

**3.42.5 Toilet Extract Air Units**

| EQUIPMENT ITEM/DESIGNATION                   | TEF NO.1                                                                                                                  |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Location/Internal Unit                       | Roof                                                                                                                      |
| Components<br>(In direction of Air Flow)     | Roof mounted External Twin Fan Unit<br>Back Draught Damper<br>Fan Unit Acoustically Lined<br>Flexible Ductwork Connectors |
| Model                                        | Nuaire TSQF-Ecosmart Squif In-line twin-fan<br>SQFTA46ES                                                                  |
| <b>Fan Details</b>                           |                                                                                                                           |
| Total Air Flow (L/s)                         | 3706                                                                                                                      |
| Estimated Static (pa),<br>for tendering only | 550                                                                                                                       |
| Fan Type                                     | Twin Fan                                                                                                                  |
| Max Outlet Velocity (m/s)                    | 6.0                                                                                                                       |
| Motor Size min. (kW) Motor Type              | 6.0                                                                                                                       |
| Power Supply (V/Ph/Hz)                       | Three Phase                                                                                                               |
| Type of Drive (Belt or Direct)               | Belt Drive                                                                                                                |
| Mount Type                                   | Anti-Vibration Mountings                                                                                                  |
| Unit Dimensions<br>(to be verified on order) | 1030 x 994 x 2070(mm)                                                                                                     |

Notes:

- Auto-Changeover on Fan Fail Function on Controls.
- Auto-Duty Share
- BMS Interface

| EQUIPMENT ITEM/DESIGNATION                   | TEF NO.2                                                                                                                  |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Location/Internal Unit                       | Roof                                                                                                                      |
| Components<br>(In direction of Air Flow)     | Roof mounted External Twin Fan Unit<br>Back Draught Damper<br>Fan Unit Acoustically Lined<br>Flexible Ductwork Connectors |
| Model                                        | Nuaire AVT9-R                                                                                                             |
| <b>Fan Details</b>                           |                                                                                                                           |
| Total Air Flow (L/s)                         | 1202                                                                                                                      |
| Estimated Static (pa),<br>for tendering only | 380                                                                                                                       |
| Fan Type                                     | Twin Fan                                                                                                                  |
| Max Outlet Velocity (m/s)                    |                                                                                                                           |
| Motor Size min. (kW) Motor Type              | 1KW                                                                                                                       |
| Power Supply (V/Ph/Hz)                       | Three Phase                                                                                                               |
| Type of Drive (Belt or Direct)               | Belt Drive                                                                                                                |
| Mount Type                                   | Anti-Vibration Mountings                                                                                                  |
| Unit Dimensions<br>(to be verified on order) | 1278 x 709 x 2956(mm)                                                                                                     |

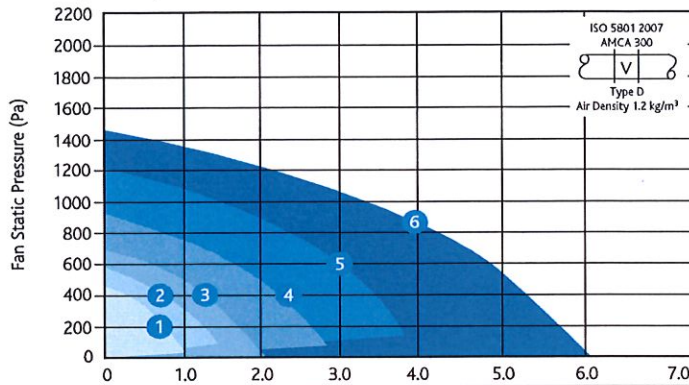
Notes:

- Auto-Changeover on Fan Fail Function on Controls.
- Auto-Duty Share
- BMS Interface

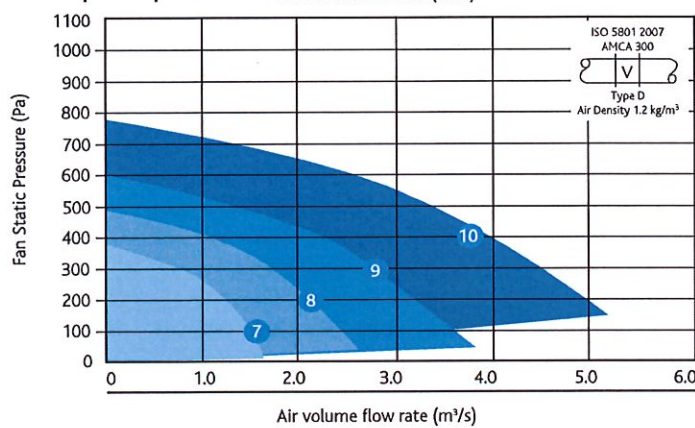
TEF 01

## PERFORMANCE - TWIN SQUIF FANS

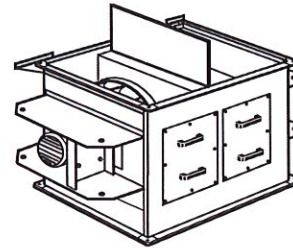
Twin Squif - 4 pole



Twin Squif - 6 pole



## Casing



## Code descriptions

## SQFTA 4 1 - 3ES

1 2 3 4 5 6

1. Twin Squif Range
2. A = Ambient
3. Pole (4 or 6)
4. Curve No.
5. Phase (1 or 3)
6. Ecosmart control

Note: curves include loss through idling fan.

## PERFORMANCE - TWIN SQUIF EXTRACT FANS

## ELECTRICAL &amp; SOUND

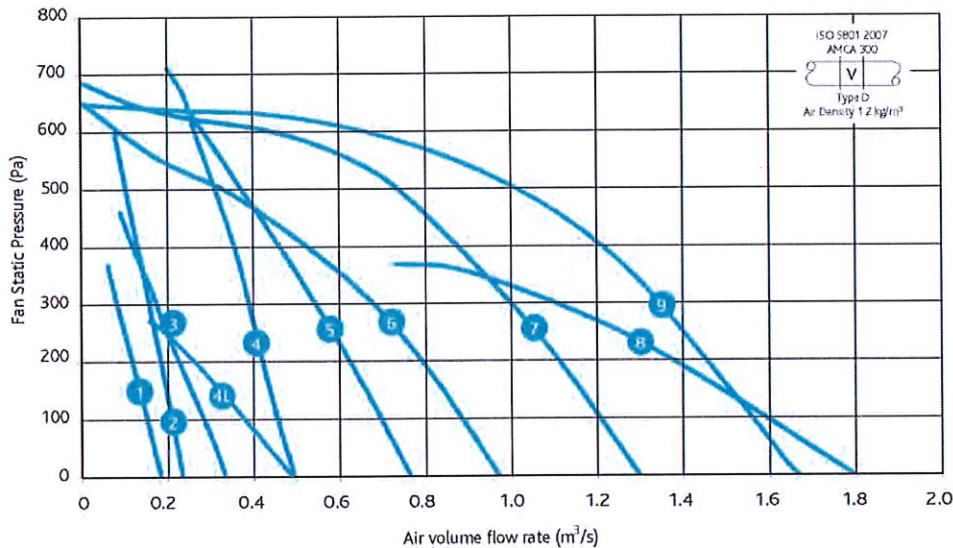
| Curve | Code      | Phase | RPM  | Motor Power (kW) | FLC (amps) | SC (amps) | Data Type | Induct inlet Sound Power levels dB re 1pW |     |     |     |    |    |    |    | Breakout dBA@ 3m |
|-------|-----------|-------|------|------------------|------------|-----------|-----------|-------------------------------------------|-----|-----|-----|----|----|----|----|------------------|
|       |           |       |      |                  |            |           |           | 63                                        | 125 | 250 | 500 | 1K | 2K | 4K | 8K |                  |
| 1     | SQFTA41-1 | 1     | 1410 | 0.37             | 2.8        | 11.2      | I         | 90                                        | 93  | 79  | 70  | 70 | 70 | 69 | 62 | 52               |
|       |           |       |      |                  |            |           | O         | 87                                        | 94  | 74  | 68  | 74 | 75 | 70 | 64 |                  |
| 1     | SQFTA41-3 | 3     | 1450 | 0.37             | 1.06       | 5.2       | I         | 90                                        | 93  | 79  | 70  | 70 | 70 | 69 | 62 | 52               |
|       |           |       |      |                  |            |           | O         | 87                                        | 94  | 74  | 68  | 74 | 75 | 70 | 64 |                  |
| 2     | SQFTA42-1 | 1     | 1370 | 0.75             | 5.4        | 21        | I         | 88                                        | 95  | 82  | 77  | 74 | 76 | 75 | 67 | 55               |
|       |           |       |      |                  |            |           | O         | 85                                        | 96  | 78  | 74  | 78 | 80 | 77 | 69 |                  |
| 2     | SQFTA42-3 | 3     | 1450 | 0.75             | 2.01       | 9.04      | I         | 88                                        | 95  | 82  | 77  | 74 | 76 | 75 | 67 | 55               |
|       |           |       |      |                  |            |           | O         | 85                                        | 96  | 78  | 74  | 78 | 80 | 77 | 69 |                  |
| 3     | SQFTA43-1 | 1     | 1420 | 1.1              | 7          | 35        | I         | 92                                        | 98  | 83  | 79  | 77 | 78 | 78 | 71 | 58               |
|       |           |       |      |                  |            |           | O         | 89                                        | 99  | 79  | 77  | 82 | 83 | 79 | 73 |                  |
| 3     | SQFTA43-3 | 3     | 1450 | 1.1              | 2.5        | 12        | I         | 92                                        | 98  | 83  | 79  | 77 | 78 | 78 | 71 | 58               |
|       |           |       |      |                  |            |           | O         | 89                                        | 99  | 79  | 77  | 82 | 83 | 79 | 73 |                  |
| 4     | SQFTA44   | 3     | 1450 | 2.2              | 4.8        | 28.8      | I         | 86                                        | 96  | 89  | 82  | 77 | 80 | 80 | 71 | 58               |
|       |           |       |      |                  |            |           | O         | 87                                        | 90  | 86  | 87  | 81 | 82 | 82 | 68 |                  |
| 5     | SQFTA45   | 3     | 1450 | 4                | 9          | 59        | I         | 92                                        | 102 | 87  | 85  | 85 | 84 | 83 | 81 | 63               |
|       |           |       |      |                  |            |           | O         | 90                                        | 103 | 83  | 82  | 89 | 89 | 84 | 83 |                  |
| 6     | SQFTA46   | 3     | 1450 | 7.5              | 15.2       | 108       | I         | 92                                        | 106 | 92  | 86  | 86 | 85 | 86 | 83 | 64               |
|       |           |       |      |                  |            |           | O         | 95                                        | 95  | 90  | 91  | 89 | 87 | 87 | 81 |                  |
| 7     | SQFTA61   | 3     | 960  | 0.75             | 2.1        | 8.82      | I         | 84                                        | 92  | 84  | 75  | 70 | 73 | 73 | 64 | 48               |
|       |           |       |      |                  |            |           | O         | 85                                        | 86  | 81  | 80  | 74 | 75 | 75 | 61 |                  |
| 8     | SQFTA62   | 3     | 960  | 1.1              | 3          | 13.2      | I         | 90                                        | 99  | 83  | 78  | 76 | 75 | 74 | 72 | 58               |
|       |           |       |      |                  |            |           | O         | 87                                        | 100 | 78  | 76  | 80 | 79 | 75 | 74 |                  |
| 9     | SQFTA63   | 3     | 960  | 2.2              | 5.9        | 28.9      | I         | 90                                        | 103 | 87  | 79  | 76 | 76 | 77 | 73 | 61               |
|       |           |       |      |                  |            |           | O         | 87                                        | 104 | 82  | 77  | 80 | 80 | 78 | 75 |                  |
| 10    | SQFTA64   | 3     | 960  | 4                | 9.4        | 61.2      | I         | 91                                        | 106 | 91  | 82  | 79 | 77 | 77 | 74 | 64               |
|       |           |       |      |                  |            |           | O         | 88                                        | 107 | 86  | 80  | 83 | 82 | 78 | 76 |                  |

Breakout dBA@3m is hemispherical free field. The electrical and sound information in the table are nominal figures.

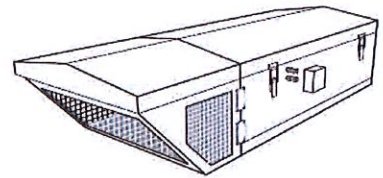
## AIRE-VOLVE TWIN FANS

### TECHNICAL INFORMATION

#### PERFORMANCE - AIRE-VOLVE EXTERNAL TWIN FANS



#### Casing



AVT-R External In-line Twin Fan  
with grille outlet.

#### Code descriptions

#### AVT2 - R

1 2 3 4

1. Aire-Volve range
2. Twin Fan
3. Case size 1-9
4. Grille outlet external unit

#### PERFORMANCE - AIRE-VOLVE EXTERNAL TWIN FANS AVT 1-9 - R

##### AVT 'R' UNIT - ELECTRICAL & SOUND

1. Unweighted induct inlet octave band Sound Power Level - dB re 1pW
2. Unweighted open outlet octave band Sound Power Level - dB re 1pW

| Curve/<br>Code | Duct<br>conn. | Supply<br>(V/Freq<br>Hz/Phase) | FLC<br>(amps) | SC<br>(amps) | Input Power<br>(Max) (W) | Fan Speed<br>(Nominal) | Frequency (Hz) |     |     |     |    |    |    |    | Outlet Radiated Free<br>Field dBA @ 3m<br>(Spherical Radiation) |
|----------------|---------------|--------------------------------|---------------|--------------|--------------------------|------------------------|----------------|-----|-----|-----|----|----|----|----|-----------------------------------------------------------------|
|                |               |                                |               |              |                          |                        | 63             | 125 | 250 | 500 | 1K | 2K | 4K | 8K |                                                                 |
| AVT1-R         | 250           | 230/50/1                       | 0.75          | 0.75         | 85                       | 3300                   | 1              | 75  | 69  | 64  | 65 | 61 | 57 | 53 | 51                                                              |
|                |               |                                |               |              |                          |                        | 2              | 75  | 70  | 68  | 71 | 71 | 66 | 60 | 54                                                              |
| AVT2-R         | 250           | 230/50/1                       | 1.4           | 1.4          | 170                      | 4000                   | 1              | 81  | 75  | 70  | 71 | 67 | 63 | 59 | 57                                                              |
|                |               |                                |               |              |                          |                        | 2              | 81  | 76  | 74  | 77 | 72 | 66 | 62 | 60                                                              |
| AVT3-R         | 250           | 230/50/1                       | 1.35          | 1.35         | 170                      | 2500                   | 1              | 79  | 75  | 81  | 69 | 65 | 60 | 54 | 52                                                              |
|                |               |                                |               |              |                          |                        | 2              | 79  | 76  | 85  | 75 | 75 | 69 | 61 | 57                                                              |
| AVT4-R         | 315           | 230/50/1                       | 3.1           | 3.1          | 500                      | 3400                   | 1              | 85  | 80  | 82  | 84 | 80 | 75 | 71 | 68                                                              |
|                |               |                                |               |              |                          |                        | 2              | 85  | 81  | 86  | 90 | 90 | 84 | 78 | 73                                                              |
| AVT4L-R        | 315           | 230/50/1                       | 1.1           | 1.1          | 160                      | 1700                   | 1              | 72  | 67  | 67  | 66 | 60 | 57 | 53 | 48                                                              |
|                |               |                                |               |              |                          |                        | 2              | 72  | 68  | 71  | 72 | 70 | 66 | 60 | 53                                                              |
| AVT5-R         | 315           | 230/50/1                       | 3.5           | 3.5          | 550                      | 2400                   | 1              | 76  | 72  | 71  | 70 | 64 | 62 | 58 | 53                                                              |
|                |               |                                |               |              |                          |                        | 2              | 76  | 73  | 75  | 76 | 74 | 71 | 65 | 58                                                              |
| AVT6-R         | 400           | 230/50/1                       | 2.9           | 2.9          | 450                      | 1700                   | 1              | 79  | 81  | 76  | 74 | 68 | 66 | 62 | 55                                                              |
|                |               |                                |               |              |                          |                        | 2              | 79  | 82  | 80  | 80 | 78 | 75 | 69 | 60                                                              |
| AVT7-R         | 400           | 230/50/1                       | 3.5           | 3.5          | 790                      | 1700                   | 1              | 80  | 77  | 75  | 75 | 69 | 66 | 63 | 58                                                              |
|                |               |                                |               |              |                          |                        | 2              | 80  | 78  | 79  | 81 | 79 | 75 | 70 | 63                                                              |
| AVT8-R         | 500           | 230/50/1                       | 3.2           | 3.2          | 710                      | 1100                   | 1              | 76  | 77  | 73  | 68 | 64 | 65 | 61 | 55                                                              |
|                |               |                                |               |              |                          |                        | 2              | 76  | 78  | 77  | 74 | 74 | 74 | 68 | 60                                                              |
| AVT9-R         | 500           | 400/50/1                       | 1.85          | 1.85         | 1000                     | 1500                   | 1              | 81  | 78  | 78  | 75 | 68 | 67 | 67 | 59                                                              |
|                |               |                                |               |              |                          |                        | 2              | 81  | 79  | 82  | 81 | 78 | 76 | 74 | 64                                                              |

