Worsbrough Branch Library, Barnsley, S70 5EN

Barnsley Metropolitan Borough Council

General refurbishment works and installation of 3no. wall mounted air source heat pumps within low level timber fence compound

Planning | P1

6th July 2023

BC2303

Design and Access Statement

Worsbrough Branch Library

Project no:	BC2303
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Document history and status

Revision	Date	Description	By	Review	Approved
P1	06/07/23	Planning – Design and Access Statement	LB	BJL	BJL

Limitations

This report is presented to Barnsley Metropolitan Borough Council in respect of the installation of ASHP and timber fence compound at Worsbrough Branch Library, Barnsley and may not be used or relied on by any other person. It may not be used by Barnsley Metropolitan Borough Council in relation to any other matters not covered specifically by the agreed scope of this report.

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Contents

1. Introduction

1.1 The Applicant

This planning support statement has been prepared by Align Property Partners to support a full planning application submitted on behalf of Barnsley Metropolitan Borough Council.

1.2 Application Description

Like-for-like windows, glazed panels, doors and curtain walling replacement, cavity wall infill to match existing brickwork and installation of 3no. wall mounted air source heat pump fitted within a low level fenced timber compound.

1.3 Supporting Statement

This document provides background and technical information required to assist in determining the planning application. Its primary purpose is to set out the key planning considerations and how these are addressed in the design of the proposed development.

1.4 Supporting Documentation and Drawings

The following plans and documents are provided as part of the planning application:

Document No.	Rev	Title	Scale
BC2303-APP-XX-XX-M2-B-001	P1	Site Location Plan	1:1250
BC2303-APP-XX-XX-M2-B-020	P1	Proposed Site Plan	1:200
BC2303-APP-XX-XX-M2-B-040	P1	Proposed Contractors Compound Plan	1:500
BC2303-APP-XX-XX-M2-B-100	P1	Existing Floor Plan	1:50
BC2303-APP-XX-XX-M2-B-120	P1	Propose Floor Plan	1:50
BC2303-APP-XX-XX-M2-B-200	P1	Existing Elevations	1:50
BC2303-APP-XX-XX-M2-B-220	P1	Proposed Elevations	1:50

Table 1 Planning Application Drawings and Documents

2. Site Location and Description

2.1 Site Features and Constraints

Worsbrough Branch Library is situated along Queensway Road sited in the North of Worsbrough. The library is accessed off Queensway Road, which forms the libraries main entrance. This can be identified on the existing site location plan (BC2303-APP-XX-XX-DR-B-000001). This entrance provides a practical access route to be utilised during building work, sufficient traffic control measures will be implemented at this stage, to reduce conflict with residential users nearby.

The area of the proposed works is solely owned by Barnsley Metropolitan Borough Council. The location of the proposed compound is to be located to the front parking area of the library.

The site is not located within a Conservation Area with no listed buildings found within the site boundary.

The site does not lie within an area with a history of flooding. See Paragraph 2.9 and therefore no measures are recommended.

3. Detailed Description of Proposal

3.1 Reason for Development

Barnsley Metropolitan Borough Council has identified the need to refurbish the library and to decrease their carbon footprint and become more energy efficient. They have identified that providing new windows, doors and curtain walling along with the installation of 3no. Air Source Heat Pumps would be very beneficial in achieving this goal. The Air Source heat pumps will be sited to the North-West corner of the site and can be identified on Dwg. BC2303-XX-XX-M2-B-000020 Proposed Site Plan. The doors, windows and curtain walling will all be installed in existing positions.

The requirements for the project are to replace all windows, doors, curtain walling along with infilling existing boarded up section. Install 3no. air source heat pumps mounted to the existing brick wall and housed within a small low level fenced compound.

3.2 Scale

The new compound will be no more then 4.6m2 in area, with a height of 1.5m from ground level.

3.3 Appearance

The design of the windows, doors and curtain walling will be to match existing.

The infill will be with brickwork to match existing.

The design of the compound will consist of timber posts, vertical boards and an access gate.

The Air Source Heat Pumps and fencing will be of standard design.

3.4 Layout

The design of the compound will allow for the air source heat pumps to be enclosed along with enough space for maintenance access.

3.5 Use

The use for the ASHP is for the heating/water heating of the library.

3.6 Landscaping

Minor landscaping works will be required to make good areas following proposed works.

3.6 Risk from Flooding

The site does not lie within an area with a history of flooding.

