

DESIGN AND ACCESS STATEMENT

FOR INSTALLATION OF AIR CONDITIONING UNIT TO 1ST FLOOR OF GRADE II LISTED BUILDING,
C/W EXTERNAL AIR CONDITIONING UNIT SITUATED WITHIN VENTILATED IROKO CASING NEXT
TO REAR ELEVATION OF THE BUILDING AND
INSTALLATION OF DUCTING AND SMALL LEAD ROOF VENT TO FIRST FLOOR GUEST BEDROOM
FOR MOBILE MAECO AIR CONDITIONING UNIT

AT 6 THE STABLES, LOWER ROAD, NETHERAVON, WILTSHIRE, SP4 9SY

4079 – D&A STATEMENT

30.04.2026 – ISSUED PRELIMINARY FOR CLIENT'S APPROVAL
30.04.2026 – ISSUED FOR PLANNING AND LISTED BUILDING CONSENT

MLDE, 6 High Street, Devizes, Wiltshire, SN10 1AT.

Principal : Mark Lovell M.Sc. B.Sc.(Hons) C.Eng.F.I.E.D.
Associate : Sandra Lovell Dipl.Ing.Arch.

T : 01380 724 213
F : 01380 721 753
E : team@mlde.co.uk
W : www.mlde.co.uk

mark lovell design engineers

INTRODUCTION

MLDE were commissioned by Mr & Mrs Colin Hill to prepare an application for Listed Building Consent for installation of an air conditioning unit in their bedroom, as well as installation of a flexible flue to a portable air conditioning unit in the other bedroom on the first floor of the house.

Mr & Mrs Hill have moved to 6 Stables, Netheravon just over two years ago. They are both in their eighties and have suffered some health issues in recent years, thus both spend a significant amount of time at home.

They have struggled with their health in the house through the last two summers, particularly on the first floor. Although, they have used portable Meaco air cooling unit through the summer 2025, which did bring limited relief, their rest was seriously affected by heat in their bedroom. Therefore, they would like to achieve that the temperatures in the bedrooms during the summer 2026 and thereafter, are more old age friendly.

SIGNIFICANCE OF BUILDING and HERITAGE STATEMENT

The NPPF defines the Significance as "The value of a Heritage Asset to this and future generations because of its Heritage Interest". The interest may be architectural or historic. Significance derives not only from heritage asset's physical presence, but also from its setting and as such it will be discussed here.

Stables to Netheravon House are a Significant Grade II Listed Building, listed in June 1986 under Historic England Entry 1033957. The text of Listing describes them as:

"Stables, now classrooms, 1734-40. Brick with slate roofs. Square with central open courtyard and narrow opening to north. Elevation towards house has central block and arcaded brickwork to end blocks, the upper part of arcades glazed with lunette windows. Centre of east side has huge oval window with web-like glazing bars. Internal elevations also arcaded bays, 9 x 6 with central pediment facing entrance. Some interior alterations in 1970's"

The Listing itself describes significant architectural features of this large, symmetrical, courtyard building. However, the history of the Stables adds to the significance of this Listed Building.

The building of the Stables to Netheravon House was constructed in first half of C18 to serve as hunting box for Dukes of Beaufort. The estate was sold to Hicks- Beach family in 1780 and thereafter, purchased by War Office in 1898 as part of wider training facilities on the Salisbury Plain.

The Calvary School for Officers and Soldiers, initiated by Lieutenant-General Robert Baden Powel, was established in 1904 and served as such until the First World War.

MLDE, 6 High Street, Devizes, Wiltshire, SN10 1AT.

Principal : Mark Lovell M.Sc. B.Sc.(Hons) C.Eng.F.I.E.D.
Associate : Sandra Lovell Dipl.Ing.Arch.

T : 01380 724 213
F : 01380 721 753
E : team@mlde.co.uk
W : www.mlde.co.uk

mark lovell design engineers

The School closed temporarily during the First World War and the building was used to house convalescent Canadian Soldiers.

The Calvary School has reopened temporarily between 1919-1922, after which it merged with Royal Artillery Riding Establishment at Weldon. Thereafter, Stables were used as classrooms by various Military Departments until they were sold on a long lease by Ministry of Defence in 1990.

The Listed Stable Block was converted into 7 residential units in 2004 and are homes since.

