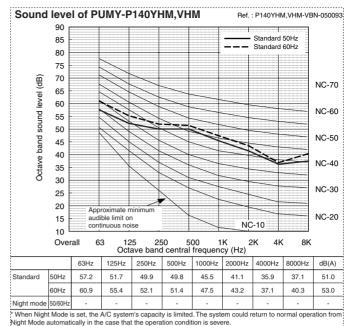
Rectangular silencers EQSD, BAKR-1

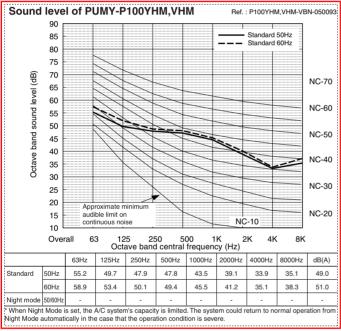
	Conne dimer	ection nsions	Length	Daming (dB) according to ISO 7235:1991						Resistance factors		
	(m	m)	(mm)	63	63 125 250 500 1k 2k 4k 8k							(p-number)
080-040	800	400	1200	6	9	18	28	33	25	15	12	2,5
110-050	1000	500	1200	6	9	18	28	33	25	15	12	2,5
140-060	1400	600	1200	6	9	18	28	33	25	15	12	2,5
140-080	1400	800	1200	6	9	18	28	33	25	15	12	2,5
170-080	1700	800	1200	6	9	18	28	33	25	15	12	2,5
170-100	1700	1000	1200	6	9	18	28	33	25	15	12	2,5
200-080	2000	800	1200	6	9	18	28	33	25	15	12	2,5
200-100	2000	1000	1200	6	9	18	28	33	25	15	12	2,5
220-100	2200	1000	1200	6	9	18	28	33	25	15	12	2,5

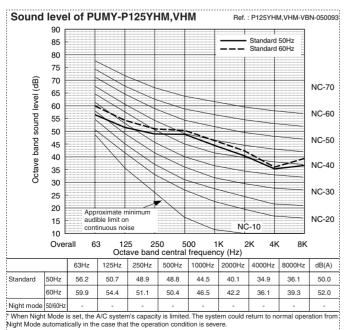
Fläkt Woods 9305 GB 2013.01 1 Subject to alteration

