

Section 1

Technical Submission

Technical Submission Ref No: **32396-6000-TS-ZZ-M-0002**

Revision: BIW ref: 32396-6000-TS-ZZ-M-0002

Date Issued: 29/03/2016

Title: **VRF Systems**

Issue & Approval dates:

Planned

Actual

Trade contractor name to consultant

Status by Lead Reviewer

Review by Tenant Team

Drawing Commencement Date:

Trade Contractor Manager:

Revision No.	Date	Prepared By	Comments
01	29/03/2016	Andrew Tsang	

Section 2

Design Information and Technical Data used to prepare submittal

- ✓ Equipment Data Sheets / Schedules
- ☐ Particular Specification
- ☐ Materials & Workmanship
- ✓ Drawings
- ☐ Schematics/Diagrammatics
- ☐ Supplementary Specs

Section 3

Attachments

- ✓ Catalogue Details
- ☐ Design Check Calculations
- ✓ Manufacturing Drawings
- ✓ Wiring/Control Diagrams
- ☐ Sample
- ☐ BWIC requirements
- ☐ Assembly / installation details
- ☐ O&M instructions
- ☐ List of recommended spares
- ☐ Interface and coordination with other packages
- ☐ FAT / SAT Test Requirements
- ☐ Description of Operation

Section 4**Specification Compliance Statement**

Technical Submission fully compliant

If no then proposed deviations are:

Y	
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This submission is fully compliant with all changes to the VRF systems specification as agreed and accepted by Long & Partners and Mace in design meetings.

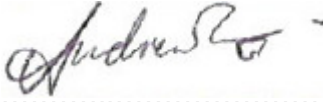
Specification Requirement**Proposed Deviation**

Section 5

Internal Sign Off

Submittal Reviewed by:

Trade Contractor: Mechanical

Print ... Andrew Tsang Sign  Date 29/3/2016

Trade Contractor: Electrical

Print Sign Date

CDP:

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Section 6

Status Assignment (by Lead Reviewer, NAME CONSULTANT)

Status A — the above item(s) has been reviewed and is accepted

Status B — the above item(s) has been reviewed and is accepted subject to the comments included below / herewith

Status C — the above item(s) has been reviewed and is rejected for the detailed reason(s) stated below

Lead Reviewers Comments (related to B or C status approvals):

Print Sign Date

Section 7

Professional Team Comments

Comments (Mace Limited):

Print SignDate

Professional Team Comments

Comments (Architects):

Print SignDate

Professional Team Comments

Comments (Other consultants):

Print SignDate

Section 8

Comments by Tenant Team:

In consideration of the comments made by the base build team and the Status Assignment by the lead reviewer the Tenant Team's comments are as follows:

Print Sign Date.....

VRF Systems Schedule

1 New Oxford Street

VRF System Schedule

Manufacturer: Mitsubishi Electric (as specified)

INDOOR UNITS									
Tenant	Ref	Location	Cooling Duty Required Sensible (kW)	Cooling Duty Required Total (kW)	Heating Duty Required Total (kW)	Type/Model	Air Flow in Medium Fan Speed (l/s)	Electrical Power Supply (V / ph / Hz)	Running Current (A)
One	FCU 1/1	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 1/2	First Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 1/3	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 1/4	First Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 1/5	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 1/6	First Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 1/7	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 1/8	First Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 1/9	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 1/10	First Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 1/11	First Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34
One	FCU 1/12	First Floor	2	2.56	2.85	PEFY-P25VMS1-E	117	240/1/50	0.5
One	FCU 1/ 43	First Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42

Two	FCU 1/13	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 1/14	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 1/15A	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 1/15B	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 1/16	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 1/17	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 1/18	First Floor	3.72	5.04	5.61	PFFY-P50VLRMM-E	200	240/1/50	0.48
Two	FCU 1/19	First Floor	3.72	5.04	5.61	PFFY-P50VLRMM-E	200	240/1/50	0.48
Two	FCU 1/21	First Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 1/23	First Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 1/25	First Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38

Two	FCU 1/20	First Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
Two	FCU 1/22	First Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
Two	FCU 1/24	First Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
Two	FCU 1/26	First Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
Two	FCU 1/27	First Floor	2.39	2.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 1/28	First Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 1/29	First Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 1/30	First Floor	3.72	5.04	5.61	PFFY-P50VLRMM-E	200	240/1/50	0.48
Two	FCU 1/31	First Floor	1.62	1.99	2.19	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 1/32	First Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 1/33	First Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 1/34	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 1/35	First Floor	1.72	1.9	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
Two	FCU 1/36	First Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 1/37	First Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
Two	FCU 1/38	First Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34
Two	FCU 1/39	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 1/40	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 1/41	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 1/42	First Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34

EXTERNAL UNIT (All external unit are on Roof Level)					
Condenser Ref	Condenser Model	SCOP	SEER	Condenser Running Current (A)	Condenser Electrical Power Supply
CON 1/1	PURY-EP300YLM-A (CMB-P108VGA & CMB-P108V-GB)	6.39	8.91	13.3	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)

CON 1/2	PURY - EP350YLM-A (CMB-P1013V-GA)	6.3	8.42	17.25	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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CON 1/3	PURY -EP500YLM-A (CMB-P1016VGA & CMB-P108V-GB)	5.45	8.23	22.3	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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1 New Oxford Street

VRF System Schedule

Manufacturer: Mitsubishi Electric (as specified)

INDOOR UNITS									
Tenant	Ref	Location	Cooling Duty Required Sensible (kW)	Cooling Duty Required Total (kW)	Heating Duty Required Total (kW)	Type/Model	Air Flow in Medium Fan Speed (l/s)	Electrical Power Supply (V / ph / Hz)	Running Current (A)

One	FCU 2/1	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 2/2	Second Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 2/3	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 2/4	Second Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 2/5	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 2/6	Second Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 2/7	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 2/8	Second Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 2/9	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 2/10	Second Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 2/11	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 2/12	Second Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
One	FCU 2/43	Second Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42

Two	FCU 2/13	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 2/14	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 2/15A	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 2/15B	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 2/16	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 2/17	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 2/18	Second Floor	2.94	4.08	4.08	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 2/19	Second Floor	2.94	4.08	4.08	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 2/21	Second Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 2/23	Second Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 2/25	Second Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38

Two	FCU 2/20	Second Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 2/22	Second Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
Two	FCU 2/24	Second Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
Two	FCU 2/26	Second Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
Two	FCU2/27	Second Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 2/28	Second Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 2/29	Second Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 2/30	Second Floor	2.94	4.08	4.08	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 2/31	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 2/32	Second Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 2/33	Second Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 2/34	Second Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34
Two	FCU 2/35	Second Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 2/36	Second Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34
Two	FCU 2/37	Second Floor	1.8	2.56	2.85	PEFY-P25VMS1-E	117	240/1/50	0.5
Two	FCU 2/38	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 2/39	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 2/40	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 2/41	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 2/42	Second Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34

EXTERNAL UNIT (All external unit are on Roof Level)					
Condenser Ref	Condenser Model	SCOP	SEER	Condenser Running Current (A)	Condenser Electrical Power Supply

CON 2/1	PURY-EP250YLM-A (CMB-P108VGA & CMB-P108V-GB)	6.33	11.88	10.58	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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CON 2/2	PURY-EP350YLM-A (CMB-P1013V-GA)	6.3	8.42	17.25	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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CON 2/3	PURY -EP500YLM-A (CMB-P1016VGA & CMB-P108V-GB)	5.45	8.23	22.3	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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1 New Oxford Street

VRF System Schedule

Manufacturer: Mitsubishi Electric (as specified)

INDOOR UNITS									
Tenant	Ref	Location	Cooling Duty Required Sensible (kW)	Cooling Duty Required Total (kW)	Heating Duty Required Total (kW)	Type/Model	Air Flow in Medium Fan Speed (l/s)	Electrical Power Supply (V / ph / Hz)	Running Current (A)
One	FCU 3/1	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 3/2	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 3/3	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 3/4	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 3/5	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 3/6	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 3/7	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 3/8	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 3/9	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 3/10	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 3/11	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 3/12	Third Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
One	FCU 3/43	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 3/13	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 3/14	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 3/15A	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 3/15B	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 3/16	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 3/17	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 3/18	Third Floor	2.94	4.08	4.08	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 3/19	Third Floor	2.94	4.08	4.08	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 3/21	Third Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 3/23	Third Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 3/25	Third Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 3/20	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 3/22	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 3/24	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 3/26	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 3/27	Third Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 3/28	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 3/29	Third Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 3/30	Third Floor	2.94	4.08	4.08	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 3/31	Third Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 3/32	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 3/33	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 3/34	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 3/35	Third Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 3/36	Third Floor	2.36	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 3/37	Third Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
Two	FCU 3/38	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 3/39	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 3/40	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 3/41	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 3/42	Third Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34

EXTERNAL UNIT (All external unit are on Roof Level)					
Condenser Ref	Condenser Model	SCOP	SEER	Condenser Running Current (A)	Condenser Electrical Power Supply
CON 3/1	PURY-EP250YLM-A (CMB-P108VGA & CMB-P108V-GB)	6.33	11.88	10.58	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
CON 3/2	PURY-EP350YLM-A (CMB-P1013V-GA)	6.3	8.42	17.25	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
CON 3/3	PURY-EP450YLM-A (CMB-P1016VGA & CMB-P108V-GB)	5.41	8.72	18.1	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)

1 New Oxford Street

VRF System Schedule

Manufacturer: Mitsubishi Electric (as specified)

INDOOR UNITS									
Tenant	Ref	Location	Cooling Duty Required Sensible (kW)	Cooling Duty Required Total (kW)	Heating Duty Required Total (kW)	Type/Model	Air Flow in Medium Fan Speed (l/s)	Electrical Power Supply (V / ph / Hz)	Running Current (A)

One	FCU 4/1	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 4/2	Fourth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 4/3	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 4/4	Fourth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 4/5	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 4/6	Fourth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 4/7	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 4/8	Fourth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 4/9	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 4/10	Fourth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 4/11	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 4/12	Fourth Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
One	FCU 4/43	Fourth Floor	1.14	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42

Two	FCU 4/13	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU4/14	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 4/15A	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 4/15B	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 4/16	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 4/17	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 4/18	Fourth Floor	2.94	4.08	4.47	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 4/19	Fourth Floor	2.94	4.08	4.47	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 4/21	Fourth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 4/23	Fourth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 4/25	Fourth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38

Two	FCU 4/20	Fourth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 4/22	Fourth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 2/24	Fourth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 4/26	Fourth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 4/27	Fourth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 4/28	Fourth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 4/29	Fourth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 4/30	Fourth Floor	2.94	4.08	4.47	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 4/31	Fourth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 4/32	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 4/33	Fourth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 4/34	Fourth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 4/35	Fourth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 4/36	Fourth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 4/37	Fourth Floor	1.8	1.99	2.85	PEFY-P25VMS1-E	117	240/1/50	0.5
Two	FCU 4/38	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 4/39	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 4/40	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 4/41	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 4/42	Fourth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34

EXTERNAL UNIT (All external unit are on Roof Level)					
Condenser Ref	Condenser Model	SCOP	SEER	Condenser Running Current (A)	Condenser Electrical Power Supply

CON 4/1	PURY-EP250YLM-A (CMB-P108VGA & CMB-P108V-GB)	6.33	11.88	10.58	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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CON 4/2	PURY-EP350YLM-A (CMB-P1013V-GA)	6.3	8.42	17.25	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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CON 4/3	PURY -EP500YLM-A (CMB-P1016VGA & CMB-P108V-GB)	5.45	8.23	22.3	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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1 New Oxford Street

VRF System Schedule

Manufacturer: Mitsubishi Electric (as specified)

INDOOR UNITS									
Tenant	Ref	Location	Cooling Duty Required Sensible (kW)	Cooling Duty Required Total (kW)	Heating Duty Required Total (kW)	Type/Model	Air Flow in Medium Fan Speed (l/s)	Electrical Power Supply (V / ph / Hz)	Running Current (A)

One	FCU 5/1	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 5/2	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 5/3	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 5/4	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 5/5	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 5/6	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 5/7	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 5/8	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 5/9	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 5/10	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 5/11	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 5/12	Fifth Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
One	FCU 5/43	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42

Two	FCU 5/13	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 5/14	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCI5/15A	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 5/15B	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 5/16	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 5/17	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 5/18	Fifth Floor	2.94	4.08	4.47	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 5/19	Fifth Floor	2.94	4.08	4.47	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 5/21	Fifth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 5/23	Fifth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 5/25	Fifth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38

Two	FCU 5/20	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 5/22	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 5/24	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 5/26	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 5/27	Fifth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 5/28	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 5/29	Fifth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 5/30	Fifth Floor	2.94	4.08	4.47	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCI 5/31	Fifth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 5/32	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 5/33	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 5/34	Fifth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 5/35	Fifth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 5/36	Fifth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 5/37	Fifth Floor	1.8	2.56	2.85	PEFY-P25VMS1-E	117	240/1/50	0.5
Two	FCU 5/38	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 5/39	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 5/40	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 5/41	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 5/42	Fifth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34

EXTERNAL UNIT (All external unit are on Roof Level)					
Condenser Ref	Condenser Model	SCOP	SEER	Condenser Running Current (A)	Condenser Electrical Power Supply

CON 5/1	PURY-EP250YLM-A (CMB-P108VGA & CMB-P108V-GB)	6.33	11.88	10.58	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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CON 5/2	PURY-EP350YLM-A (CMB-P1013V-GA)	6.3	8.42	17.25	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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CON 5/3	PURY -EP500YLM-A (CMB-P1016VGA & CMB-P108V-GB)	5.45	8.23	22.3	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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1 New Oxford Street

VRF System Schedule

Manufacturer: Mitsubishi Electric (as specified)

INDOOR UNITS									
Tenant	Ref	Location	Cooling Duty Required Sensible (kW)	Cooling Duty Required Total (kW)	Heating Duty Required Total (kW)	Type/Model	Air Flow in Medium Fan Speed (l/s)	Electrical Power Supply (V / ph / Hz)	Running Current (A)
One	FCU 6/1	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 6/2	Sixth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 6/3	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 6/4	Sixth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 6/5	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 6/6	Sixth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 6/7	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 6/8	Sixth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU6/9	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 6/10	Sixth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 6/11	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
One	FCU 6/12	Sixth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
One	FCU 6/43	Sixth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 6/13	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 6/14	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 6/15A	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 6/15B	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 6/16	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 6/17	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 6/18	Sixth Floor	3.72	5.04	5.61	PFFY-P50VLRMM-E	200	240/1/50	0.48
Two	FCU 6/19	Sixth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 6/21	Sixth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 6/23	Sixth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 6/25	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 6/20	Sixth Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
Two	FCU 6/22	Sixth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 6/24	Sixth Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
Two	FCU 6/26	Sixth Floor	1.72	1.99	2.19	PEFY-P20VMS1-E	108	240/1/50	0.47
Two	FCU 6/27	Sixth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 6/28	Sixth Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
Two	FCU 6/29	Sixth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 6/30	Sixth Floor	3.72	5.04	5.61	PFFY-P50VLRMM-E	200	240/1/50	0.48
Two	FCU 6/31	Sixth Floor	3.72	5.04	5.61	PFFY-P50VLRMM-E	200	240/1/50	0.48
Two	FCU 6/33	Sixth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 6/34	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 6/35	Sixth Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
Two	FCU 6/36	Sixth Floor	2..39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 6/37	Sixth Floor	2	2.56	2.85	PEFY-P25VMS1-E	117	240/1/50	0.5
Two	FCU 6/38	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 6/39	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 6/40	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 6/41	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 6/42	Sixth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34

EXTERNAL UNIT (All external unit are on Roof Level)					
Condenser Ref	Condenser Model	SCOP	SEER	Condenser Running Current (A)	Condenser Electrical Power Supply
CON 6/1	PURY-EP250YLM-A (CMB-P108VGA & CMB-P108V-GB)	6.33	11.88	10.58	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
CON 6/2	PURY-EP350YLM-A (CMB-P1013V-GA)	6.3	8.42	17.25	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
CON 6/3	PURY-EP550YLM-A (CMB-P1016VGA & CMB-P108V-GB)	6.33	10.12	21.05	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)

1 New Oxford Street

VRF System Schedule

Manufacturer: Mitsubishi Electric (as specified)

INDOOR UNITS									
Tenant	Ref	Location	Cooling Duty Required Sensible (kW)	Cooling Duty Required Total (kW)	Heating Duty Required Total (kW)	Type/Model	Air Flow in Medium Fan Speed (l/s)	Electrical Power Supply (V / ph / Hz)	Running Current (A)
One	FCU 7/2	Seventh Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
One	FCU 7/4	Seventh Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
One	FCU 7/6	Seventh Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
One	FCU 7/8	Seventh Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
One	FCU 7/10	Seventh Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
One	FCU 7/12	Seventh Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
One	FCU 7/43	Seventh Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42

Two	FCU 7/15	Seventh Floor	3.72	5.04	5.61	PFFY-P50VLRMM-E	200	240/1/50	0.48
Two	FCU 7/16	Seventh Floor	2.94	4.09	4.47	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 7/17	Seventh Floor	1.62	1.99	2.19	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 7/18	Seventh Floor	3.72	5.04	5.61	PFFY-P50VLRMM-E	200	240/1/50	0.48
Two	FCU 7/19	Seventh Floor	3.72	5.04	5.61	PFFY-P50VLRMM-E	200	240/1/50	0.48
Two	FCU 7/21	Seventh Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 7/23	Seventh Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 7/25	Seventh Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38

