

**Project No.
ASSISI AGED CARE CENTRE STAGE 3**

21/06/2011



MITSUBISHI ELECTRIC CORPORATION

Table of contents

| | |
|---|-----------|
| Quotation | 1 |
| Control System Configuration | 3 |
| EC5 | 5 |
| System Configuration | |
| Product information | |
| Piping Design | |
| Electrical Wiring | |
| EC6 | 31 |
| System Configuration | |
| Product information | |
| Piping Design | |
| Electrical Wiring | |
| Summary List | 47 |
| Equipment list | |
| Field providing list | |

Quotation

| Qty | Model | Description | Price |
|-----|-----------------------|--|-------|
| 1 | AG-150A | Central controller | |
| 1 | PAC-SC51KUA | Power supply unit | |
| 2 | PAC-YG50ECA | Expansion controller | |
| 56 | PAR-30MAA | MA remote controller | |
| 2 | PAC-YG66DCA | DIDO controller | |
| 1 | PAC-YG63MCA | AI controller | |
| 2 | PURY-P350YJM-A | R410A R2 Series Outdoor Unit | |
| 1 | PURY-P650YSJM-A | R410A R2 Series Outdoor Unit | |
| - | (PURY-P350YJM-A) | | |
| - | (PURY-P300YJM-A) | | |
| 1 | PURY-P450YJM-A | R410A R2 Series Outdoor Unit | |
| 1 | PURY-P400YJM-A | R410A R2 Series Outdoor Unit | |
| 1 | PURY-P500YSJM-A | R410A R2 Series Outdoor Unit | |
| - | (PURY-P250YJM-A) | | |
| - | (PURY-P250YJM-A) | | |
| 1 | PUMY-P140YHMB | R410A S Series Outdoor Unit | |
| 1 | CMB-P1013V-GA1 | BC controller main | |
| 3 | CMB-P1010V-GA1 | BC controller main | |
| 1 | CMB-P1016V-GA1 | BC controller main | |
| 1 | CMB-P108V-GA1 | BC controller main | |
| 5 | PLFY-P25VCM-E | Ceiling cassette(4way air flow) type Indoor Unit | |
| 5 | (SLP-2AAW / SLP-2ALW) | Panel | |
| 5 | PLFY-P20VCM-E | Ceiling cassette(4way air flow) type Indoor Unit | |
| 5 | (SLP-2AAW / SLP-2ALW) | Panel | |
| 1 | PLFY-P32VBM-E | Ceiling cassette(4way air flow) type Indoor Unit | |
| 1 | (PLP-6BA) | Panel | |
| 1 | PLFY-P100VBM-E | Ceiling cassette(4way air flow) type Indoor Unit | |
| 1 | (PLP-6BA) | Panel | |
| 1 | PEFY-P140VMH-E | Ceiling concealed type Indoor Unit | |
| 4 | PLFY-P80VBM-E | Ceiling cassette(4way air flow) type Indoor Unit | |
| 4 | (PLP-6BA) | Panel | |

MITSUBISHI ELECTRIC CORPORATION

Quotation

| Qty | Model | Description | Price |
|-----|------------------|--|-------|
| 5 | PEFY-P200VMH-E | Ceiling concealed type Indoor Unit | |
| 12 | PKFY-P25VBM-E | Wall mounted type Indoor Unit | |
| 14 | PKFY-P32VHM-E | Wall mounted type Indoor Unit | |
| 6 | PKFY-P50VHM-E | Wall mounted type Indoor Unit | |
| 1 | PLFY-P40VBM-E | Ceiling cassette(4way air flow) type Indoor Unit | |
| 1 | (PLP-6BA) | Panel | |
| 1 | PEFY-P140VMH-E-F | Fresh air intake type Indoor Unit | |
| 7 | CMY-R160-J1 | Joint pipe | |
| 2 | CMY-R100VBK | Twinning kit | |
| 2 | PAC-YG10HA | External I/O adapter | |

MITSUBISHI ELECTRIC CORPORATION

Control System Configuration

| Category1 | Category2 | | Category3 | | Category4 | | category5 | | category6 | | |
|-----------|-------------|---------------|------------|---|------------|---|------------|---|------------------------|------------|-------|
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| | Model name | | Model name | | Model name | | Model name | | Indoor unit Ref. | Model name | M-NET |
| | PAC-YG50ECA | | - | | - | | - | | | | |
| | M-NET | 000 | M-NET | - | M-NET | - | M-NET | - | | | |
| | IP add. | 192.168.1.212 | - | - | - | - | - | - | | | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | PAR-30MAA | |
| v | v | | | | | | | | | | |

EC5

>System Configuration

> Outdoor unit / Indoor unit / Controller

| Refrigerant system | Outdoor unit | | Room | Indoor unit | | | Controller | | Group name |
|--------------------|--------------|--------------------|-------|-------------|----------------|------|------------|------|------------|
| | Ref. | Model name Add. | | Ref. | Model name | Add. | Model name | Add. | |
| VRV-14 | | PURY-P350YJM-A | AC-31 | | PLFY-P25VCM-E | 001 | PAR-30MAA | | 1 |
| | | 051 | AC-32 | | PLFY-P25VCM-E | 002 | PAR-30MAA | | 2 |
| | | CMB-P1013V-GA1 | AC-33 | | PLFY-P25VCM-E | 003 | PAR-30MAA | | 3 |
| | | 052 | AC-34 | | PLFY-P20VCM-E | 004 | PAR-30MAA | | 4 |
| | | | AC-35 | | PLFY-P20VCM-E | 005 | PAR-30MAA | | 5 |
| | | | AC-36 | | PLFY-P20VCM-E | 006 | PAR-30MAA | | 6 |
| | | | AC-37 | | PLFY-P20VCM-E | 007 | PAR-30MAA | | 7 |
| | | | AC-38 | | PLFY-P20VCM-E | 008 | PAR-30MAA | | 8 |
| | | | AC-44 | | PLFY-P32VBM-E | 009 | PAR-30MAA | | 9 |
| | | | AC-45 | | PLFY-P25VCM-E | 010 | PAR-30MAA | | 10 |
| | | | AC-46 | | PLFY-P25VCM-E | 011 | PAR-30MAA | | 11 |
| | | | AC-54 | | PLFY-P100VBM-E | 012 | PAR-30MAA | | 12 |
| VRV-15 | | PURY-P650YSJM-A | AC-39 | | PEFY-P140VMH-E | 013 | PAR-30MAA | | 13 |
| | | 063 064 | AC-40 | | PLFY-P80VBM-E | 014 | PAR-30MAA | | 14 |
| | | CMB-P1010V-GA1 | AC-41 | | PEFY-P200VMH-E | 015 | PAR-30MAA | | 15 |
| | | 065 | AC-42 | | PEFY-P200VMH-E | 016 | PAR-30MAA | | 16 |
| | | | AC-53 | | PEFY-P200VMH-E | 017 | PAR-30MAA | | 17 |
| | | | | | | | | | |
| VRV-16 | | PURY-P350YJM-A | AC-52 | | PLFY-P80VBM-E | 018 | PAR-30MAA | | 18 |
| | | 068 | AC-A | | PKFY-P25VBM-E | 019 | PAR-30MAA | | 19 |
| | | CMB-P1010V-GA1 | AC-A | | PKFY-P25VBM-E | 020 | PAR-30MAA | | 20 |
| | | 069 | AC-A | | PKFY-P25VBM-E | 021 | PAR-30MAA | | 21 |

