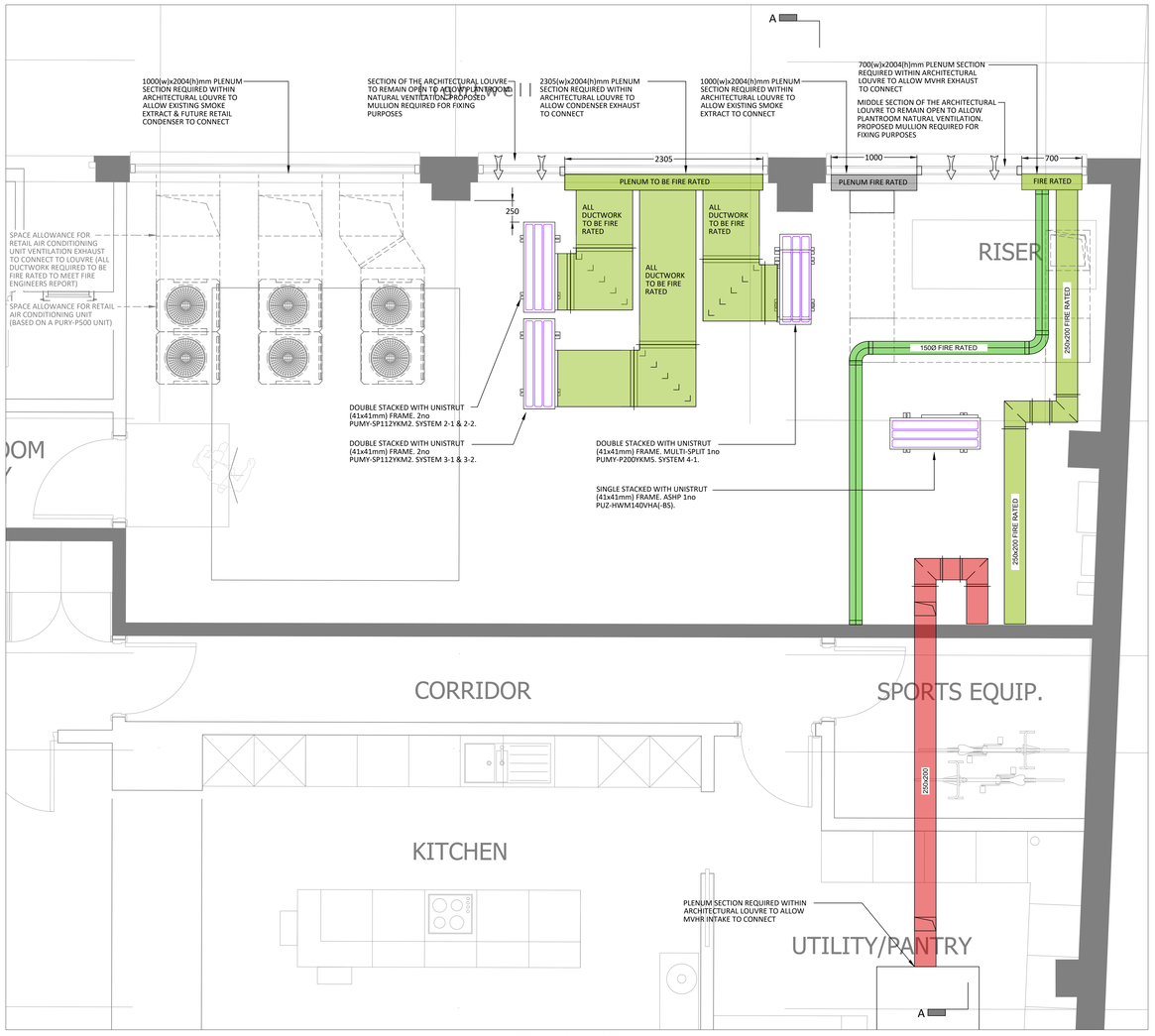
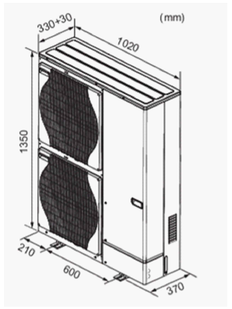
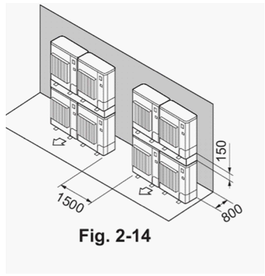