Two	FCU 7/20	Seventh Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 7/22	Seventh Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 7/24	Seventh Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 7/26	Seventh Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 7/27	Seventh Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 7/28	Seventh Floor	2.94	4.08	4.47	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 7/29	Seventh Floor	3.72	5.04	5.61	PFFY-P50VLRMM-E	200	240/1/50	0.48
Two	FCU 7/30	Seventh Floor	3.72	5.04	5.61	PFFY-P50VLRMM-E	200	240/1/50	0.48
Two	FCU 7/31	Seventh Floor	2	2.56	2.85	PEFY-P25VMS1-E	117	240/1/50	0.5
Two	FCU 7/32	Seventh Floor	2	2.56	2.85	PEFY-P25VMS1-E	117	240/1/50	0.5
Two	FCU 7/33	Seventh Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 7/34	Seventh Floor	2.94	4.08	4.47	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 7/35	Seventh Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 7/36	Seventh Floor	1.71	1.99	2.18	PEFY-P20VMS1-E	108	240/1/50	0.47
Two	FCU 7/39	Seventh Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34
Two	FCU 7/40	Seventh Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34
Two	FCU 7/41	Seventh Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34
Two	FCU 7/42	Seventh Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34

One	FCU 8/2	Eighth Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
One	FCU 8/4	Eighth Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
One	FCU 8/6	Eighth Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
One	FCU 8/8	Eighth Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
One	FCU 8/10	Eighth Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
One	FCU 8/12	Eighth Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
One	FCU 8/43	Eighth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42

EXTERNAL UNIT (All external unit are on Roof Level)					
Condenser Ref	Condenser Model	SCOP	SEER	Condenser Running Current (A)	Condenser Electrical Power Supply
CON 7/1	PURY-EP250YLM-A (CMB-P108VGA & CMB-P108V-GB)	6.33	11.88	10.58	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)

CON 7/2	PURY-EP350YLM-A (CMB-P1013V-GA)	6.3	8.42	17.25	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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CON 7/3	PURY-EP550YLM-A (CMB-P1016VGA & CMB-P108V-GB)	6.33	10.12	21.05	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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CON 8/1	PURY-EP250YLM-A (CMB-P108VGA & CMB-P108V-GB)	6.33	11.88	10.58	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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1 New Oxford Street

VRF System Schedule

Manufacturer: Mitsubishi Electric (as specified)

INDOOR UNITS									
Tenant	Ref	Location	Cooling Duty Required Sensible (kW)	Cooling Duty Required Total (kW)	Heating Duty Required Total (kW)	Type/Model	Air Flow in Medium Fan Speed (l/s)	Electrical Power Supply (V / ph / Hz)	Running Current (A)
Two	FCU 8/14	Eighth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 8/15	Eighth Floor	1.62	1.99	2.18	PFFY-P20VLRMM-E	92	240/1/50	0.34
Two	FCU 8/17	Eighth Floor	2.94	4.08	4.47	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 8/18	Eighth Floor	2.94	4.08	4.47	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 8/19	Eighth Floor	3.72	5.04	5.61	PFFY-P50VLRMM-E	200	240/1/50	0.48
Two	FCU 8/21	Eighth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 8/23	Eighth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 8/25	Eighth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38

Two	FCU 8/20	Eighth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 8/22	Eighth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 8/24	Eighth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCI 8/26	Eighth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 8/27	Eighth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 8/28	Eighth Floor	2.94	4.08	4.71	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 8/29	Eighth Floor	2.94	4.08	4.71	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 8/30	Eighth Floor	2.94	4.08	4.71	PFFY-P40VLRMM-E	158	240/1/50	0.43
Two	FCU 8/31	Eighth Floor	1.42	1.52	1.71	PEFY-P15VMS1-E	100	240/1/50	0.42
Two	FCU 8/32	Eighth Floor	2.45	3.23	3.52	PEFY-P32VMS1-E	133	240/1/50	0.5
Two	FCU 8/33	Eighth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 8/34	Eighth Floor	2.39	3.23	3.52	PFFY-P32VLRMM-E	125	240/1/50	0.38
Two	FCU 8/35	Eighth Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34
Two	FCU 8/36	Eighth Floor	2	2.56	2.85	PEFY-P25VMS1-E	117	240/1/50	0.5
Two	FCU 8/39	Eighth Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34
Two	FCU 8/40	Eighth Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34
Two	FCU 8/41	Eighth Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34
Two	FCU 8/42	Eighth Floor	1.8	2.56	2.85	PFFY-P25VLRMM-E	92	240/1/50	0.34

One	FCU 9/1	Ninth Floor	2	2.57	2.85	PEFY-P25VMA-E	125	240/1/50	0.53
One	FCU 9/2	Ninth Floor	2	2.57	2.85	PEFY-P25VMA-E	125	240/1/50	0.53
One	FCU 9/3	Ninth Floor	2	2.57	2.85	PEFY-P25VMA-E	125	240/1/50	0.53
One	FCU 9/4	Ninth Floor	2	2.57	2.85	PEFY-P25VMA-E	125	240/1/50	0.53
One	FCU 9/5	Ninth Floor	2	2.57	2.85	PEFY-P25VMA-E	125	240/1/50	0.53
One	FCU 9/6	Ninth Floor	2	2.57	2.85	PEFY-P25VMA-E	125	240/1/50	0.53
One	FCU 9/7	Ninth Floor	3.97	5.04	5.61	PEFY-P50VMA-E	242	240/1/50	0.74

Two	FCU 9/8	Ninth Floor	3.97	5.04	5.61	PEFY-P50VMA-E	242	240/1/50	0.74
Two	FCU 9/9	Ninth Floor	3.97	5.04	5.61	PEFY-P50VMA-E	242	240/1/50	0.74
Two	FCU 9/10	Ninth Floor	4.97	6.37	7.13	PEFY-P63VMA-E	267	240/1/50	1.01
Two	FCU 9/11	Ninth Floor	4.97	6.37	7.13	PEFY-P63VMA-E	267	240/1/50	1.01
Two	FCU 9/12	Ninth Floor	4.97	6.37	7.13	PEFY-P63VMA-E	267	240/1/50	1.01
Two	FCU 9/13	Ninth Floor	3.23	4.09	4.47	PEFY-P40VMA-E	200	240/1/50	0.64
Two	FCU 9/14	Ninth Floor	4.97	6.37	7.13	PEFY-P63VMA-E	267	240/1/50	1.01
Two	FCU 9/15	Ninth Floor	4.97	6.37	7.13	PEFY-P63VMA-E	267	240/1/50	1.01

EXTERNAL UNIT (All external unit are on Roof Level)					
Condenser Ref	Condenser Model	SCOP	SEER	Condenser Running Current (A)	Condenser Electrical Power Supply
CON 8/2	PURY-EP300YLM-A (CMB-P1013V-GA)	6.39	8.91	13.3	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)

CON 8/3	PURY-EP550YLM-A (CMB-P1016VGA & CMB- P108V-GB)	6.33	10.12	21.05	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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CON 9/1	PURY-EP250YLM-A (CMB-P108V-GA)	6.3	11.88	10.58	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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CON 9/2	PURY-EP500YLM-A (CMB-P1010V-GA)	5.45	8.23	22.3	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
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1 New Oxford Street

VRF System Schedule

Manufacturer: Mitsubishi Electric (as specified)

INDOOR UNITS										EXTERNAL UNIT (All external unit are on Roof Level)					
Tenant	Ref	Location	Cooling Duty Required Sensible (kW)	Cooling Duty Required Total (kW)	Heating Duty Required Total (kW)	Type/Model	Air Flow in Medium Fan Speed (l/s)	Electrical Power Supply (V / ph / Hz)	Running Current (A)	Condenser Ref	Condenser Model	SCOP	SEER	Condenser Running Current (A)	Condenser Electrical Power Supply
Two	FCU 9/16	Ninth Floor	2.39	3.23	3.52	PEFY-P32VMA-E	150	240/1/50	0.55	CON 9/3	PURY-EP250YLM-A (CMB-P108V-GA)	6.3	11.88	10.58	380-415V, 50Hz (For CMB type BC controllers are 220-240V, 50Hz)
Two	FCU 9/17	Ninth Floor	4.97	6.37	7.13	PEFY-P63VMA-E	267	240/1/50	1.01						
Two	FCU 9/18	Ninth Floor	1.72	1.99	2.19	PEFY-P20VMA-E	125	240/1/50	0.53						
Two	FCU 919	Ninth Floor	3.97	5.04	5.61	PEFY-P50VMA-E	242	240/1/50	0.74						
Two	FCU 9/20	Ninth Floor	3.23	4.09	4.47	PEFY-P40VMA-E	200	240/1/50	0.64						

On Floors																
One	1/AHU/T1/01	First Floor North Core Gridline 4/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 1/1	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	1/AHU/T1/02	First Floor South Core Gridline 10/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 1/2	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	1/AHU/T2/03	First Floor South Core Gridline 11/C		2.97	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	300	N/A	N/A		CON AHU 1/3	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	1/AHU/T2/04	First Floor South Core Gridline 12/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 1/4	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	1/AHU/T2/05	First Floor West Core Gridline 5/J		3.56	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	360	N/A	N/A		CON AHU 1/5	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	1/AHU/T2/06	First Floor West Core Gridline 4/G		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 1/6	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	1/AHU/T2/07	First Floor North Core Gridline 3/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 1/7	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	2/AHU/T1/01	Second Floor North Core Gridline 4/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 2/1	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	2/AHU/T1/02	Second Floor South Core Gridline 10/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 2/2	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	2/AHU/T2/03	Second Floor South Core Gridline 11/C		2.97	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	300	N/A	N/A		CON AHU 2/3	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	2/AHU/T2/04	Second Floor South Core Gridline 12/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 2/4	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	2/AHU/T2/05	Second Floor West Core Gridline 5/J		3.56	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	360	N/A	N/A		CON AHU 2/5	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	2/AHU/T2/06	Second Floor West Core Gridline 4/G		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 2/6	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	2/AHU/T2/07	Second Floor North Core Gridline 3/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 2/7	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	3/AHU/T1/01	Third Floor North Core Gridline 4/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 3/1	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	3/AHU/T1/02	Third Floor South Core Gridline 10/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 3/2	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	3/AHU/T2/03	Third Floor South Core Gridline 11/C		2.97	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	300	N/A	N/A		CON AHU 3/3	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	3/AHU/T2/04	Third Floor South Core Gridline 12/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 3/4	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	3/AHU/T2/05	Third Floor West Core Gridline 5/J		3.56	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	360	N/A	N/A		CON AHU 3/5	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	3/AHU/T2/06	Third Floor West Core Gridline 4/G		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 3/6	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	3/AHU/T2/07	Third Floor North Core Gridline 3/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 3/7	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	4/AHU/T1/01	Fourth Floor North Core Gridline 4/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 4/1	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	4/AHU/T1/02	Fourth Floor South Core Gridline 10/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 4/2	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	4/AHU/T2/03	Fourth Floor South Core Gridline 11/C		2.97	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	300	N/A	N/A		CON AHU 4/3	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	4/AHU/T2/04	Fourth Floor South Core Gridline 12/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 4/4	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	4/AHU/T2/05	Fourth Floor West Core Gridline 5/J		3.56	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	360	N/A	N/A		CON AHU 4/5	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	4/AHU/T2/06	Fourth Floor West Core Gridline 4/G		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 4/6	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	4/AHU/T2/07	Fourth Floor North Core Gridline 3/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 4/7	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	5/AHU/T1/01	Fifth Floor North Core Gridline 4/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 5/1	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	5/AHU/T1/02	Fifth Floor South Core Gridline 10/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A		CON AHU 5/2	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz

1 New Oxford Street

VRF System Schedule

Manufacturer: Mitsubishi Electric (as specified)

INDOOR UNITS										EXTERNAL UNIT (All external unit are on Roof Level)					
Tenant	Ref	Location	Cooling Duty Required Sensible (kW)	Cooling Duty Required Total (kW)	Heating Duty Required Total (kW)	Type/Model	Air Flow in Medium Fan Speed (l/s)	Electrical Power Supply (V / ph / Hz)	Running Current (A)	Condenser Ref	Condenser Model	SCOP	SEER	Condenser Running Current (A)	Condenser Electrical Power Supply
Two	5/AHU/T2/03	Fifth Floor South Core Gridline 11/C		2.97	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	300	N/A	N/A	CON AHU 5/3	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	5/AHU/T2/04	Fifth Floor South Core Gridline 12/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 5/4	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	5/AHU/T2/05	Fifth Floor West Core Gridline 5/J		3.56	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	360	N/A	N/A	CON AHU 5/5	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	5/AHU/T2/06	Fifth Floor West Core Gridline 4/G		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 5/6	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	5/AHU/T2/07	Fifth Floor North Core Gridline 3/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 5/7	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	6/AHU/T1/01	Sixth Floor North Core Gridline 4/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 6/1	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	6/AHU/T1/02	Sixth Floor South Core Gridline 10/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 6/2	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	6/AHU/T2/03	Sixth Floor South Core Gridline 11/C		2.97	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	300	N/A	N/A	CON AHU 6/3	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	6/AHU/T2/04	Sixth Floor South Core Gridline 12/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 6/4	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	6/AHU/T2/05	Sixth Floor West Core Gridline 5/J		3.56	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	360	N/A	N/A	CON AHU 6/5	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	6/AHU/T2/06	Sixth Floor West Core Gridline 4/G		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 6/6	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	6/AHU/T2/07	Sixth Floor North Core Gridline 3/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 6/7	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	7/AHU/T1/01	Seventh Floor North Core Gridline 4/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 7/1	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	7/AHU/T1/02	Seventh Floor South Core Gridline 10/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 7/2	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	7/AHU/T2/03	Seventh Floor South Core Gridline 11/C		2.97	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	300	N/A	N/A	CON AHU 7/3	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	7/AHU/T2/04	Seventh Floor South Core Gridline 12/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 7/4	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	7/AHU/T2/05	Seventh Floor West Core Gridline 5/J		3.56	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	360	N/A	N/A	CON AHU 7/5	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	7/AHU/T2/06	Seventh Floor West Core Gridline 4/G		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 7/6	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	7/AHU/T2/07	Seventh Floor North Core Gridline 3/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 7/7	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	8/AHU/T1/01	Eighth Floor North Core Gridline 4/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 8/1	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
One	8/AHU/T1/02	Eighth Floor South Core Gridline 10/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 8/2	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	8/AHU/T2/03	Eighth Floor South Core Gridline 11/C		2.97	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	300	N/A	N/A	CON AHU 8/3	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	8/AHU/T2/05	Eighth Floor West Core Gridline 5/J		3.56	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	360	N/A	N/A	CON AHU 8/5	PUHZ-ZRP50VKA	4.96	4.02	Max. 13.4	220 - 240V 50Hz
Two	8/AHU/T2/06	Eighth Floor West Core Gridline 4/G		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 8/6	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
Two	8/AHU/T2/07	Eighth Floor North Core Gridline 3/B		2.12	Electric Heating Coil, see AHU schedule	AHU DX Cooling Coil by AHU supplier 500 - 1500 cm3, 4 paths.	200	N/A	N/A	CON AHU 8/7	PUHZ-ZRP35VKA	5.24	4.56	Max. 13.4	220 - 240V 50Hz
	AHU 04 (Meeting Room AHU)			9 - 22.4	9.5 - 25	AHU DX Cooling Coil by AHU Supplier	1000	N/A	N/A	CON AHU 04	PUHZ-ZRP250YKA			Max. 21	380-415V 50HZ
	AHU 05 (Meeting Room AHU)			9 - 22.4	9.5 - 25	AHU DX Cooling Coil by AHU Supplier	1200	N/A	N/A	CON AHU 05	PUHZ-ZRP250YKA			Max. 21	380-415V 50HZ
	AHU 06 (Reception AHU) (Alternative option)	Basement		12.36	25	PEFY-P200VMHS-E + PAC-KE250TB-F Filter Box PEFY-P200-VMH + Long Life Filter for PEFY-O200/250VMH-A	1200	240/1/50	3.18	CON AHU 06	PUMY-P200YKM Outdoor Unit R410A + PAR-31MAAJ REMOTE CONTROLLER	4.28	3.70	9.54	380-415V 50HZ

1 New Oxford Street

VRF System Schedule

Manufacturer: Mitsubishi Electric (as specified)

INDOOR UNITS									EXTERNAL UNIT (All external unit are on Roof Level)						
Tenant	Ref	Location	Cooling Duty Required Sensible (kW)	Cooling Duty Required Total (kW)	Heating Duty Required Total (kW)	Type/Model	Air Flow in Medium Fan Speed (l/s)	Electrical Power Supply (V / ph / Hz)	Running Current (A)	Condenser Ref	Condenser Model	SCOP	SEER	Condenser Running Current (A)	Condenser Electrical Power Supply
Basement															
BMS/Maintance Office (Alternative Option)		Basement	6.7	9.2	9.5	2 x PKFY-P50VHM-ER2 WALL MOUNT I/D /R410A	2 x 175	240/1/50	0.4	CON BMS	PUMY-P112YKM2 Outdoor Unit R410A + CMY-Y62G-E Branch Joint PAR-31MAA-J REMOTE CONTROLLER	4.61	4.48	5	380-415V 50HZ
Water Tank Room (Alternative Option)		Basement	6.7	9.2	9.5	2 x PKFY-P50VHM-ER2 WALL MOUNT I/D /R410A	2 x 175	240/1/50	0.4	CON WT	PUMY-P112YKM2 Outdoor Unit R410A + CMY-Y62G-E Branch Joint PAR-31MAA-J REMOTE CONTROLLER	4.61	4.48	5	380-415 50HZ
Heat Pump Boilers															
Hot Water Generation Plate Heat Exchanger One & Two		Basement	N.A	N.A	3 x 45kW for HWS primary	N.A	N.A	N.A	N.A	Air Source Heat Pump Boilers (ASHP 1 - 3)	2X CAHV-P500YA-HPB	4.13	2.8	52.9 each (Total 3no.)	380-415 50HZ
Reception UFH		Ground	N.A	N.A	14	N.A	N.A	N.A	N.A	Air Source Heat Pump Boilers (ASHP 4)	PUHZ-HW140-YHA-2-BS	3.11	N.A	Max. 13	380-415 50HZ

- Notes:
- Equipment manufactured by Mitsubishi Electric (contact Jason Burrows 07917388816 / jason.burrows@meuk.mee.com)
 - Cooling and heating figures above are based on medium fan speed
 - Defrost of air cooled VRF units to be by "hot gas defrost" method
 - Each VRF system to be supplied with a BC Controller without port isolation valves to individually isolate each indoor unit
 - Each BC Controller to have spare ports to allow for future additional indoor unites
 - Control to be by one AE200 touch screen centralised controller per tenant
 - Condensing units have been sized with spare capacity for future additions

VRF Fan Coil Units (Ceiling Mount and Floor Mount) &
Related Outdoor Condensers

Related BC Controllers and Sub-controllers

Touch Screen Control Panels

BMS Interface



PEFY-P15VMS1-E

Indoor Unit

Ultra Thin Ceiling Concealed Ducted

The ultra thin ceiling concealed ducted indoor unit offers increased flexibility and is particularly suitable for places where low noise operation is desired from a slimline body.