EC5

>System Configuration

> Outdoor unit / Indoor unit / Controller

| Refrigerant system | Outdoor unit | | Room | Indoor unit | | | Controller | | Group name |
|--------------------|--------------|--------------------|-------|-------------|---------------|------|------------|------|------------|
| | Ref. | Model name Add. | | Ref. | Model name | Add. | Model name | Add. | |
| VRV-16 | | | AC-A | | PKFY-P25VBM-E | 022 | PAR-30MAA | | 22 |
| | | | AC-B | | PKFY-P32VHM-E | 023 | PAR-30MAA | | 23 |
| | | | AC-B | | PKFY-P32VHM-E | 024 | PAR-30MAA | | 24 |
| | | | AC-B | | PKFY-P32VHM-E | 025 | PAR-30MAA | | 25 |
| | | | AC-B | | PKFY-P32VHM-E | 026 | PAR-30MAA | | 26 |
| | | | AC-C | | PKFY-P32VHM-E | 027 | PAR-30MAA | | 27 |
| VRV-17 | | PURY-P450YJM-A | AC-51 | | PLFY-P80VBM-E | 028 | PAR-30MAA | | 28 |
| | | 078 | AC-C | | PKFY-P32VHM-E | 029 | PAR-30MAA | | 29 |
| | | CMB-P1010V-GA1 | AC-C | | PKFY-P32VHM-E | 030 | PAR-30MAA | | 30 |
| | | 079 | AC-C | | PKFY-P32VHM-E | 031 | PAR-30MAA | | 31 |
| | | | AC-D | | PKFY-P50VHM-E | 032 | PAR-30MAA | | 32 |
| | | | AC-D | | PKFY-P50VHM-E | 033 | PAR-30MAA | | 33 |
| | | | AC-D | | PKFY-P50VHM-E | 034 | PAR-30MAA | | 34 |
| | | | AC-D | | PKFY-P50VHM-E | 035 | PAR-30MAA | | 35 |
| | | | AC-D | | PKFY-P50VHM-E | 036 | PAR-30MAA | | 36 |
| | | | AC-D | | PKFY-P50VHM-E | 037 | PAR-30MAA | | 37 |

> LOSSNAY / PI/AI/DIDO controller

| Room | LOSSNAY, PI/AI/DIDO controller | | Controller | | Group name |
|------|--------------------------------|------|------------|------|------------|
| | Model name | Add. | Controller | Add. | |
| | PAC-YG66DCA | 038 | | | |
| | PAC-YG66DCA | 039 | | | |
| | PAC-YG63MCA | 040 | | | |

EC5

>System Configuration





> PI/AI/DIDO controller information

| Type | Model name | Equipment to be monitored | | | | | |
|-----------------|-------------|---------------------------|---|---|---|---|---|
| | Add. | 1 | 2 | 3 | 4 | 5 | 6 |
| DIDO controller | PAC-YG66DCA | | | | | | |
| | 038 | | | | | | |
| DIDO controller | PAC-YG66DCA | | | | | | |
| | 039 | | | | | | |
| AI controller | PAC- | | | | | | |
| | 040 | | | | | | |

EC5



> Product information

>Controller

| Model name | Product image*1 | Qty | Description |
|-------------|---|-----|----------------------|
| AG-150A |  | 1 | Central controller |
| PAC-SC51KUA |  | 1 | Power supply unit |
| PAC-YG50ECA |  | 1 | Expansion controller |
| PAR-30MAA |  | 37 | MA remote controller |


EC5 starts from here

>PI/AI/DIDO controller

| Model name | Product image*1 | Qty | Description |
|-------------|---|-----|-----------------|
| PAC-YG66DCA |  | 2 | DIDO controller |
| PAC-YG63MCA |  | 1 | AI controller |

>Air conditioning unit specifications

1. Outdoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Power input (kW) | | COP (kW/kW)*2 | | |
|--------|----------------|---|-----|---------|--------------|-------------|------------------|--------------------|---|-----------|------------|
| VRV-14 | PURY-P350YJM-A |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | Corrected | |
| | | | | Cooling | 40.00 | 37.89 | 11.33 | 10.33 | 3.53 | 3.67 | |
| | | | | Heating | 45.00 | 38.93 | 10.89 | 14.10 | 4.13 | 2.76 | |
| | | | | | Conditions | | | | Dimension(mm) | | Net weight |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | Water inlet(deg C) | H X W X D | | (kg) |
| | | | | Cooling | 34.5 | - | - | - | 1,710(1,650 without legs) x 1,220 x 760 | | 270 |
| | | | | Heating | 3.5 | 2.5 | 85 | - | | | |


*1 The product image refers to a representative model. The actual product may differ from the image shown.

*2 The COP here is for outdoor unit only. not for whole system.