PROPOSED WORKS

The Applicants are proposing to install a Toshiba RAS R32 Air Conditioning Unit (Data sheet included in Appendix B) on the C21 stud partition wall of their first floor bedroom, above the door. The AC pipework trunking would run for a short distance from the unit to the built-in cupboard. The C21 floor finishes would need to be lifted locally within the cupboard, to allow access of the pipework to the floor zone and reinstated upon completion.

The AC pipework would run between floor joists and through a Ø60 hole in the plasterboard ceiling be brought to the underside of the ceiling where it would be concealed within the trunking and brought into nearby C21 built-in cupboard.

A single, Ø60 hole would need to be drilled in historic brick and flint wall on the low level, close to the back door of the house to allow the pipework to connect to freestanding Toshiba Hario R32 External Unit, covered with slatted Iroko cover to minimise visual impact on the rear elevation.

The hole in the brick and flint would be drilled from outside in line with Historic England's guidance and would thereafter be sealed with lime mortar.

The Applicants would also wish to install portable Meaco air cooling unit which they used last year within the cupboard of the guest bedroom and connect the flexible duct of the unit to be more permanently connected to an external vent. A single, local, Ø150 hole would need to be formed in C21 ceiling to allow the connection of the flexible duct to an external, Code 5 lead, welded, roof vent, installed between the rafter members. The installation would required careful, temporary lifting of a few roof tiles to facilitate the installation. The tiles around the vent would be reinstated once the vent is installed.

CONCLUSION

The elderly owners of the architecturally and historically Significant Grade II Listed Building at 6 The Stables would like to install a fixed air conditioning unit and a vent for a portable air conditioning unit on the back elevation of their home to make the summers more bearable in the first floor bedrooms, as their sleep suffered due to heat in hot spells during past two summers.

MLDE, 6 High Street, Devizes, Wiltshire, SN10 1AT.

Principal : Mark Lovell M.Sc. B.Sc.(Hons) C.Eng.F.I.E.D.
Associate : Sandra Lovell Dipl.Ing.Arch.

T : 01380 724 213
F : 01380 721 753
E : team@mlde.co.uk
W : www.mlde.co.uk

mark lovell design engineers

The proposal would mostly affect C21 partitions and floor finishes, however it would require drilling of a single, Ø60 hole, in the historic brick wall of the back elevation and insertion of a Code 5 lead, welded, roof vent.

The hole in the brick would be drilled from outside in line with Historic England's guidance and would thereafter be sealed with lime mortar.

It is considered that the impact of the proposal on the Grade II Listed Building would be minimal and that the small detriment can be offset by a clear and large human benefit afforded to the elderly owners of the property.

MLDE, 6 High Street, Devizes, Wiltshire, SN10 1AT.

Principal : Mark Lovell M.Sc. B.Sc.(Hons) C.Eng.F.I.E.D.
Associate : Sandra Lovell Dipl.Ing.Arch.

T : 01380 724 213
F : 01380 721 753
E : team@mlde.co.uk
W : www.mlde.co.uk

APPENDIX A – Site Photographs

MLDE, 6 High Street, Devizes, Wiltshire, SN10 1AT.

Principal : Mark Lovell M.Sc. B.Sc.(Hons) C.Eng.F.I.E.D.
Associate : Sandra Lovell Dipl.Ing.Arch.

T : 01380 724 213
F : 01380 721 753
E : team@mlde.co.uk
W : www.mlde.co.uk

mark lovell design engineers



PH 01



PH 02

MLDE, 6 High Street, Devizes, Wiltshire, SN10 1AT.

Principal : Mark Lovell M.Sc. B.Sc.(Hons) C.Eng.F.I.E.D.
Associate : Sandra Lovell Dipl.Ing.Arch.

T : 01380 724 213
F : 01380 721 753
E : team@mlde.co.uk
W : www.mlde.co.uk

mark lovell design engineers



PH 03

MLDE, 6 High Street, Devizes, Wiltshire, SN10 1AT.

Principal : Mark Lovell M.Sc. B.Sc.(Hons) C.Eng.F.I.E.D.
Associate : Sandra Lovell Dipl.Ing.Arch.

T : 01380 724 213
F : 01380 721 753
E : team@mlde.co.uk
W : www.mlde.co.uk

APPENDIX B – Datasheets

MLDE, 6 High Street, Devizes, Wiltshire, SN10 1AT.

Principal : Mark Lovell M.Sc. B.Sc.(Hons) C.Eng.F.I.E.D.
Associate : Sandra Lovell Dipl.Ing.Arch.

