Sound Advice

ACOUSTICS LTD

Noise Control Proposal

Client	Sandy Point Convienience Store
Project	50 – 56 Creek Road, Hayling Island, PO11 9RE
File Reference	SAE-1157
Issue	1
Document Date	11.09.2023



UKAS Accredited for
Pre-Completion Sound Testing

Building Regulation Approved
Document E

ATTMA

Institute of
Acoustics

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PROJECT INFORMATION

Client	**Sandy Point Convenience Store**
Prepared for	**Sharon Swan**
Project Title	**Acoustic Enclosure Installation**
Address	**50 – 56 Creek Road, Hayling Island, Hampshire, PO11 9RE**
Description	**Installation of 2 x Acoustic Enclosures**

PROJECT

These treatment proposals are to control the noise to the environment in relation to the proposed installation of refrigeration condenser units.

Noise mitigation equipment designed to achieve a resultant sound pressure levels within the Venta Acoustics Report, report reference VA3785.210831.NIA.

PLANT TO BE ENCLOSED

Location	Model	Volume Air Flow	Qty	Total
Enc 1	Makicold NFR 300DL	0.9m/sec	1	0.9m/sec

Location	Model	Volume Air Flow	Qty	Total
Enc 2	Danfoss OP-MPYM024	1.0m/sec	1	1.0m/sec

ACOUSTIC ENCLOSURE PERFORMANCE

Octave Band Centre Frequency (Hz)							
63	**125**	**250**	**500**	**1.0k**	**2.0k**	**4.0k**	**8.0k**
11	13	19	28	34	36	36	37

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Transmission Loss Equates to an Overall Reduction of 22 dB(A)

DATA SHEET - 1

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DATA SHEET

EG-U116-MK1

Acoustic enclosure for AC Split Systems

CUSTOMER	SITE / LOCATION / REFERENCE
Sandy Point Convieience Store	Hayling Island

ORIGINAL EQUIPMENT MANUFACTURERS PUBLISHED DATA

MAKE, MODEL, DIMENSIONS, AIR FLOW & SOUND PRESSURE LEVEL @1.0M FREE FIELD

MAKE		MODEL		AIR IN	AIR OUT
Maxkold		NFR300DL		H - 2 Side	H - Front
WIDTH (MM)	DEPTH (MM)	HEIGHT (MM)	AIRFLOW (M³/S⁻¹)	DISTANCE (M)	SPW dB(A)
1050	428	845	0.9	1	59

INNER CUBE DIMENSION			ENCLOSURE DETAIL		
WIDTH (MM)	DEPTH (MM)	HEIGHT (MM)	WIDTH (MM)	DEPTH (MM)	HEIGHT (MM)
1200	550	1230	1850	1100	1295
AIRFLOW (M³/S⁻¹)	DISTANCE (M)	SPL dB(A)	AIRFLOW (M³/S⁻¹)	DISTANCE (M)	SPL dB(A)
0.90	1.0	59	0.90	1.0	33

INLET AIRWAYS			DESIGN CRITERIA		
WIDTH (MM)	HEIGHT (MM)	NO.	UNIT SIZE	INTLET	OUTLET
250	1230	1	OK	OK	OK

OUTLET AIRWAYS			AIRFLOW INFORMATION		
WIDTH (MM)	HEIGHT (MM)	NO.	PD (NM⁻²)	INLET (M/S⁻¹)	OUTLET (M/S⁻¹)
250	1230	1	10	2.9	2.9