EC5


> Product information


2. BC controller (R2 series only)

| Sys. | Model name | Product image*1 | Qty | | Power input (kW) | Dimension(mm) | Net weight |
|--------|----------------|---|-----|---------|------------------|-------------------|------------|
| VRV-14 | CMB-P1013V-GA1 |  | 1 | | Rated | H X W X D | (kg) |
| | | | | Cooling | 0.20 | 289 x 1,110 x 520 | 55 |
| | | | | Heating | 0.10 | | |

3. Indoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure |
|--------|---------------|--|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|
| | | | | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | |
| VRV-14 | PLFY-P25VCM-E |  | 2 | Cooling | 2.80 | 2.67 | 2.10 | 2.22 | 0.05 | 0.23 | 8 - 10 | *3 |
| | | | | Heating | 3.20 | 2.77 | | | 0.05 | 0.23 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 25.0 | 17.3 | 46 | 208 x 570 x 570 | 15.5 | | | |
| | | | | Heating | 20.0 | - | - | | | | | |

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|
| VRV-14 | PLFY-P25VCM-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | |
| | | | | Cooling | 2.80 | 2.72 | 2.10 | 2.41 | 0.05 | 0.23 | 8 - 10 | *3 |
| | | | | Heating | 3.20 | 2.77 | | | 0.05 | 0.23 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 26.8 | 17.9 | 42 | 208 x 570 x 570 | 15.5 | | | |
| | | | | Heating | 20.0 | - | - | | | | | |

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|
| VRV-14 | PLFY-P20VCM-E |  | 2 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | |
| | | | | Cooling | 2.20 | 2.11 | 1.80 | 1.89 | 0.05 | 0.23 | 8 - 10 | *3 |
| | | | | Heating | 2.50 | 2.16 | | | 0.05 | 0.23 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 25.2 | 17.4 | 46 | 208 x 570 x 570 | 15.5 | | | |
| | | | | Heating | 20.0 | - | - | | | | | |


*1 The product image refers to a representative model. The actual product may differ from the image shown.


*3 Please refer to the specification sheet in the "Product Features" section at the end.


EC5

> Product information

3. Indoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|
| VRV-14 | PLFY-P20VCM-E |  | 2 | | Rated | Corrected | Rated | Corrected | Rated | | | |
| | | | | Cooling | 2.20 | 2.12 | 1.80 | 1.94 | 0.05 | 0.23 | 8 - 10 | *3 |
| | | | | Heating | 2.50 | 2.16 | | | 0.05 | 0.23 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 25.8 | 17.6 | 44 | 208 x 570 x 570 | | 15.5 | | |
| | | | | Heating | 20.0 | - | - | | | | | |

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure | |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|----|
| VRV-14 | PLFY-P20VCM-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | 8 - 10 | *3 |
| | | | | Cooling | 2.20 | 2.11 | 1.80 | 1.93 | 0.05 | 0.23 | | | |
| | | | | Heating | 2.50 | 2.16 | | | 0.05 | 0.23 | | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | | |
| | | | | Cooling | 25.6 | 17.5 | 45 | 208 x 570 x 570 | | 15.5 | | | |
| | | | | Heating | 20.0 | - | - | | | | | | |

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|
| VRV-14 | PLFY-P32VBM-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | | |
| | | | | Cooling | 3.60 | 3.40 | 3.00 | 2.82 | 0.03 | 0.22 | 11 - 14 | *3 |
| | | | | Heating | 4.00 | 3.46 | | | 0.02 | 0.14 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 258 x 840 x 840 | | 22 | | |
| | | | | Heating | 20.0 | - | - | | | | | |


*1 The product image refers to a representative model. The actual product may differ from the image shown.


*3 Please refer to the specification sheet in the "Product Features" section at the end.

EC5

> Product information

3. Indoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure | |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|----|
| VRV-14 | PLFY-P25VCM-E |  | 2 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | 8 - 10 | *3 |
| | | | | Cooling | 2.80 | 2.65 | 2.10 | 2.12 | 0.05 | 0.23 | | | |
| | | | | Heating | 3.20 | 2.77 | | | 0.05 | 0.23 | | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 208 x 570 x 570 | | 15.5 | | | |
| | | | | Heating | 20.0 | - | - | | | | | | |

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) (m3/min) | External static pressure |
|--------|----------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|----------------------------------|--------------------------|
| VRV-14 | PLFY-P100VBM-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | | |
| | | | | Cooling | 11.20 | 10.58 | 7.80 | 7.47 | 0.15 | 1 | 21 - 29 | *3 |
| | | | | Heating | 12.50 | 10.81 | | | 0.14 | 0.94 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 298 x 840 x 840 | 27 | | | |
| | | | | Heating | 20.0 | - | - | | | | | |

4. Branch/Header/Twinning kit

| Sys. | Model name | Product image*1 | Qty | Description |
|--------|-------------|-----------------|-----|-------------|
| VRV-14 | CMY-R160-J1 | | 1 | - |

*1 The product image refers to a representative model. The actual product may differ from the image shown.


*3 Please refer to the specification sheet in the "Product Features" section at the end.

EC5


> Product information

> Air conditioning unit specifications


1. Outdoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Power input (kW) | | COP (kW/kW)*2 | | |
|--------|-----------------|---|-----|---------|--------------|-------------|------------------|--------------------|---|-----------|---------------------|
| VRV-15 | PURY-P650YSJM-A |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | Corrected | |
| | | | | Cooling | 73.00 | 70.76 | 21.53 | 21.16 | 3.39 | 3.34 | |
| | | | | Heating | 81.50 | 68.57 | 20.47 | 23.60 | 3.98 | 2.91 | |
| | | | | | Conditions | | | | Dimension(mm) | | Net weight |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | Water inlet(deg C) | H X W X D | | (kg) |
| | | | | Cooling | 34.5 | - | - | - | 1,710(1,650 without legs) x 920 x 760(P300)/1,710(1,650 without legs) x 1,220 x 760(P350) | | 245(P300)/270(P350) |
| | | | | Heating | 3.5 | 2.5 | 85 | - | | | |

2. BC controller (R2 series only)

| Sys. | Model name | Product image*1 | Qty | | Power input (kW) | Dimension(mm) | Net weight |
|--------|----------------|---|-----|---------|------------------|-------------------|------------|
| VRV-15 | CMB-P1010V-GA1 |  | 1 | | Rated | H X W X D | (kg) |
| | | | | Cooling | 0.16 | 289 x 1,110 x 520 | 48 |
| | | | | Heating | 0.07 | | |

3. Indoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure |
|--------|----------------|---|-----|---------|--------------|-------------|-----------------------|-------------------|------------------|-------------|-------------------------|--------------------------|
| VRV-15 | PEFY-P140VMH-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | *3 |
| | | | | Cooling | 16.00 | 12.35 | 11.10 | 10.80 | 0.48 | 2.35 | 28 - 40 | |
| | | | | Heating | 18.00 | 11.98 | | | 0.48 | 2.35 | | |
| | | | | | Conditions | | | | Dimension(mm) | | Net weight | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 26.6 | 17.9 | 43 | 380 x 1,200 x 900 | | 70 | | |
| | | | | Heating | 20.0 | - | - | | | | | |

*1 The product image refers to a representative model. The actual product may differ from the image shown.