**3.42.4 Air Handling Units**

| <b>EQUIPMENT ITEM/DESIGNATION AHU NO. 1 – Separate Supply and Extract Air Units</b> |                              |                            |
|-------------------------------------------------------------------------------------|------------------------------|----------------------------|
| <b>Location/External Unit</b>                                                       |                              |                            |
| <b>Components<br/>(In direction of Air Flow)<br/>Unit sections side by side</b>     | <b>Supply Unit</b>           | <b>Extract Side Unit</b>   |
|                                                                                     | Supply Air Inlet Damper      | Extract Fan c/w Door Guard |
|                                                                                     | Electric Frost Coil          |                            |
|                                                                                     | Panel Filters                | Run Around Coil            |
|                                                                                     | Bag Filters                  | Extract Fan c/w Door Guard |
|                                                                                     | Run Around Coil              |                            |
|                                                                                     | Supply Fan c/w Door Guard    |                            |
|                                                                                     | DX Heat Pump – Cooling Cycle |                            |
|                                                                                     | DX Heat Pump – Heating Cycle |                            |
| <b>Fan Details</b>                                                                  | <b>Supply</b>                | <b>Return</b>              |
| Total Air Flow (L/s)                                                                | 8820                         | 3937                       |
| Estimated Static (pa),<br>for tendering only                                        | 650Pa                        | 550Pa                      |
| Fan Type                                                                            | Centrifugal                  | Centrifugal                |
| Max Outlet Velocity (m/s)                                                           |                              |                            |
| Motor Size min. (kW) Motor Type                                                     |                              |                            |
| Power Supply (V/Ph/Hz)                                                              | 400/3/50                     | 400/3/50                   |
| Type of Drive (Belt or Direct)                                                      | Inverter Drive               | Inverter Drive             |
| Mount Type                                                                          | Anti-Vibration Mountings     | Anti-Vibration Mountings   |
| Unit Dimensions<br>(to be verified on order)                                        | 6750 x 3200 x 1927Hmm        | 5100 x 1650 x 1927Hmm      |
| <b>Heat Pump Coil Details</b>                                                       | <b>Heat Pump</b>             | <b>Run Around Coil</b>     |
| Sensible Capacity (kW) –<br>(Heating & Cooling)                                     |                              |                            |
| Total Coil Air Flow (l/s)                                                           | 8700                         | 3937                       |
| Air on (oC DB/oC WB)<br>(Winter/Summer)                                             | 10/(29/20°C)                 | -5/(29/20°C)               |
| Air off (oC DB/oC WB)<br>(Winter/Summer)                                            | 18-20                        | 10.3                       |
| Rows/Fins                                                                           |                              | -                          |
| Evap Temp                                                                           |                              | -                          |
| Cond. Temp                                                                          |                              | -                          |
| <b>Air Filters Details</b>                                                          | <b>Supply</b>                | <b>Return</b>              |
| Total Air Flow (l/s)                                                                | 8700                         | 3937                       |
| No. Off                                                                             |                              |                            |
| Types                                                                               | Bag                          | Panel                      |
| Efficiency                                                                          | F7                           | G4                         |

**AHU Notes:**

- Supply and Extract Air Fans to be inverter driven. Inverters to be fitted to be IP54 cased and comprise RFI filters.
- AHU Heat Pump DX Coils to be matched with Mitsubishi PUHZ Model Condenser.
- AHU Selection based on Dalair Ltd. Tel: 0161 888 2224.
- Weight of Supply AHU is 3900kg to be verified on order.
- Weight of Extract AHU is 2000kg to be verified on order.

**Electric Frost Heater**

Volume 8.7 m<sup>3</sup>/s  
 Air On Coil Db -5 °C  
 Air Off Coil Db 10 °C  
 Duty 157 kW  
 Medium Electric 400V-3Ph-50Hz  
 Type of Control Thyristor  
 Controls Excluded  
 Construction Sheathed elements

**G4 Panel Filters**

Type Panel  
 Efficiency G4  
 Arrangement 5W x 2.5H  
 Withdrawal Front  
 Manometer Magnahelic

**F7 Bag Filters**

Type Bag  
 Efficiency F7  
 Arrangement 5W x 2.5H  
 Withdrawal Front  
 Manometer Magnahelic

**Run Around Coil (ErP 2018)**

Volume 8.7 m<sup>3</sup>/s  
 Air On Coil Db 10 °C  
 Air Off Coil Db 14 °C  
 Duty 41.8 kW  
 Face velocity 2.1 m/s  
 R/A Efficiency 68 %  
 Medium Water/Ethylene glycol mix  
 Glycol 25 %  
 Flow Temp 15.2 °C  
 Return Temp 11.1 °C  
 Flow Rate 2.65 l/s  
 Water Pd 70 KPa  
 Rows/Fins 12R/11F  
 No of Sections 1  
 Construction Copper/Aluminium

**Direct Drive Supply Fan**

Volume 8.7 m<sup>3</sup>/s  
 External static 550 Pa  
 Total static 1011 Pa  
 Absorbed power 12.428 kW  
 Motor power 18.5 kW (IE2)  
 Fan type PLUG / Backward curved / Direct driven  
 Fan speed 1117 RPM  
 Total fan efficiency 77.0 %  
 Electrical Supply 400V-3Ph-50Hz

| Fan discharge SWL levels<br>(to BS848) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 (Hz) |
|----------------------------------------|----|-----|-----|-----|------|------|------|-----------|
|                                        | 85 | 96  | 96  | 98  | 95   | 94   | 87   | 83        |

Includes +4dB fan in casework adjustment

Door guard fitted? YES  
 Suitable for inverters? YES  
 Isolator fitted? YES  
 Standby motor fitted? NO  
 Thermistors fitted? YES

**DX Heat Pump Cooling Cycle**

Volume 8.7 m<sup>3</sup>/s  
 Air On Coil Db 28 °C  
 Air On Coil Wb 20 °C  
 Air Off Coil Db 14 °C  
 Air Off Coil Wb 13.5 °C  
 Duty 202.8 kW  
 Face velocity 2.1 m/s  
 Medium Refrigerant R410A  
 Evap. Temp 8.5 °C  
 Rows/Fins 6R/8F  
 No of Sections 4  
 Construction Copper/Aluminium

Continued ...

**Run Around Coil (ErP 2018)**

Volume 3.94 m<sup>3</sup>/s  
 Air On Coil Db 21 °C  
 Air On Coil Wb 14.6 °C  
 Air Off Coil Db 12.1 °C  
 Air Off Coil Wb 11 °C  
 Duty 42.6 kW  
 Face velocity 2.1 m/s  
 R/A Efficiency 68 %  
 Medium Water/Ethylene glycol mix  
 Glycol 25 %  
 Flow Temp 11.1 °C  
 Return Temp 15.2 °C  
 Flow Rate 2.65 l/s  
 Water Pd 45 KPa  
 Rows/Fins 12R/11F  
 No of Sections 1  
 Construction Copper/Aluminium  
 Eliminators YES  
 Drain Pan Fixed

**Direct Drive Extract Fan**

Volume 3.94 m<sup>3</sup>/s  
 External static 250 Pa  
 Total static 546 Pa  
 Absorbed power 3.29 kW  
 Motor power 5.5 kW (IE2)  
 Fan type PLUG / Backward curved / Direct driven  
 Fan speed 1331 RPM  
 Total fan efficiency 75.1 %  
 Electrical Supply 400V-3Ph-50Hz

| Fan discharge SWL levels<br>(to BS848) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 (Hz) |
|----------------------------------------|----|-----|-----|-----|------|------|------|-----------|
|                                        | 76 | 86  | 86  | 89  | 88   | 88   | 80   | 77        |

Includes +4dB fan in casework adjustment

Door guard fitted? YES  
 Suitable for inverters? YES  
 Isolator fitted? YES  
 Standby motor fitted? NO  
 Thermistors fitted? YES

**Extract Air Outlet**

Louvre & Damper (Damper Seals:- Side & Blade)  
 Air Volume 3.94 m<sup>3</sup>/s

Approximate weight of unit 2369 kg

**3.42.7 Sound Attenuators**

Reference: Acoustic Consultant for Project

| Attenuator                  | SA 02/01  | SA 02/02  | SA E2/01  |
|-----------------------------|-----------|-----------|-----------|
| Location                    | Roof      | Roof      | Roof      |
| Air Flow (l/s)              | 8820      | 3937      | 1202      |
| Max. Air Pressure Loss (Pa) | 50        | 50        | 50        |
| Type                        | In-direct | In-direct | In-direct |
| Attenuator                  | SA E2/02  | SA E1/01  | SA E1/02  |
| Location                    | Roof      | Roof      | Roof      |
| Air Flow (l/s)              | 1202      | 3706      | 3706      |
| Max. Air Pressure Loss (Pa) | 50        | 50        | 50        |
| Type                        | In-direct | In-direct | In-direct |

Sound attenuators to be in-duct type for fixing into main ductwork.

**Internal Noise Criteria**

| Area                      | Noise Criteria |
|---------------------------|----------------|
| Offices (Open Plan)       | NR38           |
| Offices (Cellular)        | NR35           |
| Lift Lobbies              | NR40           |
| Entrance Halls, Corridors | NR40           |
| Staircases                | NR40           |
| Toilets                   | NR40           |
| Entrance Lobbies          | NR40           |

The spectrum sound power levels from the manufacturer's data sheet will be used to determine the acoustic requirements. It has been assumed for the purpose of this assessment that the office spaces contain carpeted floors.

The silencers for the supply and extract systems should have a static pressure drop of 50N/m<sup>2</sup> or less. The required octave band dynamic insertion loss to meet the internal noise criteria are presented in Table 1 below:

**Table 1: AHU Noise Spectrum Details**

| AHU Reference                  | Octave Band SWL Levels (dB) |     |     |     |    |    |    |    |
|--------------------------------|-----------------------------|-----|-----|-----|----|----|----|----|
|                                | 63                          | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| AHU No.1 Supply                | 85                          | 96  | 96  | 98  | 95 | 94 | 87 | 83 |
| AHU No.1 Extract               | 76                          | 86  | 86  | 89  | 88 | 88 | 80 | 77 |
| Toilet Extract No.1 (TEF No.1) | 87                          | 100 | 94  | 77  | 68 | 71 | 65 | 55 |
| Toilet Extract No.1 (TEF No.2) | 87                          | 100 | 94  | 77  | 68 | 71 | 65 | 55 |

<sup>1</sup> Where the duct terminates at 0.5m below the height of the plant screen a silencer is not required.

The attenuators will need to be sized such that airflow regenerated noise does not cause the criteria to be exceeded.

The contractor shall check the final noise levels against the NR level requirements prior to order of equipment to ensure the correct attenuation is provided.

**3.42.2 VRF Equipment Schedules**

Note: C2 Modifications shown as omits crossed out and adds in blue

Floor: Lower Ground Floor – LG 01 System A

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P600YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-LG-01       |
| 6   | PEFY-P125VMA-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P108V-JA    | Master BC Controller for 2-pipe Heat Recovery with 40No. connections available.<br>8No.                | BC-LG-01       |

Floor: Lower Ground Floor – LG 01 System B

| Qty           | Description                        | Reference                                                                                              | Unit Reference |
|---------------|------------------------------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1             | PURY-P800YSNW-A                    | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-LG-03       |
| 8<br>+2<br>+1 | PEFY-P100VMAER4<br>PEFY-P125VMAER4 | Ceiling concealed ducted in-void unit.<br>Ceiling concealed ducted in-void unit.                       |                |
| 1             | CMB-P108V-JA<br>CMB-P1012V-JA      | Master BC Controller for 2-pipe Heat Recovery with 10No. connections available.                        | BC-LG-03       |

Floor: Lower Ground Floor – LG 02 System

| Qty      | Description      | Reference                                                                                              | Unit Reference |
|----------|------------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1        | PURY-P1100YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-LG-02       |
| 40<br>13 | PEFY-P125VMAER4  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1        | CMB-P1016V-KA    | Master BC Controller for 2-pipe Heat Recovery with 10No. connections available.                        | BC-LG-02       |

**Controls**

| Qty | Description | Reference                             |
|-----|-------------|---------------------------------------|
| 2   | AE 200      | Touch screen centralised controller   |
|     |             | Power supply for AG-150A              |
|     |             | BEMS BACnet Interface                 |
|     |             | Integral sensors on A/C indoor units. |

Duties where listed are (cooling/heating kW).

14 - P600YSNW-A  
P800YSNW-A  
P1100YSNW-A

**Floor: Ground Floor – G01 System A**

| Qty | Description      | Reference                                                                                              | Unit Reference |
|-----|------------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P1000YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-G-01        |
| 4   | PEFY-P125VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-KA    | Master BC Controller for 2-pipe Heat Recovery with 10No. connections available.                        | BC-G-01        |
| 7   | PEFY-P100VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |

**Floor: Ground Floor – G01 System B**

| Qty     | Description      | Reference                                                                                              | Unit Reference |
|---------|------------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1       | PURY-P1050YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-G-03        |
| 9<br>10 | PEFY-P125VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1       | CMB-P1016V-KA    | Master BC Controller for 2-pipe Heat Recovery with 10No. connections available.                        | BC-G-03        |

**Floor: Ground Floor – G02 System**

| Qty    | Description     | Reference                                                                                              | Unit Reference |
|--------|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1      | PURY-P800YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-G-02        |
| 5      | PEFY-P125VMA-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 2<br>3 | PEFY-P100VMA-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1      | CMB-P1012V-JA   | Master BC Controller for 2-pipe Heat Recovery with 10No. connections available.                        | BC-G-02        |

**Controls**

| Qty | Description | Reference                             |
|-----|-------------|---------------------------------------|
| 2   | AE 200      | Touch screen centralised controller   |
|     |             | Power supply for AG-150A              |
|     |             | BEMS BACnet Interface                 |
|     |             | Integral sensors on A/C indoor units. |

Duties where listed are (cooling/heating kW).

Pury - P1000YSNW-A  
 - P1050YSNW-A  
 - P800YSNW-A

**Floor: First Floor – 01-01 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P850YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-01-01       |
| 16  | PEFY-P63VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-01-01       |

**Floor: First Floor – 01-02 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P800YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-01-02       |
| 15  | PEFY-P63VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-01-02       |

**Floor: First Floor – 01-03 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P850YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-01-03       |
| 16  | PEFY-P63VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-01-03       |

**Floor: First Floor – 01-04 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P800YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-01-04       |
| 9   | PEFY-P63VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 3   | PEFY-P100VMA-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-01-04       |

**Controls**

| Qty | Description | Reference                             |
|-----|-------------|---------------------------------------|
| 2   | AE 200      | Touch screen centralised controller   |
|     |             | Power supply for AG-150A              |
|     |             | BEMS BACnet Interface                 |
|     |             | Integral sensors on A/C indoor units. |

Duties where listed are (cooling/heating kW).

PURY-P850YSNW-A x2  
 170 - P800YSNW-A x2

**Floor: Second Floor – 02-01 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P850YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-02-01       |
| 16  | PEFY-P63VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-02-01       |

**Floor: Second Floor – 02-02 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P600YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-02-02       |
| 9   | PEFY-P63VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 2   | PEFY-P63VLRMM-E | Vertical Units – Wall Concealed Ducted Unit                                                            |                |
| 1   | CMB-P1012V-JA   | Master BC Controller for 2-pipe Heat Recovery with 12No. connections available.                        | BC-02-02       |

**Floor: Second Floor – 02-03 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P850YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-02-03       |
| 16  | PEFY-P63VMA-E2  | Ceiling concealed ducted unit.                                                                         |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-02-03       |

**Floor: Second Floor – 02-04 System**

| Qty | Description    | Reference                                                                                              | Unit Reference |
|-----|----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P500YNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-02-04       |
| 9   | PEFY-P63VMA-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1012V-JA  | Master BC Controller for 2-pipe Heat Recovery with 12No. connections available.                        | BC-02-04       |

**Floor: Second Floor – 02-05 System**

| Qty | Description    | Reference                                                                                              | Unit Reference |
|-----|----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P550YNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-02-05       |
| 10  | PEFY-P63VMA-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1012V-JA  | Master BC Controller for 2-pipe Heat Recovery with 12No. connections available.                        | BC-02-05       |

171 PURY-P500YNW-A  
 - P550YNW-A  
 - P600YNW-A  
 - P850YSNW-A x 2.

**Controls**

| Qty | Description | Reference                             |
|-----|-------------|---------------------------------------|
| 2   | AE 200      | Touch screen centralised controller   |
|     |             | Power supply for AG-150A              |
|     |             | BEMS BACnet Interface                 |
|     |             | Integral sensors on A/C indoor units. |

Duties where listed are (cooling/heating kW).

**Floor: Third Floor – 03-01 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P700YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-03-01       |
| 16  | PEFY-P50VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-03-01       |

**Floor: Third Floor – 03-02 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P700YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-03-02       |
| 14  | PEFY-P50VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 2   | PFFY-P50VLRMM-E | Wall concealed ducted unit.                                                                            |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-03-02       |

**Floor: Third Floor – 03-03 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P700YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-03-03       |
| 16  | PEFY-P50VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-03-03       |

**Floor: Third Floor – 03-04 System**

| Qty | Description    | Reference                                                                                              | Unit Reference |
|-----|----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P250YNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-03-04       |
| 5   | PEFY-P50VMAER4 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P108V-JA   | Master BC Controller for 2-pipe Heat Recovery with 8No. connections available.                         | BC-03-04       |

172 PURY-P250YNW-A.  
- P700YSNW-A X3

**Controls**

| Qty | Description | Reference                             |
|-----|-------------|---------------------------------------|
| 2   | AE 200      | Touch screen centralised controller   |
|     |             | Power supply for AG-150A              |
|     |             | BEMS BACnet Interface                 |
|     |             | Integral sensors on A/C indoor units. |

Duties where listed are (cooling/heating kW).