4 Conclusion

In conclusion, this application seeks permission for the replacement of windows, doors and curtain walling on a like-for-like basis along with installation of 3no. Air Source Heat Pumps with timber fence compound within the Worsbrough Branch Library site to allow them to become more energy efficient.

The air source heat pumps will be of standard appearance enclosed within timber fencing and gates. The elements being replaced to the existing building will be installed on a like-for-like basis. The proposal will not have a greater impact on the visual amenity of the surrounding area.

Appendix A. – Site Photographs

001 – ASHP compound location to be hidden behind existing bin store as highlighted

002 – Library front elevation

Appendix B. – ASHP Information

ASHP specification for this scheme:

2x PLA-M100 systems for the main library – 840(l)x840(h)x298(d)

1x PLA-M50 systems for the children's library – 840(l)x840(h)x258(d)

https://library.mitsubishielectric.co.uk/pdf/book/PLA-M-R32_Single_Phase_Standard_PISheet#page-1-2

Air Conditioning | Product Information

MITSUBISHI ELECTRIC

PLA-M R32

4-Way Blow Ceiling Cassette System

Standard Inverter Heat Pump (Single Phase)

Mr.SLIM

The cost-effective **PLA-M Standard Inverter range** is a ceiling cassette system that blends a host of outstanding features with a streamlined design. Offering advanced control options and quiet operation, this range provides extreme flexibility and ease of installation.

With a 14° set point option on 10–14kW models, this system is also suitable for applications where a specialist ambient condition is required.

R32

Key Features & Benefits:

- **Increased comfort levels** through advanced airflow and smart defrost features (size 100-140)
- **14°C set point option;** ideal for applications where a specialist ambient condition is required (size 100-140; requires PAR-41MAA or PAR-SL101A-E controller)
- **Energy usage display** available as standard with the PAR-41MAA controller
- **Optional 3D Total Airflow casement** to allow 360° directional delivery of air (size 100-140; requires PAR-41MAA or PAR-SL101A-E controller)
- **Optional 3D i-see sensor grille** (PLP-6EAE) provides customised comfort by automatically monitoring room occupancy, position and body temperatures
- **Optional filter-lowering operation,** down to 4m (PLP-6EAJ), allowing for easier maintenance
- **Optional black satin grille** (PLP-6EA-B), ideal for applications with exposed ceilings or stylish aesthetics
- **Optional V Blocking filter** (PAC-SK53KF-E) provides in-room air purification, neutralises viruses, bacteria, allergens, dust and mould
- **Compatible with Plasma Quad Connect** - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust (PAC-SK51PT-E)

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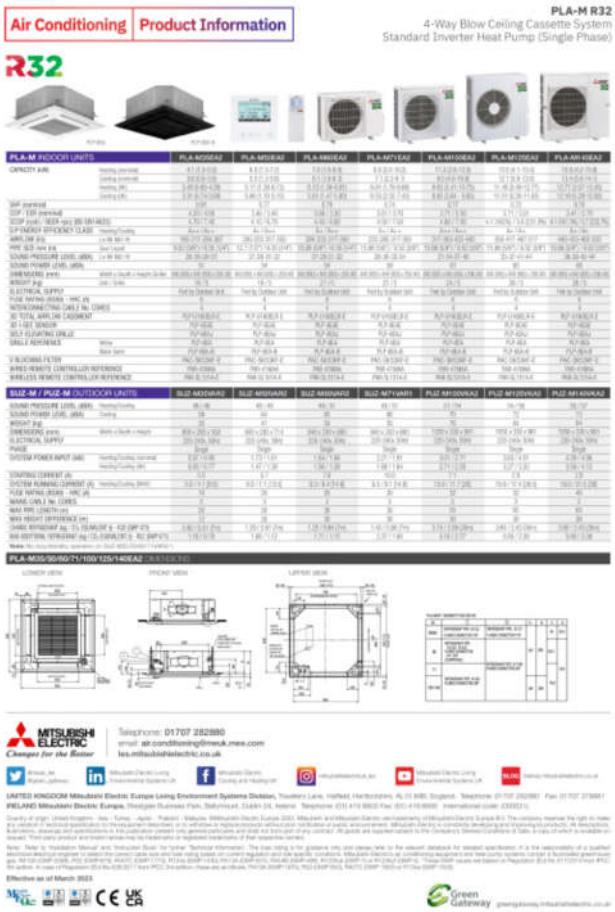

Air Conditioning | Product Information

PLA-M R32

4-Way Blow Ceiling Cassette System

Standard Inverter Heat Pump (Single Phase)

R32

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