- **Ultra thin body - height of only 200mm**
- **Extremely quiet operation - as low as 22dBA**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**
- **Static Pressures of 5-50Pa**



Pictures not to scale

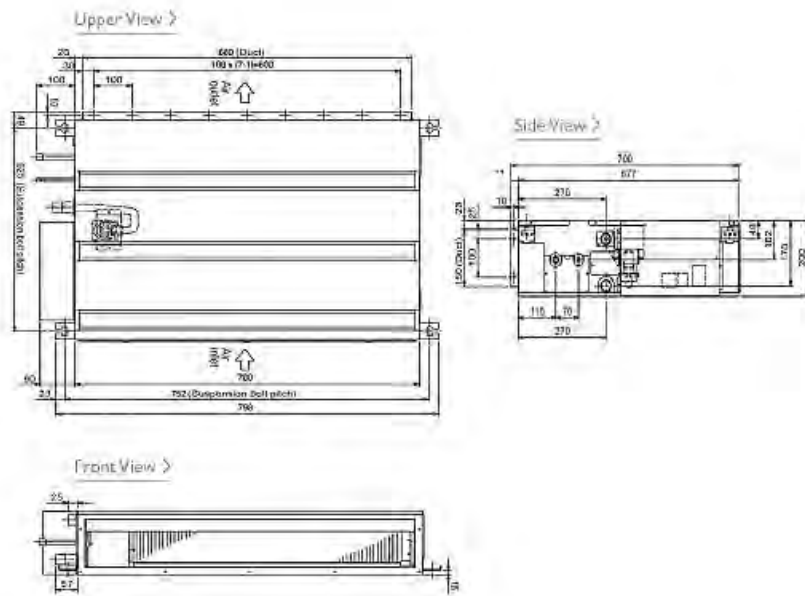


Product Details

PEFY-P15VMS1-E	
Capacity (kW):	
Heating (Nominal)	1.9
Cooling (Nominal)	1.7
Heating (UK)	1.8
Cooling (UK)	1.5
R410A High Sensible Cooling (UK)	1.2
SHF R410A (UK)	0.93
SHF High Sensible R410A (UK)	1.0
Power Input (kW) Heating (Nominal)	0.03
Power Input (kW) Cooling (Nominal)	0.05
Airflow(m3/min) - Lo-Mi1-Mi2	5-6-7
External Static Pressure Pa - Lo-Mi-Hi	5-15-50
Noise (dBA) - Lo-Mi1-Mi2	22-24-28
Width - mm	700
Depth - mm	790
Height - mm	200
Weight - kg	19
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.31
Running Current (A) - Cooling	0.42
Fuse Rating (BS88) - HRC (A)	6

Dimensions

PEFY-P15VMS1-E



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Mitsubishi Electric reserves the right to make any variation in technical specification to the equipment described, or to withdraw or replace products without prior notification or public announcement.

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Fax:





PEFY-P20VMS1-E

Indoor Unit

Ultra Thin Ceiling Concealed Ducted

The ultra thin ceiling concealed ducted indoor unit offers increased flexibility and is particularly suitable for places where low noise operation is desired from a slimline body.

- **Ultra thin body - height of only 200mm**
- **Extremely quiet operation - as low as 22dBA**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**
- **Static Pressures of 5-50Pa**



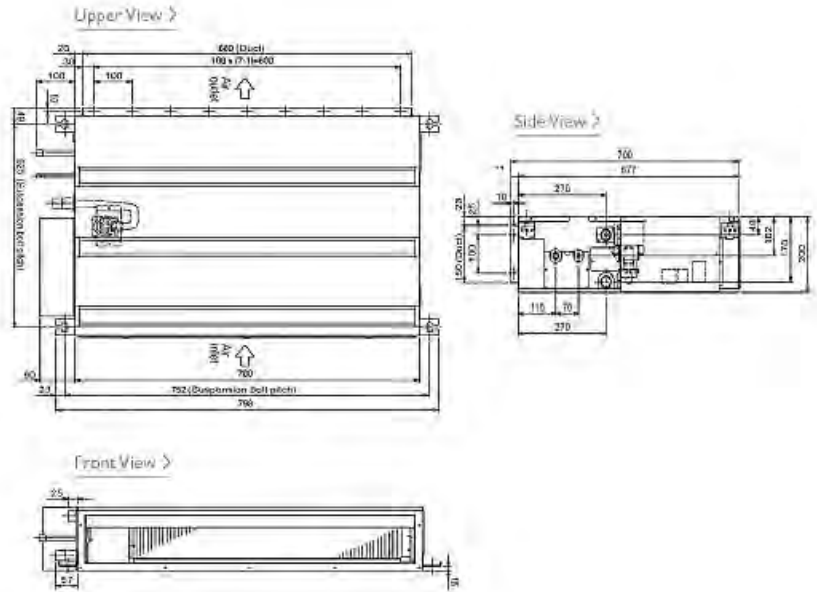
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PEFY-P20VMS1-E

Capacity (kW):	
Heating (Nominal)	2.5
Cooling (Nominal)	2.2
Heating (UK)	2.3
Cooling (UK)	2.0
R410A High Sensible Cooling (UK)	1.6
SHF R410A (UK)	0.85
SHF High Sensible R410A (UK)	1.0
Power Input (kW) Heating (Nominal)	0.03
Power Input (kW) Cooling (Nominal)	0.05
Airflow(m3/min) - Lo-Mi-Hi	5.5-6.5-8
External Static Pressure Pa - Lo-Mi-Hi	5-35-50
Noise (dBA) - Lo-Mi-Hi	23-25-29
Width - mm	790
Depth - mm	700
Height - mm	200
Weight - kg	19
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.36
Running Current (A) - Cooling	0.47
Fuse Rating (BS88) - HRC (A)	6

PEFY-P20VMS1-E



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PEFY-P20VMA-E

Indoor Unit

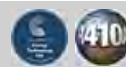
Ceiling Concealed Ducted

The PEFY-P-VMA-E ducted indoor unit is concealed within the ceiling space to allow unobtrusive air conditioning. Flexibility of duct layout allows airflow patterns to be arranged to suit any application.

- **Reduced height - now only 250mm**
- **Drain lift-pump included as standard**
- **Wider range of external static pressure settings**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**

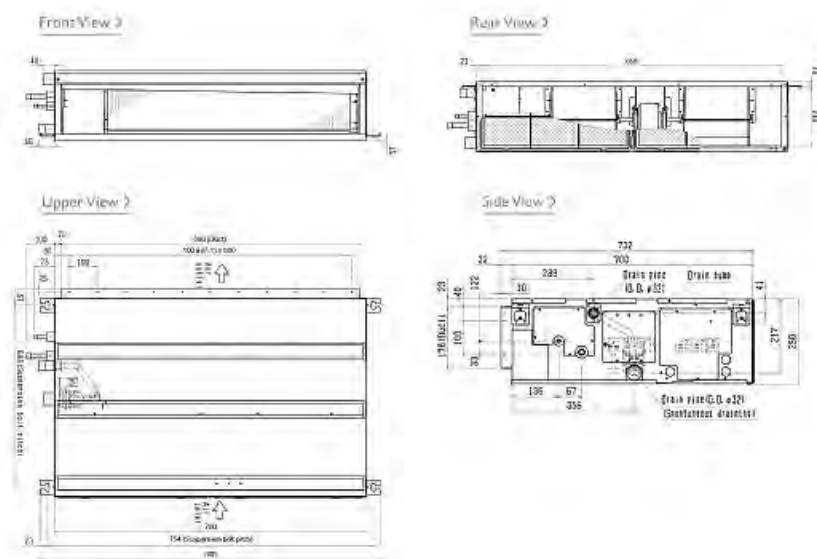


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PEFY-P20VMA-E	
Capacity (kW):	
Heating (Nominal)	2.5
Cooling (Nominal)	2.2
Heating (UK)	2.3
Cooling (UK)	2.1
R410A High Sensible Cooling (UK)	1.6
SHF R410A (UK)	0.9
SHF High Sensible R410A (UK)	1.0
Power Input (kW) Heating (Nominal)	0.04
Power Input (kW) Cooling (Nominal)	0.06
Airflow(m3/min) - Lo-Mi-Hi	6-7.5-8.5
External Static Pressure Pa - Lo-Mi-Hi	35-70-150
Noise (dBA) - Lo-Mi-Hi	23-25-26
Width - mm	700
Depth - mm	732
Height - mm	250
Weight - kg	23
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.42
Running Current (A) - Cooling	0.53
Fuse Rating (BS88) - HRC (A)	6

PEFY-P20VMA-E



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PEFY-P25VMS1-E

Indoor Unit

Ultra Thin Ceiling Concealed Ducted

The ultra thin ceiling concealed ducted indoor unit offers increased flexibility and is particularly suitable for places where low noise operation is desired from a slimline body.

- **Ultra thin body - height of only 200mm**
- **Extremely quiet operation - as low as 22dBA**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**
- **Static Pressures of 5-50Pa**



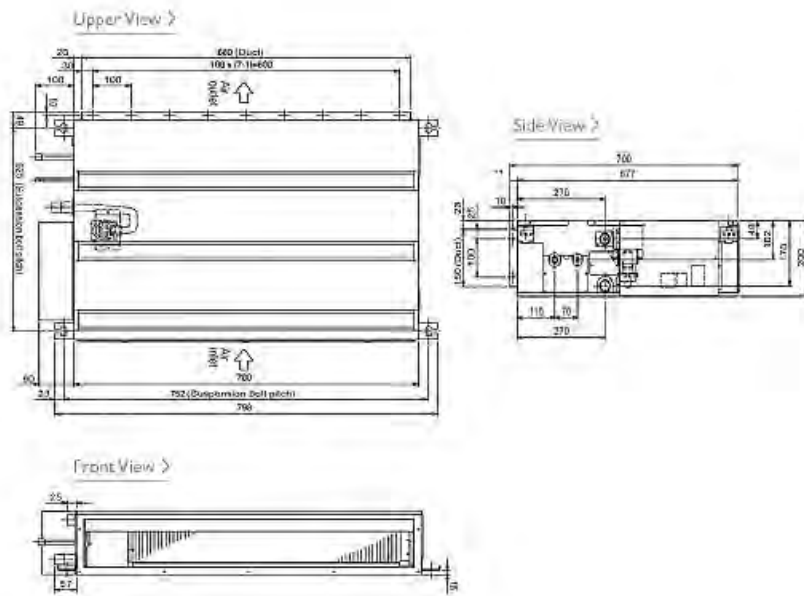
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PEFY-P25VMS1-E

Capacity (kW):	
Heating (Nominal)	3.2
Cooling (Nominal)	2.8
Heating (UK)	3.0
Cooling (UK)	2.5
R410A High Sensible Cooling (UK)	2.0
SHF R410A (UK)	0.84
SHF High Sensible R410A (UK)	0.9
Power Input (kW) Heating (Nominal)	0.04
Power Input (kW) Cooling (Nominal)	0.06
Airflow(m3/min) - Lo-Mi-Hi	5.5-7-9
External Static Pressure Pa - Lo-Mi-Hi	5-35-50
Noise (dBA) - Lo-Mi-Hi	24-26-30
Width - mm	790
Depth - mm	700
Height - mm	200
Weight - kg	19
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.39
Running Current (A) - Cooling	0.5
Fuse Rating (BS88) - HRC (A)	6

Dimensions

PEFY-P25VMS1-E



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Tel:
Fax:



PEFY-P25VMA-E

Indoor Unit

Ceiling Concealed Ducted

The PEFY-P-VMA-E ducted indoor unit is concealed within the ceiling space to allow unobtrusive air conditioning. Flexibility of duct layout allows airflow patterns to be arranged to suit any application.

- **Reduced height - now only 250mm**
- **Drain lift-pump included as standard**
- **Wider range of external static pressure settings**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**



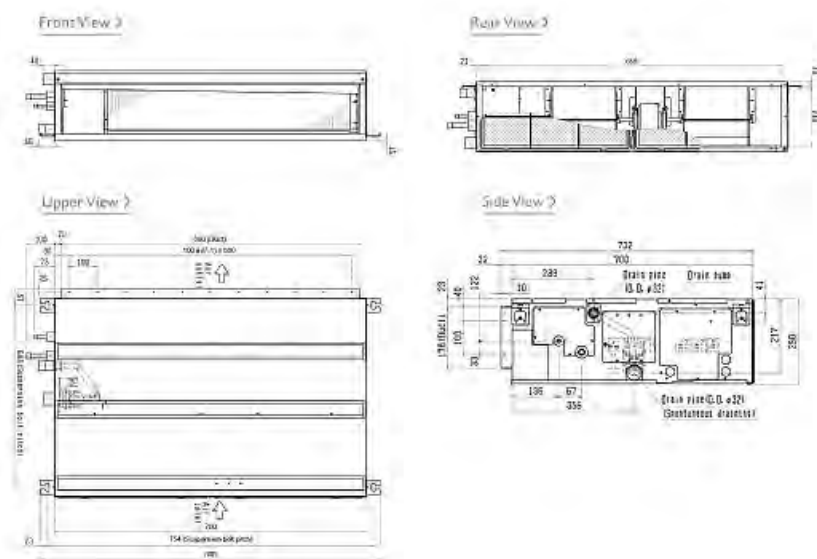
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PEFY-P25VMA-E	
Capacity (kW):	
Heating (Nominal)	3.2
Cooling (Nominal)	2.8
Heating (UK)	3.0
Cooling (UK)	2.6
R410A High Sensible Cooling (UK)	2.0
SHF R410A (UK)	0.81
SHF High Sensible R410A (UK)	0.9
Power Input (kW) Heating (Nominal)	0.04
Power Input (kW) Cooling (Nominal)	0.06
Airflow(m3/min) - Lo-Mi-Hi	6-7.5-8.5
External Static Pressure Pa - Lo-Mi-Hi	35-70-150
Noise (dBA) - Lo-Mi-Hi	23-25-26
Width - mm	700
Depth - mm	732
Height - mm	250
Weight - kg	23
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.42
Running Current (A) - Cooling	0.53
Fuse Rating (BS88) - HRC (A)	6

Dimensions

PEFY-P25VMA-E



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Fax:



PEFY-P32VMS1-E

Indoor Unit

Ultra Thin Ceiling Concealed Ducted

The ultra thin ceiling concealed ducted indoor unit offers increased flexibility and is particularly suitable for places where low noise operation is desired from a slimline body.