3. SOUND LEVELS

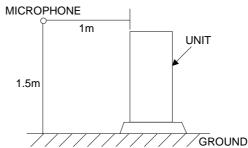


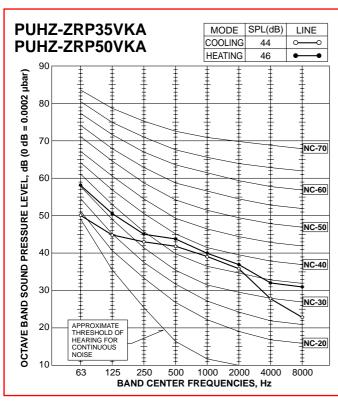


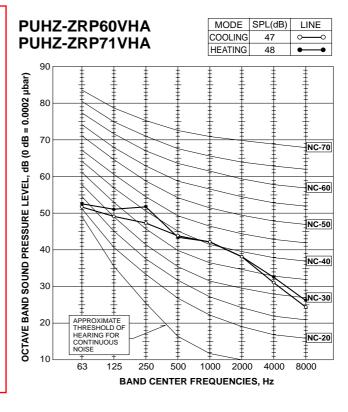


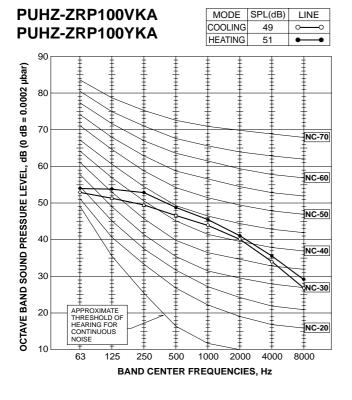


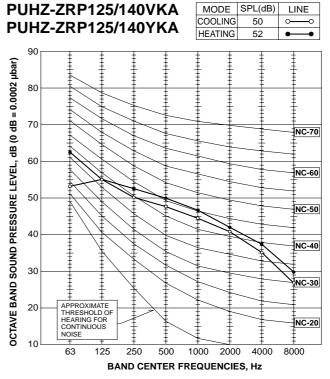
5-3. NOISE CRITERION CURVES











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34 09/03/2015 21:29:36 @APL0034 00:15:00 70 49 58 61 53 35 09/03/2015 21:44:36 @APL0035 00:15:00 74 49 59 61 53 36 09/03/2015 21:59:36 @APL0036 00:15:00 70 49 59 62 52 37 09/03/2015 22:14:36 @APL0037 00:15:00 69 49 58 61 52 38 09/03/2015 22:29:36 @APL0038 00:15:00 69 50 58 61 53 39 09/03/2015 22:44:36 @APL0039 00:15:00 71 50 59 62 52 40 09/03/2015 22:59:36 @APL0040 00:15:00 71 46 58 60 51 41 09/03/2015 23:14:36 @APL0041 00:15:00 69 45 58 62 50 42 09/03/2015 23:29:36 @APL0042 00:15:00 69 45 58 61 49 43 09/03/2015 23:29:36 @APL0042 00:15:00 69 45 58 61 49 44 09/03/2015 23:44:36 @APL0043 00:15:00 70 45 58 61 49 44 09/03/2015 23:59:36 @APL0044 00:15:00 69 44 56 60 47 45 10/03/2015 00:14:36 @APL0045 00:15:00 79 43 57 59 48 46 10/03/2015 00:29:36 @APL0046 00:15:00 69 43 56 58 48 47 10/03/2015 00:44:36 @APL0046 00:15:00 69 43 56 58 48	33			69				
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39 09/03/2015 22:44:36 @APL0039 00:15:00 71 50 59 62 52 40 09/03/2015 22:59:36 @APL0040 00:15:00 71 46 58 60 51 41 09/03/2015 23:14:36 @APL0041 00:15:00 69 45 58 62 50 42 09/03/2015 23:29:36 @APL0042 00:15:00 69 45 57 60 48 43 09/03/2015 23:44:36 @APL0043 00:15:00 70 45 58 61 49 44 09/03/2015 23:59:36 @APL0044 00:15:00 69 44 56 60 47 45 10/03/2015 00:14:36 @APL0045 00:15:00 79 43 57 59 48 46 10/03/2015 00:29:36 @APL0046 00:15:00 69 43 56 58 48 47 10/03/2015 00:24:36 @APL0047 00:15:00 68 43 56 59 47								
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42 09/03/2015 23:29:36 @APL0042 00:15:00 69 45 57 60 48 43 09/03/2015 23:44:36 @APL0043 00:15:00 70 45 58 61 49 44 09/03/2015 23:59:36 @APL0044 00:15:00 69 44 56 60 47 45 10/03/2015 00:14:36 @APL0045 00:15:00 79 43 57 59 48 46 10/03/2015 00:29:36 @APL0046 00:15:00 69 43 56 58 48 47 10/03/2015 00:44:36 @APL0047 00:15:00 68 43 56 59 47	41				45			
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45 10/03/2015 00:14:36 @APL0045 00:15:00 79 43 57 59 48 46 10/03/2015 00:29:36 @APL0046 00:15:00 69 43 56 58 48 47 10/03/2015 00:44:36 @APL0047 00:15:00 68 43 56 59 47	43	09/03/2015 23:44:36 @APL0043	00:15:00	70	45	58	61	49
46 10/03/2015 00:29:36 @APL0046 00:15:00 69 43 56 58 48 47 10/03/2015 00:44:36 @APL0047 00:15:00 68 43 56 59 47	44	09/03/2015 23:59:36 @APL0044	00:15:00	69	44	56	60	47
47 10/03/2015 00:44:36 @APL0047 00:15:00 68 43 56 59 47	45	10/03/2015 00:14:36 @APL0045	00:15:00	79	43	57	59	48
	46	10/03/2015 00:29:36 @APL0046	00:15:00	69	43	56	58	48
48 10/03/2015 00:59:36 @APL0048 00:15:00 73 42 55 58 45	47	10/03/2015 00:44:36 @APL0047	00:15:00	68	43	56	59	47
	48	10/03/2015 00:59:36 @APL0048	00:15:00	73	42	55	58	45