**Floor: Fourth Floor – 04-01 System**

| Qty    | Description    | Reference                                                                                              | Unit Reference |
|--------|----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1      | PURY-P500YNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-04-01       |
| 7<br>9 | PEFY-P63VMAER4 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1      | CMB-P1012V-JA  | Master BC Controller for 2-pipe Heat Recovery with 12No. connections available.                        | BC-04-01       |

**Floor: Fourth Floor – 04-02 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P650YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-04-02       |
| 10  | PEFY-P63VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 2   | PFFY-P63VLRMM-E | Floor standing concealed unit.                                                                         |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-04-02       |

**Floor: Fourth Floor – 04-03 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P800YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-04-03       |
| 16  | PEFY-P63VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-04-03       |

**Controls**

| Qty | Description | Reference                             |
|-----|-------------|---------------------------------------|
| 2   | AE 200      | Touch screen centralised controller   |
|     |             | Power supply for AG-150A              |
|     |             | BEMS BACnet Interface                 |
|     |             | Integral sensors on A/C indoor units. |

Duties where listed are (cooling/heating kW).

173 PURY-P500YNW-A  
- P650YSNW-A  
- P800YSNW-A

**Floor: Fifth Floor – 05-01 System**

| Qty    | Description                   | Reference                                                                                              | Unit Reference |
|--------|-------------------------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1      | PURY-P500YNW-A                | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-05-01       |
| 7<br>9 | PEFY-P63VMAER4                | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1      | CMB-P108V-JA<br>CMB-P1012V-JA | Master BC Controller for 2-pipe Heat Recovery with 8No. connections available.<br>12No.                | BC-05-01       |

**Floor: Fifth Floor – 05-02 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P600YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-05-02       |
| 9   | PEFY-P63VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-05-02       |
| 2   | PFFY-P63VLRMM-E | Floor standing concealed unit.                                                                         |                |

**Floor: Fifth Floor – 05-03 System**

| Qty | Description     | Reference                                                                                              | Unit Reference |
|-----|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P850YSNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-05-03       |
| 16  | PEFY-P63VMA-E2  | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA   | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-05-03       |

**Controls**

| Qty | Description | Reference                             |
|-----|-------------|---------------------------------------|
| 2   | AE 200      | Touch screen centralised controller   |
|     |             | Power supply for AG-150A              |
|     |             | BEMS BACnet Interface                 |
|     |             | Integral sensors on A/C indoor units. |

Duties where listed are (cooling/heating kW).

PURY-P500YNW-A.  
- P600YSNW-A.  
- P850YSNW-A.

**Floor: Sixth Floor – 06-01 System**

| Qty | Description    | Reference                                                                                              | Unit Reference |
|-----|----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P250YNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-06-01       |
| 7   | PEFY-P40VMA-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P108V-JA   | Master BC Controller for 2-pipe Heat Recovery with 8No. connections available.                         | BC-06-01       |

**Floor: Sixth Floor – 06-02 System**

| Qty | Description    | Reference                                                                                              | Unit Reference |
|-----|----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P400YNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-06-02       |
| 12  | PEFY-P40VMA-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA  | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-06-02       |

**Floor: Sixth Floor – 06-03 System**

| Qty | Description    | Reference                                                                                              | Unit Reference |
|-----|----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P550YNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-06-03       |
| 16  | PEFY-P40VMA-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA  | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-06-03       |

**Controls**

| Qty | Description | Reference                             |
|-----|-------------|---------------------------------------|
| 2   | AE 200      | Touch screen centralised controller   |
|     |             | Power supply for AG-150A              |
|     |             | BEMS BACnet Interface                 |
|     |             | Integral sensors on A/C indoor units. |

Duties where listed are (cooling/heating kW).

PURY-P250YNW-A  
 - P400YNW-A  
 - P550YNW-A

**Floor: Seventh Floor – 07-01 System**

| Qty | Description    | Reference                                                                                              | Unit Reference |
|-----|----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P200YNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-07-01       |
| 7   | PEFY-P32VMA-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1012V-JA  | Master BC Controller for 2-pipe Heat Recovery with 12No. connections available.                        | BC-07-01       |

**Floor: Seventh Floor – 07-02 System**

| Qty | Description    | Reference                                                                                              | Unit Reference |
|-----|----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P300YNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-07-02       |
| 10  | PEFY-P32VMA-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA  | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-07-02       |

**Floor: Seventh Floor – 07-03 System**

| Qty | Description    | Reference                                                                                              | Unit Reference |
|-----|----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P450YNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-07-03       |
| 16  | PEFY-P32VMAER4 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA  | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-07-03       |

**Floor: Seventh Floor – 07-04 System**

| Qty | Description    | Reference                                                                                              | Unit Reference |
|-----|----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1   | PURY-P400YNW-A | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-07-04       |
| 14  | PEFY-P32VMA-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1   | CMB-P1016V-JA  | Master BC Controller for 2-pipe Heat Recovery with 16No. connections available.                        | BC-07-04       |

**Controls**

| Qty | Description | Reference                             |
|-----|-------------|---------------------------------------|
| 2   | AE 200      | Touch screen centralised controller   |
|     |             | Power supply for AG-150A              |
|     |             | BEMS BACnet Interface                 |
|     |             | Integral sensors on A/C indoor units. |

Duties where listed are (cooling/heating kW).

PURY-P200YNW-A  
 - P300YNW-A  
 - P400YNW-A  
 - P450YNW-A

**Air Handling Unit – Heat Pump DX Coil/Condenser Plant:**

| Qty | Description     | Reference                                                     | Unit Reference |
|-----|-----------------|---------------------------------------------------------------|----------------|
| 4   | PUHZ-ZRP250YKA3 | R410a heating or cooling City Multi Y Series condensing unit. | AHU No.1       |

**Interface/Controls Equipment**

| Qty | Description                    | Reference |
|-----|--------------------------------|-----------|
| 4   | PAC-1FO13B-E Remote Controller | AHU No. 1 |

**Floor: SME Offices – 1st Floor**

| Qty    | Description     | Reference                                                                                              | Unit Reference |
|--------|-----------------|--------------------------------------------------------------------------------------------------------|----------------|
| 1      | PURY-P200YNW-A  | R410a VRF simultaneous heating and cooling with heat recovery air cooled City Multi R2 condensing unit | CD-SME         |
| 3<br>4 | PEFY-P32VMAL-E2 | Ceiling concealed ducted in-void unit.                                                                 |                |
| 1      | CMB-P104V-J     | Master BC Controller for 2-pipe Heat Recovery with 4No. connections available.                         | BC-SME         |

Provide 4 x PAR-33MAAJ local wall mounted AC controllers.

Duties where listed are (cooling/heating kW).

The services contractor shall ensure liaison between Mitsubishi and the air handling unit supplier to ensure matching equipment and the complete interface for AHU - DX coil operation.

**3.46.2 Schedule of Split System AC Equipment****Split AC systems**

A single split Mitsubishi AC system shall serve each apartment lounge as the predominant comfort cooling application with provision of additional cooling to adjacent spaces for insulated ductwork branches off 1 x in-void indoor unit and 1 x condenser external at roof level per apartment per floor level.

**Single Split System**

| Qty | Description | Reference                                      | Unit References                       |
|-----|-------------|------------------------------------------------|---------------------------------------|
| 7   | SEZ-KD50VAQ | Invalid Indoor unit (5.0/5.38kw) (200mm deep). | Apartments 7, 8, 9, 10, 12, 16 and 17 |
| 7   | SUZ-KA50VA4 | R410a Condenser with power inverter.           |                                       |

**Single Split System**

| Qty | Description | Reference                                       | Unit References                  |
|-----|-------------|-------------------------------------------------|----------------------------------|
| 5   | SEZ-KD35VAQ | Invalid Indoor unit (5.43/5.38kw) (200mm deep). | Apartments 11, 13, 14 and 15 x 2 |
| 5   | SUZ-KA35VA4 | R410a Condenser with power inverter.            |                                  |

**Single Split System**

| Qty | Description | Reference                                      | Unit References              |
|-----|-------------|------------------------------------------------|------------------------------|
| 4   | SEZ-KD25VAQ | Invalid Indoor unit (2.45/2.4kw) (200mm deep). | Apartments 12, 13, 14 and 17 |
| 4   | SUZ-KA25VA4 | R410a Condenser with power inverter.           |                              |

| Qty | Description | Reference                                                |
|-----|-------------|----------------------------------------------------------|
| 23  | CONTROLS    | Wall Mounted integrated Mitsubishi/Warmfloor controller. |

**Single Split System (where the pipework run would be over 30 metre max.)**

| Qty | Description     | Reference                            | Unit References                                       |
|-----|-----------------|--------------------------------------|-------------------------------------------------------|
| 2   | PEFY-P63VMS1-E  | Invalid Indoor unit (200mm deep).    | Apartment 1 (2nd), 4 (3rd), 6 (4th), 3 (2nd), 5 (3rd) |
| 1   | PUMY-SP112VKM-E | R410a Condenser with power inverter. |                                                       |

**Single Split System (where the pipework run would be over 30 metre max.)**

| Qty | Description     | Reference                            | Unit References                 |
|-----|-----------------|--------------------------------------|---------------------------------|
| 2   | PEFY-P32VMS1-E  | Invalid Indoor unit (200mm deep).    | Apartment 2 (2nd and 3rd floor) |
| 1   | PUMY-SP112VKM-E | R410a Condenser with power inverter. |                                 |

**Note:**

Residential AC units to be maximum 200mm deep.

Temperature sensors to measure room temperature and not ceiling void temperature.

All indoor and outdoor units shall be single phase supply.

Duties where listed are (cooling/heating kW).

# 1. SPECIFICATIONS

Outdoor units

| Model                                               |                              |             | PURY-P200YNW-A (-BS)                                                                                                                                                                                                                                          |             |      |
|-----------------------------------------------------|------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|
| Power source                                        |                              |             | 3-phase 4-wire 380-400-415 V 50/60 Hz                                                                                                                                                                                                                         |             |      |
| Cooling capacity<br>(Nominal)                       | *1                           | kW          | 22.4                                                                                                                                                                                                                                                          |             |      |
|                                                     |                              | kcal/h      | 20,000                                                                                                                                                                                                                                                        |             |      |
|                                                     |                              | BTU/h       | 76,400                                                                                                                                                                                                                                                        |             |      |
|                                                     | Power input                  |             | kW                                                                                                                                                                                                                                                            | 4.43        |      |
|                                                     | Current input                |             | A                                                                                                                                                                                                                                                             | 7.4-7.1-6.8 |      |
|                                                     | EER                          |             | kW/kW                                                                                                                                                                                                                                                         | 5.05        |      |
| Temp. range of<br>cooling                           | Indoor                       | W.B.        | 15.0~24.0°C (59~75°F)                                                                                                                                                                                                                                         |             |      |
|                                                     | Outdoor                      | D.B.        | -5.0~52.0°C (23~126°F)                                                                                                                                                                                                                                        |             |      |
| Heating capacity<br>(Max)                           | *2                           | kW          | 25.0                                                                                                                                                                                                                                                          |             |      |
|                                                     |                              | kcal/h      | 21,500                                                                                                                                                                                                                                                        |             |      |
|                                                     |                              | BTU/h       | 85,300                                                                                                                                                                                                                                                        |             |      |
|                                                     | Power input                  |             | kW                                                                                                                                                                                                                                                            | 4.71        |      |
|                                                     | Current input                |             | A                                                                                                                                                                                                                                                             | 7.9-7.5-7.2 |      |
|                                                     | COP                          |             | kW/kW                                                                                                                                                                                                                                                         | 5.30        |      |
|                                                     | (Nominal)                    | *3          | kW                                                                                                                                                                                                                                                            | 22.4        |      |
|                                                     |                              |             | kcal/h                                                                                                                                                                                                                                                        | 20,000      |      |
|                                                     |                              |             | BTU/h                                                                                                                                                                                                                                                         | 76,400      |      |
|                                                     |                              | Power input |                                                                                                                                                                                                                                                               | kW          | 4.14 |
| Current input                                       |                              | A           | 6.9-6.6-6.3                                                                                                                                                                                                                                                   |             |      |
| COP                                                 |                              | kW/kW       | 5.41                                                                                                                                                                                                                                                          |             |      |
| Temp. range of<br>heating                           | Indoor                       | D.B.        | 15.0~27.0°C (59~81°F)                                                                                                                                                                                                                                         |             |      |
|                                                     | Outdoor                      | W.B.        | -20.0~15.5°C (-4~60°F)                                                                                                                                                                                                                                        |             |      |
| Indoor unit<br>connectable                          | Total capacity               |             | 50~150%                                                                                                                                                                                                                                                       |             |      |
|                                                     | Model/Quantity               |             | P15~P250/1~20                                                                                                                                                                                                                                                 |             |      |
| Sound pressure level (measured in anechoic room) *4 |                              | dB <A>      | 59.0/59.0                                                                                                                                                                                                                                                     |             |      |
| Sound power level (measured in anechoic room) *4    |                              | dB <A>      | 76.0/78.0                                                                                                                                                                                                                                                     |             |      |
| Refrigerant<br>piping diameter                      | High pressure                | mm (in.)    | 15.88 (5/8) Brazed                                                                                                                                                                                                                                            |             |      |
|                                                     | Low pressure                 | mm (in.)    | 19.05 (3/4) Brazed                                                                                                                                                                                                                                            |             |      |
| FAN                                                 | Type x Quantity              |             | Propeller fan x 1                                                                                                                                                                                                                                             |             |      |
|                                                     | Air flow rate                | m³/min      | 170                                                                                                                                                                                                                                                           |             |      |
|                                                     |                              | L/s         | 2,833                                                                                                                                                                                                                                                         |             |      |
|                                                     |                              | cfm         | 6,003                                                                                                                                                                                                                                                         |             |      |
|                                                     | Control, Driving mechanism   |             | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                      |             |      |
|                                                     | Motor output                 |             | kW                                                                                                                                                                                                                                                            | 0.92 x 1    |      |
|                                                     | *5 External static press.    |             | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                   |             |      |
| Compressor                                          | Type                         |             | Inverter scroll hermetic compressor                                                                                                                                                                                                                           |             |      |
|                                                     | Manufacture                  |             | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                                                                                                                                                                                   |             |      |
|                                                     | Starting method              |             | Inverter                                                                                                                                                                                                                                                      |             |      |
|                                                     | Motor output                 | kW          | 5.6                                                                                                                                                                                                                                                           |             |      |
|                                                     | Case heater                  | kW          | -                                                                                                                                                                                                                                                             |             |      |
|                                                     | Lubricant                    |             | MEL32                                                                                                                                                                                                                                                         |             |      |
| External finish                                     |                              |             | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                              |             |      |
| External dimension H x W x D                        |                              | mm          | 1,858 (1,798 without legs) x 920 x 740                                                                                                                                                                                                                        |             |      |
|                                                     |                              | in.         | 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16                                                                                                                                                                                                            |             |      |
| Protection devices                                  | High pressure protection     |             | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                              |             |      |
|                                                     | Inverter circuit (COMP./FAN) |             | Over-heat protection, Over-current protection                                                                                                                                                                                                                 |             |      |
|                                                     | Compressor                   |             | -                                                                                                                                                                                                                                                             |             |      |
|                                                     | Fan motor                    |             | -                                                                                                                                                                                                                                                             |             |      |
| Refrigerant                                         | Type x original charge       |             | R410A x 5.2 kg (12 lbs)                                                                                                                                                                                                                                       |             |      |
|                                                     | Control                      |             | Indoor LEV and BC controller                                                                                                                                                                                                                                  |             |      |
| Net weight                                          |                              | kg (lbs)    | 229 (505)                                                                                                                                                                                                                                                     |             |      |
| Heat exchanger                                      |                              |             | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                        |             |      |
| HIC circuit (HIC: Heat Inter-Changer)               |                              |             | -                                                                                                                                                                                                                                                             |             |      |
| Defrosting method                                   |                              |             | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                |             |      |
| Drawing                                             | External                     |             | WKS94T748                                                                                                                                                                                                                                                     |             |      |
|                                                     | Wiring                       |             | WKE94G339                                                                                                                                                                                                                                                     |             |      |
| Standard attachment                                 | Document                     |             | Installation Manual                                                                                                                                                                                                                                           |             |      |
|                                                     | Accessory                    |             | -                                                                                                                                                                                                                                                             |             |      |
| Optional parts                                      |                              |             | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1<br>BC controller: CMB-P104,106,108,1012,1016V-J<br>Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA<br>Sub BC controller: CMB-P104, 108V-KB                                                            |             |      |
| Remarks                                             |                              |             | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>Due to continuing improvement, above specifications may be subject to change without notice. |             |      |

## Notes:

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)  
Eurovent registered
- Cooling mode/Heating mode
- External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).  
Consult your dealer about the specification when setting External static pressure option.