- **Ultra thin body - height of only 200mm**
- **Extremely quiet operation - as low as 22dBA**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**
- **Static Pressures of 5-50Pa**



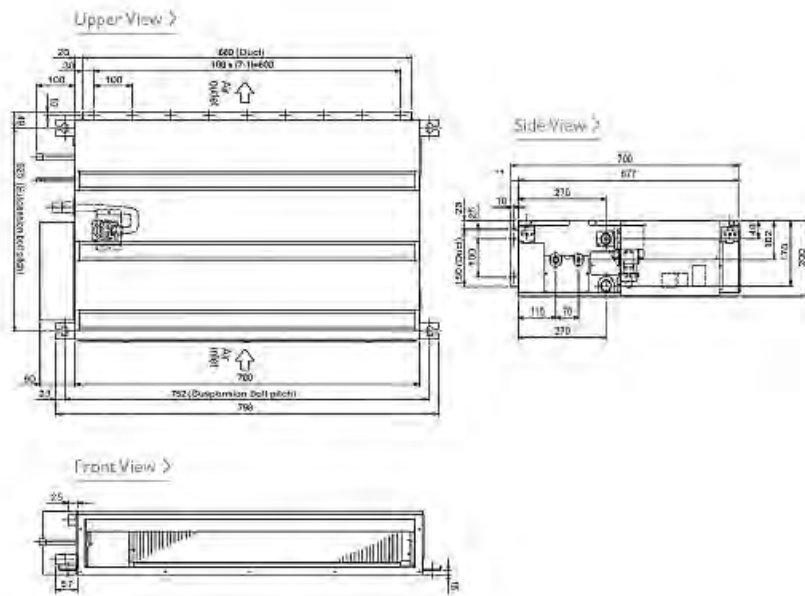
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Product Details

PEFY-P32VMS1-E	
Capacity (kW):	
Heating (Nominal)	4.0
Cooling (Nominal)	3.6
Heating (UK)	3.7
Cooling (UK)	3.2
R410A High Sensible Cooling (UK)	2.6
SHF R410A (UK)	0.78
SHF High Sensible R410A (UK)	0.85
Power Input (kW) Heating (Nominal)	0.05
Power Input (kW) Cooling (Nominal)	0.07
Airflow(m3/min) - Lo-Mi-Hi	6-8-10
External Static Pressure Pa - Lo-Mi-Hi	5-35-50
Noise (dBA) - Lo-Mi-Hi	24-27-32
Width - mm	790
Depth - mm	700
Height - mm	200
Weight - kg	20
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.39
Running Current (A) - Cooling	0.5
Fuse Rating (BS88) - HRC (A)	6

Dimensions

PEFY-P32VMS1-E



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PEFY-P32VMA-E

Indoor Unit

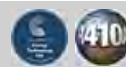
Ceiling Concealed Ducted

The PEFY-P-VMA-E ducted indoor unit is concealed within the ceiling space to allow unobtrusive air conditioning. Flexibility of duct layout allows airflow patterns to be arranged to suit any application.

- **Reduced height - now only 250mm**
- **Drain lift-pump included as standard**
- **Wider range of external static pressure settings**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**



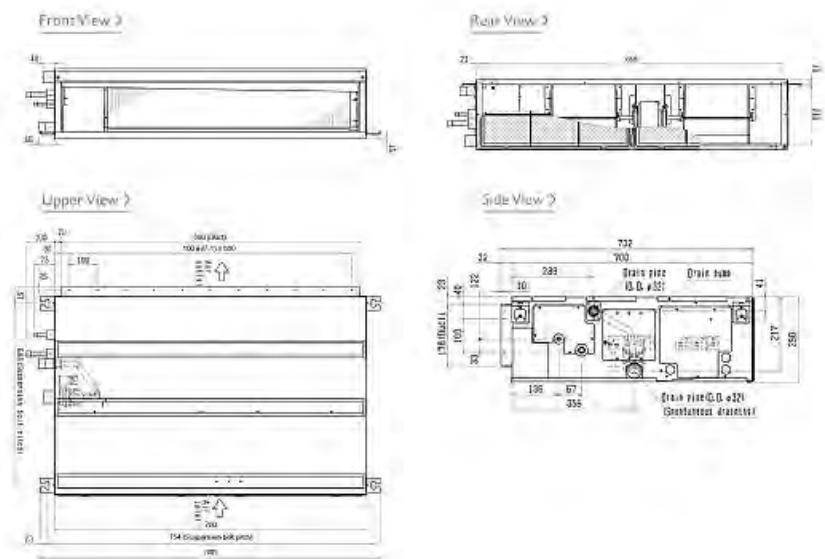
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PEFY-P32VMA-E	
Capacity (kW):	
Heating (Nominal)	4.0
Cooling (Nominal)	3.6
Heating (UK)	3.7
Cooling (UK)	3.4
R410A High Sensible Cooling (UK)	2.6
SHF R410A (UK)	0.74
SHF High Sensible R410A (UK)	0.85
Power Input (kW) Heating (Nominal)	0.05
Power Input (kW) Cooling (Nominal)	0.07
Airflow(m3/min) - Lo-Mi-Hi	7.5-9-10.5
External Static Pressure Pa - Lo-Mi-Hi	35-70-150
Noise (dBA) - Lo-Mi-Hi	23-26-29
Width - mm	700
Depth - mm	732
Height - mm	250
Weight - kg	23
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.44
Running Current (A) - Cooling	0.55
Fuse Rating (BS88) - HRC (A)	6

Dimensions

PEFY-P32VMA-E



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PEFY-P40VMA-E

Indoor Unit

Ceiling Concealed Ducted

The PEFY-P-VMA-E ducted indoor unit is concealed within the ceiling space to allow unobtrusive air conditioning. Flexibility of duct layout allows airflow patterns to be arranged to suit any application.

- **Reduced height - now only 250mm**
- **Drain lift-pump included as standard**
- **Wider range of external static pressure settings**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**



Pictures not to scale

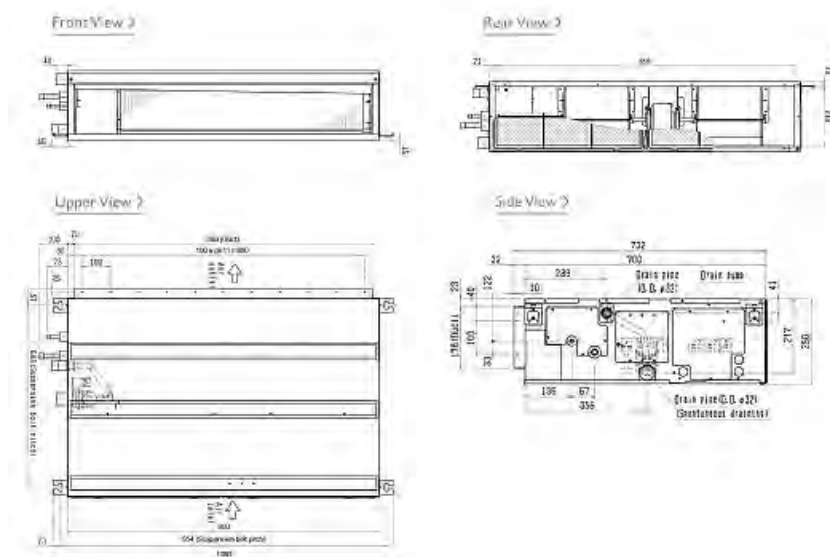


Product Details

PEFY-P40VMA-E	
Capacity (kW):	
Heating (Nominal)	5.0
Cooling (Nominal)	4.5
Heating (UK)	4.6
Cooling (UK)	4.3
R410A High Sensible Cooling (UK)	3.3
SHF R410A (UK)	0.79
SHF High Sensible R410A (UK)	0.91
Power Input (kW) Heating (Nominal)	0.07
Power Input (kW) Cooling (Nominal)	0.09
Airflow(m3/min) - Lo-Mi-Hi	10-12-14
External Static Pressure Pa - Lo-Mi-Hi	35-70-150
Noise (dBA) - Lo-Mi-Hi	23-27-30
Width - mm	900
Depth - mm	732
Height - mm	250
Weight - kg	26
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.53
Running Current (A) - Cooling	0.64
Fuse Rating (BS88) - HRC (A)	6

Dimensions

PEFY-P40VMA-E



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PEFY-P50VMA-E

Indoor Unit

Ceiling Concealed Ducted

The PEFY-P-VMA-E ducted indoor unit is concealed within the ceiling space to allow unobtrusive air conditioning. Flexibility of duct layout allows airflow patterns to be arranged to suit any application.

- **Reduced height - now only 250mm**
- **Drain lift-pump included as standard**
- **Wider range of external static pressure settings**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**



Pictures not to scale

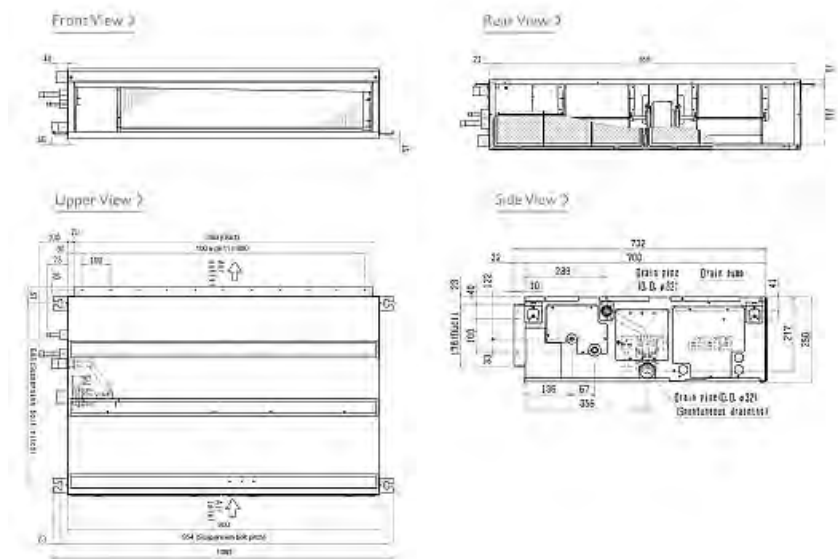


Product Details

PEFY-P50VMA-E	
Capacity (kW):	
Heating (Nominal)	6.3
Cooling (Nominal)	5.6
Heating (UK)	5.8
Cooling (UK)	5.3
R410A High Sensible Cooling (UK)	4.1
SHF R410A (UK)	0.79
SHF High Sensible R410A (UK)	0.88
Power Input (kW) Heating (Nominal)	0.09
Power Input (kW) Cooling (Nominal)	0.11
Airflow(m3/min) - Lo-Mi-Hi	12-14.5-17
External Static Pressure Pa - Lo-Mi-Hi	35-70-150
Noise (dBA) - Lo-Mi-Hi	25-29-32
Width - mm	900
Depth - mm	732
Height - mm	250
Weight - kg	26
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.63
Running Current (A) - Cooling	0.74
Fuse Rating (BS88) - HRC (A)	6

Dimensions

PEFY-P50VMA-E



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PEFY-P63VMA-E

Indoor Unit

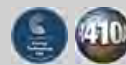
Ceiling Concealed Ducted

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- **Reduced height - now only 250mm**
- **Drain lift-pump included as standard**
- **Wider range of external static pressure settings**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**



Pictures not to scale

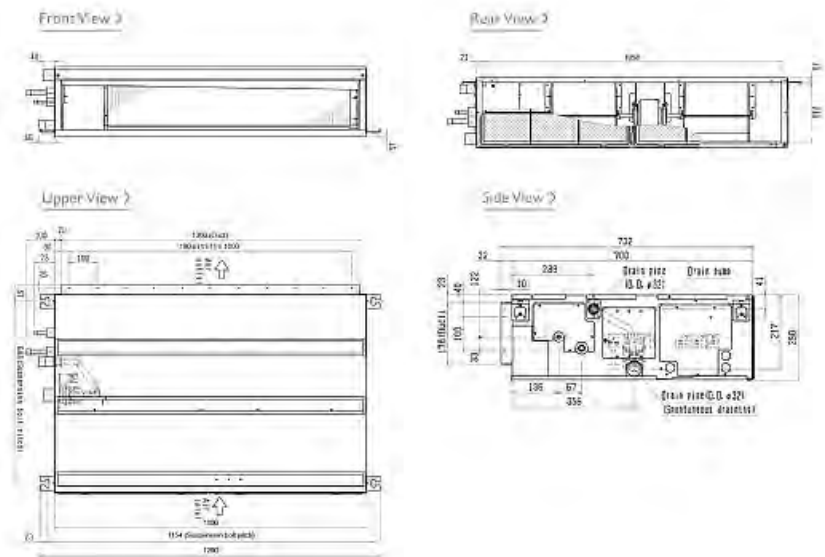


Product Details

PEFY-P63VMA-E	
Capacity (kW):	
Heating (Nominal)	8.0
Cooling (Nominal)	7.1
Heating (UK)	7.4
Cooling (UK)	6.7
R410A High Sensible Cooling (UK)	5.2
SHF R410A (UK)	0.78
SHF High Sensible R410A (UK)	0.87
Power Input (kW) Heating (Nominal)	0.1
Power Input (kW) Cooling (Nominal)	0.12
Airflow(m3/min) - Lo-Mi-Hi	13.5-16-19
External Static Pressure Pa - Lo-Mi-Hi	35-70-150
Noise (dBA) - Lo-Mi-Hi	25-29-33
Width - mm	1100
Depth - mm	732
Height - mm	250
Weight - kg	32
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.9
Running Current (A) - Cooling	1.01
Fuse Rating (BS88) - HRC (A)	6

Dimensions

PEFY-P63VMA-E



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PFFY-P50VLRMM-E

Indoor Unit

Floor Standing Concealed

A compact concealed unit providing simple, effective air conditioning in perimeter zones. The unit is easy to install and at only 220mm deep offers an unobtrusive method of delivering highly efficient air-conditioning performance.

- **3 Static Pressure settings (20/40/60Pa) - ideal for ducting in the perimeter zone**
- **Concealed unit for hidden installation, ideal for hotels**
- **Reduced noise levels compared to PFFY-P-VLRM-E version**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**



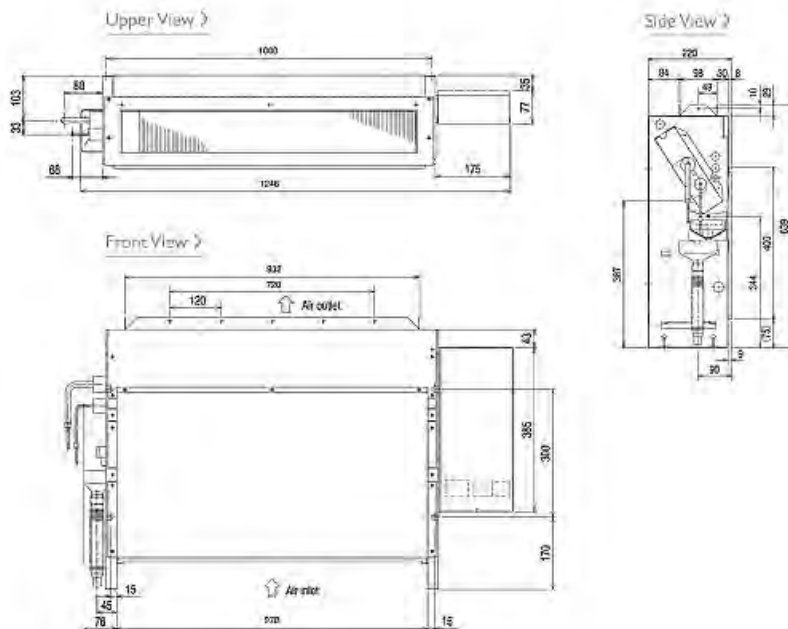
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PFFY-P50VLRMM-E	
Capacity (kW):	
Heating (Nominal)	6.3
Cooling (Nominal)	5.6
Heating (UK)	5.8
Cooling (UK)	5.0
R410A High Sensible Cooling (UK)	4.1
SHF R410A (UK)	0.76
SHF High Sensible R410A (UK)	0.8
Power Input (kW) Heating (Nominal)	0.05
Power Input (kW) Cooling (Nominal)	0.05
Airflow(m3/min) - Lo-Mi-Hi	10-12-14
External Static Pressure Pa - Lo-Mi-Hi	20-40-60
Noise (dBA) - Lo-Mi-Hi	32-37-41
Width - mm	1246
Depth - mm	220
Height - mm	639
Weight - kg	25
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.48
Running Current (A) - Cooling	0.48
Fuse Rating (BS88) - HRC (A)	6

Dimensions

PFFY-P50VLRMM-E



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PFFY-P40VLRMM-E

Indoor Unit

Floor Standing Concealed

A compact concealed unit providing simple, effective air conditioning in perimeter zones. The unit is easy to install and at only 220mm deep offers an unobtrusive method of delivering highly efficient air-conditioning performance.

- **3 Static Pressure settings (20/40/60Pa) - ideal for ducting in the perimeter zone**
- **Concealed unit for hidden installation, ideal for hotels**
- **Reduced noise levels compared to PFFY-P-VLRM-E version**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**



Pictures not to scale

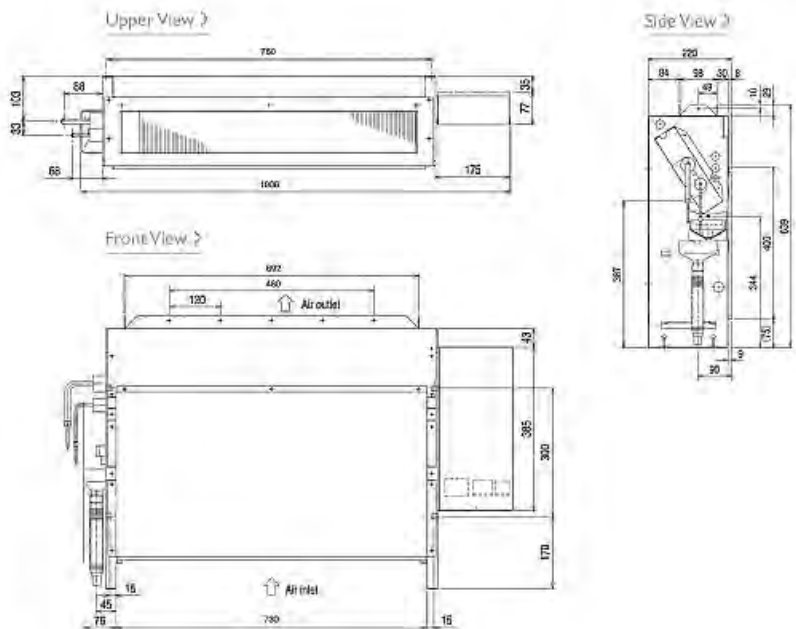


Product Details

PFFY-P40VLRMM-E	
Capacity (kW):	
Heating (Nominal)	5.0
Cooling (Nominal)	4.5
Heating (UK)	4.6
Cooling (UK)	4.0
R410A High Sensible Cooling (UK)	3.3
SHF R410A (UK)	0.75
SHF High Sensible R410A (UK)	0.79
Power Input (kW) Heating (Nominal)	0.05
Power Input (kW) Cooling (Nominal)	0.05
Airflow(m3/min) - Lo-Mi-Hi	8-9.5-11
External Static Pressure Pa - Lo-Mi-Hi	20-40-60
Noise (dBA) - Lo-Mi-Hi	30-36-40
Width - mm	1006
Depth - mm	220
Height - mm	639
Weight - kg	21
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.43
Running Current (A) - Cooling	0.43
Fuse Rating (BS88) - HRC (A)	6

Dimensions

PFFY-P40VLRMM-E



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PFFY-P32VLRMM-E

Indoor Unit

Floor Standing Concealed

A compact concealed unit providing simple, effective air conditioning in perimeter zones. The unit is easy to install and at only 220mm deep offers an unobtrusive method of delivering highly efficient air-conditioning performance.