T : 01380 724 213
F : 01380 721 753
E : team@mlde.co.uk
W : www.mlde.co.uk

HAORI: RAS - B13N4KVRG-E

- Ultra quiet systems less than 19dB(A).
- Power supply to indoor or outdoor unit.
- Factory-integrated WI-FI with Energy monitoring.
- Fabrics with infinite possibilities , let your style be your guide.
- Toshiba Plasma Ionizer catches and neutralizes the contaminated particles.



Retail Price (interactive icons):

Hi - Res Image



UK



ROI



HIGH TIER PRODUCT RANGE

CODE			35
Performance			
Indoor Unit		RAS-	B13N4KVRG-E
Outdoor Unit		RAS-	13J2AVSG-E1
Nominal	Cooling Capacity	kW	3.5
	Heating Capacity	kW	4.2
	EER/COP	W/W	4.38/3.89
UK	Cooling Total/Sensible	kW	3.42/2.64
	Heating	kW	2.54
Cooling EN14825	Range Min. - Max.	kW	1.00 - 4.10
	Power Input	kW	0.80
	Pdesign	kW	3.5
	SEER/Energy Efficiency Class		8.60/A+++
	Seasonal Energy Consumption	kWh/a	142
	Range Min. - Max.	kW	1.00 - 5.30
Heating EN14825	Power Input	kW	1.08
	Pdesign	kW	3.2
	SCOP/Energy Efficiency Class		5.10/A+++
	Seasonal Energy Consumption	kWh/a	876

Indoor Data

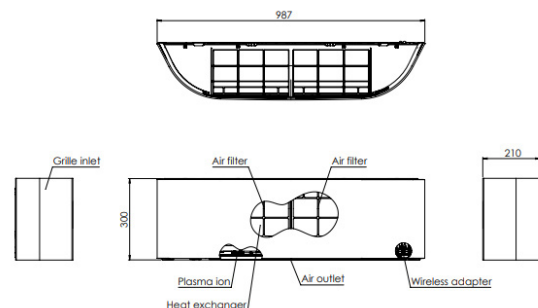
Air Flow	High - Low	l/s	189 - 89
	High - Low	m3/h	680 - 320
Sound	Pressure High - Low	dB(A)	43 - 19
	Power High - Low	dB(A)	57 - 34
Unit	Height x Width x Depth	mm	300x987x210
	Weight	kg	11
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8" - 1/4"
	Drain Pipe Connection OD/ID	mm	16/14
Remote controller			WH-UA01UE

Accessories			
RB-I4101-E	Fabric Cover Kit (supplied loose)	Fabric Dark Gray	
RB-I4102-E	Fabric Cover Kit (supplied loose)	Fabric Light Gray	
RB-I4103-E	Fabric Cover Kit (supplied loose)	Fabric Bluish Gray	
RB-I4104-E	Fabric Cover Kit (supplied loose)	Fabric Gray Beige	
RB-I4105-E	Fabric Cover Kit (supplied loose)	Fabric Dark Brown	
RB-I4106-E	Fabric Cover Kit (supplied loose)	Fabric Emerald Blue	

*All [Accessories / Controls](#)

Related Items:

- [BIM Files](#)
- [CAD Files](#)
- [Full Specification](#)
- [Airflow/ Fan Curve](#)
- [Dimensional Drawing](#)
- [Wiring Diagram](#)
- [Installation Manual](#)
- [Owners Manual](#)



COOL Designs Ltd

Raising the Standards in Air Conditioning Distribution

Toshiba Air Conditioning Air Conditioner Split Type Inverter

RAS-13J2AVSG-E1



Model Reference			RAS-13J2AVSG-E1
Operating Range	Cooling/Heating	°C	-15~46/-15~24
Air Flow	High	m ³ /h - l/s	1950 - 540
Sound	Pressure High Cooling/Heating	dB(A)	46 - 48
	Power High Cooling/Heating	dB(A)	59 - 61
Unit	Height x Width x Depth	mm	550x780x290
	Weight	kg	30
Pipe Connection	Flare Connections (gas-liquid)	inch	3/8 - 1/4
	Min.-Max. Length	m	2-20
	Maximum Height Difference	m	±12
Refrigerant R32	Drain Port Connection	mm	16
	Base Charge/Chargeless Length	m	0.8/15
	Additional Charge	g/m	20
Run Current	Maximum	Amps	4.80
Power Cable	Outdoor to Indoor		3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10

TOSHIBA

4-2. Outdoor Unit