*2 The COP here is for outdoor unit only. not for whole system.


*3 Please refer to the specification sheet in the "Product Features" section at the end.


EC5

> Product information


3. Indoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|
| VRV-15 | PLFY-P80VBM-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | |
| | | | | Cooling | 9.00 | 6.92 | 6.30 | 5.68 | 0.07 | 0.51 | 16 - 22 | *3 |
| | | | | Heating | 10.00 | 6.66 | | | 0.06 | 0.43 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 26.3 | 17.8 | 43 | 258 x 840 x 840 | 23 | | | |
| | | | | Heating | 20.0 | - | - | | | | | |

| Sys. | Model name | Product image*1 | Qty | Capacity(kW) | | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure |
|--------|----------------|---|-----|--------------|-------------|-------------|-----------------------|---------------------|------------------|-------------|-------------------------|--------------------------|
| | | | | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | |
| VRV-15 | PEFY-P200VMH-E |  | 2 | Cooling | 22.40 | 17.22 | 16.00 | 15.47 | 0.99 | 1.62 | 58 | *3 |
| | | | | Heating | 25.00 | 16.64 | | | 0.99 | 1.62 | | |
| | | | | | Conditions | | | | Dimension(mm) | | Net weight | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 26.3 | 17.8 | 43 | 470 x 1,250 x 1,120 | | 100 | | |
| | | | | Heating | 20.0 | - | - | | | | | |
| | | | | | | | | | | | | |

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure | |
|--------|----------------|---|-----|---------|--------------|-------------|-----------------------|---------------------|------------------|-------------|-------------------------|--------------------------|----|
| VRV-15 | PEFY-P200VMH-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | 58 | *3 |
| | | | | Cooling | 22.40 | 17.05 | 16.00 | 14.95 | 0.99 | 1.62 | | | |
| | | | | Heating | 25.00 | 16.64 | | | 0.99 | 1.62 | | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | | |
| | | | | Cooling | 25.5 | 17.5 | 45 | 470 x 1,250 x 1,120 | | 100 | | | |
| | | | | Heating | 20.0 | - | - | | | | | | |

4. Branch/Header/Twinning kit

| Sys. | Model name | Product image*1 | Qty | Description |
|--------|-------------|---|-----|-------------|
| VRV-15 | CMY-R160-J1 |  | 4 | - |

*1 The product image refers to a representative model. The actual product may differ from the image shown.

*3 Please refer to the specification sheet in the "Product Features" section at the end.

EC5


> Product information

4. Branch/Header/Twinning kit


| Sys. | Model name | Product image*1 | Qty | Description |
|--------|-------------|-----------------|-----|-------------|
| VRV-15 | CMY-R100VBK | | 1 | - |

>Air conditioning unit specifications

1. Outdoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Power input (kW) | | COP (kW/kW)*2 | |
|--------|----------------|---|-----|---------|--------------|-------------|------------------|--------------------|---|-----------|
| VRV-16 | PURY-P350YJM-A |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | Corrected |
| | | | | Cooling | 40.00 | 36.37 | 11.33 | 9.54 | 3.53 | 3.81 |
| | | | | Heating | 45.00 | 37.79 | 10.89 | 13.56 | 4.13 | 2.79 |
| | | | | | Conditions | | | | Dimension(mm) | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | Water inlet(deg C) | H X W X D | |
| | | | | Cooling | 34.5 | - | - | - | 1,710(1,650 without legs) x 1,220 x 760 | |
| | | | | Heating | 3.5 | 2.5 | 85 | - | | |
| | | | | | | | | | Net weight | |
| | | | | | | | | | (kg) | |
| | | | | | | | | | 270 | |

2. BC controller (R2 series only)

| Sys. | Model name | Product image*1 | Qty | | Power input (kW) | Dimension(mm) | Net weight |
|--------|----------------|---|-----|---------|------------------|-------------------|------------|
| VRV-16 | CMB-P1010V-GA1 |  | 1 | | Rated | H X W X D | (kg) |
| | | | | Cooling | 0.16 | 289 x 1,110 x 520 | 48 |
| | | | | Heating | 0.07 | | |


*1 The product image refers to a representative model. The actual product may differ from the image shown.


*2 The COP here is for outdoor unit only. not for whole system.


EC5

> Product information

3. Indoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure | |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|----|
| VRV-16 | PLFY-P80VBM-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | 16 - 22 | *3 |
| | | | | Cooling | 9.00 | 8.57 | 6.30 | 6.00 | 0.07 | 0.51 | | | |
| | | | | Heating | 10.00 | 8.83 | | | 0.06 | 0.43 | | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 258 x 840 x 840 | | 23 | | | |
| | | | | Heating | 20.0 | - | - | | | | | | |

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|
| VRV-16 | PKFY-P25VBM-E |  | 4 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | *3 |
| | | | | Cooling | 2.80 | 2.67 | 1.90 | 1.83 | 0.04 | 0.2 | 4.9-5.9 | |
| | | | | Heating | 3.20 | 2.83 | | | 0.04 | 0.2 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 295 x 815 x 225 | 10 | | | |
| | | | | Heating | 20.0 | - | - | | | | | |

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure | |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|----|
| VRV-16 | PKFY-P32VHM-E |  | 5 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | 9-11 | *3 |
| | | | | Cooling | 3.60 | 3.43 | 2.70 | 2.59 | 0.04 | 0.4 | | | |
| | | | | Heating | 4.00 | 3.53 | | | 0.03 | 0.3 | | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 295 x 898 x 249 | | 13 | | | |
| | | | | Heating | 20.0 | - | - | | | | | | |

4. Branch/Header/Twinning kit

| Sys. | Model name | Product image*1 | Qty | Description |
|------|------------|-----------------|-----|-------------|
| - | - | | - | - |

*1 The product image refers to a representative model. The actual product may differ from the image shown.