- **3 Static Pressure settings (20/40/60Pa) - ideal for ducting in the perimeter zone**
- **Concealed unit for hidden installation, ideal for hotels**
- **Reduced noise levels compared to PFFY-P-VLRM-E version**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**



Pictures not to scale

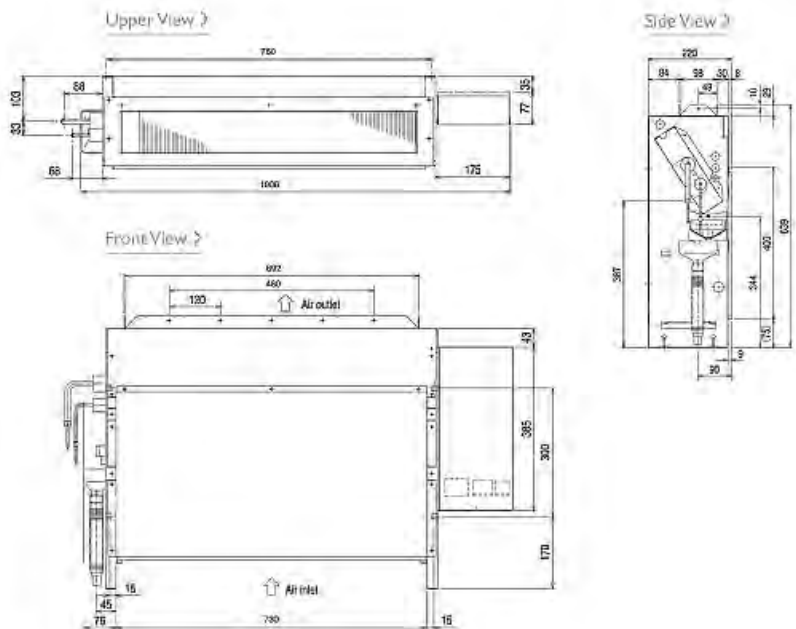


PFFY-P32VLRMM-E

Capacity (kW):	
Heating (Nominal)	4.0
Cooling (Nominal)	3.6
Heating (UK)	3.7
Cooling (UK)	3.2
R410A High Sensible Cooling (UK)	2.6
SHF R410A (UK)	0.75
SHF High Sensible R410A (UK)	0.81
Power Input (kW) Heating (Nominal)	0.04
Power Input (kW) Cooling (Nominal)	0.04
Airflow(m3/min) - Lo-Mi-Hi	6.5-7.5-9
External Static Pressure Pa - Lo-Mi-Hi	20-40-60
Noise (dBA) - Lo-Mi-Hi	27-32-37
Width - mm	1006
Depth - mm	220
Height - mm	639
Weight - kg	20
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.38
Running Current (A) - Cooling	0.38
Fuse Rating (BS88) - HRC (A)	6

Dimensions

PFFY-P32VLRMM-E



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PFFY-P25VLRMM-E

Indoor Unit

Floor Standing Concealed

A compact concealed unit providing simple, effective air conditioning in perimeter zones. The unit is easy to install and at only 220mm deep offers an unobtrusive method of delivering highly efficient air-conditioning performance.

- **3 Static Pressure settings (20/40/60Pa) - ideal for ducting in the perimeter zone**
- **Concealed unit for hidden installation, ideal for hotels**
- **Reduced noise levels compared to PFFY-P-VLRM-E version**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**



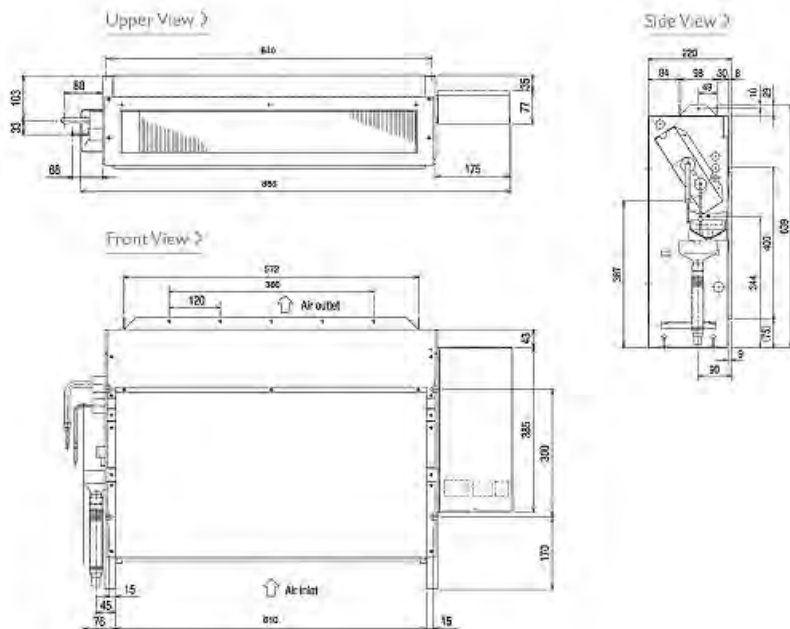
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PFFY-P25VLRMM-E	
Capacity (kW):	
Heating (Nominal)	3.2
Cooling (Nominal)	2.8
Heating (UK)	3.0
Cooling (UK)	2.5
R410A High Sensible Cooling (UK)	2.0
SHF R410A (UK)	0.76
SHF High Sensible R410A (UK)	0.8
Power Input (kW) Heating (Nominal)	0.04
Power Input (kW) Cooling (Nominal)	0.04
Airflow(m3/min) - Lo-Mi1-Mi2	4.5-5.5-6.5
External Static Pressure Pa - Lo-Mi-Hi	20-40-60
Noise (dBA) - Lo-Mi1-Mi2	31-36-40
Width - mm	886
Depth - mm	220
Height - mm	639
Weight - kg	18.5
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.34
Running Current (A) - Cooling	0.34
Fuse Rating (BS88) - HRC (A)	6

Dimensions

PFFY-P25VLRMM-E



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PFFY-P20VLRMM-E

Indoor Unit

Floor Standing Concealed

A compact concealed unit providing simple, effective air conditioning in perimeter zones. The unit is easy to install and at only 220mm deep offers an unobtrusive method of delivering highly efficient air-conditioning performance.

- **3 Static Pressure settings (20/40/60Pa) - ideal for ducting in the perimeter zone**
- **Concealed unit for hidden installation, ideal for hotels**
- **Reduced noise levels compared to PFFY-P-VLRM-E version**
- **Cooling operation set temperature can be set down to 14°C db when used with R410A**



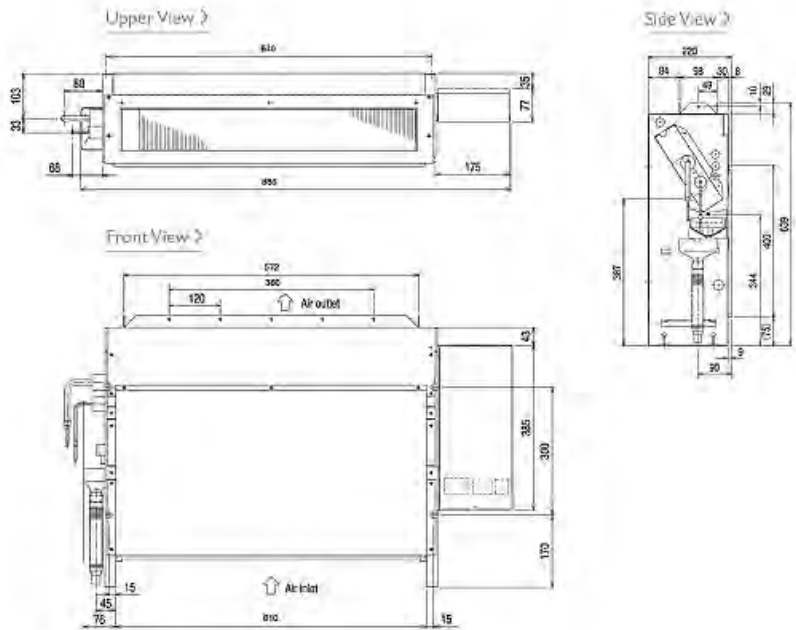
Pictures not to scale



PFFY-P20VLRMM-E

Capacity (kW):	
Heating (Nominal)	2.5
Cooling (Nominal)	2.2
Heating (UK)	2.3
Cooling (UK)	2.0
R410A High Sensible Cooling (UK)	1.6
SHF R410A (UK)	0.8
SHF High Sensible R410A (UK)	0.88
Power Input (kW) Heating (Nominal)	0.04
Power Input (kW) Cooling (Nominal)	0.04
Airflow(m3/min) - Lo-Mi-Hi	4.5-5.5-6.5
External Static Pressure Pa - Lo-Mi-Hi	20-40-60
Noise (dBA) - Lo-Mi-Hi	31-36-40
Width - mm	886
Depth - mm	220
Height - mm	639
Weight - kg	18.5
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A) - Heating	0.34
Running Current (A) - Cooling	0.34
Fuse Rating (BS88) - HRC (A)	6

PFFY-P20VLRMM-E



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Air Conditioning

Product Information

PURY-EP250YLM-A1
Heat Recovery Outdoor Unit

Making a
World of
Difference

CITY MULTI



Throughout the year, many buildings require cooling in some areas and heating in others - even in adjacent rooms. The outstanding City Multi High COP R2 system meets this requirement by distributing surplus heat from cooling operations (and vice versa) to rooms where it is needed. This efficiency can result in energy savings of up to 30% over conventional systems.

Key Features

- Unique 2-pipe technology means minimal disruption, quicker installation and less connections than 3 pipe equivalents
- Designed from day 1 for seasonal efficiency
- Flat tube aluminium micro-channel heat exchanger protected with a sacrificial zinc coating - a world's first in VRF providing higher heat transfer, improved efficiency and reduced weight, size and refrigerant volume
- Energy-saving inverter driven compressor with very low start currents
- Reduced standby power by up to 50% using induction heated compressor
- By changing the system evaporating temperature, there are various options for indoor units to offer increased air off temperatures, higher SHF and improved comfort with the benefit of energy saving
- A choice of standard reverse defrost or a continued supply of heating during the defrost cycle



Air Conditioning | Heating
Ventilation | Controls

Air Conditioning

Product Information

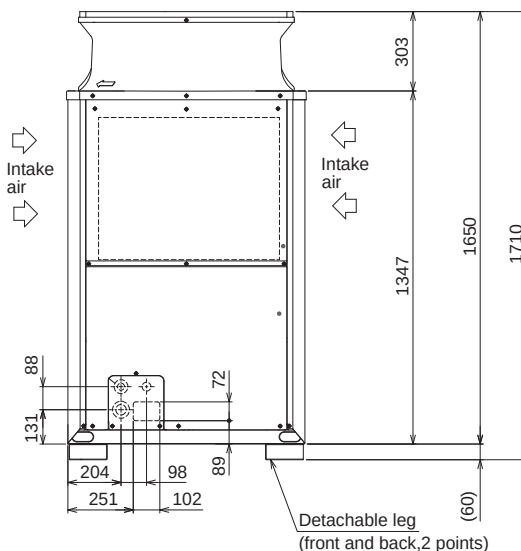
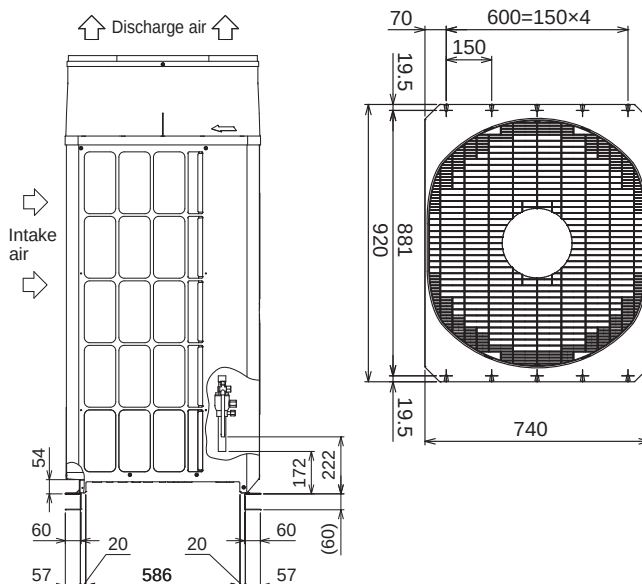
PURY-EP250YLM-A1 Heat Recovery Outdoor Unit

Making a
World of
Difference

PUHY - OUTDOOR UNIT		PURY-EP250YLM-A1
CAPACITY (kW)	Heating (nominal)	31.5
	Cooling (nominal)	28.0
	High Performance Heating (UK)	31.5
	COP Priority Heating (UK)	28.7
	Cooling (UK)	25.0
POWER INPUT (kW)	Heating (nominal)	8.45
	Cooling (nominal)	7.25
	High Performance Heating (UK)	10.58
	COP Priority Heating (UK)	8.40
	Cooling (UK)	3.11
COP / EER (nominal)		3.72 / 3.86
SCOP / SEER (system)		5.36 / 8.20
MAX No. OF CONNECTABLE INDOOR UNITS		25
MAX CONNECTABLE CAPACITY		50~150% OU Capacity
AIRFLOW (m³/min)	High	185
	Gas	22.2 (7/8")
PIPE SIZE mm (in)	Liquid	19.05 (3/4")
SOUND PRESSURE LEVEL (dBA)		60
SOUND POWER LEVEL (dBA)		83.5
WEIGHT (kg)		202
DIMENSIONS (mm)	Width	920
	Depth	740
	Height	1710
(1650mm without legs)		
ELECTRICAL SUPPLY*		380-415v, 50Hz
PHASE*		Three
STARTING CURRENT (A)*		8
NOMINAL SYSTEM RUNNING CURRENT (A)* Heating/Cooling [MAX]		13.0 / 11.2 [19.9]
GUARANTEED OPERATING RANGE (°C) Heating / Cooling		-20~-15.5 / -5~-46
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*		1 x 20
MAINS CABLE No. Cores*		4

Note: * A separate power supply is required for each module.

DIMENSIONS



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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning and heat pump systems contain fluorinated greenhouse gases R410A, R407C and R134a.



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to the environment

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Mitsubishi Electric
Living Environmental Systems UK

mitsubishielectric2

Effective as of April 2015

Air Conditioning

Product Information

PURY-EP300YLM-A1
Heat Recovery Outdoor Unit

Making a
World of
Difference

CITY MULTI



Throughout the year, many buildings require cooling in some areas and heating in others - even in adjacent rooms. The outstanding City Multi High COP R2 system meets this requirement by distributing surplus heat from cooling operations (and vice versa) to rooms where it is needed. This efficiency can result in energy savings of up to 30% over conventional systems.