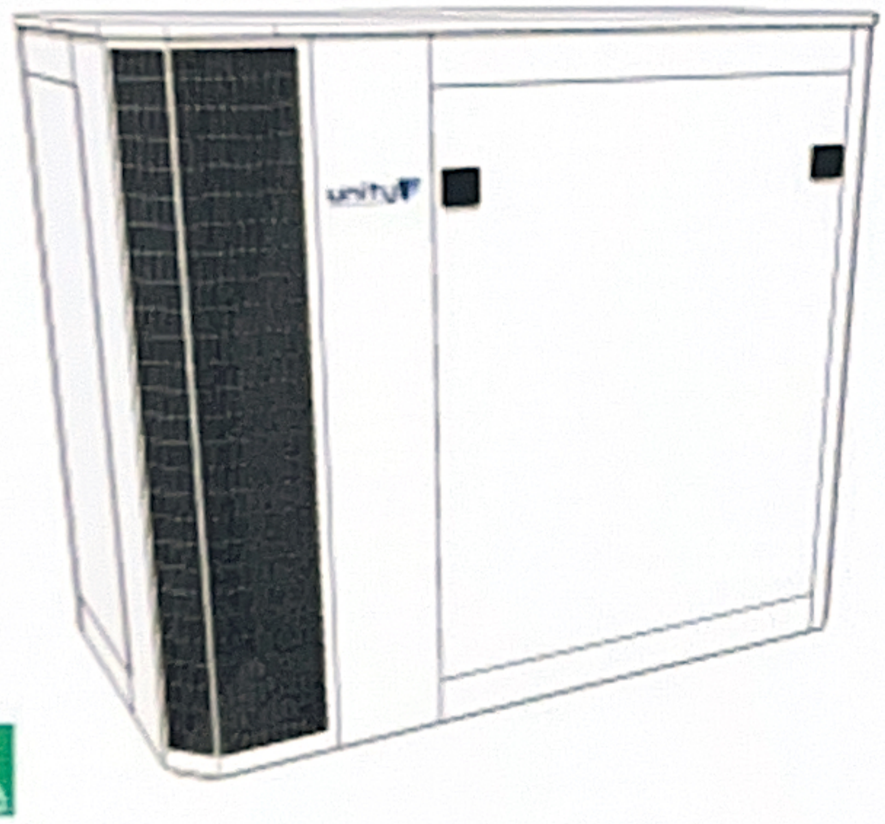
ENCLOSURE INFORMATION	WIDTH (MM)	DEPTH (MM)	HEIGHT (MM)
INLET AIRWAY	250		1230
OUTLET AIRWAY	250		1230
EXTERNAL SIZE	1850	1100	1295
INDICATIVE NOISE LEVEL	33	**SPW dB(A) SOUND PRESSURE	