*3 Please refer to the specification sheet in the "Product Features" section at the end.

EC5


> Product information

> Air conditioning unit specifications


1. Outdoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Power input (kW) | | COP (kW/kW)*2 | | |
|--------|----------------|---|-----|---------|--------------|-------------|------------------|--------------------|---|-----------|------------|
| VRV-17 | PURY-P450YJM-A |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | Corrected | |
| | | | | Cooling | 50.00 | 45.77 | 14.49 | 13.29 | 3.45 | 3.44 | |
| | | | | Heating | 56.00 | 49.27 | 14.58 | 17.29 | 3.84 | 2.85 | |
| | | | | | Conditions | | | | Dimension(mm) | | Net weight |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | Water inlet(deg C) | H X W X D | | (kg) |
| | | | | Cooling | 34.5 | - | - | - | 1,710(1,650 without legs) x 1,750 x 760 | | 320 |
| | | | | Heating | 3.5 | 2.5 | 85 | - | | | |

2. BC controller (R2 series only)

| Sys. | Model name | Product image*1 | Qty | | Power input (kW) | Dimension(mm) | Net weight |
|--------|----------------|---|-----|---------|------------------|-------------------|------------|
| VRV-17 | CMB-P1010V-GA1 |  | 1 | | Rated | H X W X D | (kg) |
| | | | | Cooling | 0.16 | 289 x 1,110 x 520 | 48 |
| | | | | Heating | 0.07 | | |

3. Indoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|
| VRV-17 | PLFY-P80VBM-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | *3 |
| | | | | Cooling | 9.00 | 7.71 | 6.30 | 5.60 | 0.07 | 0.51 | | |
| | | | | Heating | 10.00 | 8.24 | | | 0.06 | 0.43 | | |
| | | | | | Conditions | | | | Dimension(mm) | | Net weight | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 258 x 840 x 840 | | 23 | | |
| | | | | Heating | 20.0 | - | - | | | | | |

*1 The product image refers to a representative model. The actual product may differ from the image shown.


*2 The COP here is for outdoor unit only. not for whole system.


*3 Please refer to the specification sheet in the "Product Features" section at the end.

EC5

> Product information

3. Indoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) (m3/min) | External static pressure |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|----------------------------------|--------------------------|
| VRV-17 | PKFY-P32VHM-E |  | 3 | | Rated | Corrected | Rated | Corrected | Rated | | | |
| | | | | Cooling | 3.60 | 3.09 | 2.70 | 2.44 | 0.04 | 0.4 | 9-11 | *3 |
| | | | | Heating | 4.00 | 3.30 | | | 0.03 | 0.3 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 295 x 898 x 249 | | 13 | | |
| | | | | Heating | 20.0 | - | - | | | | | |

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) (m3/min) | External static pressure |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|----------------------------------|--------------------------|
| VRV-17 | PKFY-P50VHM-E |  | 6 | | Rated | Corrected | Rated | Corrected | Rated | | | |
| | | | | Cooling | 5.60 | 4.80 | 3.90 | 3.46 | 0.04 | 0.4 | 9-12 | *3 |
| | | | | Heating | 6.30 | 5.19 | | | 0.03 | 0.3 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 295 x 898 x 249 | | 13 | | |
| | | | | Heating | 20.0 | - | - | | | | | |

4. Branch/Header/Twinning kit

| Sys. | Model name | Product image*1 | Qty | Description |
|------|------------|-----------------|-----|-------------|
| - | - | | - | - |

> Ventilators

| Model name | Product image*1 | Qty | Description |
|------------|-----------------|-----|-------------|
| - | | - | - |

*1 The product image refers to a representative model. The actual product may differ from the image shown.

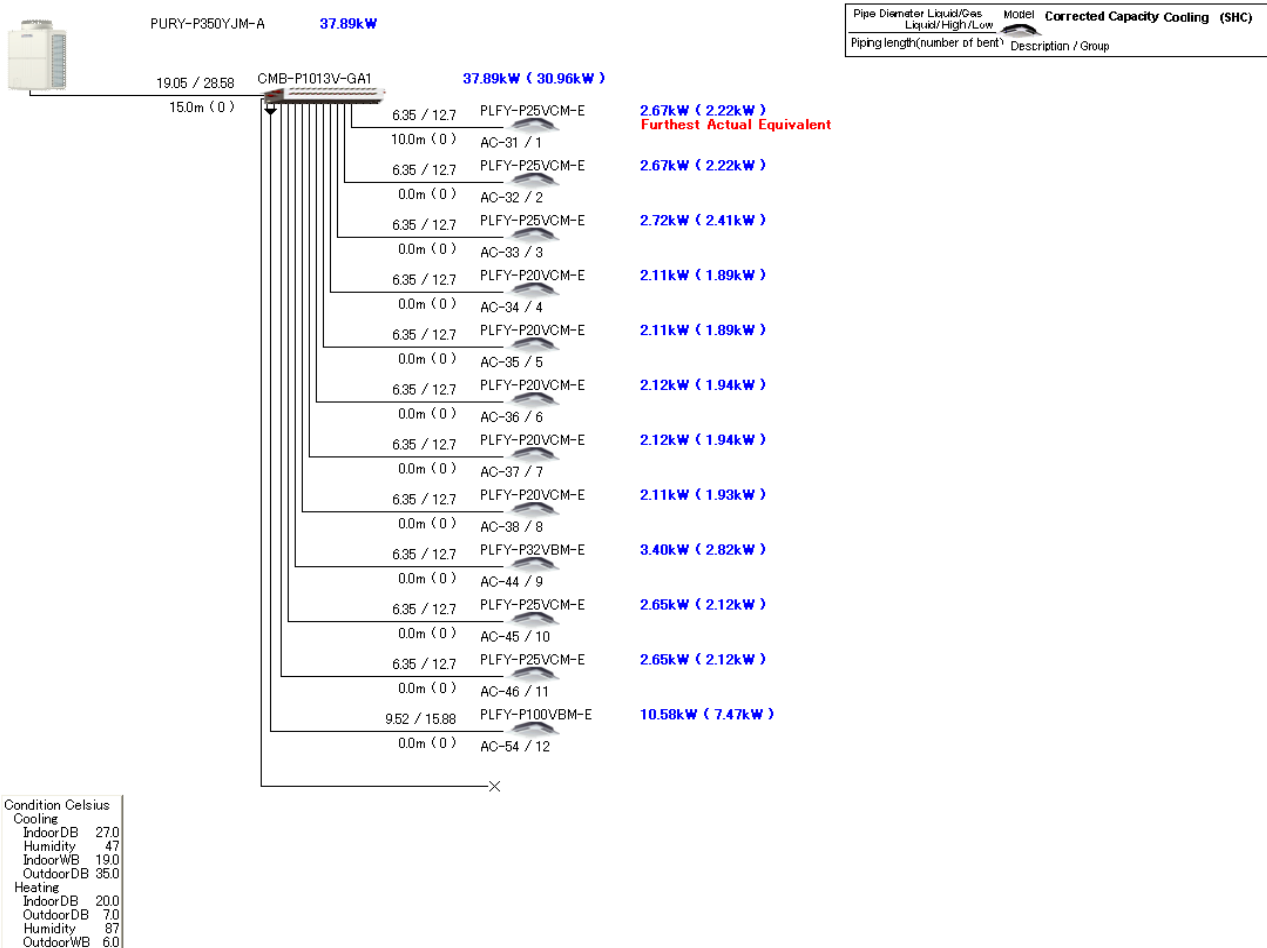
*3 Please refer to the specification sheet in the "Product Features" section at the end.