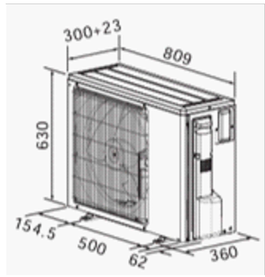

4th FLOOR - HVAC PLANTROOM LAYOUT
Scale 1:25



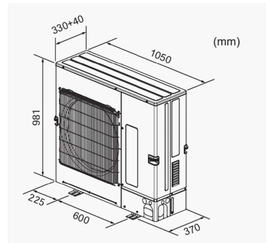

PUZ-HWM140VHA(-BS) AIR TO WATER HEAT PUMP DETAILS



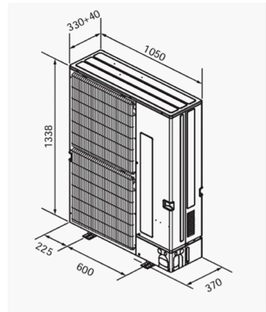

MANUFACTURER MULTI-STACK INSTALLATION DETAILS




PUZ-ZM50VKA2 CONDENSER DETAILS




PUMY-SP112YKM2 CONDENSER DETAILS



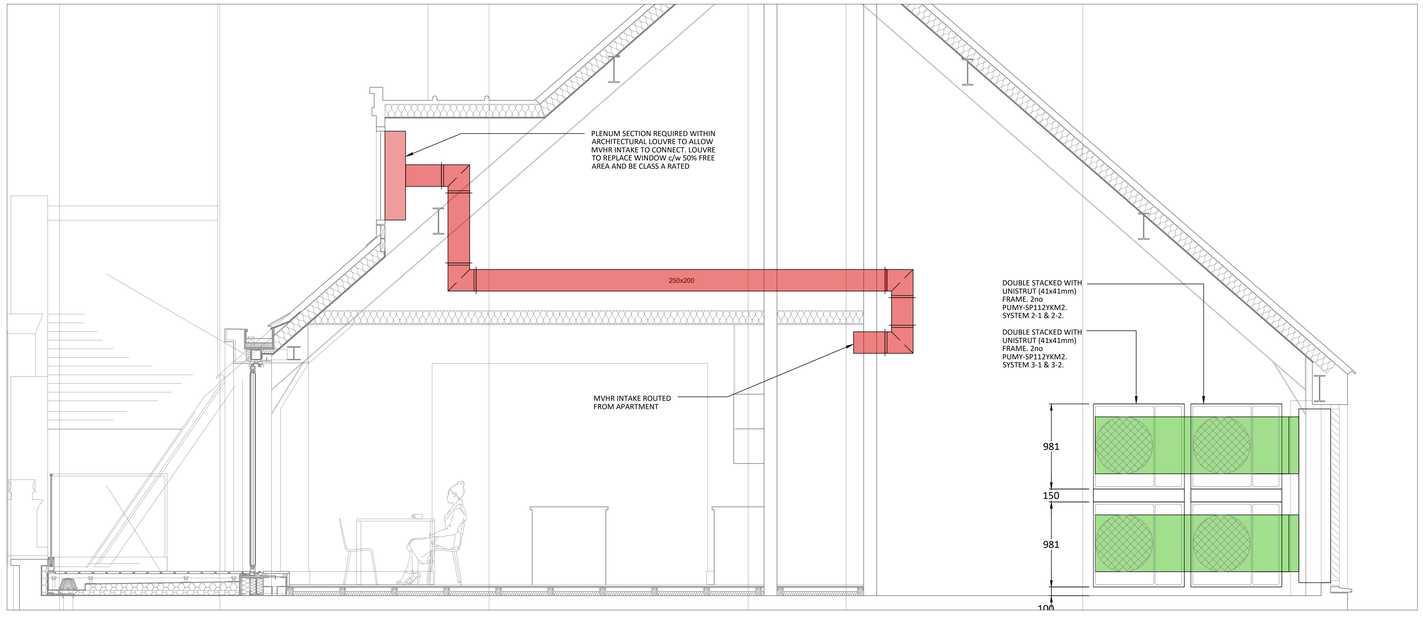

PUMY-P200YKM5 CONDENSER DETAILS

**Winters Air Conditioning Equipment Schedule**

| System | Appt | Room | Cooling Load (KW) | Heating Load (KW) | Total Cooling (KW) | Total Heating (KW) | FCU Selection | Outdoor Unit | Cooling Load UK (KW) | Heating Load UK (KW) | Sound Pressure (dBA) | Sound Power (dBA) | Weight (KG) | Electrical |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-1 | 02-01 | Bed-02 | 0.92 | 1.11 | | | PEFY-M20VMA-A1 | | 1.9 | 2.5 | M1 26.5 | | 21 | 1ph/6amp |
| | | Kitchen | 4.1 | 2.01 | | | PEFY-M63VMA-A1 | | 5.4 | 8 | M1 30 | | 30 | 1ph/6amp |
| | | Bed-01 | 1.89 | 1.19 | | | PEFY-M20VMA-A1 | | 1.9 | 2.5 | M1 26.5 | | 21 | 1ph/6amp |
| | | | | | 6.91 | 4.31 | | PUMY-SP112YKM2 | 9.8 | 14 | 52 | 72 | 72 | 3ph / 16amp |
| System | Appt | Room | Cooling Load (KW) | Heating Load (KW) | Total Cooling (KW) | Total Heating (KW) | FCU Selection | Outdoor Unit | Cooling Load UK (KW) | Heating Load UK (KW) | Sound Pressure (dBA) | Sound Power (dBA) | Weight (KG) | Electrical |
| 2-2 | 02-02 | Kitchen | 3.32 | 1.65 | | | PEFY-M50VMA-A1 | | 4.8 | 6.3 | M1 30 | | 30 | 1ph/6amp |
| | | Bed-02 | 1.5 | 1.15 | | | PEFY-M20VMA-A1 | | 1.9 | 2.5 | M1 26.5 | | 30 | 1ph/6amp |
| | | Bed-01 | 2.6 | 1.47 | | | PEFY-M32VMA-A2 | | 2.6 | 4 | M1 31.5 | | 21 | 1ph/6amp |
| | | | | | 7.42 | 4.2.7 | | PUMY-SP112YKM2 | 9.8 | 14 | 52 | 72 | 72 | 3ph / 16amp |
| System | Appt | Room | Cooling Load (KW) | Heating Load (KW) | Total Cooling (KW) | Total Heating (KW) | FCU Selection | Outdoor Unit | Cooling Load UK (KW) | Heating Load UK (KW) | Sound Pressure (dBA) | Sound Power (dBA) | Weight (KG) | Electrical |
| 2-3 | Studio | | 4 | 3 | | | PEAD-M50JA2 | | 4.6 | 5.1 | M 32 | 58 | 26.5 | Fed by ODU |
| 2-3 | Studio | | 4 | 3 | | | | PUZ-ZM50VKA2 | 4.6 | 5.1 | 46 | 65 | 46 | 1ph/16amp |