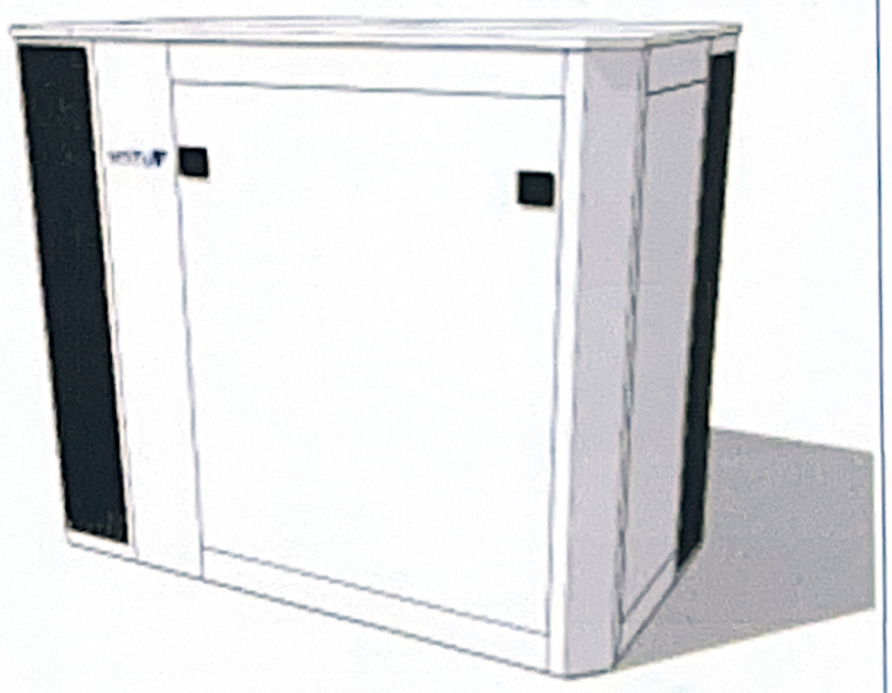
NOTES CONCERNING ENCLOSURE DESIGN

Minimum Space Required in front of airways - 320mm

Utility Access Panels Lift Off or Hinged for Maintenance/Service

** Noise level above based on Free Field condition - actual noise levels will be dependent on site conditions





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DATA SHEET - 2

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DATA SHEET

EG-U117-DF01

Acoustic enclosure for AC Split Systems

CUSTOMER	SITE / LOCATION / REFERENCE
Sandy Point Convieience Store	Hayling Island

ORIGINAL EQUIPMENT MANUFACTURERS PUBLISHED DATA

MAKE, MODEL, DIMENSIONS, AIR FLOW & SOUND PRESSURE LEVEL @1.0M FREE FIELD

MAKE		MODEL		AIR IN	AIR OUT
Danfoss Optyma		OP-MPYM024		H - 2 Side	H - Front