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- Reduced standby power by up to 50% using induction heated compressor
- By changing the system evaporating temperature, there are various options for indoor units to offer increased air off temperatures, higher SHF and improved comfort with the benefit of energy saving
- A choice of standard reverse defrost or a continued supply of heating during the defrost cycle



Air Conditioning | Heating
Ventilation | Controls

Air Conditioning

Product Information

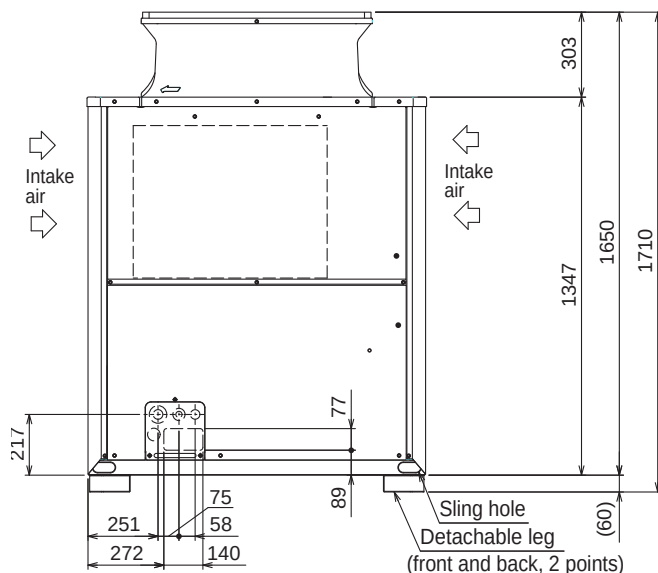
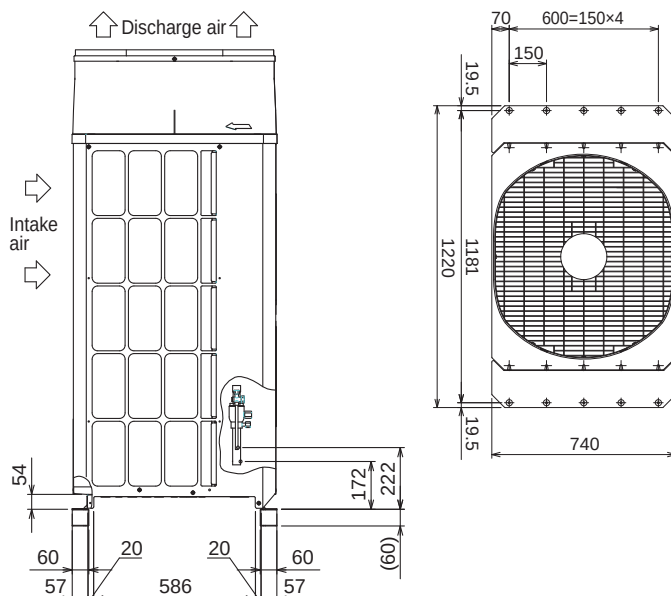
PURY-EP300YLM-A1 Heat Recovery Outdoor Unit

Making a
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PUHY - OUTDOOR UNIT		PURY-EP300YLM-A1
CAPACITY (kW)	Heating (nominal)	37.5
	Cooling (nominal)	33.5
	High Performance Heating (UK)	35.6
	COP Priority Heating (UK)	32.3
	Cooling (UK)	29.8
POWER INPUT (kW)	Heating (nominal)	9.97
	Cooling (nominal)	9.20
	High Performance Heating (UK)	13.30
	COP Priority Heating (UK)	9.68
	Cooling (UK)	4.63
COP / EER (nominal)		3.76 / 3.74
SCOP / SEER (system)		5.41 / 6.79
MAX No. OF CONNECTABLE INDOOR UNITS		30
MAX CONNECTABLE CAPACITY		50~150% OU Capacity
AIRFLOW (m³/min)	High	230
	Gas	22.2 (7/8")
PIPE SIZE mm (in)	Gas	22.2 (7/8")
	Liquid	19.05 (3/4")
SOUND PRESSURE LEVEL (dBA)		62.5
SOUND POWER LEVEL (dBA)		86
WEIGHT (kg)		244
DIMENSIONS (mm)		Width 1220
		Depth 740
		Height 1710
(1650mm without legs)		
ELECTRICAL SUPPLY*		380-415v, 50Hz
PHASE*		Three
STARTING CURRENT (A)*		8
NOMINAL SYSTEM RUNNING CURRENT (A)* Heating/Cooling [MAX]		15.4 / 14.2 [23.6]
GUARANTEED OPERATING RANGE (°C) Heating / Cooling		-20~-15.5 / -5~-46
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*		1 x 25
MAINS CABLE No. Cores*		4

Note: * A separate power supply is required for each module.

DIMENSIONS



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Air Conditioning

Product Information

PURY-EP350YLM-A1
Heat Recovery Outdoor Unit

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CITY MULTI



Throughout the year, many buildings require cooling in some areas and heating in others - even in adjacent rooms. The outstanding City Multi High COP R2 system meets this requirement by distributing surplus heat from cooling operations (and vice versa) to rooms where it is needed. This efficiency can result in energy savings of up to 30% over conventional systems.

Key Features

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- By changing the system evaporating temperature, there are various options for indoor units to offer increased air off temperatures, higher SHF and improved comfort with the benefit of energy saving
- A choice of standard reverse defrost or a continued supply of heating during the defrost cycle



Air Conditioning | Heating
Ventilation | Controls

Air Conditioning

Product Information

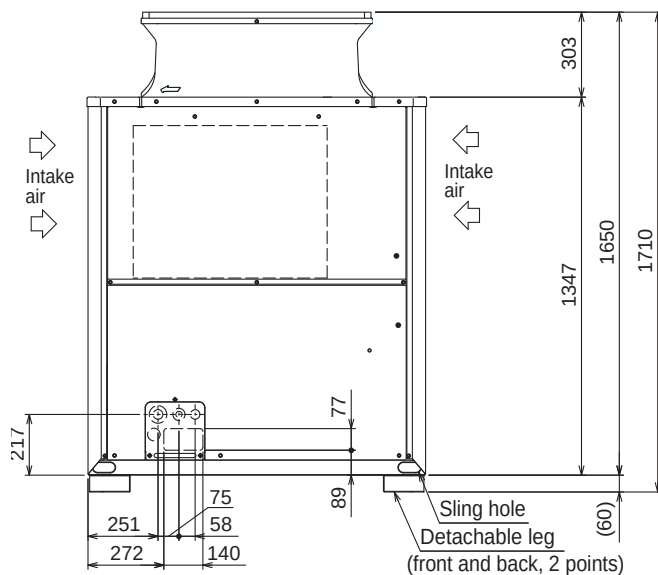
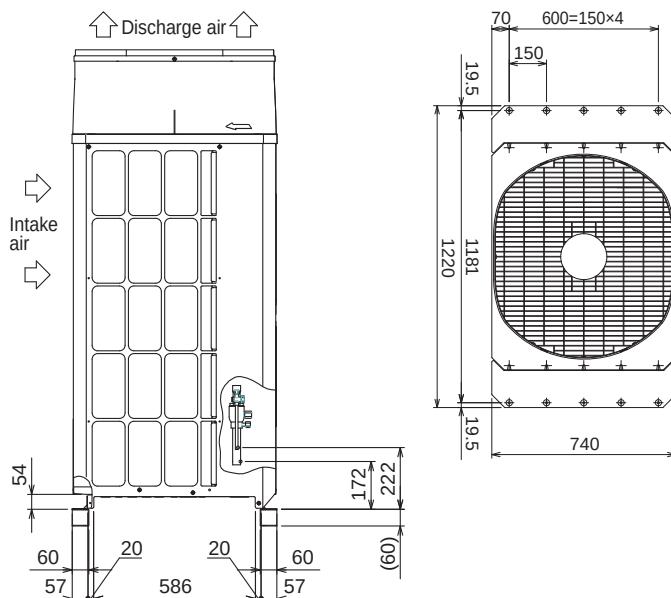
PURY-EP350YLM-A1 Heat Recovery Outdoor Unit

Making a
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Difference

PUHY - OUTDOOR UNIT		PURY-EP350YLM-A1
CAPACITY (kW)	Heating (nominal)	45.0
	Cooling (nominal)	40.0
	High Performance Heating (UK)	42.8
	COP Priority Heating (UK)	38.7
	Cooling (UK)	35.6
POWER INPUT (kW)	Heating (nominal)	12.93
	Cooling (nominal)	12.57
	High Performance Heating (UK)	17.25
	COP Priority Heating (UK)	12.56
	Cooling (UK)	5.94
COP / EER (nominal)		3.48 / 3.18
SCOP / SEER (system)		5.38 / 6.56
MAX No. OF CONNECTABLE INDOOR UNITS		35
MAX CONNECTABLE CAPACITY		50~150% OU Capacity
AIRFLOW (m³/min)	High	230
	Gas	28.56 (1-1/8")
PIPE SIZE mm (in)	Liquid	19.05 (3/4")
SOUND PRESSURE LEVEL (dBA)		62.5
SOUND POWER LEVEL (dBA)		86
WEIGHT (kg)		244
DIMENSIONS (mm)	Width	1220
	Depth	740
	Height	1710
(1650mm without legs)		
ELECTRICAL SUPPLY*		380-415v, 50Hz
PHASE*		Three
STARTING CURRENT (A)*		8
NOMINAL SYSTEM RUNNING CURRENT (A)* Heating/Cooling [MAX]		19.9 / 19.4 [30.6]
GUARANTEED OPERATING RANGE (°C) Heating / Cooling		-20~-15.5 / -5~-46
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*		1 x 32
MAINS CABLE No. Cores*		4

Note: * A separate power supply is required for each module.

DIMENSIONS



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Effective as of April 2015

Air Conditioning

Product Information

PURY-EP450YLM-A1
Heat Recovery Outdoor Unit

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CITY MULTI



Throughout the year, many buildings require cooling in some areas and heating in others - even in adjacent rooms. The outstanding City Multi High COP R2 system meets this requirement by distributing surplus heat from cooling operations (and vice versa) to rooms where it is needed. This efficiency can result in energy savings of up to 30% over conventional systems.

Key Features

- Unique 2-pipe technology means minimal disruption, quicker installation and less connections than 3 pipe equivalents
- Designed from day 1 for seasonal efficiency
- Flat tube aluminium micro-channel heat exchanger protected with a sacrificial zinc coating - a world's first in VRF providing higher heat transfer, improved efficiency and reduced weight, size and refrigerant volume
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- A choice of standard reverse defrost or a continued supply of heating during the defrost cycle



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Ventilation | Controls

Air Conditioning

Product Information

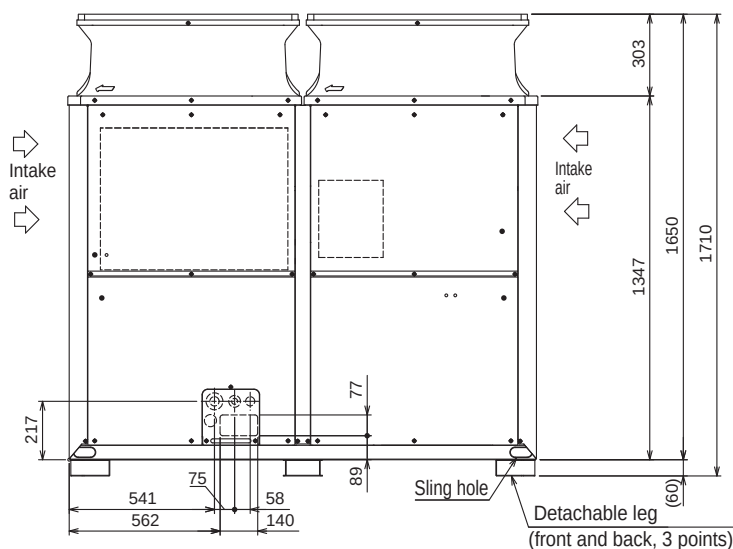
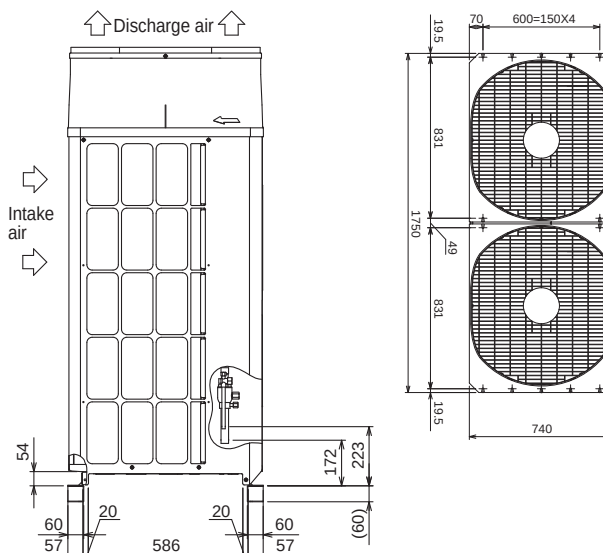
PURY-EP450YLM-A1 Heat Recovery Outdoor Unit

Making a
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Difference

PUHY - OUTDOOR UNIT		PURY-EP450YLM-A1
CAPACITY (kW)	Heating (nominal)	56.0
	Cooling (nominal)	50.0
	High Performance Heating (UK)	50.7
	COP Priority Heating (UK)	48.7
	Cooling (UK)	44.4
POWER INPUT (kW)	Heating (nominal)	15.86
	Cooling (nominal)	14.83
	High Performance Heating (UK)	18.10
	COP Priority Heating (UK)	14.50
	Cooling (UK)	6.94
COP / EER (nominal)		3.53 / 3.37
SCOP / SEER (system)		4.93 / 7.05
MAX No. OF CONNECTABLE INDOOR UNITS		45
MAX CONNECTABLE CAPACITY		50~150% OU Capacity
AIRFLOW (m³/min)	High	320
	Gas	28.58 (1-1/8")
PIPE SIZE mm (in)	Liquid	22.2 (7/8")
SOUND PRESSURE LEVEL (dBA)		62.5
SOUND POWER LEVEL (dBA)		86
WEIGHT (kg)		336
DIMENSIONS (mm)	Width	1750
	Depth	740
	Height	1710
(1650mm without legs)		
ELECTRICAL SUPPLY*		380-415v, 50Hz
PHASE*		Three
STARTING CURRENT (A)*		8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A)* Heating/Cooling [MAX]		24.5 / 22.9 [37.4]
GUARANTEED OPERATING RANGE (°C) Heating / Cooling		-20~-15.5 / -5~-46
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*		1 x 40
MAINS CABLE No. Cores*		4

Note: * A separate power supply is required for each module.

DIMENSIONS



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Effective as of April 2015

Air Conditioning

Product Information

PURY-EP500YLM-A1
Heat Recovery Outdoor Unit

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Ventilation | Controls

Air Conditioning

Product Information

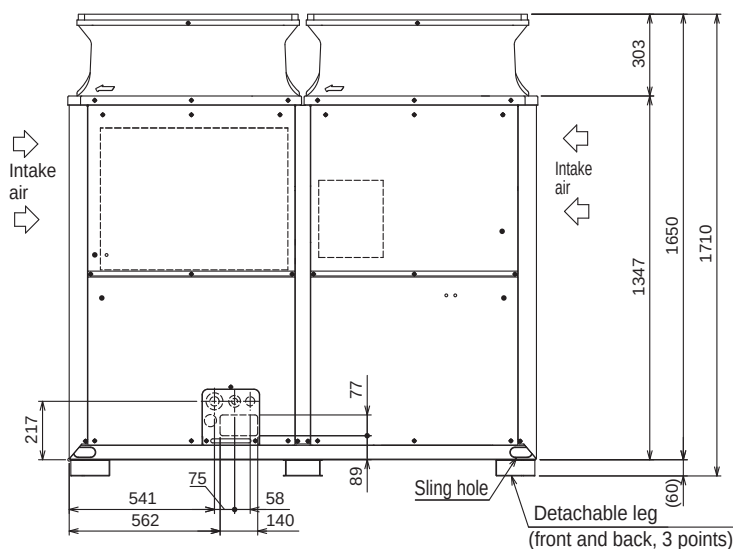
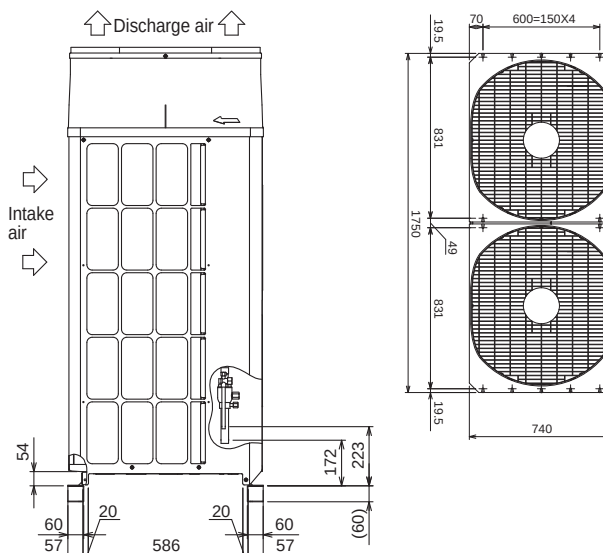
PURY-EP500YLM-A1 Heat Recovery Outdoor Unit

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Difference

PUHY - OUTDOOR UNIT		PURY-EP500YLM-A1
CAPACITY (kW)	Heating (nominal)	63.0
	Cooling (nominal)	56.0
	High Performance Heating (UK)	57.0
	COP Priority Heating (UK)	54.8
	Cooling (UK)	49.7
POWER INPUT (kW)	Heating (nominal)	19.54
	Cooling (nominal)	18.30
	High Performance Heating (UK)	22.30
	COP Priority Heating (UK)	17.86
	Cooling (UK)	7.85
COP / EER (nominal)		3.22 / 3.06
SCOP / SEER (system)		4.97 / 6.79
MAX No. OF CONNECTABLE INDOOR UNITS		50
MAX CONNECTABLE CAPACITY		50~150% OU Capacity
AIRFLOW (m³/min)	High	380
	Gas	28.58 (1-1/8")
PIPE SIZE mm (in)	Liquid	22.2 (7/8")
SOUND PRESSURE LEVEL (dBA)		63.5
SOUND POWER LEVEL (dBA)		87
WEIGHT (kg)		349
DIMENSIONS (mm)	Width	1750
	Depth	740
	Height	1710
(1650mm without legs)		
ELECTRICAL SUPPLY*		380-415v, 50Hz
PHASE*		Three
STARTING CURRENT (A)*		8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A)* Heating/Cooling [MAX]		30.2 / 28.2 [46.1]
GUARANTEED OPERATING RANGE (°C) Heating / Cooling		-20~-15.5 / -5~-46
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*		1 x 50
MAINS CABLE No. Cores*		4

Note: * A separate power supply is required for each module.