## Unit converter

|       |                              |
|-------|------------------------------|
| BTU/h | =kW x 3,412                  |
| cfm   | =m <sup>3</sup> /min x 35.31 |
| lbs   | =kg/0.4536                   |

\*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

Outdoor units

| Model                                               |                              |                     | PURY-P250YNW-A (-BS)                                                                                                                                                                                                                                          |              |      |
|-----------------------------------------------------|------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------|
| Power source                                        |                              |                     | 3-phase 4-wire 380-400-415 V 50/60 Hz                                                                                                                                                                                                                         |              |      |
| Cooling capacity<br>(Nominal)                       | *1                           | kW                  | 28.0                                                                                                                                                                                                                                                          |              |      |
|                                                     |                              | kcal/h              | 25,000                                                                                                                                                                                                                                                        |              |      |
|                                                     |                              | BTU/h               | 95,500                                                                                                                                                                                                                                                        |              |      |
|                                                     |                              | Power input         | kW                                                                                                                                                                                                                                                            | 5.97         |      |
|                                                     |                              | Current input       | A                                                                                                                                                                                                                                                             | 10.0-9.5-9.2 |      |
|                                                     |                              | EER                 | kW/kW                                                                                                                                                                                                                                                         | 4.69         |      |
| Temp. range of<br>cooling                           | Indoor                       | W.B.                | 15.0~24.0°C (59~75°F)                                                                                                                                                                                                                                         |              |      |
|                                                     | Outdoor                      | D.B.                | -5.0~52.0°C (23~126°F)                                                                                                                                                                                                                                        |              |      |
| Heating capacity<br>(Max)                           | *2                           | kW                  | 31.5                                                                                                                                                                                                                                                          |              |      |
|                                                     |                              | kcal/h              | 27,100                                                                                                                                                                                                                                                        |              |      |
|                                                     |                              | BTU/h               | 107,500                                                                                                                                                                                                                                                       |              |      |
|                                                     |                              | Power input         | kW                                                                                                                                                                                                                                                            | 6.06         |      |
|                                                     |                              | Current input       | A                                                                                                                                                                                                                                                             | 10.2-9.7-9.3 |      |
|                                                     |                              | COP                 | kW/kW                                                                                                                                                                                                                                                         | 5.19         |      |
|                                                     | (Nominal)                    | *3                  | kW                                                                                                                                                                                                                                                            | 28.0         |      |
|                                                     |                              |                     | kcal/h                                                                                                                                                                                                                                                        | 25,000       |      |
|                                                     |                              |                     | BTU/h                                                                                                                                                                                                                                                         | 95,500       |      |
|                                                     |                              |                     | Power input                                                                                                                                                                                                                                                   | kW           | 5.27 |
| Current input                                       |                              |                     | A                                                                                                                                                                                                                                                             | 8.8-8.4-8.1  |      |
| COP                                                 |                              |                     | kW/kW                                                                                                                                                                                                                                                         | 5.31         |      |
| Temp. range of<br>heating                           | Indoor                       | D.B.                | 15.0~27.0°C (59~81°F)                                                                                                                                                                                                                                         |              |      |
|                                                     | Outdoor                      | W.B.                | -20.0~15.5°C (-4~60°F)                                                                                                                                                                                                                                        |              |      |
| Indoor unit<br>connectable                          | Total capacity               |                     | 50~150%                                                                                                                                                                                                                                                       |              |      |
|                                                     | Model/Quantity               |                     | P15~P250/1~25                                                                                                                                                                                                                                                 |              |      |
| Sound pressure level (measured in anechoic room) *4 |                              |                     | dB <A>                                                                                                                                                                                                                                                        | 60.5/61.0    |      |
| Sound power level (measured in anechoic room) *4    |                              |                     | dB <A>                                                                                                                                                                                                                                                        | 78.5/80.0    |      |
| Refrigerant<br>piping diameter                      | High pressure                | mm (in.)            | 19.05 (3/4) Brazed                                                                                                                                                                                                                                            |              |      |
|                                                     | Low pressure                 | mm (in.)            | 22.2 (7/8) Brazed                                                                                                                                                                                                                                             |              |      |
| FAN                                                 | Type x Quantity              |                     | Propeller fan x 1                                                                                                                                                                                                                                             |              |      |
|                                                     | Air flow rate                | m <sup>3</sup> /min | 185                                                                                                                                                                                                                                                           |              |      |
|                                                     |                              | L/s                 | 3,083                                                                                                                                                                                                                                                         |              |      |
|                                                     |                              | cfm                 | 6,532                                                                                                                                                                                                                                                         |              |      |
|                                                     | Control, Driving mechanism   |                     | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                      |              |      |
|                                                     | Motor output                 | kW                  | 0.92 x 1                                                                                                                                                                                                                                                      |              |      |
|                                                     | *5 External static press.    |                     | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                   |              |      |
| Compressor                                          | Type                         |                     | Inverter scroll hermetic compressor                                                                                                                                                                                                                           |              |      |
|                                                     | Manufacture                  |                     | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                                                                                                                                                                                   |              |      |
|                                                     | Starting method              |                     | Inverter                                                                                                                                                                                                                                                      |              |      |
|                                                     | Motor output                 | kW                  | 7.0                                                                                                                                                                                                                                                           |              |      |
|                                                     | Case heater                  | kW                  | -                                                                                                                                                                                                                                                             |              |      |
|                                                     | Lubricant                    |                     | MEL32                                                                                                                                                                                                                                                         |              |      |
| External finish                                     |                              |                     | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                              |              |      |
| External dimension H x W x D                        |                              | mm                  | 1,858 (1,798 without legs) x 920 x 740                                                                                                                                                                                                                        |              |      |
|                                                     |                              | in.                 | 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16                                                                                                                                                                                                            |              |      |
| Protection devices                                  | High pressure protection     |                     | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                              |              |      |
|                                                     | Inverter circuit (COMP./FAN) |                     | Over-heat protection, Over-current protection                                                                                                                                                                                                                 |              |      |
|                                                     | Compressor                   |                     | -                                                                                                                                                                                                                                                             |              |      |
|                                                     | Fan motor                    |                     | -                                                                                                                                                                                                                                                             |              |      |
| Refrigerant                                         | Type x original charge       |                     | R410A x 5.2 kg (12 lbs)                                                                                                                                                                                                                                       |              |      |
|                                                     | Control                      |                     | Indoor LEV and BC controller                                                                                                                                                                                                                                  |              |      |
| Net weight                                          |                              | kg (lbs)            | 229 (505)                                                                                                                                                                                                                                                     |              |      |
| Heat exchanger                                      |                              |                     | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                        |              |      |
| HIC circuit (HIC: Heat Inter-Changer)               |                              |                     | -                                                                                                                                                                                                                                                             |              |      |
| Defrosting method                                   |                              |                     | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                |              |      |
| Drawing                                             | External                     |                     | WKS94T748                                                                                                                                                                                                                                                     |              |      |
|                                                     | Wiring                       |                     | WKE94G339                                                                                                                                                                                                                                                     |              |      |
| Standard attachment                                 | Document                     |                     | Installation Manual                                                                                                                                                                                                                                           |              |      |
|                                                     | Accessory                    |                     | -                                                                                                                                                                                                                                                             |              |      |
| Optional parts                                      |                              |                     | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1<br>BC controller: CMB-P104,106,108,1012,1016V-J<br>Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA<br>Sub BC controller: CMB-P104, 108V-KB                                                            |              |      |
| Remarks                                             |                              |                     | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>Due to continuing improvement, above specifications may be subject to change without notice. |              |      |

PURY-P-Y(S)NW-A

| Notes:                                                                                                                                                                                                                                     | Unit converter                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1. Nominal cooling conditions (subject to JIS B8615-2)<br>Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)         | BTU/h = kW x 3,412                                          |
| 2. Nominal heating conditions (subject to JIS B8615-2)<br>Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)                               | cfm = m <sup>3</sup> /min x 35.31                           |
| 3. Nominal heating conditions (subject to JIS B8615-2)<br>Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)<br>Eurovent registered        | lbs = kg/0.4536                                             |
| 4. Cooling mode/Heating mode                                                                                                                                                                                                               |                                                             |
| 5. External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH <sub>2</sub> O, 6.1 mmH <sub>2</sub> O, 8.2 mmH <sub>2</sub> O).<br>Consult your dealer about the specification when setting External static pressure option. | *Above specification data is subject to rounding variation. |

# 1. SPECIFICATIONS

Outdoor units

|                                                     |                              |                                             |                                                                                                                                                                                                                                                               |                |                |  |
|-----------------------------------------------------|------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|--|
| Model                                               |                              |                                             | PURY-P300YNW-A (-BS)                                                                                                                                                                                                                                          |                |                |  |
| Power source                                        |                              |                                             | 3-phase 4-wire 380-400-415 V 50/60 Hz                                                                                                                                                                                                                         |                |                |  |
| Cooling capacity<br>(Nominal)                       | *1                           | kW                                          | 33.5                                                                                                                                                                                                                                                          |                |                |  |
|                                                     |                              | kcal/h                                      | 30,000                                                                                                                                                                                                                                                        |                |                |  |
|                                                     |                              | BTU/h                                       | 114,300                                                                                                                                                                                                                                                       |                |                |  |
|                                                     |                              | Power input                                 | kW                                                                                                                                                                                                                                                            | 7.54           |                |  |
|                                                     |                              | Current input                               | A                                                                                                                                                                                                                                                             | 12.7-12.0-11.6 |                |  |
|                                                     |                              | EER                                         | kW/kW                                                                                                                                                                                                                                                         | 4.44           |                |  |
| Temp. range of<br>cooling                           | Indoor                       | W.B.                                        | 15.0~24.0°C (59~75°F)                                                                                                                                                                                                                                         |                |                |  |
|                                                     | Outdoor                      | D.B.                                        | -5.0~52.0°C (23~126°F)                                                                                                                                                                                                                                        |                |                |  |
| Heating capacity<br>(Max)                           | *2                           | kW                                          | 37.5                                                                                                                                                                                                                                                          |                |                |  |
|                                                     |                              | kcal/h                                      | 32,300                                                                                                                                                                                                                                                        |                |                |  |
|                                                     |                              | BTU/h                                       | 128,000                                                                                                                                                                                                                                                       |                |                |  |
|                                                     |                              | Power input                                 | kW                                                                                                                                                                                                                                                            | 8.38           |                |  |
|                                                     |                              | Current input                               | A                                                                                                                                                                                                                                                             | 14.1-13.4-12.9 |                |  |
|                                                     |                              | COP                                         | kW/kW                                                                                                                                                                                                                                                         | 4.47           |                |  |
|                                                     | (Nominal)                    | *3                                          | kW                                                                                                                                                                                                                                                            | 33.5           |                |  |
|                                                     |                              |                                             | kcal/h                                                                                                                                                                                                                                                        | 30,000         |                |  |
|                                                     |                              |                                             | BTU/h                                                                                                                                                                                                                                                         | 114,300        |                |  |
|                                                     |                              |                                             | Power input                                                                                                                                                                                                                                                   | kW             | 6.80           |  |
|                                                     |                              |                                             | Current input                                                                                                                                                                                                                                                 | A              | 11.4-10.9-10.5 |  |
|                                                     |                              |                                             | COP                                                                                                                                                                                                                                                           | kW/kW          | 4.92           |  |
| Temp. range of<br>heating                           | Indoor                       | D.B.                                        | 15.0~27.0°C (59~81°F)                                                                                                                                                                                                                                         |                |                |  |
|                                                     | Outdoor                      | W.B.                                        | -20.0~15.5°C (-4~60°F)                                                                                                                                                                                                                                        |                |                |  |
| Indoor unit<br>connectable                          | Total capacity               |                                             | 50~150%                                                                                                                                                                                                                                                       |                |                |  |
|                                                     | Model/Quantity               |                                             | P15~P250/1~30                                                                                                                                                                                                                                                 |                |                |  |
| Sound pressure level (measured in anechoic room) *4 |                              | dB <A>                                      | 61.0/67.0                                                                                                                                                                                                                                                     |                |                |  |
| Sound power level (measured in anechoic room) *4    |                              | dB <A>                                      | 80.0/86.5                                                                                                                                                                                                                                                     |                |                |  |
| Refrigerant<br>piping diameter                      | High pressure                | mm (in.)                                    | 19.05 (3/4) Brazed                                                                                                                                                                                                                                            |                |                |  |
|                                                     | Low pressure                 | mm (in.)                                    | 22.2 (7/8) Brazed                                                                                                                                                                                                                                             |                |                |  |
| FAN                                                 | Type x Quantity              |                                             | Propeller fan x 1                                                                                                                                                                                                                                             |                |                |  |
|                                                     | Air flow rate                | m <sup>3</sup> /min                         | 240                                                                                                                                                                                                                                                           |                |                |  |
|                                                     |                              | L/s                                         | 4,000                                                                                                                                                                                                                                                         |                |                |  |
|                                                     |                              | cfm                                         | 8,474                                                                                                                                                                                                                                                         |                |                |  |
|                                                     | Control, Driving mechanism   |                                             | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                      |                |                |  |
|                                                     | Motor output                 | kW                                          | 0.92 x 1                                                                                                                                                                                                                                                      |                |                |  |
|                                                     | *5 External static press.    |                                             | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                   |                |                |  |
|                                                     | Compressor                   | Type                                        | Inverter scroll hermetic compressor                                                                                                                                                                                                                           |                |                |  |
| Manufacture                                         |                              | AC&R Works, MITSUBISHI ELECTRIC CORPORATION |                                                                                                                                                                                                                                                               |                |                |  |
| Starting method                                     |                              | Inverter                                    |                                                                                                                                                                                                                                                               |                |                |  |
| Motor output                                        |                              | kW                                          | 7.9                                                                                                                                                                                                                                                           |                |                |  |
| Case heater                                         |                              | kW                                          | -                                                                                                                                                                                                                                                             |                |                |  |
| Lubricant                                           |                              | MEL32                                       |                                                                                                                                                                                                                                                               |                |                |  |
| External finish                                     |                              |                                             | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                              |                |                |  |
| External dimension H x W x D                        |                              | mm                                          | 1,858 (1,798 without legs) x 920 x 740                                                                                                                                                                                                                        |                |                |  |
|                                                     |                              | in.                                         | 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16                                                                                                                                                                                                            |                |                |  |
| Protection devices                                  | High pressure protection     |                                             | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                              |                |                |  |
|                                                     | Inverter circuit (COMP./FAN) |                                             | Over-heat protection, Over-current protection                                                                                                                                                                                                                 |                |                |  |
|                                                     | Compressor                   |                                             | -                                                                                                                                                                                                                                                             |                |                |  |
|                                                     | Fan motor                    |                                             | -                                                                                                                                                                                                                                                             |                |                |  |
| Refrigerant                                         | Type x original charge       |                                             | R410A x 5.2 kg (12 lbs)                                                                                                                                                                                                                                       |                |                |  |
|                                                     | Control                      |                                             | Indoor LEV and BC controller                                                                                                                                                                                                                                  |                |                |  |
| Net weight                                          |                              | kg (lbs)                                    | 231 (510)                                                                                                                                                                                                                                                     |                |                |  |
| Heat exchanger                                      |                              |                                             | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                        |                |                |  |
| HIC circuit (HIC: Heat Inter-Changer)               |                              |                                             | -                                                                                                                                                                                                                                                             |                |                |  |
| Defrosting method                                   |                              |                                             | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                |                |                |  |
| Drawing                                             | External                     |                                             | WKS94T748                                                                                                                                                                                                                                                     |                |                |  |
|                                                     | Wiring                       |                                             | WKE94G339                                                                                                                                                                                                                                                     |                |                |  |
| Standard attachment                                 | Document                     |                                             | Installation Manual                                                                                                                                                                                                                                           |                |                |  |
|                                                     | Accessory                    |                                             | -                                                                                                                                                                                                                                                             |                |                |  |
| Optional parts                                      |                              |                                             | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1<br>BC controller: CMB-P104,106,108,1012,1016V-J<br>Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA<br>Sub BC controller: CMB-P104, 108V-KB                                                            |                |                |  |
| Remarks                                             |                              |                                             | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>Due to continuing improvement, above specifications may be subject to change without notice. |                |                |  |

## Notes:

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)  
Eurovent registered
- Cooling mode/Heating mode
- External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).  
Consult your dealer about the specification when setting External static pressure option.