WIDTH (MM)	DEPTH (MM)	HEIGHT (MM)	AIRFLOW (M^3S^{-1})	DISTANCE (M)	SPW dB(A)
1055	430	813	1	1	56

INNER CORE DIMENSION			ENCLOSURE DETAIL		
WIDTH (MM)	DEPTH (MM)	HEIGHT (MM)	WIDTH (MM)	DEPTH (MM)	HEIGHT (MM)
1200	550	1230	1850	1100	1295
AIRFLOW (M^3S^{-1})	DISTANCE (M)	SPL dB(A)	AIRFLOW (M^3S^{-1})	DISTANCE (M)	SPL dB(A)
1.00	1.0	56	1.00	1.0	30

INLET AIRWAYS			DESIGN CRITERIA		
WIDTH (MM)	HEIGHT (MM)	NO.	UNIT SIZE	INTLET	OUTLET
250	1230	1	OK	OK	OK

OUTLET AIRWAYS			AIRFLOW INFORMATION		
WIDTH (MM)	HEIGHT (MM)	NO.	PD (NM^{-2})	INLET (MS^{-1})	OUTLET (MS^{-1})
250	1230	1	13	3.3	3.3

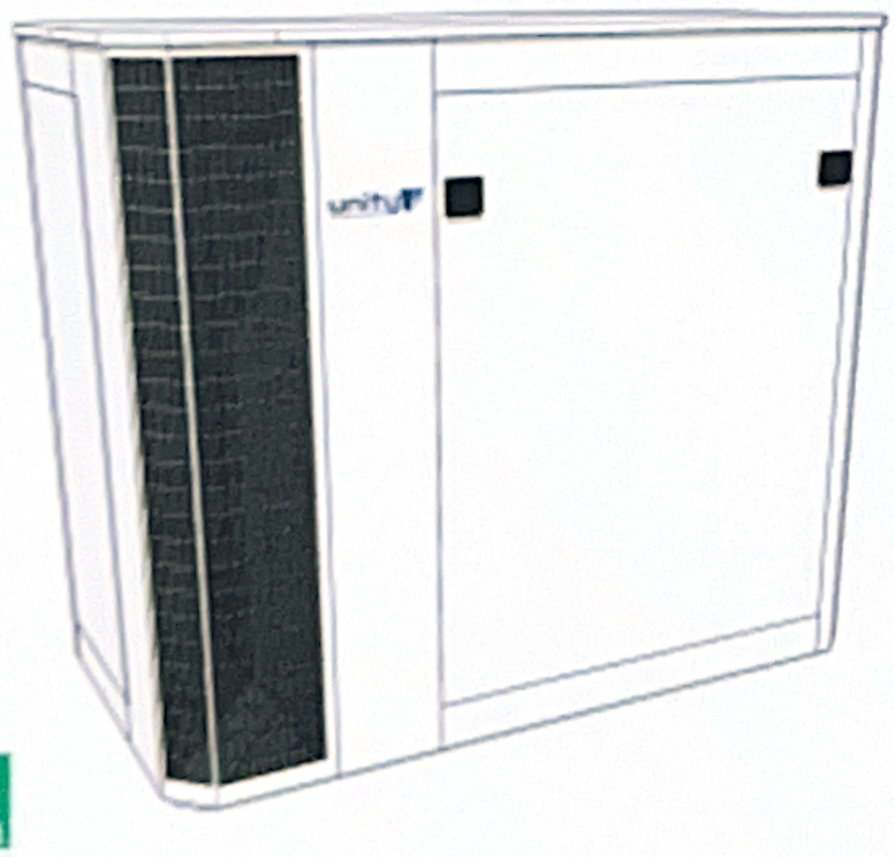
	WIDTH (MM)	DEPTH (MM)	HEIGHT (MM)
ENCLOSURE INFORMATION			
INLET AIRWAY	250		1230
OUTLET AIRWAY	250		1230
EXTERNAL SIZE	1850	1100	1295
INDICATIVE NOISE LEVEL	30	**SPW dB(A) SOUND PRESSURE	