EC5

VRV-14

> Piping Design

1. Piping diagram



EC5

VRV-14

> Piping Design

2. Piping

| | Liquid/High (mm) | Gas/Low (mm) | Low/Gas/Bypass/Oi | Total length(m) | Number of bent |
|-------------------------------|------------------|--------------|-------------------|-----------------|----------------|
| BC controller to Indoor unit | 6.35 | 12.7 | | 10 | 0 |
| BC controller to Indoor unit | 9.52 | 15.88 | | 0 | 0 |
| Outdoor Unit to BC controller | 19.05 | 28.58 | | 15 | 0 |

3. Summary totals

| Pipe Size (mm) | Total length(m) | Number of bent |
|----------------|-----------------|----------------|
| 9.52 | 0 | 0 |
| 15.88 | 0 | 0 |
| 6.35 | 10 | 0 |
| 12.7 | 10 | 0 |
| 19.05 | 15 | 0 |
| 28.58 | 15 | 0 |

4. Refrigerant charge

| | | | | |
|------------------------|-------|---|------|----|
| Additional refrigerant | R410A | X | 10.7 | kg |
| Total refrigerant amo | R410A | X | 22.5 | kg |

5. Water flow rate (for WY and WR2 only)

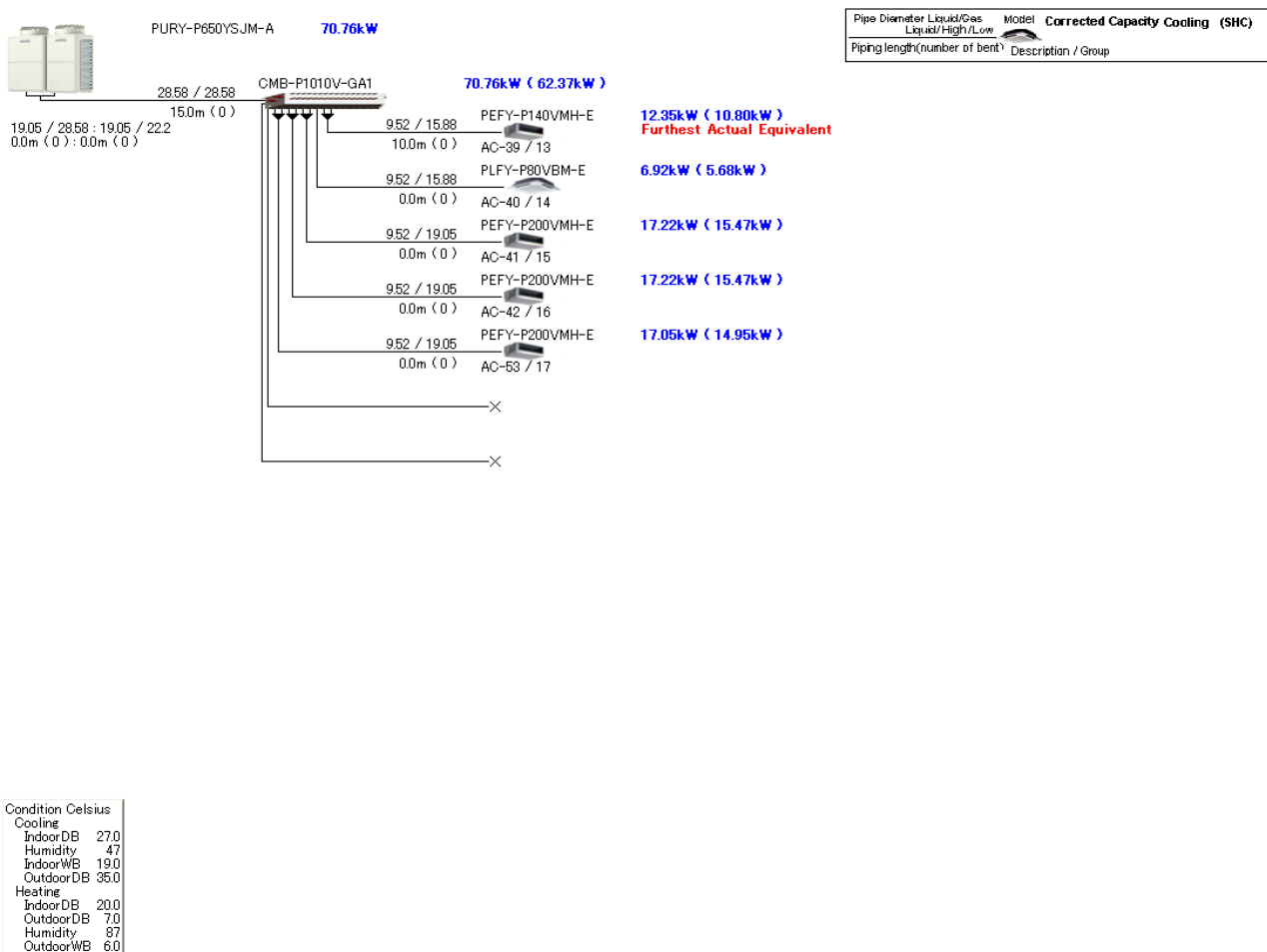
| Flow rate(m3/h) | Pressure drop(kPa) |
|-----------------|--------------------|
| - | - |