DIMENSIONS



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Effective as of April 2015

Air Conditioning

Product Information

PURY-EP550YSLM-A1
Heat Recovery Outdoor Unit

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CITY MULTI



Throughout the year, many buildings require cooling in some areas and heating in others - even in adjacent rooms. The outstanding City Multi High COP R2 system meets this requirement by distributing surplus heat from cooling operations (and vice versa) to rooms where it is needed. This efficiency can result in energy savings of up to 30% over conventional systems.

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Ventilation | Controls

Air Conditioning

Product Information

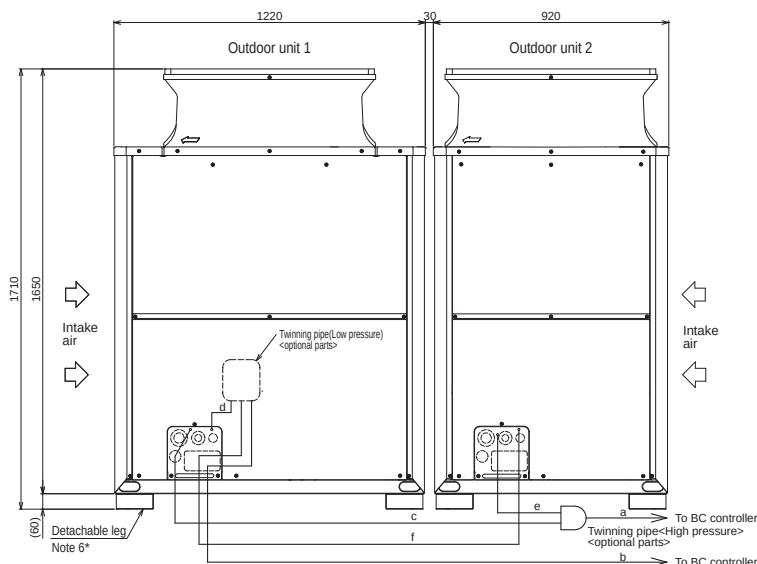
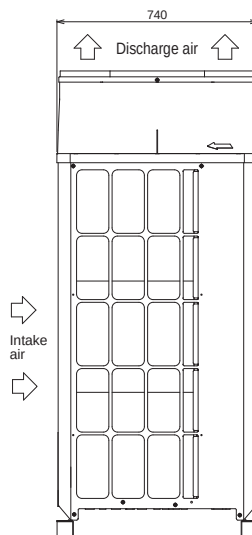
PURY-EP550YSLM-A1 Heat Recovery Outdoor Unit

Making a
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Difference

PUHY - OUTDOOR UNIT		PURY-EP550YSLM-A1
CAPACITY (kW)	Heating (nominal)	69.0
	Cooling (nominal)	63.0
	High Performance Heating (UK)	62.4
	COP Priority Heating (UK)	60.0
	Cooling (UK)	55.9
POWER INPUT (kW)	Heating (nominal)	18.44
	Cooling (nominal)	17.35
	High Performance Heating (UK)	21.05
	COP Priority Heating (UK)	16.86
	Cooling (UK)	8.49
COP / EER (nominal)		3.74 / 3.63
SCOP / SEER (system)		5.60 / 7.88
MAX No. OF CONNECTABLE INDOOR UNITS		50
MAX CONNECTABLE CAPACITY		50~150% OU Capacity
AIRFLOW (m³/min)	High	230 / 185
	Gas	28.58 (1-1/8")
PIPE SIZE mm (in)	Liquid	28.58 (1-1/8")
SOUND PRESSURE LEVEL (dBA)		64.5
SOUND POWER LEVEL (dBA)		88
WEIGHT (kg)		244 + 202
DIMENSIONS (mm)	Width	1220 + 920
	Depth	740
	Height	1710
(1650mm without legs)		
ELECTRICAL SUPPLY*		380-415v, 50Hz
PHASE*		Three
STARTING CURRENT (A)*		8 / 8
NOMINAL SYSTEM RUNNING CURRENT (A)* Heating/Cooling [MAX]		28.5 / 26.8 [23.6+19.9]
GUARANTEED OPERATING RANGE (°C) Heating / Cooling		-20~-15.5 / -5~-46
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*		1 x 25 / 1 x 20
MAINS CABLE No. Cores*		4

Note: * A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

DIMENSIONS



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Effective as of April 2015



CMB-P108V-GA

Master BC Controller

R410A

At the heart of both the R2 and WR2 Series, the BC Controller makes simultaneous heating and cooling possible. It has the inherent 'intelligence' to be the system's decision-maker. CMB-P-V-GA units are for use with PURY-(E)P200-650Y(S)HM-A & PQRY-P200-600Y(S)HM-A only.

- **Transfers energy around the system, drawing on energy from the heat source units/outdoor units**
- **Directing energy as requested by the individual indoor units**
- **Instructs the heat source unit/outdoor unit on the amount of refrigerant (liquid or gas) that is required to achieve the requested cooling or heating requirements**
- **Allows unique 2-pipe heat recovery**
- **HIC Circuit for improved efficiency**



Pictures not to scale

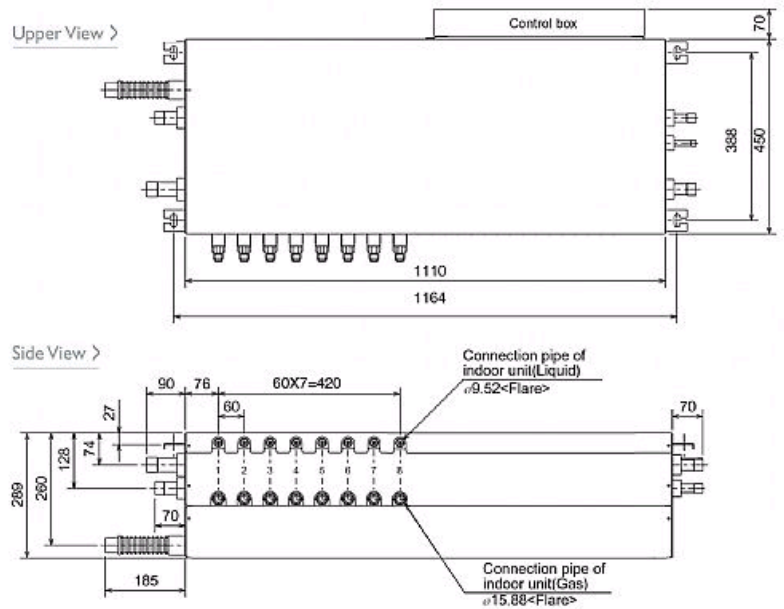


Product Details

CMB-P108V-GA	
Number of Connections	8
Power Input (kW) (Nominal)	0.161
Width - mm	1110
Depth - mm	450 + 70
Height - mm	289
Weight - kg	44
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A)	0.68
Fuse Rating (BS88) - HRC (A)	6

Dimensions

CMB-P108V-GA



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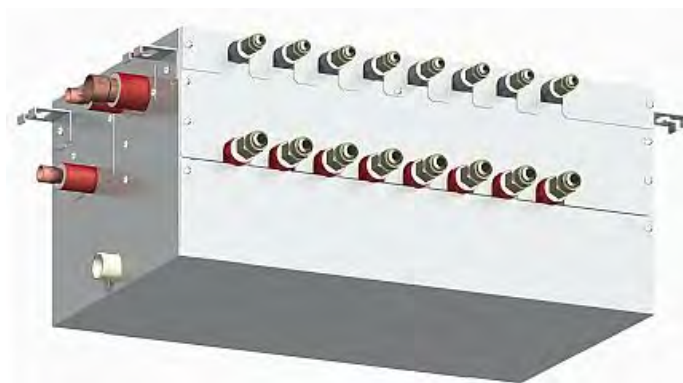
CMB-P108V-GB

Slave BC Controller

R410A

At the heart of both the R2 and WR2 Series, the BC Controller makes simultaneous heating and cooling possible. It has the inherent 'intelligence' to be the system's decision-maker.

- **Transfers energy around the system, drawing on energy from the heat source units/outdoor units**
- **Directing energy as requested by the individual indoor units**
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- **Allows unique 2-pipe heat recovery**
- **HIC Circuit for improved efficiency**



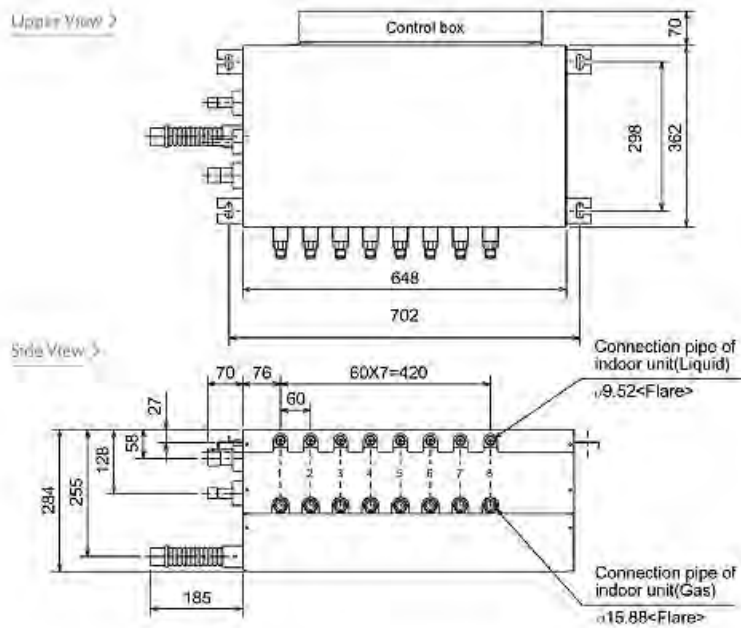
Pictures not to scale



CMB-P108V-GB	
Number of Connections	8
Power Input (kW) (Nominal)	0.151
Width - mm	648
Depth - mm	362 + 70
Height - mm	284
Weight - kg	32
Electrical Supply	220-240v, 50Hz
Phase	Single
Mains Cable No. Cores	3
Running Current (A)	0.63
Fuse Rating (BS88) - HRC (A)	6

Dimensions

CMB-P108V-GB



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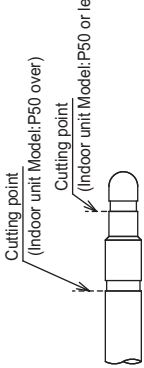
Tel:
Fax:

CMB-P108, 1010, 1013, 1016V-GA1

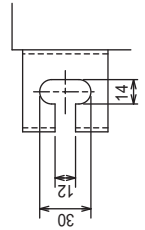
Unit : mm

- <Accessories>
- Refrigerant<Low pressure> conn. pipe...1pc.
 - Refrigerant<High pressure> conn. pipe...2pcs.
 - Drain hose I.D.32 (1-1/4").....1pc.
 - Hose band.....1pc.
 - Tie band.....1pc.

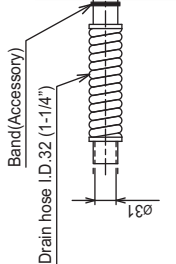
- Note 1. Suspension bolt(φ10), washer(M10), and nut(M10) prepare in the field.
2. Take notice of service space as follows.
(Please give attention not to occupy service space by letting ducts and pipes through.)
3. Please take service space for connection pipe of SUB BC CONTROLLER.
4. Install this product in a location where noise (refrigerant noise) emitted by the unit will not disturb the neighbors.
(For use in quiet environments with low background noise, position the BC CONTROLLER at least 5m away from any indoor units.)
5. Refer to the Installation Manual for refrigerant piping diameter size when connecting plural indoor units with 1 branch.



Detail of Z section



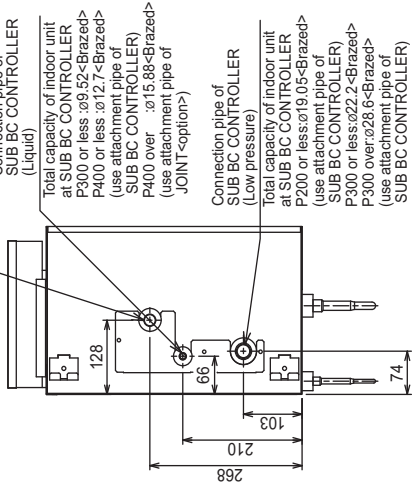
Detail of Y section



Detail of X section

Connection pipe of outdoor unit(High pressure)
P250,300,350:φ19.05<Brazed> (use attachment pipe)
P400,450,500:φ22.2 <Brazed>
P550,600,650:φ28.6 <Brazed> (use attachment pipe)

Drain pipe O.D.32 (1-1/4")

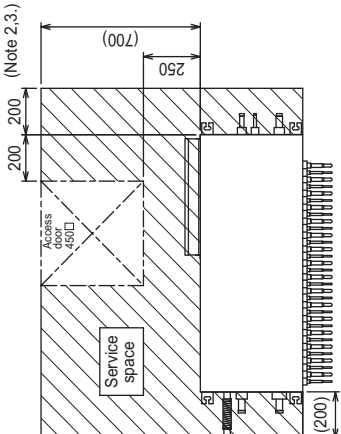


Connection pipe of outdoor unit (Low pressure)
P250,300:φ22.2<Brazed> (use attachment pipe)
P350,400,450,500,550,600,650:φ28.6<Brazed>

Connection pipe of indoor unit(Liquid)
Indoor unit model (Note 5.)
P50 or less:φ6.35<Brazed>
P50 over :φ9.52<Brazed>

Connection pipe of indoor unit(Gas)
Indoor unit model (Note 5.)
P50 or less:φ12.7<Brazed>
P50 over :φ15.88<Brazed>

	A	B
CMB-P108V-GA1	7	420
CMB-P1010V-GA1	9	540
CMB-P1013V-GA1	12	720
CMB-P1016V-GA1	15	900



Unit : mm

- <Accessories>
- Refrigerant<Low pressure> conn. pipe.....4pcs.
 - Refrigerant<High pressure> conn. pipe.....2pcs.
 - Refrigerant<Liquid> conn. pipe.....2pcs.
 - Drain hose ID 32 (1-1/4").....1pc.
 - Hose band.....1pc.
 - Tie band.....1pc.

Note1.Suspension bolt($\varnothing 10$),washer(M10),and nut(M10)

d.

2. Take notice of service space as follows.

(Please give attention not to occupy service

space by letting ducts and pipes through.)

3. Can't use singleness. (MAIN BC CONTROLLER is necessary.)

4. Install this product in a location where noise (refrigerator compressor) will not be a problem.

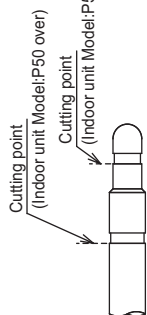
emitted by the unit will not disturb the neighbors.

(For use in quiet environments with low background noise.position

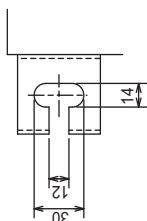
the BC CONTROLLER at least 5m away from any indoor units.)