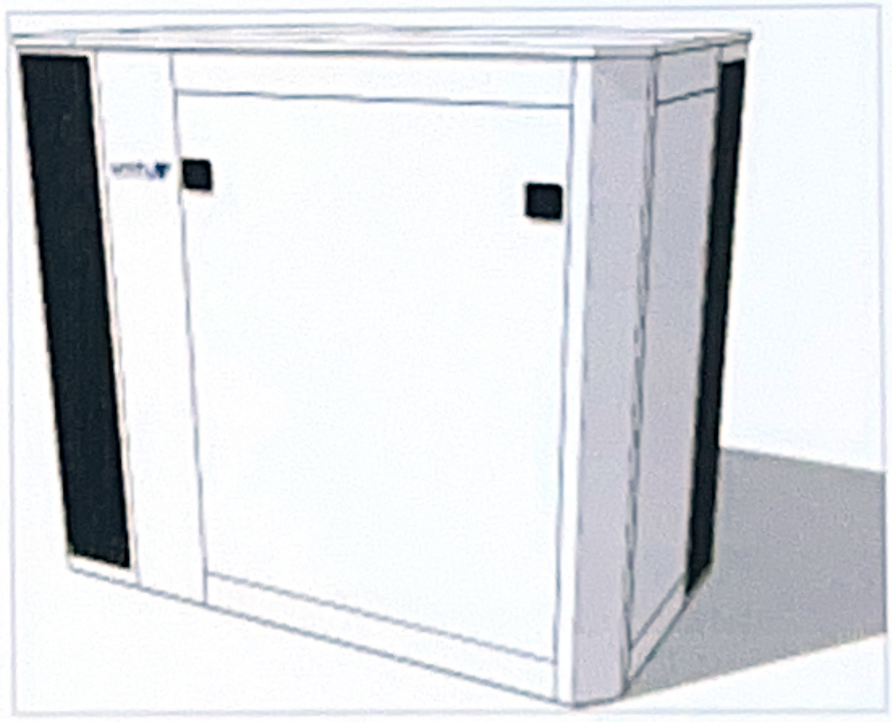
NOTES CONCERNING ENCLOSURE DESIGN

Minimum Space Required in front of airways - 500mm

Unity Access Panels Lift Off or Hinged for Maintenance/Service

** Noise level above based on Free Field condition - actual noise levels will be dependant on site conditions





HTA

MADE IN BRITAIN

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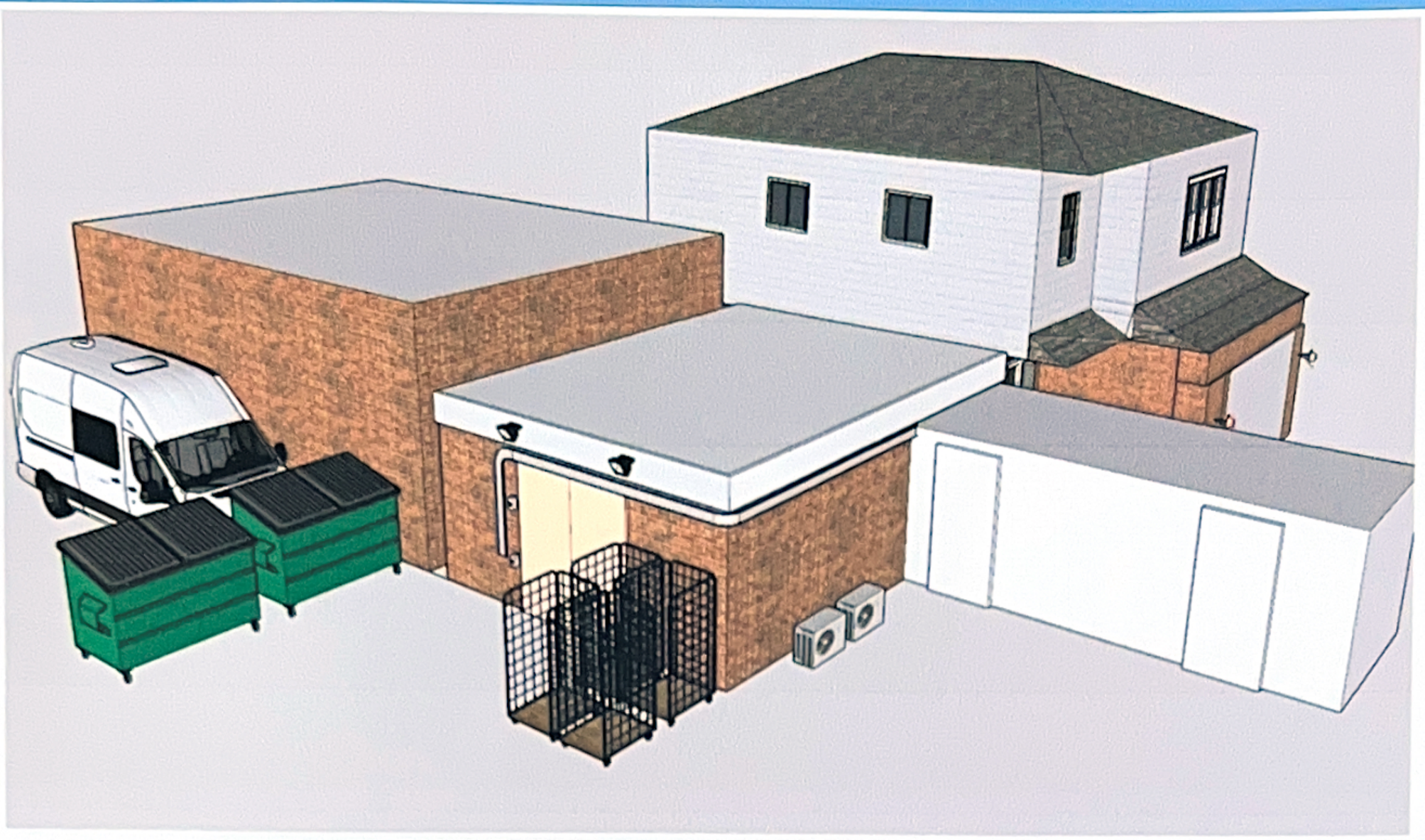
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EXISTING LAYOUT