## Unit converter

|       |                              |
|-------|------------------------------|
| BTU/h | =kW x 3,412                  |
| cfm   | =m <sup>3</sup> /min x 35.31 |
| lbs   | =kg/0.4536                   |

\*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

Outdoor units

| Model                                               |                              |               | PURY-P400YNW-A (-BS)                                                                                                                                                                                                                                          |                |       |
|-----------------------------------------------------|------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------|
| Power source                                        |                              |               | 3-phase 4-wire 380-400-415 V 50/60 Hz                                                                                                                                                                                                                         |                |       |
| Cooling capacity<br>(Nominal)                       | *1                           | kW            | 45.0                                                                                                                                                                                                                                                          |                |       |
|                                                     |                              | kcal/h        | 40,000                                                                                                                                                                                                                                                        |                |       |
|                                                     |                              | BTU/h         | 153,500                                                                                                                                                                                                                                                       |                |       |
|                                                     |                              | Power input   | kW                                                                                                                                                                                                                                                            | 11.59          |       |
|                                                     |                              | Current input | A                                                                                                                                                                                                                                                             | 19.5-18.5-17.9 |       |
|                                                     |                              | EER           | kW/kW                                                                                                                                                                                                                                                         | 3.88           |       |
| Temp. range of<br>cooling                           | Indoor                       | W.B.          | 15.0~24.0°C (59~75°F)                                                                                                                                                                                                                                         |                |       |
|                                                     | Outdoor                      | D.B.          | -5.0~52.0°C (23~126°F)                                                                                                                                                                                                                                        |                |       |
| Heating capacity<br>(Max)                           | *2                           | kW            | 50.0                                                                                                                                                                                                                                                          |                |       |
|                                                     |                              | kcal/h        | 45,000                                                                                                                                                                                                                                                        |                |       |
|                                                     |                              | BTU/h         | 170,600                                                                                                                                                                                                                                                       |                |       |
|                                                     |                              | Power input   | kW                                                                                                                                                                                                                                                            | 13.65          |       |
|                                                     |                              | Current input | A                                                                                                                                                                                                                                                             | 23.0-21.8-21.0 |       |
|                                                     |                              | COP           | kW/kW                                                                                                                                                                                                                                                         | 3.66           |       |
|                                                     | (Nominal)                    | *3            | kW                                                                                                                                                                                                                                                            | 45.0           |       |
|                                                     |                              |               | kcal/h                                                                                                                                                                                                                                                        | 40,000         |       |
|                                                     |                              |               | BTU/h                                                                                                                                                                                                                                                         | 153,500        |       |
|                                                     |                              |               | Power input                                                                                                                                                                                                                                                   | kW             | 10.29 |
|                                                     |                              | Current input | A                                                                                                                                                                                                                                                             | 17.3-16.5-15.9 |       |
|                                                     | COP                          | kW/kW         | 4.37                                                                                                                                                                                                                                                          |                |       |
| Temp. range of<br>heating                           | Indoor                       | D.B.          | 15.0~27.0°C (59~81°F)                                                                                                                                                                                                                                         |                |       |
|                                                     | Outdoor                      | W.B.          | -20.0~15.5°C (-4~60°F)                                                                                                                                                                                                                                        |                |       |
| Indoor unit<br>connectable                          | Total capacity               |               | 50~150%                                                                                                                                                                                                                                                       |                |       |
|                                                     | Model/Quantity               |               | P15~P250/1~40                                                                                                                                                                                                                                                 |                |       |
| Sound pressure level (measured in anechoic room) *4 |                              |               | dB <A>                                                                                                                                                                                                                                                        | 65.0/69.0      |       |
| Sound power level (measured in anechoic room) *4    |                              |               | dB <A>                                                                                                                                                                                                                                                        | 83.0/88.0      |       |
| Refrigerant<br>piping diameter                      | High pressure                | mm (in.)      | 22.2 (7/8) Brazed                                                                                                                                                                                                                                             |                |       |
|                                                     | Low pressure                 | mm (in.)      | 28.58 (1-1/8) Brazed                                                                                                                                                                                                                                          |                |       |
| FAN                                                 | Type x Quantity              |               | Propeller fan x 2                                                                                                                                                                                                                                             |                |       |
|                                                     | Air flow rate                | m³/min        | 315                                                                                                                                                                                                                                                           |                |       |
|                                                     |                              | L/s           | 5,250                                                                                                                                                                                                                                                         |                |       |
|                                                     |                              | cfm           | 11,123                                                                                                                                                                                                                                                        |                |       |
|                                                     | Control, Driving mechanism   |               | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                      |                |       |
|                                                     | Motor output                 | kW            | 0.46 x 2                                                                                                                                                                                                                                                      |                |       |
|                                                     | *5 External static press.    |               | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                   |                |       |
| Compressor                                          | Type                         |               | Inverter scroll hermetic compressor                                                                                                                                                                                                                           |                |       |
|                                                     | Manufacture                  |               | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                                                                                                                                                                                   |                |       |
|                                                     | Starting method              |               | Inverter                                                                                                                                                                                                                                                      |                |       |
|                                                     | Motor output                 | kW            | 10.9                                                                                                                                                                                                                                                          |                |       |
|                                                     | Case heater                  | kW            | -                                                                                                                                                                                                                                                             |                |       |
|                                                     | Lubricant                    |               | MEL32                                                                                                                                                                                                                                                         |                |       |
| External finish                                     |                              |               | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                              |                |       |
| External dimension H x W x D                        |                              | mm            | 1,858 (1,798 without legs) x 1,240 x 740                                                                                                                                                                                                                      |                |       |
|                                                     |                              | in.           | 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16                                                                                                                                                                                                            |                |       |
| Protection devices                                  | High pressure protection     |               | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                              |                |       |
|                                                     | Inverter circuit (COMP./FAN) |               | Over-heat protection, Over-current protection                                                                                                                                                                                                                 |                |       |
|                                                     | Compressor                   |               | -                                                                                                                                                                                                                                                             |                |       |
|                                                     | Fan motor                    |               | -                                                                                                                                                                                                                                                             |                |       |
| Refrigerant                                         | Type x original charge       |               | R410A x 8.0 kg (18 lbs)                                                                                                                                                                                                                                       |                |       |
|                                                     | Control                      |               | Indoor LEV and BC controller                                                                                                                                                                                                                                  |                |       |
| Net weight                                          |                              | kg (lbs)      | 273 (602)                                                                                                                                                                                                                                                     |                |       |
| Heat exchanger                                      |                              |               | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                        |                |       |
| HIC circuit (HIC: Heat Inter-Changer)               |                              |               | -                                                                                                                                                                                                                                                             |                |       |
| Defrosting method                                   |                              |               | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                |                |       |
| Drawing                                             | External                     |               | WKS94T749                                                                                                                                                                                                                                                     |                |       |
|                                                     | Wiring                       |               | WKE94G341                                                                                                                                                                                                                                                     |                |       |
| Standard attachment                                 | Document                     |               | Installation Manual                                                                                                                                                                                                                                           |                |       |
|                                                     | Accessory                    |               | -                                                                                                                                                                                                                                                             |                |       |
| Optional parts                                      |                              |               | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1                                                                                                                                                                                                                |                |       |
|                                                     |                              |               | Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA<br>Sub BC controller: CMB-P104, 108V-KB                                                                                                                                                              |                |       |
| Remarks                                             |                              |               | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>Due to continuing improvement, above specifications may be subject to change without notice. |                |       |

## Notes:

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°CDB./19°CWB. (81°FDB./66°FWB.), Outdoor: 35°CDB./24°CWB. (95°FDB./75°FWB.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°CDB. (68°FDB.), Outdoor: 7°CDB./6°CWB. (45°FDB./43°FWB.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)  
Eurovent registered
- Cooling mode/Heating mode
- External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).  
Consult your dealer about the specification when setting External static pressure option.

## Unit converter

|       |                              |
|-------|------------------------------|
| BTU/h | =kW x 3,412                  |
| cfm   | =m <sup>3</sup> /min x 35.31 |
| lbs   | =kg/0.4536                   |

\*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

Outdoor units

| Model                                               |                              |                     | PURY-P450YNW-A (-BS)                                                                                                                                                                                                                                          |         |  |
|-----------------------------------------------------|------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--|
| Power source                                        |                              |                     | 3-phase 4-wire 380-400-415 V 50/60 Hz                                                                                                                                                                                                                         |         |  |
| Cooling capacity<br>(Nominal)                       | *1                           | kW                  | 50.0                                                                                                                                                                                                                                                          |         |  |
|                                                     |                              | kcal/h              | 45,000                                                                                                                                                                                                                                                        |         |  |
|                                                     |                              | BTU/h               | 170,600                                                                                                                                                                                                                                                       |         |  |
|                                                     | Power input                  | kW                  | 12.37                                                                                                                                                                                                                                                         |         |  |
|                                                     | Current input                | A                   | 20.8-19.8-19.1                                                                                                                                                                                                                                                |         |  |
|                                                     | EER                          | kW/kW               | 4.04                                                                                                                                                                                                                                                          |         |  |
| Temp. range of<br>cooling                           | Indoor                       | W.B.                | 15.0~24.0°C (59~75°F)                                                                                                                                                                                                                                         |         |  |
|                                                     | Outdoor                      | D.B.                | -5.0~52.0°C (23~126°F)                                                                                                                                                                                                                                        |         |  |
| Heating capacity<br>(Max)                           | *2                           | kW                  | 56.0                                                                                                                                                                                                                                                          |         |  |
|                                                     |                              | kcal/h              | 50,000                                                                                                                                                                                                                                                        |         |  |
|                                                     |                              | BTU/h               | 191,100                                                                                                                                                                                                                                                       |         |  |
|                                                     | Power input                  | kW                  | 13.48                                                                                                                                                                                                                                                         |         |  |
|                                                     | Current input                | A                   | 22.7-21.6-20.8                                                                                                                                                                                                                                                |         |  |
|                                                     | COP                          | kW/kW               | 4.15                                                                                                                                                                                                                                                          |         |  |
|                                                     | (Nominal)                    | *3                  | kW                                                                                                                                                                                                                                                            | 50.0    |  |
|                                                     |                              |                     | kcal/h                                                                                                                                                                                                                                                        | 45,000  |  |
|                                                     |                              |                     | BTU/h                                                                                                                                                                                                                                                         | 170,600 |  |
|                                                     |                              | Power input         | kW                                                                                                                                                                                                                                                            | 10.91   |  |
| Current input                                       |                              | A                   | 18.4-17.4-16.8                                                                                                                                                                                                                                                |         |  |
| COP                                                 | kW/kW                        | 4.58                |                                                                                                                                                                                                                                                               |         |  |
| Temp. range of<br>heating                           | Indoor                       | D.B.                | 15.0~27.0°C (59~81°F)                                                                                                                                                                                                                                         |         |  |
|                                                     | Outdoor                      | W.B.                | -20.0~15.5°C (-4~60°F)                                                                                                                                                                                                                                        |         |  |
| Indoor unit<br>connectable                          | Total capacity               |                     | 50~150%                                                                                                                                                                                                                                                       |         |  |
|                                                     | Model/Quantity               |                     | P15~P250/1~45                                                                                                                                                                                                                                                 |         |  |
| Sound pressure level (measured in anechoic room) *4 |                              | dB <A>              | 65.5/70.0                                                                                                                                                                                                                                                     |         |  |
| Sound power level (measured in anechoic room) *4    |                              | dB <A>              | 83.0/89.0                                                                                                                                                                                                                                                     |         |  |
| Refrigerant<br>piping diameter                      | High pressure                | mm (in.)            | 22.2 (7/8) Brazed                                                                                                                                                                                                                                             |         |  |
|                                                     | Low pressure                 | mm (in.)            | 28.58 (1-1/8) Brazed                                                                                                                                                                                                                                          |         |  |
| FAN                                                 | Type x Quantity              |                     | Propeller fan x 2                                                                                                                                                                                                                                             |         |  |
|                                                     | Air flow rate                | m <sup>3</sup> /min | 315                                                                                                                                                                                                                                                           |         |  |
|                                                     |                              | L/s                 | 5,250                                                                                                                                                                                                                                                         |         |  |
|                                                     |                              | cfm                 | 11,123                                                                                                                                                                                                                                                        |         |  |
|                                                     | Control, Driving mechanism   |                     | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                      |         |  |
|                                                     | Motor output                 | kW                  | 0.46 x 2                                                                                                                                                                                                                                                      |         |  |
|                                                     | *5 External static press.    |                     | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                   |         |  |
| Compressor                                          | Type                         |                     | Inverter scroll hermetic compressor                                                                                                                                                                                                                           |         |  |
|                                                     | Manufacture                  |                     | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                                                                                                                                                                                   |         |  |
|                                                     | Starting method              |                     | Inverter                                                                                                                                                                                                                                                      |         |  |
|                                                     | Motor output                 | kW                  | 12.4                                                                                                                                                                                                                                                          |         |  |
|                                                     | Case heater                  | kW                  | -                                                                                                                                                                                                                                                             |         |  |
|                                                     | Lubricant                    |                     | MEL32                                                                                                                                                                                                                                                         |         |  |
| External finish                                     |                              |                     | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                              |         |  |
| External dimension H x W x D                        |                              | mm                  | 1,858 (1,798 without legs) x 1,240 x 740                                                                                                                                                                                                                      |         |  |
|                                                     |                              | in.                 | 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16                                                                                                                                                                                                            |         |  |
| Protection devices                                  | High pressure protection     |                     | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                              |         |  |
|                                                     | Inverter circuit (COMP./FAN) |                     | Over-heat protection, Over-current protection                                                                                                                                                                                                                 |         |  |
|                                                     | Compressor                   |                     | -                                                                                                                                                                                                                                                             |         |  |
|                                                     | Fan motor                    |                     | -                                                                                                                                                                                                                                                             |         |  |
| Refrigerant                                         | Type x original charge       |                     | R410A x 10.8 kg (24 lbs)                                                                                                                                                                                                                                      |         |  |
|                                                     | Control                      |                     | Indoor LEV and BC controller                                                                                                                                                                                                                                  |         |  |
| Net weight                                          |                              | kg (lbs)            | 293 (646)                                                                                                                                                                                                                                                     |         |  |
| Heat exchanger                                      |                              |                     | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                        |         |  |
| HIC circuit (HIC: Heat Inter-Changer)               |                              |                     | -                                                                                                                                                                                                                                                             |         |  |
| Defrosting method                                   |                              |                     | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                |         |  |
| Drawing                                             | External                     |                     | WKS94T749                                                                                                                                                                                                                                                     |         |  |
|                                                     | Wiring                       |                     | WKE94G341                                                                                                                                                                                                                                                     |         |  |
| Standard attachment                                 | Document                     |                     | Installation Manual                                                                                                                                                                                                                                           |         |  |
|                                                     | Accessory                    |                     | -                                                                                                                                                                                                                                                             |         |  |
| Optional parts                                      |                              |                     | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1                                                                                                                                                                                                                |         |  |
|                                                     |                              |                     | Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA                                                                                                                                                                                                      |         |  |
|                                                     |                              |                     | Sub BC controller: CMB-P104, 108V-KB                                                                                                                                                                                                                          |         |  |
| Remarks                                             |                              |                     | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>Due to continuing improvement, above specifications may be subject to change without notice. |         |  |

PURY-P-Y(S)NW-A

| Notes:                                                                                                                                                                                                                                     | Unit converter                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1. Nominal cooling conditions (subject to JIS B8615-2)<br>Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)         | BTU/h = kW x 3,412                                          |
| 2. Nominal heating conditions (subject to JIS B8615-2)<br>Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)                               | cfm = m³/min x 35.31                                        |
| 3. Nominal heating conditions (subject to JIS B8615-2)<br>Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)<br>Eurovent registered        | lbs = kg/0.4536                                             |
| 4. Cooling mode/Heating mode                                                                                                                                                                                                               |                                                             |
| 5. External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH <sub>2</sub> O, 6.1 mmH <sub>2</sub> O, 8.2 mmH <sub>2</sub> O).<br>Consult your dealer about the specification when setting External static pressure option. | *Above specification data is subject to rounding variation. |

# 1. SPECIFICATIONS

Outdoor units

|                                                     |                              |                                                                                                                                                                                                                                                               |                                                                  |                |                |  |
|-----------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------|----------------|--|
| Model                                               |                              |                                                                                                                                                                                                                                                               | PURY-P500YNW-A (-BS)                                             |                |                |  |
| Power source                                        |                              |                                                                                                                                                                                                                                                               | 3-phase 4-wire 380-400-415 V 50/60 Hz                            |                |                |  |
| Cooling capacity<br>(Nominal)                       | *1                           | kW                                                                                                                                                                                                                                                            | 56.0                                                             |                |                |  |
|                                                     |                              | kcal/h                                                                                                                                                                                                                                                        | 50,000                                                           |                |                |  |
|                                                     |                              | BTU/h                                                                                                                                                                                                                                                         | 191,100                                                          |                |                |  |
|                                                     | Power input                  | kW                                                                                                                                                                                                                                                            | 12.72                                                            |                |                |  |
|                                                     |                              | Current input                                                                                                                                                                                                                                                 | A                                                                | 21.4-20.3-19.6 |                |  |
|                                                     |                              | EER                                                                                                                                                                                                                                                           | kW/kW                                                            | 4.40           |                |  |
| Temp. range of<br>cooling                           | Indoor                       | W.B.                                                                                                                                                                                                                                                          | 15.0~24.0°C (59~75°F)                                            |                |                |  |
|                                                     | Outdoor                      | D.B.                                                                                                                                                                                                                                                          | -5.0~52.0°C (23~126°F)                                           |                |                |  |
| Heating capacity<br>(Max)                           | *2                           | kW                                                                                                                                                                                                                                                            | 63.0                                                             |                |                |  |
|                                                     |                              | kcal/h                                                                                                                                                                                                                                                        | 54,200                                                           |                |                |  |
|                                                     |                              | BTU/h                                                                                                                                                                                                                                                         | 215,000                                                          |                |                |  |
|                                                     | Power input                  | kW                                                                                                                                                                                                                                                            | 15.28                                                            |                |                |  |
|                                                     |                              | Current input                                                                                                                                                                                                                                                 | A                                                                | 25.7-24.5-23.6 |                |  |
|                                                     |                              | COP                                                                                                                                                                                                                                                           | kW/kW                                                            | 4.12           |                |  |
|                                                     | (Nominal)                    | *3                                                                                                                                                                                                                                                            | kW                                                               | 56.0           |                |  |
|                                                     |                              |                                                                                                                                                                                                                                                               | kcal/h                                                           | 50,000         |                |  |
|                                                     |                              |                                                                                                                                                                                                                                                               | BTU/h                                                            | 191,100        |                |  |
|                                                     |                              | Power input                                                                                                                                                                                                                                                   | kW                                                               | 12.09          |                |  |
|                                                     |                              |                                                                                                                                                                                                                                                               | Current input                                                    | A              | 20.4-19.3-18.6 |  |
|                                                     |                              |                                                                                                                                                                                                                                                               | COP                                                              | kW/kW          | 4.63           |  |
| Temp. range of<br>heating                           | Indoor                       | D.B.                                                                                                                                                                                                                                                          | 15.0~27.0°C (59~81°F)                                            |                |                |  |
|                                                     | Outdoor                      | W.B.                                                                                                                                                                                                                                                          | -20.0~15.5°C (-4~60°F)                                           |                |                |  |
| Indoor unit<br>connectable                          | Total capacity               |                                                                                                                                                                                                                                                               | 50~150%                                                          |                |                |  |
|                                                     | Model/Quantity               |                                                                                                                                                                                                                                                               | P15~P250/1~50                                                    |                |                |  |
| Sound pressure level (measured in anechoic room) *4 |                              | dB <A>                                                                                                                                                                                                                                                        | 63.5/64.5                                                        |                |                |  |
| Sound power level (measured in anechoic room) *4    |                              | dB <A>                                                                                                                                                                                                                                                        | 82.0/84.0                                                        |                |                |  |
| Refrigerant<br>piping diameter                      | High pressure                | mm (in.)                                                                                                                                                                                                                                                      | 22.2 (7/8) Braze                                                 |                |                |  |
|                                                     | Low pressure                 | mm (in.)                                                                                                                                                                                                                                                      | 28.58 (1-1/8) Braze                                              |                |                |  |
| FAN                                                 | Type x Quantity              |                                                                                                                                                                                                                                                               | Propeller fan x 2                                                |                |                |  |
|                                                     | Air flow rate                | m <sup>3</sup> /min                                                                                                                                                                                                                                           | 295                                                              |                |                |  |
|                                                     |                              | L/s                                                                                                                                                                                                                                                           | 4,917                                                            |                |                |  |
|                                                     |                              | cfm                                                                                                                                                                                                                                                           | 10,416                                                           |                |                |  |
|                                                     | Control, Driving mechanism   |                                                                                                                                                                                                                                                               | Inverter-control, Direct-driven by motor                         |                |                |  |
|                                                     | Motor output                 | kW                                                                                                                                                                                                                                                            | 0.92 x 2                                                         |                |                |  |
|                                                     | *5 External static press.    | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                   |                                                                  |                |                |  |
| Compressor                                          | Type                         | Inverter scroll hermetic compressor                                                                                                                                                                                                                           |                                                                  |                |                |  |
|                                                     | Manufacture                  | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                                                                                                                                                                                   |                                                                  |                |                |  |
|                                                     | Starting method              | Inverter                                                                                                                                                                                                                                                      |                                                                  |                |                |  |
|                                                     | Motor output                 | kW                                                                                                                                                                                                                                                            | 13.0                                                             |                |                |  |
|                                                     | Case heater                  | kW                                                                                                                                                                                                                                                            | -                                                                |                |                |  |
|                                                     | Lubricant                    | MEL32                                                                                                                                                                                                                                                         |                                                                  |                |                |  |
| External finish                                     |                              | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                              |                                                                  |                |                |  |
| External dimension H x W x D                        |                              | mm                                                                                                                                                                                                                                                            | 1,858 (1,798 without legs) x 1,750 x 740                         |                |                |  |
|                                                     |                              | in.                                                                                                                                                                                                                                                           | 73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16             |                |                |  |
| Protection devices                                  | High pressure protection     |                                                                                                                                                                                                                                                               | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                |                |  |
|                                                     | Inverter circuit (COMP./FAN) |                                                                                                                                                                                                                                                               | Over-heat protection, Over-current protection                    |                |                |  |
|                                                     | Compressor                   |                                                                                                                                                                                                                                                               | -                                                                |                |                |  |
|                                                     | Fan motor                    |                                                                                                                                                                                                                                                               | -                                                                |                |                |  |
| Refrigerant                                         | Type x original charge       |                                                                                                                                                                                                                                                               | R410A x 10.8 kg (24 lbs)                                         |                |                |  |
|                                                     | Control                      |                                                                                                                                                                                                                                                               | Indoor LEV and BC controller                                     |                |                |  |
| Net weight                                          | kg (lbs)                     | 337 (743)                                                                                                                                                                                                                                                     |                                                                  |                |                |  |
| Heat exchanger                                      |                              | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                        |                                                                  |                |                |  |
| HIC circuit (HIC: Heat Inter-Changer)               |                              | -                                                                                                                                                                                                                                                             |                                                                  |                |                |  |
| Defrosting method                                   |                              | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                |                                                                  |                |                |  |
| Drawing                                             | External                     | WKS94T750                                                                                                                                                                                                                                                     |                                                                  |                |                |  |
|                                                     | Wiring                       | WKE94G342                                                                                                                                                                                                                                                     |                                                                  |                |                |  |
| Standard attachment                                 | Document                     | Installation Manual                                                                                                                                                                                                                                           |                                                                  |                |                |  |
|                                                     | Accessory                    | -                                                                                                                                                                                                                                                             |                                                                  |                |                |  |
| Optional parts                                      |                              | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1<br><br>Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA<br>Sub BC controller: CMB-P104, 108V-KB                                                                                                        |                                                                  |                |                |  |
| Remarks                                             |                              | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>Due to continuing improvement, above specifications may be subject to change without notice. |                                                                  |                |                |  |