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50	10/03/2015 01:14:30		00:15:00	77	41	54	56	45
51	10/03/2015 01:25:30		00:15:00	64	39	53	57	43
52	10/03/2015 01:59:36		00:15:00	60	40	52	56	44
53	10/03/2015 01:55:36		00:15:00	65	39	52	55	43
54	10/03/2015 02:14:30		00:15:00	82	39	59	58	43
55	10/03/2015 02:25:30		00:15:00	70	38	51	54	41
56	10/03/2015 02:59:36		00:15:00	65	38	51	55	41
57	10/03/2015 02:55:30		00:15:00	67	38	52	56	41
58	10/03/2015 03:14:30		00:15:00	64	38	53	57	42
59	10/03/2015 03:25:36		00:15:00	69	37	52	56	41
60	10/03/2015 03:59:36		00:15:00	63	38	52	56	42
61	10/03/2015 03:53:36		00:15:00	63	39	50	54	42
62	10/03/2015 04:14:36		00:15:00	70	39	54	57	43
63	10/03/2015 04:44:36		00:15:00	61	39	52	56	43
64	10/03/2015 04:59:36		00:15:00	70	41	55	58	45
65	10/03/2015 05:14:36		00:15:00	69	42	55	58	47
66	10/03/2015 05:14:36		00:15:00	69	42	56	59	48
67	10/03/2015 05:23:36		00:15:00	67	41	56	59	47
68	10/03/2015 05:59:36		00:15:00	70	43	58	61	49
69	10/03/2015 06:14:36		00:15:00	70	47	59	61	52
70	10/03/2015 06:29:36		00:15:00	69	46	59	61	51
71	10/03/2015 06:44:36		00:15:00	74	44	59	62	52
72	10/03/2015 06:59:36		00:15:00	78	48	60	63	54
73	10/03/2015 07:14:36		00:15:00	70	49	60	63	54
74	10/03/2015 07:29:36		00:15:00	70	48	60	63	53
75	10/03/2015 07:44:36		00:15:00	83	48	62	64	53
76	10/03/2015 07:59:36		00:15:00	70	49	59	62	53
77	10/03/2015 08:14:36		00:15:00	76	48	60	63	54
78	10/03/2015 08:29:36	@APL0078	00:15:00	76	48	60	62	53
79	10/03/2015 08:44:36		00:15:00	75	47	60	63	54
80	10/03/2015 08:59:36	@APL0080	00:15:00	77	46	61	64	54
81	10/03/2015 09:14:36	@APL0081	00:15:00	78	48	60	63	53
82	10/03/2015 09:29:36	@APL0082	00:15:00	71	48	60	64	54
83	10/03/2015 09:44:36	@APL0083	00:15:00	73	47	59	62	52
84	10/03/2015 09:59:36	@APL0084	00:15:00	70	49	59	62	53
85	10/03/2015 10:14:36	@APL0085	00:15:00	70	49	59	62	53
86	10/03/2015 10:29:36	@APL0086	00:15:00	70	51	59	61	53
87	10/03/2015 10:44:36	@APL0087	00:15:00	73	51	58	61	53
88	10/03/2015 10:59:36	@APL0088	00:15:00	69	51	58	61	53
89	10/03/2015 11:14:36	@APL0089	00:15:00	73	49	60	64	53
90	10/03/2015 11:29:36	@APL0090	00:15:00	75	50	61	64	54
91	10/03/2015 11:44:36	@APL0091	00:15:00	75	50	59	61	53
92	10/03/2015 11:59:36	@APL0092	00:15:00	70	50	59	62	53
93	10/03/2015 12:14:36	@APL0093	00:15:00	77	50	59	62	52
94	10/03/2015 12:29:36	@APL0094	00:15:00	72	49	58	61	52
95	10/03/2015 12:44:36	@APL0095	00:15:00	73	50	60	63	53