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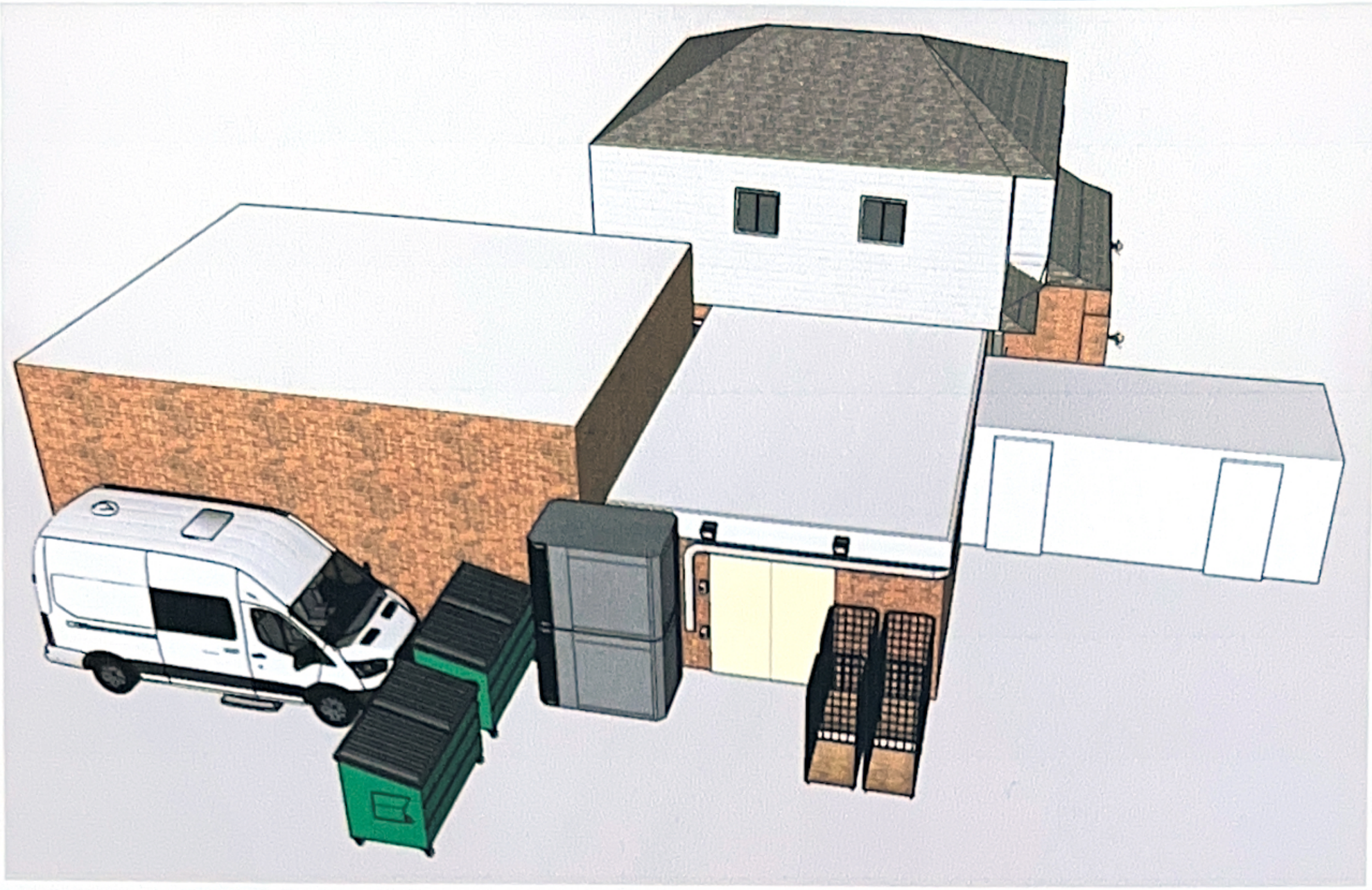
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PROPOSED LAYOUT



* SEE NEXT PAGE

INCLUSIONS

Our proposal includes for all of the following:

- Design, manufacture, delivery and installation.
- Site measurement of all necessary components.
- Fixings, angles, tiebacks, blanking panels and sealing / flashing around openings.

PROJECT MANAGEMENT

Health & Safety Plan - Submitted 10 working days before installation.
Method Statements & Risk Assessments - To be agreed 5 working days before installation. COSHH Requirement - To be submitted 10 working days before installation.