| System | Appt | Room | Cooling Load (KW) | Heating Load (KW) | Total Cooling (KW) | Total Heating (KW) | FCU Selection | Outdoor Unit | Cooling Load UK (KW) | Heating Load UK (KW) | Sound Pressure (dBA) | Sound Power (dBA) | Weight (KG) | Electrical |
| 3-1 | 3-01 | Bed-02 | 0.7 | 1.03 | | | PEFY-M20VMA-A1 | | 1.9 | 2.5 | M1 26.5 | | 21 | 1ph/6amp |
| | | Kitchen | 3.69 | 1.8 | | | PEFY-M50VMA-A2 | | 4.8 | 6.3 | M1 30 | | 30 | 1ph/6amp |
| | | Bed-01 | 1.92 | 1.12 | | | PEFY-M25VMA-A2 | | 2.1 | 3.2 | M1 26.5 | | 21 | 1ph/6amp |
| | | | | | 6.31 | 3.95 | | PUMY-SP112YKM2 | 9.8 | 14 | 52 | 72 | 72 | 3ph / 16amp |
| System | Appt | Room | Cooling Load (KW) | Heating Load (KW) | Total Cooling (KW) | Total Heating (KW) | FCU Selection | Outdoor Unit | Cooling Load UK (KW) | Heating Load UK (KW) | Sound Pressure (dBA) | Sound Power (dBA) | Weight (KG) | Electrical |
| 3-2 | 3-02 | Kitchen | 3.18 | 1.52 | | | PEFY-M40VMA-A2 | | 3.6 | 5 | M1 25.5 | | 25 | 1ph/6amp |
| | | Bed-02 | 1.33 | 1.07 | | | PEFY-M20VMA-A1 | | 1.9 | 2.5 | M1 26.5 | | 21 | 1ph/6amp |
| | | Bed-01 | 2.45 | 1.53 | | | PEFY-M32VMA-A2 | | 2.6 | 4 | M1 31.5 | | 21 | 1ph/6amp |
| | | Suite | 4 | 3 | | | PEFY-M50VMA-A2 | | 4.8 | 6.3 | M1 30 | | 30 | 1ph/6amp |
| | | | | | 10.96 | 7.12 | | PUMY-SP112YKM2 | 9.8 | 14 | 52 | 72 | 72 | 3ph / 16amp |
| System | Appt | Room | Cooling Load (KW) | Heating Load (KW) | Total Cooling (KW) | Total Heating (KW) | FCU Selection | Outdoor Unit | Cooling Load UK (KW) | Heating Load UK (KW) | Sound Pressure (dBA) | Sound Power (dBA) | Weight (KG) | Electrical |
| 4-1 | 4-01 | Bed-02 | 1.35 | 1.51 | | | PEFY-M20VMA-A1 | | 1.9 | 2.5 | M1 26.5 | | 21 | 1ph/6amp |
| | | Bed 3/Study | 0.82 | 1.15 | | | PEFY-M20VMA-A1 | | 1.9 | 2.5 | M1 26.6 | | 22 | 1ph/6amp |
| | | Dressing | 4.33 | 2.05 | | | PEFY-M50VMA-A2 | | 4.8 | 6.3 | M1 30 | | 30 | 1ph/6amp |
| | | Living | 3.18 | 1.52 | | | PEFY-M40VMA-A2 | | 3.6 | 5 | M1 25.5 | | 25 | 1ph/6amp |
| | | Kitchen | 7.84 | 2.53 | | | PEFY-M100VMA-A3 | | 8.4 | 12.5 | M1 37.5 | | 30 | 1ph/6amp |
| | | | | | 17.52 | 8.76 | | PUMY-P200YKM5 | 17.6 | 25 | 57 | 76 | 72 | 3ph /20amp |