EC5

VRV-15

> Piping Design

1. Piping diagram



EC5

VRV-15

> Piping Design

2. Piping

| | Liquid/High (mm) | Gas/Low (mm) | Low/Gas/Bypass/Oi | Total length(m) | Number of bent |
|-------------------------------|------------------|--------------|-------------------|-----------------|----------------|
| BC controller to Indoor unit | 9.52 | 15.88 | | 10 | 0 |
| BC controller to Indoor unit | 9.52 | 19.05 | | 0 | 0 |
| Outdoor Unit to BC controller | 28.58 | 28.58 | | 15 | 0 |
| Outdoor Unit to BC controller | 19.05 | 28.58 | | 0 | 0 |
| Outdoor Unit to BC controller | 19.05 | 22.2 | | 0 | 0 |

3. Summary totals

| Pipe Size (mm) | Total length(m) | Number of bent |
|----------------|-----------------|----------------|
| 9.52 | 10 | 0 |
| 15.88 | 10 | 0 |
| 22.2 | 0 | 0 |
| 28.58 | 30 | 0 |
| 19.05 | 0 | 0 |

4. Refrigerant charge

| | | | | |
|------------------------|-------|---|------|----|
| Additional refrigerant | R410A | X | 22.5 | kg |
| Total refrigerant amo | R410A | X | 43.8 | kg |

5. Water flow rate (for WY and WR2 only)

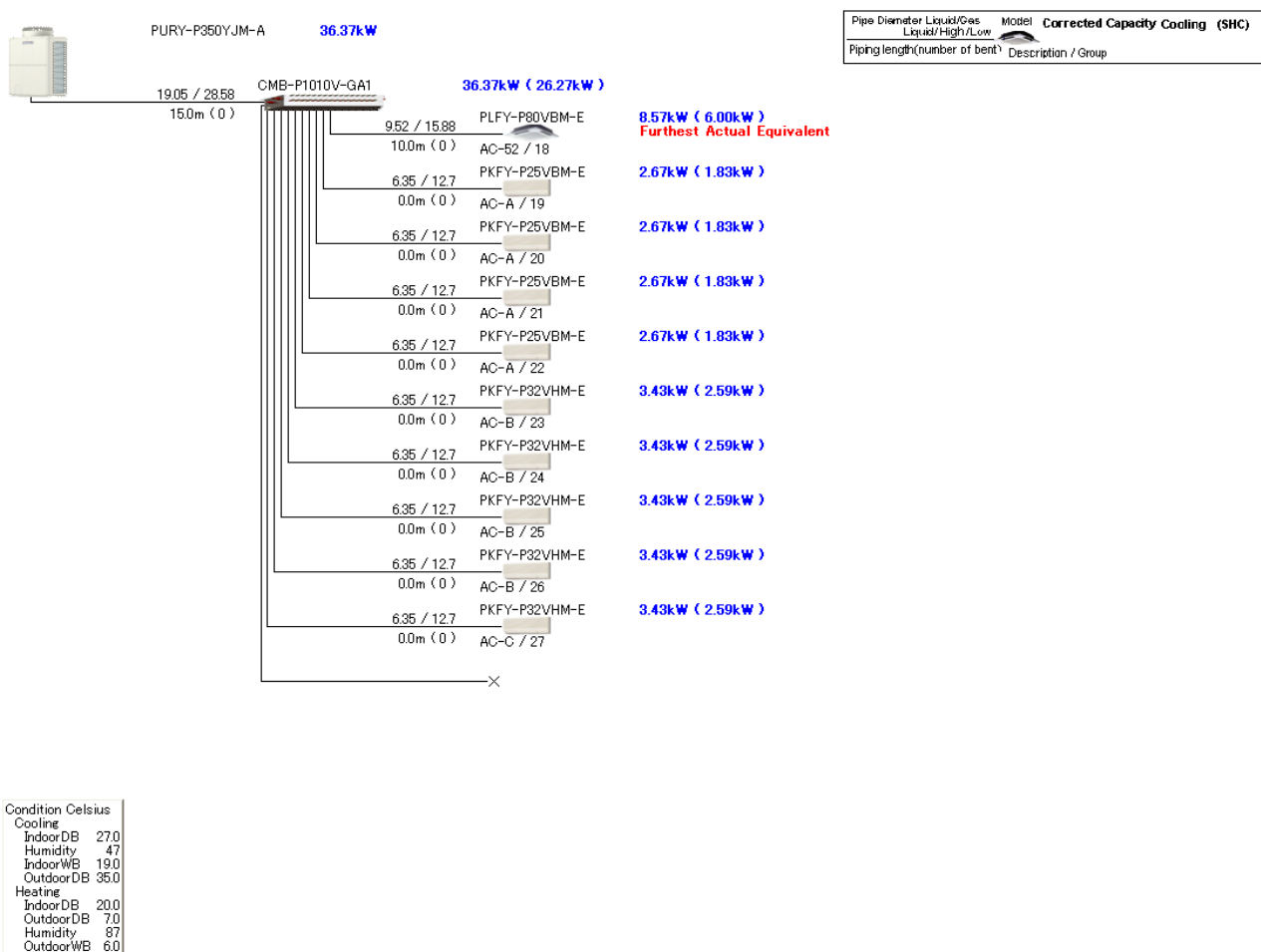
| Flow rate(m3/h) | Pressure drop(kPa) |
|-----------------|--------------------|
| - | - |

EC5

VRV-16

> Piping Design

1. Piping diagram



EC5

VRV-16

> Piping Design

2. Piping

| | Liquid/High (mm) | Gas/Low (mm) | Low/Gas/Bypass/Oi | Total length(m) | Number of bent |
|-------------------------------|------------------|--------------|-------------------|-----------------|----------------|
| BC controller to Indoor unit | 9.52 | 15.88 | | 10 | 0 |
| BC controller to Indoor unit | 6.35 | 12.7 | | 0 | 0 |
| Outdoor Unit to BC controller | 19.05 | 28.58 | | 15 | 0 |