INSURANCES

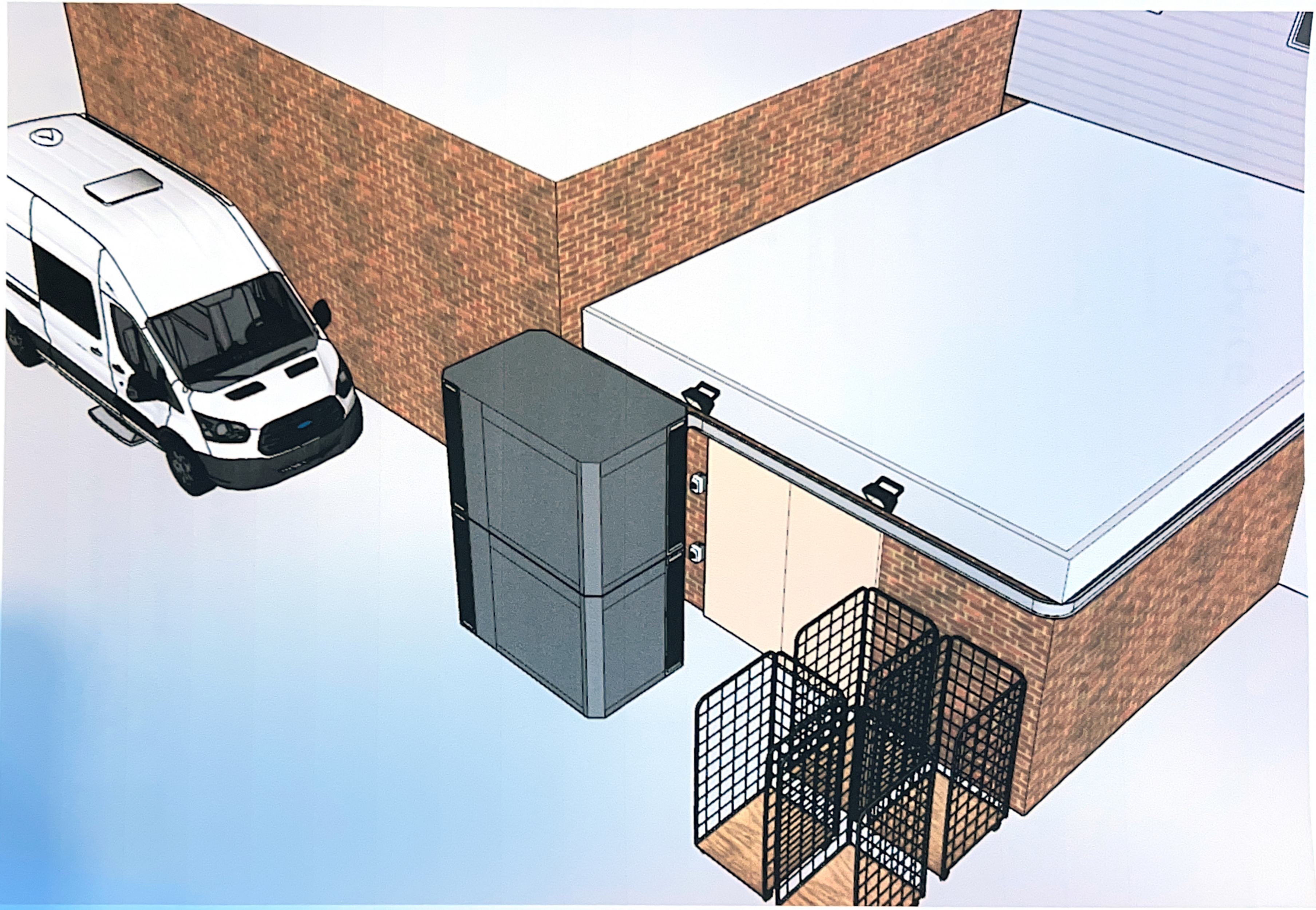
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Professional / Products indemnity
Public Liability
Employers Liability
£5 million £5 million £10 million

Kind Regards

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