**Air Source Heat Pump Equipment Schedule**

| System | Appt | Room | Cooling Load (KW) | Heating Load (KW) | Total Cooling (KW) | Total Heating (KW) | FCU Selection | Outdoor Unit | Cooling Load UK (KW) | Heating Load UK (KW) | Sound Pressure (dBA) | Sound Power (dBA) | Weight (KG) | Electrical |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASHP | All | | NA | 14 | NA | 14 | PUZ-HWM140VHA(-BS) | | NW | 14 | 53 | 67 | 132 | 1ph/40amp |




SECTION A-A
Scale 1:25

Citation ISO Certification
Quality management ISO 9001: 2015
Certificate No: 38142021

© This drawing is copyright protected, and remains the property of hurstwood environmental consulting. It must not be reproduced, used, disclosed or transmitted to third parties in any form without prior written permission.

| REV | CHK | DATE | Description |
|---|---|---|---|
| P01 | BW | 19/06/26 | INITIAL ISSUE |

Architectural X-Ref Drawings:
FF&E X-Ref Drawings:

Drawing Status: PRELIMINARY

Hurstwood Environmental Consulting

**Bolton Office**
Capitol House, 51 Churchgate, Bolton, BL1 1LY
T: 01204 770 046
E: bolton@hurstwood-eng.co.uk

**Liverpool Office**
23 Oxcadlass Road, Speke, Liverpool, L24 9HJ
T: 0151 728 3360
E: liverpool@hurstwood-eng.co.uk

www.hurstwood-eng.co.uk

Designing for performance • Delivering with purpose

| Drawn: | Chkd: | App: | |
|---|---|---|---|
| L BRIFFA | R JORDAN | P CHAMBERS | A0 |
| Date: JAN 2026 | Scale: 1:25 | | |

Client: OGLESBY FAMILY

Project: WINTER BUILDING, MANCHESTER

Drawing Title:
MECHANICAL SERVICES
HVAC LAYOUT
FOURTH FLOOR PLANTROOM DETAILS

| Project No: | Rev: |
|---|---|
| C4384-HEC-ZZ-04-DR-M-5750 | P01 |
| Project Code Originator Volume Level Type Role Number | |

Last saved by: PAUL.C (2026-07-07) Last Plotted: 2026-07-07
Filename: G:\USERS\PAUL.C\DESKTOP\C4384-WINTERS BUILDING MANCHESTER\02 MECHANICAL\06 DRAWINGS\STAGE 4 MEP\H HVAC-1-BOL-PC03.DWG