5. Refer to the Installation Manual for refrigerant piping diameter size

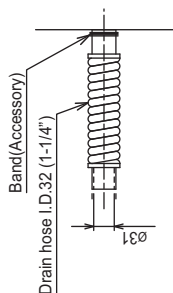
when connecting plural indoor units with 1 branch



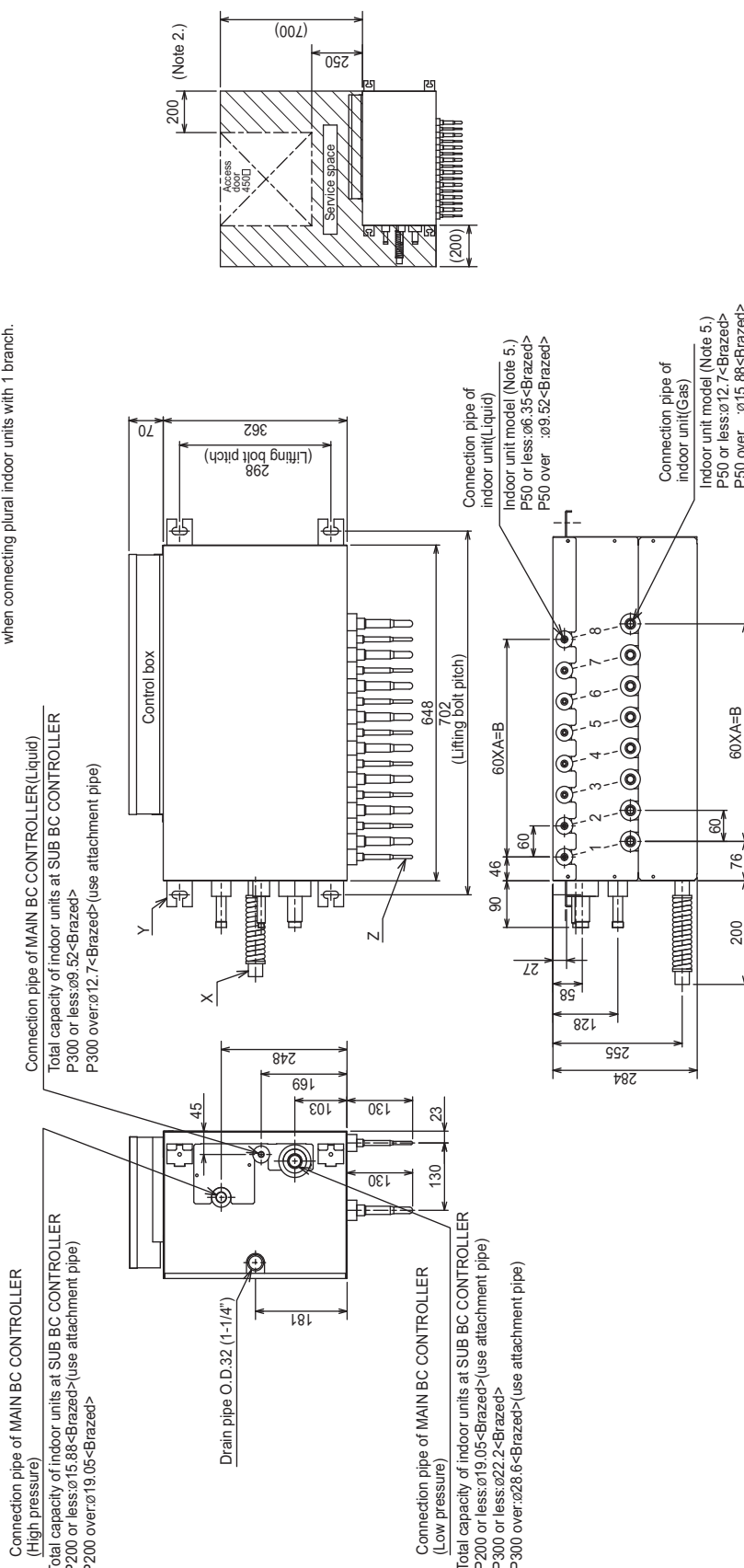
Detail of Z section



Detail of Y section



Detail of X section



	A	B
CMB-P104V-GB1	3	180
CMB-P108V-GB1	7	420



The AE-200E is a large 10.4" touch screen centralised controller with simple intuitive operation and control over M-NET network.

Key Features

- 10.4" touch screen
- Monitor and control up to 50 indoor units (or up to 200 indoor units using EW-50A in combination with EW-50E expansion adapters)
- Monitor and control general equipment
- Energy monitoring, load shedding
- Web based controller
- On-board 230v AC power supply is also included



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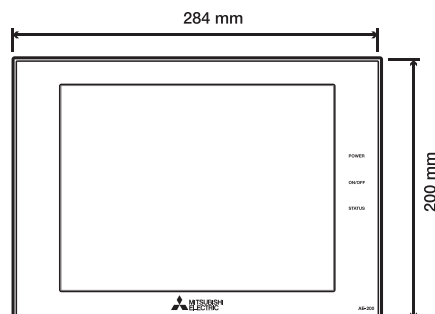
CENTRALISED CONTROLLER		AE-200E
Description	10.4" Touch Screen Controller	
Connect to	M-NET Network	
Max Number of Units	50 and 4 Pulse Meters	
Compatibility	M Series, Mr Slim, City Multi, Lossnay and Ecodan CAHV	
Power Supply	220-240v, 50Hz	
Dimensions (mm) (WxDxH)	283 x 64 x 199	
Control	On/Off	✓
	Mode	✓
	Setpoint	✓
	Fan Speed	✓
	Air Direction	✓
	Permit/Prohibit	✓
	Filter Sign	✓
Monitor	On/Off	✓
	Mode	✓
	Setpoint	✓
	Fan Speed	✓
	Air Direction	✓
	Permit/Prohibit	✓
	Filter Sign	✓
	Fault Codes	✓
	Room Temperature	✓
Weekly Schedule	✓	
Annual Schedule	✓	
Night Set Back	✓	
Web Pages	✓	
Optimised Start	✓	
Automatic Setpoint Adjustment	✓	
Load Shedding	✓	
Occupied / Unoccupied Settings Reset	x	
Remote Monitoring with M2M	✓	
Simple Energy Monitoring	✓	
Advanced Energy Monitoring	✓	

Note: The EW-50A expansion controller cannot be used with BEMS interfaces.

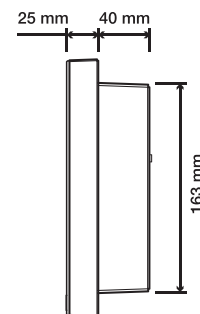
✓ = Yes, X = No, - = Not applicable.

DIMENSIONS

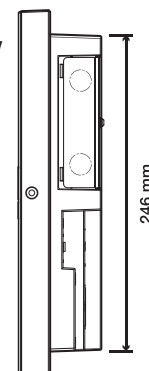
Front View



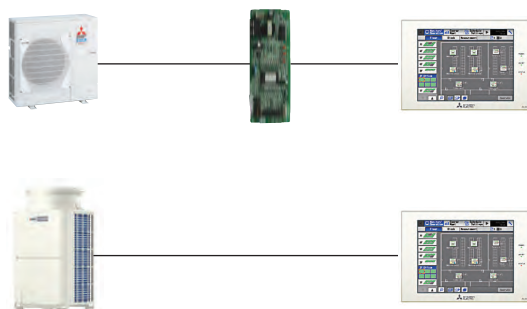
Side View



Top View



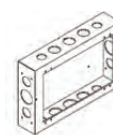
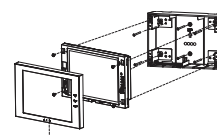
SYSTEM DIAGRAM



OPTIONS

PAC-YG82TB

PAC-YG84UTB



Description	AE-200E Wall Mounted Box	AE-200E Back Box
Connect to	-	-
Max Number of Units	-	-
Compatibility	AE-200E	AE-200E
Power Supply	-	-
Dimensions (mm) (WxDxH)	282 x 77 x 198	380 x 90 x 280

Note: AE-200E has as standard 50 indoor unit connections up to MAX 200 indoor units by using option M-NET expansion adapters EW-50A.



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MELCOBEMS provides M-NET centralised controller connections AE-200E/EW-50E to a third party BEMS via either RS485 or TCP/IP. It does this via a Modbus RTU or a BACnet interface.

Key Features

- Monitor and control up to 50 indoor units
- Modbus and BACnet interface
- Energy monitoring



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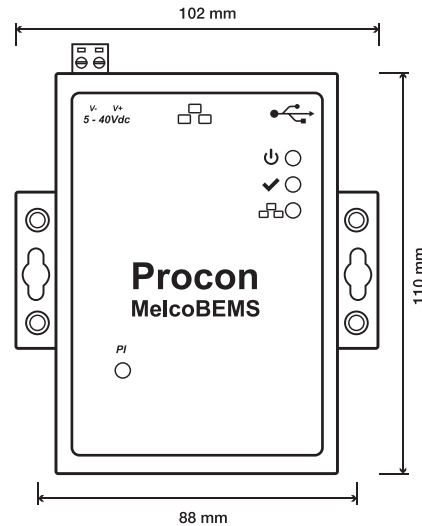
BEMS INTERFACES		MELCOBEMS
Description		AE-200E / EW-50E Modbus BACnet Interface
Connect to		AE-200E and EW-50E
Max Number of Units		50
Compatibility		M Series, Mr Slim and City Multi
Power Supply		24VDC
Dimensions (mm) (WxDxH)		102 x 32 x 180
Network		Modbus / BACnet RS485 and TCP/IP
BEMS Compatibility		Cylon, Satchwell, Crestron, Invensys, Interactive Homes, North BT, Andover, Siemens, WEMS, RDM
Control	On/Off	DI
	Mode	AI
	Setpoint	AI
	Fan Speed	AI
	Air Direction	AI
	Permit/Prohibit	DI
Monitor	Filter Sign	DI
	On/Off	DO
	Mode	AO
	Setpoint	AO
	Fan Speed	AO
	Air Direction	AO
	Permit/Prohibit	DO
	Filter Sign	DO
	Fault Codes	AO
	Room Temperature	AO
	Daily kW Energy	With EW-50E*1
	Monthly kW Energy	With EW-50E*1

Key: DI = Digital Input. DO = Digital Output. AI = Analogue Input. AO = Analogue Output.
*1 The MELCOBEMS can monitor indoor daily and monthly kWh when used in conjunction with EW-50E, PAC-YG60MCA on third party energy meters.

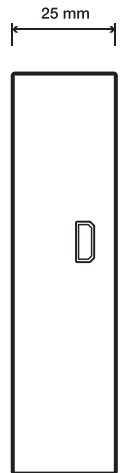
Note: The PAC-YG***CA are not compatible with MELCOBEMS, LMAP and IQ3 EXCITE.
The EW-50E expansion controller cannot be used with BEMS interfaces.

DIMENSIONS

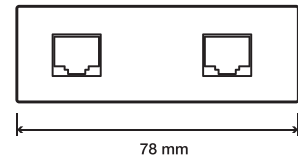
Front View



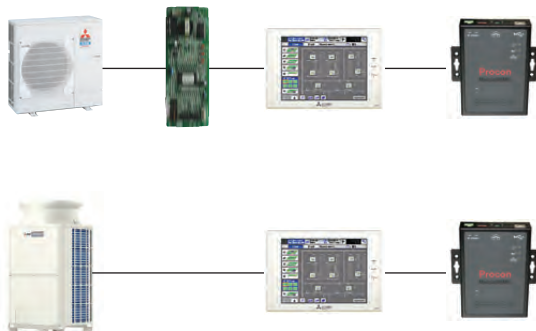
Side View



Top View



SYSTEM DIAGRAM



Note: Power supply required 24v DC. Additional power supply required.



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Outdoor condensers for Downflow AHUs DX Coils

Service Ref.				PUHZ-ZRP35VKA		PUHZ-ZRP50VKA		
Mode				Cooling	Heating	Cooling	Heating	
OUTDOOR UNIT	Power supply (phase, cycle, voltage)			Single, 50Hz, 230V				
	Max. current		A	13		13		
	External finish			Munsell 3Y 7.8/1.1				
	Refrigerant control			Linear Expansion Valve				
	Compressor			Hermetic				
	Model			SNB092FGCM		SNB130FGCM2		
	Motor output		kW	0.6		1.1		
	Starter type			Inverter				
	Protection devices			HP switch Comp.shell thermo Discharge thermo				
	Crankcase heater		W	—				
	Heat exchanger			Plate fin coil				
	Fan	Fan(drive) × No.		Propeller fan × 1				
		Fan motor output		0.046				
		Airflow		45 (1,590)				
	Defrost method			Reverse cycle				
	Noise level		Cooling	dB	44			
			Heating	dB	46			
	Dimensions		W	mm(in.)	809+62 (31-13/16+2-7/16)			
D			mm(in.)	300 (11-3/16)				
H			mm(in.)	630 (24-13/16)				
Weight		kg(lbs)		43 (95)		46 (101)		
Refrigerant			R410A					
	Charge		kg(lbs)		2.2 (4.8)		2.4 (5.3)	
	Oil (Model)		L		0.35 (FV50S)		0.50 (FV50S)	
REFRIGERANT PIPING	Pipe size O.D.		Liquid	mm(in.)	6.35(1/4)			
			Gas	mm(in.)	12.7(1/2)			
	Connection method		Indoor side		Flared			
			Outdoor side		Flared			
	Between the indoor & outdoor unit		Height difference		Max. 30m			
			Piping length		Max. 50m			

Service Ref.				PUHZ-ZRP60VHA		PUHZ-ZRP71VHA		
Mode				Cooling	Heating	Cooling	Heating	
OUTDOOR UNIT	Power supply (phase, cycle, voltage)			Single, 50Hz, 230V				
	Max. current		A	19				
	External finish			Munsell 3Y 7.8/1.1				
	Refrigerant control			Linear Expansion Valve				
	Compressor			Hermetic				
	Model			SNB130FGCM1		SNB172FSHM1		
	Motor output		kW	1.2		1.3		
	Starter type			Inverter				
	Protection devices			HP switch Comp.shell thermo Discharge thermo				
	Crankcase heater		W	—				
	Heat exchanger			Plate fin coil				
	Fan	Fan(drive) × No.		Propeller fan × 1				
		Fan motor output		0.06				
		Airflow		55 (1,940)				
	Defrost method			Reverse cycle				
	Noise level		Cooling	dB	47			
			Heating	dB	48			
	Dimensions		W	mm(in.)	950 (37-3/8)			
			D	mm(in.)	330+30 (13+1-3/16)			
			H	mm(in.)	943 (37-1/8)			
Weight		kg(lbs)		67 (148)				
Refrigerant			R410A					
Charge		kg(lbs)		3.5 (7.7)				
Oil (Model)		L		0.65 (FV50S)		0.70 (FV50S)		
REFRIGERANT PIPING	Pipe size O.D.		Liquid	mm(in.)	9.52 (3/8)			
			Gas	mm(in.)	15.88 (5/8)			
	Connection method		Indoor side		Flared			
			Outdoor side		Flared			
	Between the indoor & outdoor unit		Height difference		Max. 30m			
			Piping length		Max. 50m			

Air Conditioning

Product Information

PAR-31MAA : Standard Remote Controller

CONTROLS



Our air conditioning systems are supported by a multitude of remote controllers. Each remote controller type, whilst being able to support the general control and monitoring functions for a group of indoor units, can also offer other unique operational features.

The PAR-31MAA is a popular, advanced remote controller with a clear backlit display and a very simple user interface.

FEATURES



DIMENSIONS

Not available



The PAC-SA89TA is a simple 3 wire adapter for connection to Mr Slim or City Multi indoor units with two operation possibilities:

1. Remote on/off & fire alarm interface from external VFC signals.
2. Night mode & demand control interface from external VFC signals.

Key Features

- Also known as 3 wire adapter
- Remote on/off
- Fire alarm input
- Night mode
- Demand control



Air Conditioning | Heating
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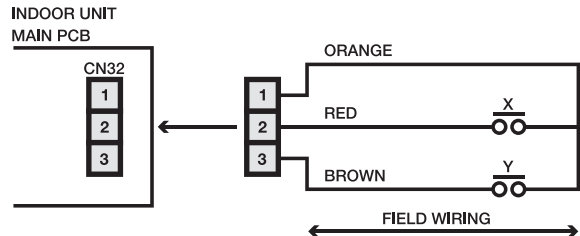
SIMPLE INTERFACE	PAC-SA89TA	
Description	On/Off Adapter (3 wire adapter)	Night Mode and Demand Control (3 wire adapter)
Connect to	Indoor	Outdoor
Max Number of Units	1	1
Compatibility	Mr Slim and City Multi	Mr Slim and City Multi
Dimensions (mm) (WxDxH)	-	-
Control	On/Off Mode Setpoint Fan Speed Air Direction Permit/Prohibit Filter Sign	On/Off Mode Setpoint Fan Speed Air Direction Permit/Prohibit Filter Sign
Monitor	On/Off Mode Setpoint Fan Speed Air Direction Permit/Prohibit Filter Sign Fault Codes Room Temperature Fire Alarm	On/Off Mode Setpoint Fan Speed Air Direction Permit/Prohibit Filter Sign Fault Codes Room Temperature Fire Alarm
On/Off but Centrally Controlled	VFC	x
On/Off but NOT Centrally Controlled	x	x
Run and Fault Output	x	x
Heat and Cool Output	x	x
Night Mode and Demand Control	x	VFC
Connect Mr Slim to M-NET	-	-
Connect Mr Slim to A32M	-	-
Connect Mr Slim to BAC-A/50	-	-

Note: VFC: Volt free contact. ✓ = Yes, x = No, - = Not applicable.

SYSTEM DIAGRAM



WIRING DIAGRAM On/Off and Fire Alarm



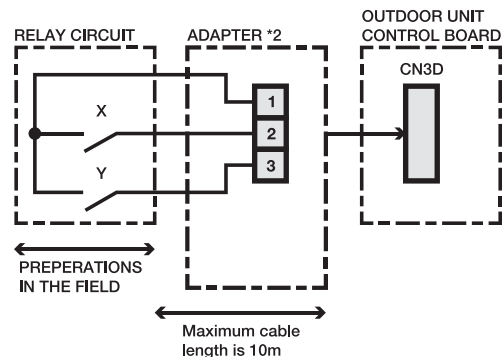
NOTE

- ON / OFF BUTTON ON THE REMOTE CONTROLLER NOT AVAILABLE
- ADAPTER WIRE COLOURS MAY VARY
- RELAYS NOT SUPPLIED

OPERATION

- X AND Y CLOSED TO START UNIT

WIRING DIAGRAM Low Noise and Demand Connections



NOTE

- X : Low noise mode or demand
- Y : Demand
- X, Y : Relay
- Contact rating voltage $\geq 15\text{VDC}$
- Contact rating current $\geq 0.1\text{A}$
- Minimum applicable load $\leq 1\text{mA}$ at DC



The PAC-SA88HA is a simple 5 wire adapter for connection to Mr Slim or City Multi indoor units and City Multi outdoor units with two operation possibilities:

- 1.** 12v DC outputs run and fault, compatible with Mr Slim, City Multi indoor units and City Multi outdoor units.
- 2.** 12v DC outputs of operation mode, fan / heat / cool, compatible with City Multi indoor units.

Key Features

- Heating and cooling signal
- Run and fault signal



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