## Notes:

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)  
Eurovent registered
- Cooling mode/Heating mode
- External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).  
Consult your dealer about the specification when setting External static pressure option.

## Unit converter

|       |                              |
|-------|------------------------------|
| BTU/h | =kW x 3,412                  |
| cfm   | =m <sup>3</sup> /min x 35.31 |
| lbs   | =kg/0.4536                   |

\*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

Outdoor units

|                                                     |                              |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |  |  |
|-----------------------------------------------------|------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|--|
| Model                                               |                              |                                             | PURY-P550YNW-A (-BS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |  |  |
| Power source                                        |                              |                                             | 3-phase 4-wire 380-400-415 V 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |  |  |
| Cooling capacity<br>(Nominal)                       | *1                           | kW                                          | 63.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |  |  |
|                                                     |                              | kcal/h                                      | 54,200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |  |  |
|                                                     |                              | BTU/h                                       | 215,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |  |  |
|                                                     | Power input                  | kW                                          | 16.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |  |  |
|                                                     | Current input                | A                                           | 27.0-25.7-24.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |  |  |
|                                                     |                              | EER                                         | kW/kW<br>3.93                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |  |  |
| Temp. range of<br>cooling                           | Indoor                       | W.B.                                        | 15.0~24.0°C (59~75°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |  |  |
|                                                     | Outdoor                      | D.B.                                        | -5.0~52.0°C (23~126°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |  |  |
| Heating capacity<br>(Max)                           | *2                           | kW                                          | 69.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |  |  |
|                                                     |                              | kcal/h                                      | 59,300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |  |  |
|                                                     |                              | BTU/h                                       | 235,400                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |  |  |
|                                                     | Power input                  | kW                                          | 17.91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |  |  |
|                                                     | Current input                | A                                           | 30.2-28.7-27.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |  |  |
|                                                     | COP                          | kW/kW                                       | 3.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |  |  |
|                                                     | (Nominal)                    | *3                                          | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 63.0      |  |  |
|                                                     |                              |                                             | kcal/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 54,200    |  |  |
|                                                     |                              |                                             | BTU/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 215,000   |  |  |
|                                                     |                              | Power input                                 | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 14.44     |  |  |
| Current input                                       |                              | A                                           | 24.3-23.1-22.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |  |  |
| COP                                                 | kW/kW                        | 4.36                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |  |  |
| Temp. range of<br>heating                           | Indoor                       | D.B.                                        | 15.0~27.0°C (59~81°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |  |  |
|                                                     | Outdoor                      | W.B.                                        | -20.0~15.5°C (-4~60°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |  |  |
| Indoor unit<br>connectable                          | Total capacity               |                                             | 50~150%                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |  |  |
|                                                     | Model/Quantity               |                                             | P15~P250/2~50                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |  |  |
| Sound pressure level (measured in anechoic room) *4 |                              |                                             | dB <A>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 66.0/70.0 |  |  |
| Sound power level (measured in anechoic room) *4    |                              |                                             | dB <A>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 83.5/89.0 |  |  |
| Refrigerant<br>piping diameter                      | High pressure                | mm (in.)                                    | 22.2 (7/8) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)                                                                                                                                                                                                                                                                                                                                                                                                               |           |  |  |
|                                                     | Low pressure                 | mm (in.)                                    | 28.58 (1-1/8) Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |  |  |
| FAN                                                 | Type x Quantity              |                                             | Propeller fan x 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |
|                                                     | Air flow rate                | m³/min                                      | 410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |  |  |
|                                                     |                              | L/s                                         | 6,833                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |  |  |
|                                                     |                              | cfm                                         | 14,477                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |  |  |
|                                                     | Control, Driving mechanism   |                                             | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |  |  |
|                                                     | Motor output                 | kW                                          | 0.92 x 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |  |  |
|                                                     | *5 External static press.    |                                             | 0 Pa (0 mmH₂O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |  |  |
| Compressor                                          | Type                         | Inverter scroll hermetic compressor         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |  |  |
|                                                     | Manufacture                  | AC&R Works, MITSUBISHI ELECTRIC CORPORATION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |  |  |
|                                                     | Starting method              | Inverter                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |  |  |
|                                                     | Motor output                 | kW                                          | 14.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |  |  |
|                                                     | Case heater                  | kW                                          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |
|                                                     | Lubricant                    | MEL32                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |  |  |
| External finish                                     |                              |                                             | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                                                                                                                                                                                                                                                      |           |  |  |
| External dimension H x W x D                        |                              | mm                                          | 1,858 (1,798 without legs) x 1,750 x 740                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |  |  |
|                                                     |                              | in.                                         | 73-3/16 (70-13/16 without legs) x 68-15/16 x 29-3/16                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |  |  |
| Protection devices                                  | High pressure protection     |                                             | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                                                                                                                                                                                                                                                      |           |  |  |
|                                                     | Inverter circuit (COMP./FAN) |                                             | Over-heat protection, Over-current protection                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |  |  |
|                                                     | Compressor                   |                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |
|                                                     | Fan motor                    |                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |
| Refrigerant                                         | Type x original charge       |                                             | R410A x 10.8 kg (24 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |  |  |
|                                                     | Control                      |                                             | Indoor LEV and BC controller                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |  |  |
| Net weight                                          |                              | kg (lbs)                                    | 337 (743)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |  |  |
| Heat exchanger                                      |                              |                                             | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |  |  |
| HIC circuit (HIC: Heat Inter-Changer)               |                              |                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |
| Defrosting method                                   |                              |                                             | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |  |  |
| Drawing                                             | External                     |                                             | WKS94T750                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |  |  |
|                                                     | Wiring                       |                                             | WKE94G342                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |  |  |
| Standard attachment                                 | Document                     |                                             | Installation Manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |  |  |
|                                                     | Accessory                    |                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |
| Optional parts                                      |                              |                                             | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1<br><br>Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA<br>Sub BC controller: CMB-P104, 108V-KB                                                                                                                                                                                                                                                                                                                                |           |  |  |
| Remarks                                             |                              |                                             | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>Due to continuing improvement, above specifications may be subject to change without notice.<br>When the high pressure piping length is 65 m or less, use 7/8 (22.2) pipe. When the high pressure piping length exceeds 65 m, use 7/8 (22.2) pipe until 65 m, use 1-1/8 (28.58) pipe for the part that exceeds 65 m. |           |  |  |

PURY-P-Y(S)NW-A

## Notes:

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)  
Eurovent registered
- Cooling mode/Heating mode
- External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).  
Consult your dealer about the specification when setting External static pressure option.

## Unit converter

|       |                              |
|-------|------------------------------|
| BTU/h | =kW x 3,412                  |
| cfm   | =m <sup>3</sup> /min x 35.31 |
| lbs   | =kg/0.4536                   |

\*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

Outdoor units

| Model                                               |                |          | PURY-P500YSNW-A (-BS)                 |  |
|-----------------------------------------------------|----------------|----------|---------------------------------------|--|
| Power source                                        |                |          | 3-phase 4-wire 380-400-415 V 50/60 Hz |  |
| Cooling capacity<br>(Nominal)                       | *1             | kW       | 56.0                                  |  |
|                                                     |                | kcal/h   | 50,000                                |  |
|                                                     |                | BTU/h    | 191,100                               |  |
|                                                     | Power input    | kW       | 12.29                                 |  |
|                                                     |                | A        | 20.7-19.7-18.9                        |  |
| Temp. range of<br>cooling                           | EER            | kW/kW    | 4.55                                  |  |
|                                                     | Indoor         | W.B.     | 15.0~24.0°C (59~75°F)                 |  |
|                                                     | Outdoor        | D.B.     | -5.0~52.0°C (23~126°F)                |  |
| Heating capacity<br>(Max)                           | *2             | kW       | 63.0                                  |  |
|                                                     |                | kcal/h   | 54,200                                |  |
|                                                     |                | BTU/h    | 215,000                               |  |
|                                                     | Power input    | kW       | 12.51                                 |  |
|                                                     |                | A        | 21.1-20.0-19.3                        |  |
|                                                     | COP            | kW/kW    | 5.03                                  |  |
|                                                     | (Nominal) *3   | kW       | 56.0                                  |  |
|                                                     |                | kcal/h   | 50,000                                |  |
|                                                     |                | BTU/h    | 191,100                               |  |
|                                                     | Power input    | kW       | 10.87                                 |  |
|                                                     |                | A        | 18.3-17.4-16.8                        |  |
| Temp. range of<br>heating                           | COP            | kW/kW    | 5.15                                  |  |
|                                                     | Indoor         | D.B.     | 15.0~27.0°C (59~81°F)                 |  |
|                                                     | Outdoor        | W.B.     | -20.0~15.5°C (-4~60°F)                |  |
| Indoor unit<br>connectable                          | Total capacity |          | 50~150% of outdoor unit capacity      |  |
|                                                     | Model/Quantity |          | P15~P250/1~50                         |  |
| Sound pressure level (measured in anechoic room) *4 |                |          | dB <A> 63.5/64.0                      |  |
| Sound power level (measured in anechoic room) *4    |                |          | dB <A> 81.5/83.0                      |  |
| Refrigerant<br>piping diameter                      | High pressure  | mm (in.) | 22.2 (7/8) Brazed                     |  |
|                                                     | Low pressure   | mm (in.) | 28.58 (1-1/8) Brazed                  |  |

| Set Model                             |                              |                     | PURY-P250YNW-A (-BS)                                                                                                                                                                                                                                          |  | PURY-P250YNW-A (-BS)                                                                             |  |
|---------------------------------------|------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------|--|
| Model                                 |                              |                     | Propeller fan x 1                                                                                                                                                                                                                                             |  | Propeller fan x 1                                                                                |  |
| FAN                                   | Type x Quantity              |                     | 185                                                                                                                                                                                                                                                           |  | 185                                                                                              |  |
|                                       | Air flow rate                | m <sup>3</sup> /min | 3,083                                                                                                                                                                                                                                                         |  | 3,083                                                                                            |  |
|                                       |                              | L/s                 | 6,532                                                                                                                                                                                                                                                         |  | 6,532                                                                                            |  |
|                                       |                              | cfm                 |                                                                                                                                                                                                                                                               |  |                                                                                                  |  |
|                                       | Control, Driving mechanism   |                     | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                      |  | Inverter-control, Direct-driven by motor                                                         |  |
|                                       | Motor output                 | kW                  | 0.92 x 1                                                                                                                                                                                                                                                      |  | 0.92 x 1                                                                                         |  |
| *5                                    | External static press.       |                     | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                   |  | 0 Pa (0 mmH <sub>2</sub> O)                                                                      |  |
| Compressor                            | Type                         |                     | Inverter scroll hermetic compressor                                                                                                                                                                                                                           |  | Inverter scroll hermetic compressor                                                              |  |
|                                       | Manufacture                  |                     | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                                                                                                                                                                                   |  | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                      |  |
|                                       | Starting method              |                     | Inverter                                                                                                                                                                                                                                                      |  | Inverter                                                                                         |  |
|                                       | Motor output                 | kW                  | 7.0                                                                                                                                                                                                                                                           |  | 7.0                                                                                              |  |
|                                       | Case heater                  | kW                  | -                                                                                                                                                                                                                                                             |  | -                                                                                                |  |
|                                       | Lubricant                    |                     | MEL32                                                                                                                                                                                                                                                         |  | MEL32                                                                                            |  |
| External finish                       |                              |                     | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                              |  | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar> |  |
| External dimension H x W x D          |                              | mm                  | 1,858 (1,798 without legs) x 920 x 740                                                                                                                                                                                                                        |  | 1,858 (1,798 without legs) x 920 x 740                                                           |  |
|                                       |                              | in.                 | 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16                                                                                                                                                                                                            |  | 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16                                               |  |
| Protection devices                    | High pressure protection     |                     | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                              |  | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                 |  |
|                                       | Inverter circuit (COMP./FAN) |                     | Over-heat protection, Over-current protection                                                                                                                                                                                                                 |  | Over-heat protection, Over-current protection                                                    |  |
|                                       | Compressor                   |                     | -                                                                                                                                                                                                                                                             |  | -                                                                                                |  |
|                                       | Fan motor                    |                     | -                                                                                                                                                                                                                                                             |  | -                                                                                                |  |
| Refrigerant                           | Type x original charge       |                     | R410A x 5.2 kg (12 lbs)                                                                                                                                                                                                                                       |  | R410A x 5.2 kg (12 lbs)                                                                          |  |
|                                       | Control                      |                     | Indoor LEV and BC controller                                                                                                                                                                                                                                  |  |                                                                                                  |  |
| Net weight                            |                              | kg (lbs)            | 229 (505)                                                                                                                                                                                                                                                     |  | 229 (505)                                                                                        |  |
| Heat exchanger                        |                              |                     | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                        |  | Salt-resistant cross fin & copper tube                                                           |  |
| HIC circuit (HIC: Heat Inter-Changer) |                              |                     | -                                                                                                                                                                                                                                                             |  | -                                                                                                |  |
| Pipe between unit and distributor     | High pressure                | mm (in.)            | 19.05 (3/4) Brazed                                                                                                                                                                                                                                            |  | 19.05 (3/4) Brazed                                                                               |  |
|                                       | Low pressure                 | mm (in.)            | 22.2 (7/8) Brazed                                                                                                                                                                                                                                             |  | 22.2 (7/8) Brazed                                                                                |  |
| Defrosting method                     |                              |                     | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                |  |                                                                                                  |  |
| Drawing                               | External                     |                     | WKS94T751                                                                                                                                                                                                                                                     |  |                                                                                                  |  |
|                                       | Wiring                       |                     | WKE94G339                                                                                                                                                                                                                                                     |  | WKE94G339                                                                                        |  |
| Standard attachment                   | Document                     |                     | Installation Manual                                                                                                                                                                                                                                           |  |                                                                                                  |  |
|                                       | Accessory                    |                     | -                                                                                                                                                                                                                                                             |  |                                                                                                  |  |
| Optional parts                        |                              |                     | Outdoor Twinning kit: CMY-R100VBK4<br>Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1<br>Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA<br>Sub BC controller: CMB-P104, 108V-KB                                                                      |  |                                                                                                  |  |
| Remarks                               |                              |                     | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>Due to continuing improvement, above specifications may be subject to change without notice. |  |                                                                                                  |  |

|                                                                                                                                                                                                                                            |  |                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------|
| Notes:                                                                                                                                                                                                                                     |  | Unit converter                                              |
| 1. Nominal cooling conditions (subject to JIS B8615-2)<br>Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)         |  | BTU/h = kW x 3,412                                          |
| 2. Nominal heating conditions (subject to JIS B8615-2)<br>Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)                               |  | cfm = m <sup>3</sup> /min x 35.31                           |
| 3. Nominal heating conditions (subject to JIS B8615-2)<br>Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)<br>Eurovent registered        |  | lbs = kg/0.4536                                             |
| 4. Cooling mode/Heating mode                                                                                                                                                                                                               |  |                                                             |
| 5. External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH <sub>2</sub> O, 6.1 mmH <sub>2</sub> O, 8.2 mmH <sub>2</sub> O).<br>Consult your dealer about the specification when setting External static pressure option. |  | *Above specification data is subject to rounding variation. |

