

Technical Memorandum

To: Simon Brown - APS

From: Chris McConnell – 24 Acoustics Ltd

Date: 8th September 2014 Job: 5275 Holborn Tower

Ref: Proposed Enclosures by Environ

It is understood that the 1st floor outdoor VRV units will be housed in an enclosure. 24 Acoustics has reviewed the acoustic performance data from Environ, which is provided overleaf. Based on the data provided, the proposed enclosure would achieve the minimum performance requirements as specified in Table 4 of 24 Acoustics' report R5275-1 Rev 1, and is therefore an acoustically suitable solution.







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environmodula EM2.2.25AC Acoustic Performance Data (November 2008)

Noise Measurement Information:

Test: Environ Modula Acoustic Enclosure - W 3200mm x D 1510mm x H 3000mm

Test Standard:

BS EN ISO 140-3 Acoustics - Measurement of Sound Insulation in Buildings and of Building Elements - Part 1: Airborne Sound Insulation

Sound Level Measuring Equipment:

Norsonic 830 RTA Precision Sound Analyser - Type 1 CEL 284/2 Acoustic Calibrator Type 1 JBL Loudspeaker driven by CEL White Noise Source

Transmission Loss Data:

	Octave Frequency in Hertz (dB ref 2 x 10 ⁻⁵ Pascals)						
63	125	250	500	1K	2K	4K	814
16	18	24	37	40	39	39	37
			Sum	marv			Salar I

Support Information:

Monitoring was carried out using the BS3740 technique, insofar as measurements were taken in each quadrant and the results averaged. Internal Test Room: 6m W x 12m L x 4m H. Background noise in the semi-reverberant test room was such as not to interfere with the practical measurements

Environ acoustic enclosure designs are protected under patent



Tel: 0870 383 3344 www.environ.co.uk

SELECTION MATRIX

environmodula 2.2.25AC Series S6

28 March 2014

Acoustic enclosures for VRV/VRF/Chiller Applications

			FACTURERS PU		
MAKE,	MODEL, DIMENSI	ONS, AIR FLOW & S	OUND PRESSURE L	EVEL @1.0M FREE	FIELD
AM	KE:	MC	DEL:	AIR IN	AIR OUT
Dai	kin	REYQ	28P9Y1B	H - 3 Sides	V
WIDTH (IAM)	DEPTH (MM)	HEIGHT (MM)	AIRFLOW (M'S')	SPL dB(A)	DISTANCE (M
1240+1240	765	1680	7.17	63	1

ALON MESSEL MARIE	INER CUBE DIMENSION	S
2800	765	2275
WIDTH (MM)	817	HEIGHT (MM)
7.17	1.0	63
AIRFLOW (M ¹ S ⁻¹)	DISTANCE (M)	SPL dB(A)
SECTION CAN	INLET AIRWAYS	O STATE OF THE STATE OF
3250	300	2
WIDTH (MM)	HEIGHT (MM)	NO.
CALL STATE AND	OUTLET AIRWAYS	Carlo Designation
300	2925	2
WIDTH (MM)	HEIGHT (MM)	NO.

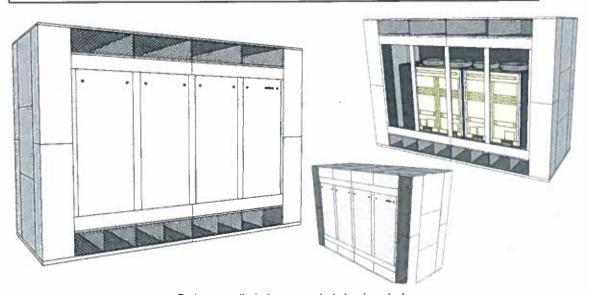
	ENCLOSURE DETAIL	
3500	1500	2950
WIDTH (MM)	DEPTH (MM)	HEIGHT (MM)
7.2	1.0	36
AIRFLOW (M'S")	DISTANCE (M)	Estimated SPL dB(A)
The state of the s	DESIGN CRITERIA	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa
OK'	OK	OK
UNIT SIZE	OUTLET	INLET
No. of the last of	AIRFLOW INFORMATION	IN THE SECTION OF THE
16	4.1	3.7
PD (NM ⁻¹)	OUTLET (MS ⁻¹)	INLET (MS ⁻¹)

1332	Select Inlet & Outlet Duct Sizes to I
	ENCLOSURE INFORMATION
BOOK BY SANSKER STORY	INLETAIRWAY
	OUTLET AIRWAY
STATE STATE	EXTERNAL SIZE
ESTIMAT	ED SOUND LEVEL @ 1 M (Free Field)

WIDTH (MM)	DEPTH (MM)	HEIGHT (MM)	
3250		300	
300		2925	
4000	1500	3000	
36	SPL dB(A) SOUND PRESSURE		

NOTES CONCERNING ENCLOSURE DESIGN

REYQ12 + REYQ16



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The information contained in this Selection Matrix is Confidential and shall not be disclosed or used for any unauthorised purposes