51

CONTRACT TITLE: 16 Acton Street

SOUND SOURCE: Exhaust connection

MAKE & TYPE: Flaktwoods eQ Prime 018

					OCTAVE BAND CENTRE FREQUENCY (Hz)								
OVERALL Lv	v	63	125	250	500	1k	2k	4k	8k	dBA			
1													
2				UNIT Lw	69	74	84	83	82	79	74	72	86
3													
4													
5	LENGTH (m)	C or R	x (mm)	x (mm)									
6	1.00	R	400-800	800-1500	1.48	0.99	0.49	0.26	0.23	0.23	0.23	0.23	
7	1.00		400 000	000 1300	1.40	0.55	0.43	0.20	0.23	0.23	0.23	0.23	
8													
9													
10													
11													
12													
13													
14													
15													
16	BENDS												
17	NUMBER	TYPE	SIZE	(mm)									
18													
19													
20													
21													
22													
23													
24													
25	BRANCHES & [DUCT X-SECT	IONAL ARFA	S									
26	BRANCHES & DUCT X-SECTIONAL AREAS												
27													
28													
29													
30													
31													
32													
33	OTHER ATTEN	UATION											
34		Rectangular silencer					18	28	33	25	15	12	
35													
36													
37													
38	END REFLECTION SIZE (mm)												
39	600x1200mm					1	0	0	0	0	0	0	
40													
41			Lw LEAVI	NG SYSTEM	58	63	66	55	49	54	59	60	64
	Room Volume	(m ³)		10000	-26	-26	-26	-26	-26	-26	-26	-26	
42	Mid-Frequence			0.001	-30	-30	-30	-30	-30	-30	-30	-30	
43 44	iviiu-i requelic	y (\ 1 (\ 3)	DE//ED/		2	-30 7			-7	-2	3		8
	REVERBERANT SPL Distance to Listener 11						10	-1				4	ð
45						-32	-32	-32	-32	-32	-32	-32	
46	Directivity (flush/corner) 0.72					5	6	7	8	9	9	9	
47				DIRECT SPL	29	36	40	30	25	31	36	37	41
48			RESULTANT	TOTAL SPL	29	36	40	30	25	31	36	37	41
49	NR DESIGN CR			35	63	52	45	39	35	32	30	28	
50 51	Additional Att	enuation Re	quired		0	0	0	0	0	0	6	9	

51

CONTRACT TITLE: 16 Acton Street

SOUND SOURCE: Fresh Air Connection

MAKE & TYPE: Flaktwoods eQ Prime 018

					OCTAVE BAND CENTRE FREQUENCY (Hz)								
OVERALL Lv	v		63	125	250	500	1k	2k	4k	8k	dBA		
1													
2				UNIT Lw	63	64	75	65	63	60	56	56	70
3													
4													
5	LENGTH (m)	C or R	x (mm)	x (mm)									
6	1.00	R	400-800	800-1500	1.48	0.99	0.49	0.26	0.23	0.23	0.23	0.23	
7													
8													
9													
10													
11													
12													
13													
14													
15													
16	BENDS			, ,									
17	NUMBER	TYPE	SIZE	(mm)									
18													
19													
20													
21													
22													
23													
24	DDANIGUES 0.5												
25	BRANCHES & D	DUCT X-SECT	IONAL AREA	.5									
26													
27													
28													
29													
30													
31													
32													
33	OTHER ATTENUATION						4.5	22	22		4-	4.5	
34		Rectangula	r silencer		6	9	18	28	33	25	15	12	
35													
36 37													
37	END DELLECT	ON SIZE /	2)										
38 39	END REFLECTION SIZE (mm) 600x1200mm					1	0	0	0	0	0	0	
39 40	POUXTZUUMM					1	U	U	U	U	U	U	
40			IW I FAVI	NG SYSTEM	52	53	57	37	30	35	41	44	50
	Room Volume	(m ³)	LW LLAVI	10000	-26	-26	-26	-26	-26	-26	-26	-26	- 50
42 43				0.001	-26	-26	-30	-30	-30	-26	-30	-30	
43 44	Mid-Frequency RT (s) 0.001 REVERBERANT SPL					-30	-30	-19	-26	-30	-30	-12	-6
44	Distance to Listener 11					-32	-32	-32	-32	-32	-32	-32	-0
45 46	Directivity (flush/corner) 0.72					-32 5	6	7	8	9	-32 9	-32 9	
46 47	Directivity (IIU	311/ COLLIEL)		DIRECT SPL	3 23	26	31	12	6	12	18	21	26
48			RESULTANT	TOTAL SPL	23	26	31	12	6	12	18	21	26
49	NR DESIGN CR	ITERION	ALJULIAN	35	63	52	45	39	35	32	30	28	20
50	Additional Att		auired	33	03	0	0	0	0	0	0	0	
51	aartionai Atti	c.iaation ite	4311.00		J	3	J	3	3	J	J	3	