# 1. SPECIFICATIONS

Outdoor units

| Model                                               |                |               | PURY-P550YNW-A (-BS)                                                    |  |
|-----------------------------------------------------|----------------|---------------|-------------------------------------------------------------------------|--|
| Power source                                        |                |               | 3-phase 4-wire 380-400-415 V 50/60 Hz                                   |  |
| Cooling capacity<br>(Nominal)                       | *1             | kW            | 63.0                                                                    |  |
|                                                     |                | kcal/h        | 54,200                                                                  |  |
|                                                     |                | BTU/h         | 215,000                                                                 |  |
|                                                     |                | Power input   | 14.45                                                                   |  |
|                                                     |                | Current input | 24.3-23.1-22.3                                                          |  |
| Temp. range of<br>cooling                           | Indoor         | EER           | 4.35                                                                    |  |
|                                                     |                | W.B.          | 15.0~24.0°C (59~75°F)                                                   |  |
|                                                     |                | D.B.          | -5.0~52.0°C (23~126°F)                                                  |  |
|                                                     |                | Outdoor       |                                                                         |  |
|                                                     |                | W.B.          |                                                                         |  |
| Heating capacity<br>(Max)                           | *2             | kW            | 69.0                                                                    |  |
|                                                     |                | kcal/h        | 59,300                                                                  |  |
|                                                     |                | BTU/h         | 235,400                                                                 |  |
|                                                     |                | Power input   | 14.70                                                                   |  |
|                                                     |                | Current input | 24.8-23.5-22.7                                                          |  |
| (Nominal)                                           | *3             | COP           | 4.69                                                                    |  |
|                                                     |                | kW            | 63.0                                                                    |  |
|                                                     |                | kcal/h        | 54,200                                                                  |  |
|                                                     |                | BTU/h         | 215,000                                                                 |  |
|                                                     |                | Power input   | 13.01                                                                   |  |
| Temp. range of<br>heating                           | Indoor         | Current input | 21.9-20.8-20.1                                                          |  |
|                                                     |                | COP           | 4.84                                                                    |  |
|                                                     |                | D.B.          | 15.0~27.0°C (59~81°F)                                                   |  |
|                                                     |                | Outdoor       | -20.0~15.5°C (-4~60°F)                                                  |  |
|                                                     |                | W.B.          |                                                                         |  |
| Indoor unit<br>connectable                          | Total capacity |               | 50~150% of outdoor unit capacity                                        |  |
|                                                     | Model/Quantity |               | P15~P250/2~50                                                           |  |
| Sound pressure level (measured in anechoic room) *4 |                | dB <A>        | 64.0/68.0                                                               |  |
| Sound power level (measured in anechoic room) *4    |                | dB <A>        | 82.5/87.5                                                               |  |
| Refrigerant<br>piping diameter                      | High pressure  |               | 22.2 (7/8) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m) |  |
|                                                     | Low pressure   |               | 28.58 (1-1/8) Brazed                                                    |  |

| Set Model                             |                              |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PURY-P250YNW-A (-BS)                        |                                                                                                  | PURY-P300YNW-A (-BS)                   |  |
|---------------------------------------|------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------|--|
| Model                                 |                              |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Propeller fan x 1                           |                                                                                                  | Propeller fan x 1                      |  |
| FAN                                   | Type x Quantity              |                                             | 185                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             | 240                                                                                              |                                        |  |
|                                       | Air flow rate                | m³/min                                      | 3,083                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             | 4,000                                                                                            |                                        |  |
|                                       |                              | L/s                                         | 6,532                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             | 8,474                                                                                            |                                        |  |
|                                       |                              | cfm                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |                                                                                                  |                                        |  |
|                                       | Control, Driving mechanism   |                                             | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             | Inverter-control, Direct-driven by motor                                                         |                                        |  |
| *5                                    | Motor output                 | kW                                          | 0.92 x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             | 0.92 x 1                                                                                         |                                        |  |
|                                       | External static press.       |                                             | 0 Pa (0 mmH₂O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             | 0 Pa (0 mmH₂O)                                                                                   |                                        |  |
|                                       | Type                         | Inverter scroll hermetic compressor         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Inverter scroll hermetic compressor         |                                                                                                  |                                        |  |
|                                       | Manufacture                  | AC&R Works, MITSUBISHI ELECTRIC CORPORATION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AC&R Works, MITSUBISHI ELECTRIC CORPORATION |                                                                                                  |                                        |  |
|                                       | Starting method              | Inverter                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Inverter                                    |                                                                                                  |                                        |  |
| Compressor                            | Motor output                 | kW                                          | 7.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             | 7.9                                                                                              |                                        |  |
|                                       | Case heater                  | kW                                          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             | -                                                                                                |                                        |  |
|                                       | Lubricant                    |                                             | MEL32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             | MEL32                                                                                            |                                        |  |
|                                       | External finish              |                                             | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                                                                                                                                                                                                                                                      |                                             | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar> |                                        |  |
|                                       | External dimension H x W x D |                                             | mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1,858 (1,798 without legs) x 920 x 740      |                                                                                                  | 1,858 (1,798 without legs) x 920 x 740 |  |
| Protection devices                    | in.                          |                                             | 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             | 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16                                               |                                        |  |
|                                       | High pressure protection     |                                             | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                 |                                        |  |
|                                       | Inverter circuit (COMP./FAN) |                                             | Over-heat protection, Over-current protection                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             | Over-heat protection, Over-current protection                                                    |                                        |  |
|                                       | Compressor                   |                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             | -                                                                                                |                                        |  |
|                                       | Fan motor                    |                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             | -                                                                                                |                                        |  |
| Refrigerant                           | Type x original charge       |                                             | R410A x 5.2 kg (12 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             | R410A x 5.2 kg (12 lbs)                                                                          |                                        |  |
|                                       | Control                      |                                             | Indoor LEV and BC controller                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                                                                                  |                                        |  |
| Net weight                            |                              | kg (lbs)                                    | 229 (505)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             | 231 (510)                                                                                        |                                        |  |
| Heat exchanger                        |                              |                                             | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             | Salt-resistant cross fin & copper tube                                                           |                                        |  |
| HIC circuit (HIC: Heat Inter-Changer) |                              |                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             | -                                                                                                |                                        |  |
| Pipe between unit and distributor     | High pressure                | mm (in.)                                    | 19.05 (3/4) Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             | 19.05 (3/4) Brazed                                                                               |                                        |  |
|                                       | Low pressure                 | mm (in.)                                    | 22.2 (7/8) Brazed                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             | 22.2 (7/8) Brazed                                                                                |                                        |  |
| Defrosting method                     |                              |                                             | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             |                                                                                                  |                                        |  |
| Drawing                               | External                     |                                             | WKS94T751                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             |                                                                                                  |                                        |  |
|                                       | Wiring                       |                                             | WKE94G339                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             | WKE94G339                                                                                        |                                        |  |
| Standard attachment                   | Document                     |                                             | Installation Manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                                                                                  |                                        |  |
|                                       | Accessory                    |                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             |                                                                                                  |                                        |  |
| Optional parts                        |                              |                                             | Outdoor Twinning kit: CMY-R100VBK4<br>Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1<br>Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA<br>Sub BC controller: CMB-P104, 108V-KB                                                                                                                                                                                                                                                                                         |                                             |                                                                                                  |                                        |  |
| Remarks                               |                              |                                             | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>Due to continuing improvement, above specifications may be subject to change without notice.<br>When the high pressure piping length is 65 m or less, use 7/8 (22.2) pipe. When the high pressure piping length exceeds 65 m, use 7/8 (22.2) pipe until 65 m, use 1-1/8 (28.58) pipe for the part that exceeds 65 m. |                                             |                                                                                                  |                                        |  |

|                                                                                                                                                                                                                                            |  |                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------|
| Notes:                                                                                                                                                                                                                                     |  | Unit converter                                              |
| 1. Nominal cooling conditions (subject to JIS B8615-2)<br>Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)         |  | BTU/h = kW x 3,412                                          |
| 2. Nominal heating conditions (subject to JIS B8615-2)<br>Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)                               |  | cfm = m <sup>3</sup> /min x 35.31                           |
| 3. Nominal heating conditions (subject to JIS B8615-2)<br>Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)<br>Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)<br>Eurovent registered        |  | lbs = kg/0.4536                                             |
| 4. Cooling mode/Heating mode                                                                                                                                                                                                               |  |                                                             |
| 5. External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH <sub>2</sub> O, 6.1 mmH <sub>2</sub> O, 8.2 mmH <sub>2</sub> O).<br>Consult your dealer about the specification when setting External static pressure option. |  | *Above specification data is subject to rounding variation. |

# 1. SPECIFICATIONS

Outdoor units

| Model                                               |                |               | PURY-P600YSNW-A (-BS)                                                   |                |
|-----------------------------------------------------|----------------|---------------|-------------------------------------------------------------------------|----------------|
| Power source                                        |                |               | 3-phase 4-wire 380-400-415 V 50/60 Hz                                   |                |
| Cooling capacity<br>(Nominal)                       | *1             | kW            | 69.0                                                                    |                |
|                                                     |                | kcal/h        | 59,300                                                                  |                |
|                                                     |                | BTU/h         | 235,400                                                                 |                |
|                                                     |                | Power input   | kW                                                                      | 16.62          |
|                                                     |                | Current input | A                                                                       | 28.0-26.6-25.6 |
|                                                     |                | EER           | kW/kW                                                                   | 4.15           |
| Temp. range of<br>cooling                           | Indoor         | W.B.          | 15.0~24.0°C (59~75°F)                                                   |                |
|                                                     | Outdoor        | D.B.          | -5.0~52.0°C (23~126°F)                                                  |                |
| Heating capacity<br>(Max)                           | *2             | kW            | 76.5                                                                    |                |
|                                                     |                | kcal/h        | 65,800                                                                  |                |
|                                                     |                | BTU/h         | 261,000                                                                 |                |
|                                                     |                | Power input   | kW                                                                      | 17.62          |
|                                                     |                | Current input | A                                                                       | 29.7-28.2-27.2 |
|                                                     |                | COP           | kW/kW                                                                   | 4.34           |
|                                                     | (Nominal)      | *3            | kW                                                                      | 69.0           |
|                                                     |                |               | kcal/h                                                                  | 59,300         |
|                                                     |                |               | BTU/h                                                                   | 235,400        |
|                                                     |                |               | Power input                                                             | kW             |
|                                                     |                | Current input | A                                                                       | 25.7-24.4-23.5 |
|                                                     | COP            | kW/kW         | 4.52                                                                    |                |
| Temp. range of<br>heating                           | Indoor         | D.B.          | 15.0~27.0°C (59~81°F)                                                   |                |
|                                                     | Outdoor        | W.B.          | -20.0~15.5°C (-4~60°F)                                                  |                |
| Indoor unit<br>connectable                          | Total capacity |               | 50~150% of outdoor unit capacity                                        |                |
|                                                     | Model/Quantity |               | P15~P250/2~50                                                           |                |
| Sound pressure level (measured in anechoic room) *4 |                | dB <A>        | 64.0/70.0                                                               |                |
| Sound power level (measured in anechoic room) *4    |                | dB <A>        | 83.0/89.5                                                               |                |
| Refrigerant<br>piping diameter                      | High pressure  | mm (in.)      | 22.2 (7/8) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m) |                |
|                                                     | Low pressure   | mm (in.)      | 28.58 (1-1/8) Brazed                                                    |                |

| Set Model         |                                       |                     | PURY-P300YNW-A (-BS)                                                                                                                                          | PURY-P300YNW-A (-BS)                                                                                                                                          |
|-------------------|---------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FAN               | Model                                 |                     | Propeller fan x 1                                                                                                                                             | Propeller fan x 1                                                                                                                                             |
|                   | Type x Quantity                       | Air flow rate       | 240                                                                                                                                                           | 240                                                                                                                                                           |
|                   |                                       | m <sup>3</sup> /min | 4,000                                                                                                                                                         | 4,000                                                                                                                                                         |
|                   |                                       | L/s                 | 8,474                                                                                                                                                         | 8,474                                                                                                                                                         |
|                   |                                       | cfm                 |                                                                                                                                                               |                                                                                                                                                               |
|                   | Control, Driving mechanism            |                     | Inverter-control, Direct-driven by motor                                                                                                                      | Inverter-control, Direct-driven by motor                                                                                                                      |
|                   | Motor output                          |                     | 0.92 x 1                                                                                                                                                      | 0.92 x 1                                                                                                                                                      |
|                   | *5 External static press.             |                     | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                   | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                   |
|                   | Compressor                            |                     | Inverter scroll hermetic compressor                                                                                                                           | Inverter scroll hermetic compressor                                                                                                                           |
|                   | Type                                  |                     | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                                                                                   | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                                                                                   |
| External finish   | Manufacture                           |                     | Inverter                                                                                                                                                      | Inverter                                                                                                                                                      |
|                   | Starting method                       |                     | 7.9                                                                                                                                                           | 7.9                                                                                                                                                           |
|                   | Motor output                          |                     | -                                                                                                                                                             | -                                                                                                                                                             |
|                   | Case heater                           |                     | MEL32                                                                                                                                                         | MEL32                                                                                                                                                         |
|                   | Lubricant                             |                     | Pre-coated galvanized steel sheets (+powder coating for -BS type)                                                                                             | Pre-coated galvanized steel sheets (+powder coating for -BS type)                                                                                             |
|                   | External dimension H x W x D          |                     | <MUNSELL 5Y 8/1 or similar>                                                                                                                                   | <MUNSELL 5Y 8/1 or similar>                                                                                                                                   |
|                   | mm                                    |                     | 1,858 (1,798 without legs) x 920 x 740                                                                                                                        | 1,858 (1,798 without legs) x 920 x 740                                                                                                                        |
|                   | in.                                   |                     | 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16                                                                                                            | 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16                                                                                                            |
|                   | Protection devices                    |                     | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                              | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                              |
|                   | High pressure protection              |                     | Over-heat protection, Over-current protection                                                                                                                 | Over-heat protection, Over-current protection                                                                                                                 |
| Refrigerant       | Inverter circuit (COMP./FAN)          |                     | -                                                                                                                                                             | -                                                                                                                                                             |
|                   | Compressor                            |                     | -                                                                                                                                                             | -                                                                                                                                                             |
|                   | Fan motor                             |                     | -                                                                                                                                                             | -                                                                                                                                                             |
|                   | Type x original charge                |                     | R410A x 5.2 kg (12 lbs)                                                                                                                                       | R410A x 5.2 kg (12 lbs)                                                                                                                                       |
|                   | Control                               |                     | Indoor LEV and BC controller                                                                                                                                  | Indoor LEV and BC controller                                                                                                                                  |
|                   | Net weight                            |                     | 231 (510)                                                                                                                                                     | 231 (510)                                                                                                                                                     |
|                   | Heat exchanger                        |                     | Salt-resistant cross fin & copper tube                                                                                                                        | Salt-resistant cross fin & copper tube                                                                                                                        |
|                   | HIC circuit (HIC: Heat Inter-Changer) |                     | -                                                                                                                                                             | -                                                                                                                                                             |
|                   | Pipe between unit and distributor     |                     | 19.05 (3/4) Brazed                                                                                                                                            | 19.05 (3/4) Brazed                                                                                                                                            |
|                   | High pressure                         |                     | 22.2 (7/8) Brazed                                                                                                                                             | 22.2 (7/8) Brazed                                                                                                                                             |
| Defrosting method | Low pressure                          |                     | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                |
|                   | Drawing                               |                     | WKS94T751                                                                                                                                                     | WKS94T751                                                                                                                                                     |
|                   | External                              |                     | WKE94G339                                                                                                                                                     | WKE94G339                                                                                                                                                     |
|                   | Wiring                                |                     |                                                                                                                                                               |                                                                                                                                                               |
|                   | Standard attachment                   |                     | Installation Manual                                                                                                                                           | Installation Manual                                                                                                                                           |
|                   | Document                              |                     | -                                                                                                                                                             | -                                                                                                                                                             |
|                   | Accessory                             |                     |                                                                                                                                                               |                                                                                                                                                               |
|                   | Optional parts                        |                     | Outdoor Twinning kit: CMY-R100VBK4                                                                                                                            | Outdoor Twinning kit: CMY-R100VBK4                                                                                                                            |
|                   |                                       |                     | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1                                                                                                              | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1                                                                                                              |
|                   |                                       |                     | Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA                                                                                                   | Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA                                                                                                   |
| Remarks           |                                       |                     | Sub BC controller: CMB-P104, 108V-KB                                                                                                                          | Sub BC controller: CMB-P104, 108V-KB                                                                                                                          |
|                   |                                       |                     | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. |

## Notes:

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)  
Eurovent registered
- Cooling mode/Heating mode
- External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).  
Consult your dealer about the specification when setting External static pressure option.

## Unit converter

|       |                              |
|-------|------------------------------|
| BTU/h | =kW x 3,412                  |
| cfm   | =m <sup>3</sup> /min x 35.31 |
| lbs   | =kg/0.4536                   |

\*Above specification data is subject to rounding variation.

# 1. SPECIFICATIONS

Outdoor units

| Model                                               |                 |                | PURY-P650YSNW-A (-BS)                 |  |
|-----------------------------------------------------|-----------------|----------------|---------------------------------------|--|
| Power source                                        |                 |                | 3-phase 4-wire 380-400-415 V 50/60 Hz |  |
| Cooling capacity<br>(Nominal)                       |                 | *1 kW          | 73.0                                  |  |
|                                                     |                 | kcal/h         | 62,800                                |  |
|                                                     |                 | BTU/h          | 249,100                               |  |
|                                                     |                 | Power input kW | 18.19                                 |  |
|                                                     | Current input A |                | 30.7-29.1-28.1                        |  |
| EER                                                 |                 | kW/kW          | 4.01                                  |  |
| Temp. range of cooling                              | Indoor          | W.B.           | 15.0~24.0°C (59~75°F)                 |  |
|                                                     | Outdoor         | D.B.           | -5.0~52.0°C (23~126°F)                |  |
| Heating capacity<br>(Max)                           |                 | *2 kW          | 81.5                                  |  |
|                                                     |                 | kcal/h         | 70,100                                |  |
|                                                     |                 | BTU/h          | 278,100                               |  |
|                                                     |                 | Power input kW | 19.35                                 |  |
|                                                     | Current input A |                | 32.6-31.0-29.9                        |  |
| (Nominal)                                           |                 | *3 kW          | 73.0                                  |  |
|                                                     |                 | kcal/h         | 62,800                                |  |
|                                                     |                 | BTU/h          | 249,100                               |  |
|                                                     |                 | Power input kW | 16.39                                 |  |
|                                                     | Current input A |                | 27.6-26.2-25.3                        |  |
| COP                                                 |                 | kW/kW          | 4.45                                  |  |
| Temp. range of heating                              | Indoor          | D.B.           | 15.0~27.0°C (59~81°F)                 |  |
|                                                     | Outdoor         | W.B.           | -20.0~15.5°C (-4~60°F)                |  |
| Indoor unit connectable                             | Total capacity  |                | 50~150% of outdoor unit capacity      |  |
|                                                     | Model/Quantity  |                | P15~P250/2~50                         |  |
| Sound pressure level (measured in anechoic room) *4 |                 | dB <A>         | 65.0/69.0                             |  |
| Sound power level (measured in anechoic room) *4    |                 | dB <A>         | 83.5/88.5                             |  |
| Refrigerant piping diameter                         | High pressure   | mm (in.)       | 28.58 (1-1/8) Brazed                  |  |
|                                                     | Low pressure    | mm (in.)       | 28.58 (1-1/8) Brazed                  |  |

| Set Model                             |                              |                     | PURY-P300YNW-A (-BS)                                                                                                                                                                                                                                          |  | PURY-P350YNW-A (-BS)                                                                             |  |
|---------------------------------------|------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------|--|
| Model                                 |                              |                     | Propeller fan x 1                                                                                                                                                                                                                                             |  | Propeller fan x 2                                                                                |  |
| FAN                                   | Type x Quantity              |                     | 240                                                                                                                                                                                                                                                           |  | 250                                                                                              |  |
|                                       | Air flow rate                | m <sup>3</sup> /min | 4,000                                                                                                                                                                                                                                                         |  | 4,167                                                                                            |  |
|                                       |                              | L/s                 | 8,474                                                                                                                                                                                                                                                         |  | 8,828                                                                                            |  |
|                                       |                              | cfm                 |                                                                                                                                                                                                                                                               |  |                                                                                                  |  |
|                                       | Control, Driving mechanism   |                     | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                      |  | Inverter-control, Direct-driven by motor                                                         |  |
|                                       | Motor output                 | kW                  | 0.92 x 1                                                                                                                                                                                                                                                      |  | 0.46 x 2                                                                                         |  |
| *5                                    | External static press.       |                     | 0 Pa (0 mmH <sub>2</sub> O)                                                                                                                                                                                                                                   |  | 0 Pa (0 mmH <sub>2</sub> O)                                                                      |  |
| Compressor                            | Type                         |                     | Inverter scroll hermetic compressor                                                                                                                                                                                                                           |  | Inverter scroll hermetic compressor                                                              |  |
|                                       | Manufacture                  |                     | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                                                                                                                                                                                   |  | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                      |  |
|                                       | Starting method              |                     | Inverter                                                                                                                                                                                                                                                      |  | Inverter                                                                                         |  |
|                                       | Motor output                 | kW                  | 7.9                                                                                                                                                                                                                                                           |  | 10.2                                                                                             |  |
|                                       | Case heater                  | kW                  | -                                                                                                                                                                                                                                                             |  | -                                                                                                |  |
|                                       | Lubricant                    |                     | MEL32                                                                                                                                                                                                                                                         |  | MEL32                                                                                            |  |
| External finish                       |                              |                     | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                              |  | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar> |  |
| External dimension H x W x D          |                              | mm                  | 1,858 (1,798 without legs) x 920 x 740                                                                                                                                                                                                                        |  | 1,858 (1,798 without legs) x 1,240 x 740                                                         |  |
|                                       |                              | in.                 | 73-3/16 (70-13/16 without legs) x 36-1/4 x 29-3/16                                                                                                                                                                                                            |  | 73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16                                               |  |
| Protection devices                    | High pressure protection     |                     | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                              |  | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                 |  |
|                                       | Inverter circuit (COMP./FAN) |                     | Over-heat protection, Over-current protection                                                                                                                                                                                                                 |  | Over-heat protection, Over-current protection                                                    |  |
|                                       | Compressor                   |                     | -                                                                                                                                                                                                                                                             |  | -                                                                                                |  |
|                                       | Fan motor                    |                     | -                                                                                                                                                                                                                                                             |  | -                                                                                                |  |
| Refrigerant                           | Type x original charge       |                     | R410A x 5.2 kg (12 lbs)                                                                                                                                                                                                                                       |  | R410A x 8.0 kg (18 lbs)                                                                          |  |
|                                       | Control                      |                     | Indoor LEV and BC controller                                                                                                                                                                                                                                  |  |                                                                                                  |  |
| Net weight                            |                              | kg (lbs)            | 231 (510)                                                                                                                                                                                                                                                     |  | 273 (602)                                                                                        |  |
| Heat exchanger                        |                              |                     | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                        |  | Salt-resistant cross fin & copper tube                                                           |  |
| HIC circuit (HIC: Heat Inter-Changer) |                              |                     | -                                                                                                                                                                                                                                                             |  | -                                                                                                |  |
| Pipe between unit and distributor     | High pressure                | mm (in.)            | 19.05 (3/4) Brazed                                                                                                                                                                                                                                            |  | 19.05 (3/4) Brazed                                                                               |  |
|                                       | Low pressure                 | mm (in.)            | 22.2 (7/8) Brazed                                                                                                                                                                                                                                             |  | 28.58 (1-1/8) Brazed                                                                             |  |
| Defrosting method                     |                              |                     | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                |  |                                                                                                  |  |
| Drawing                               | External                     |                     | WKS94T752                                                                                                                                                                                                                                                     |  |                                                                                                  |  |
|                                       | Wiring                       |                     | WKE94G339                                                                                                                                                                                                                                                     |  | WKE94G341                                                                                        |  |
| Standard attachment                   | Document                     |                     | Installation Manual                                                                                                                                                                                                                                           |  |                                                                                                  |  |
|                                       | Accessory                    |                     | -                                                                                                                                                                                                                                                             |  |                                                                                                  |  |
| Optional parts                        |                              |                     | Outdoor Twinning kit: CMY-R100VBK4<br>Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1<br>Main BC controller: CMB-P108, 1012, 1016V-JA, CMB-P1016V-KA<br>Sub BC controller: CMB-P104, 108V-KB                                                                 |  |                                                                                                  |  |
| Remarks                               |                              |                     | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>Due to continuing improvement, above specifications may be subject to change without notice. |  |                                                                                                  |  |

## Notes:

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)  
Eurovent registered
- Cooling mode/Heating mode
- External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).  
Consult your dealer about the specification when setting External static pressure option.

| Unit converter                                              |                              |
|-------------------------------------------------------------|------------------------------|
| BTU/h                                                       | =kW x 3,412                  |
| cfm                                                         | =m <sup>3</sup> /min x 35.31 |
| lbs                                                         | =kg/0.4536                   |
| *Above specification data is subject to rounding variation. |                              |

# 1. SPECIFICATIONS

Outdoor units

| Model                                               |                |                | PURY-P700YSNW-A (-BS)                 |        |
|-----------------------------------------------------|----------------|----------------|---------------------------------------|--------|
| Power source                                        |                |                | 3-phase 4-wire 380-400-415 V 50/60 Hz |        |
| Cooling capacity<br>(Nominal)                       | *1             | kW             | 80.0                                  |        |
|                                                     |                | kcal/h         | 68,800                                |        |
|                                                     |                | BTU/h          | 273,000                               |        |
|                                                     | Power input    | kW             | 20.72                                 |        |
|                                                     | Current input  | A              | 34.9-33.2-32.0                        |        |
|                                                     | EER            | kW/kW          | 3.86                                  |        |
| Temp. range of<br>cooling                           | Indoor         | W.B.           | 15.0~24.0°C (59~75°F)                 |        |
|                                                     | Outdoor        | D.B.           | -5.0~52.0°C (23~126°F)                |        |
| Heating capacity<br>(Max)                           | *2             | kW             | 88.0                                  |        |
|                                                     |                | kcal/h         | 75,700                                |        |
|                                                     |                | BTU/h          | 300,300                               |        |
|                                                     | Power input    | kW             | 21.56                                 |        |
|                                                     | Current input  | A              | 36.3-34.5-33.3                        |        |
|                                                     | COP            | kW/kW          | 4.08                                  |        |
|                                                     | (Nominal)      | *3             | kW                                    | 80.0   |
|                                                     |                |                | kcal/h                                | 68,800 |
| BTU/h                                               |                |                | 273,000                               |        |
| Power input                                         |                | kW             | 18.25                                 |        |
| Current input                                       | A              | 30.8-29.2-28.2 |                                       |        |
| COP                                                 | kW/kW          | 4.38           |                                       |        |
| Temp. range of<br>heating                           | Indoor         | D.B.           | 15.0~27.0°C (59~81°F)                 |        |
|                                                     | Outdoor        | W.B.           | -20.0~15.5°C (-4~60°F)                |        |
| Indoor unit<br>connectable                          | Total capacity |                | 50~150% of outdoor unit capacity      |        |
|                                                     | Model/Quantity |                | P15~P250/2~50                         |        |
| Sound pressure level (measured in anechoic room) *4 |                |                | dB <A> 65.5/67.0                      |        |
| Sound power level (measured in anechoic room) *4    |                |                | dB <A> 84.0/86.0                      |        |
| Refrigerant<br>piping diameter                      | High pressure  | mm (in.)       | 28.58 (1-1/8) Brazed                  |        |
|                                                     | Low pressure   | mm (in.)       | 34.93 (1-3/8) Brazed                  |        |
| Set Model                                           |                |                |                                       |        |

| Model                                 |                              |                                                                                                  | PURY-P350YNW-A (-BS)                                                                                                                                                                                                                                          | PURY-P350YNW-A (-BS)                                                                           |
|---------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| FAN                                   | Type x Quantity              |                                                                                                  | Propeller fan x 2                                                                                                                                                                                                                                             | Propeller fan x 2                                                                              |
|                                       | Air flow rate                | m³/min                                                                                           | 250                                                                                                                                                                                                                                                           | 250                                                                                            |
|                                       |                              | L/s                                                                                              | 4,167                                                                                                                                                                                                                                                         | 4,167                                                                                          |
|                                       |                              | cfm                                                                                              | 8,828                                                                                                                                                                                                                                                         | 8,828                                                                                          |
|                                       | Control, Driving mechanism   |                                                                                                  | Inverter-control, Direct-driven by motor                                                                                                                                                                                                                      | Inverter-control, Direct-driven by motor                                                       |
|                                       | Motor output                 | kW                                                                                               | 0.46 x 2                                                                                                                                                                                                                                                      | 0.46 x 2                                                                                       |
|                                       | *5 External static press.    |                                                                                                  | 0 Pa (0 mmH₂O)                                                                                                                                                                                                                                                | 0 Pa (0 mmH₂O)                                                                                 |
| Compressor                            | Type                         |                                                                                                  | Inverter scroll hermetic compressor                                                                                                                                                                                                                           | Inverter scroll hermetic compressor                                                            |
|                                       | Manufacture                  |                                                                                                  | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                                                                                                                                                                                   | AC&R Works, MITSUBISHI ELECTRIC CORPORATION                                                    |
|                                       | Starting method              |                                                                                                  | Inverter                                                                                                                                                                                                                                                      | Inverter                                                                                       |
|                                       | Motor output                 | kW                                                                                               | 10.2                                                                                                                                                                                                                                                          | 10.2                                                                                           |
|                                       | Case heater                  | kW                                                                                               | -                                                                                                                                                                                                                                                             | -                                                                                              |
| Lubricant                             |                              | MEL32                                                                                            | MEL32                                                                                                                                                                                                                                                         |                                                                                                |
| External finish                       |                              | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar> | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                                                                                                                                                              |                                                                                                |
| External dimension H x W x D          |                              | mm<br>in.                                                                                        | 1,858 (1,798 without legs) x 1,240 x 740<br>73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16                                                                                                                                                                | 1,858 (1,798 without legs) x 1,240 x 740<br>73-3/16 (70-13/16 without legs) x 48-7/8 x 29-3/16 |
| Protection devices                    | High pressure protection     |                                                                                                  | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                              | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                               |
|                                       | Inverter circuit (COMP./FAN) |                                                                                                  | Over-heat protection, Over-current protection                                                                                                                                                                                                                 | Over-heat protection, Over-current protection                                                  |
|                                       | Compressor                   |                                                                                                  | -                                                                                                                                                                                                                                                             | -                                                                                              |
|                                       | Fan motor                    |                                                                                                  | -                                                                                                                                                                                                                                                             | -                                                                                              |
| Refrigerant                           | Type x original charge       |                                                                                                  | R410A x 8.0 kg (18 lbs)                                                                                                                                                                                                                                       | R410A x 8.0 kg (18 lbs)                                                                        |
|                                       | Control                      |                                                                                                  | Indoor LEV and BC controller                                                                                                                                                                                                                                  |                                                                                                |
| Net weight                            |                              | kg (lbs)                                                                                         | 273 (602)                                                                                                                                                                                                                                                     | 273 (602)                                                                                      |
| Heat exchanger                        |                              |                                                                                                  | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                        | Salt-resistant cross fin & copper tube                                                         |
| HIC circuit (HIC: Heat Inter-Changer) |                              |                                                                                                  | -                                                                                                                                                                                                                                                             | -                                                                                              |
| Pipe between unit and distributor     | High pressure                | mm (in.)                                                                                         | 19.05 (3/4) Brazed                                                                                                                                                                                                                                            | 19.05 (3/4) Brazed                                                                             |
|                                       | Low pressure                 | mm (in.)                                                                                         | 28.58 (1-1/8) Brazed                                                                                                                                                                                                                                          | 28.58 (1-1/8) Brazed                                                                           |
| Defrosting method                     |                              |                                                                                                  | Auto-defrost mode (Reversed refrigerant cycle)                                                                                                                                                                                                                |                                                                                                |
| Drawing                               | External                     |                                                                                                  | WKS94T753                                                                                                                                                                                                                                                     |                                                                                                |
|                                       | Wiring                       |                                                                                                  | WKE94G341                                                                                                                                                                                                                                                     | WKE94G341                                                                                      |
| Standard attachment                   | Document                     |                                                                                                  | Installation Manual                                                                                                                                                                                                                                           |                                                                                                |
|                                       | Accessory                    |                                                                                                  | -                                                                                                                                                                                                                                                             |                                                                                                |
| Optional parts                        |                              |                                                                                                  | Outdoor Twinning kit: CMY-R200VBK4<br>Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1<br>Main BC controller: CMB-P108,1012,1016V-JA,CMB-P1016V-KA<br>Sub BC controller: CMB-P104, 108V-KB                                                                      |                                                                                                |
| Remarks                               |                              |                                                                                                  | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>Due to continuing improvement, above specifications may be subject to change without notice. |                                                                                                |

## Notes:

- Nominal cooling conditions (subject to JIS B8615-2)  
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-2)  
Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.)  
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)  
Eurovent registered
- Cooling mode/Heating mode
- External static pressure option is available (30 Pa, 60 Pa, 80 Pa/3.1 mmH<sub>2</sub>O, 6.1 mmH<sub>2</sub>O, 8.2 mmH<sub>2</sub>O).  
Consult your dealer about the specification when setting External static pressure option.

## Unit converter

|       |                              |
|-------|------------------------------|
| BTU/h | =kW x 3,412                  |
| cfm   | =m <sup>3</sup> /min x 35.31 |
| lbs   | =kg/0.4536                   |

\*Above specification data is subject to rounding variation.