3. Summary totals

| Pipe Size (mm) | Total length(m) | Number of bent |
|----------------|-----------------|----------------|
| 6.35 | 0 | 0 |
| 12.7 | 0 | 0 |
| 9.52 | 10 | 0 |
| 15.88 | 10 | 0 |
| 19.05 | 15 | 0 |
| 28.58 | 15 | 0 |

4. Refrigerant charge

| | | | | |
|------------------------|-------|---|------|----|
| Additional refrigerant | R410A | X | 11 | kg |
| Total refrigerant amo | R410A | X | 22.8 | kg |

5. Water flow rate (for WY and WR2 only)

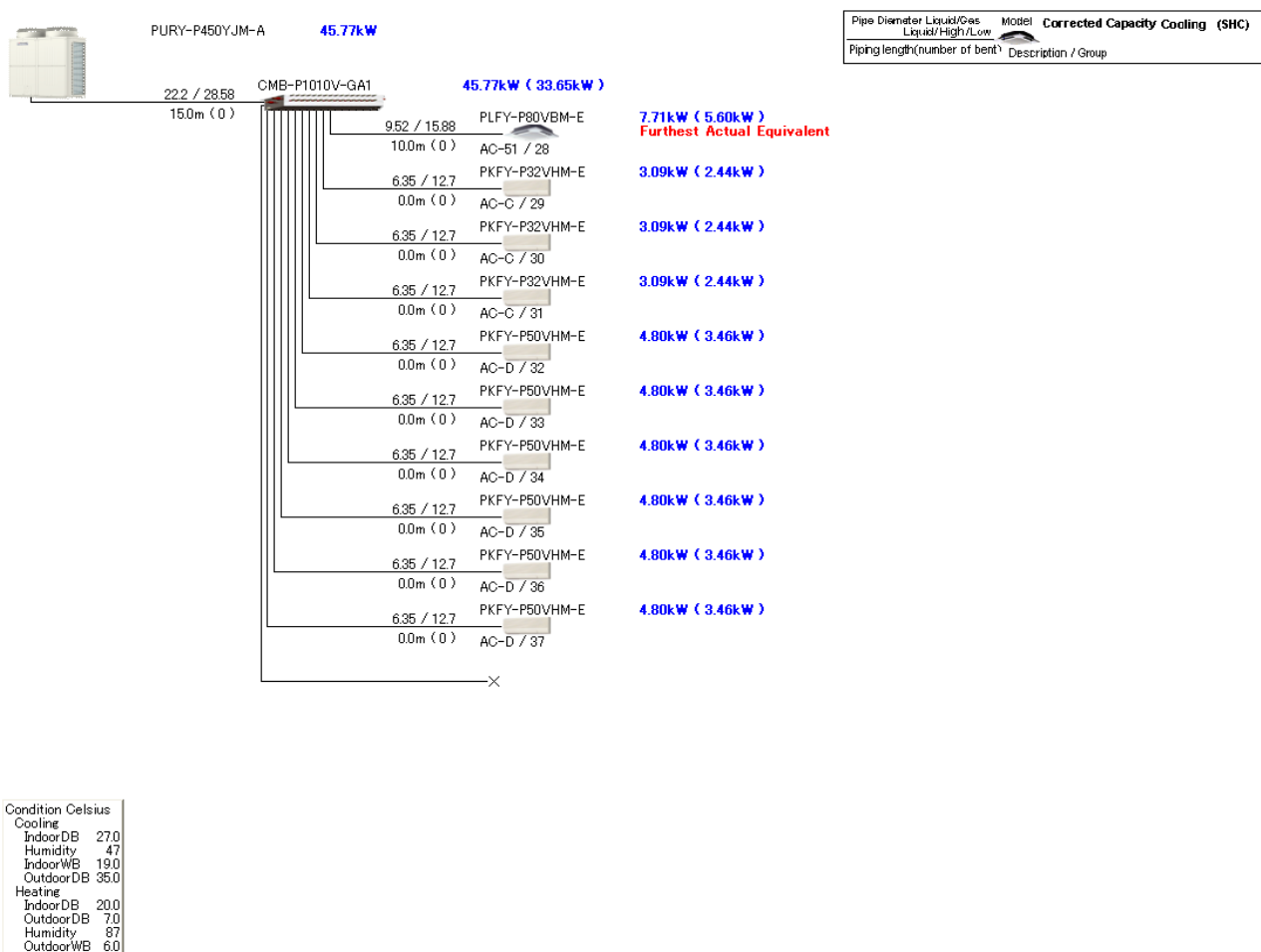
| Flow rate(m3/h) | Pressure drop(kPa) |
|-----------------|--------------------|
| - | - |

EC5

VRV-17

> Piping Design

1. Piping diagram



EC5

VRV-17

> Piping Design

2. Piping

| | Liquid/High (mm) | Gas/Low (mm) | Low/Gas/Bypass/Oi | Total length(m) | Number of bent |
|-------------------------------|------------------|--------------|-------------------|-----------------|----------------|
| BC controller to Indoor unit | 9.52 | 15.88 | | 10 | 0 |
| BC controller to Indoor unit | 6.35 | 12.7 | | 0 | 0 |
| Outdoor Unit to BC controller | 22.2 | 28.58 | | 15 | 0 |

3. Summary totals

| Pipe Size (mm) | Total length(m) | Number of bent |
|----------------|-----------------|----------------|
| 6.35 | 0 | 0 |
| 12.7 | 0 | 0 |
| 9.52 | 10 | 0 |
| 15.88 | 10 | 0 |
| 22.2 | 15 | 0 |
| 28.58 | 15 | 0 |

4. Refrigerant charge

| | | | | |
|------------------------|-------|---|------|----|
| Additional refrigerant | R410A | X | 13.6 | kg |
| Total refrigerant amo | R410A | X | 25.4 | kg |

5. Water flow rate (for WY and WR2 only)

| Flow rate(m3/h) | Pressure drop(kPa) |
|-----------------|--------------------|
| - | - |

EC5

> Electrical Wiring Information

| Sys. | 1 | x | AG-150A |
|---------------------------|---------------------|--|---------|
| Power supply info. | | | |
| | Power source: | - | |
| | MCA(A): | - | |
| | Max.Fuse(A): | - | |
| | Connection: | - | |
| | Power supply cable: | - | |
| | size | - | |
| | | - | |
| | | - | |
| Transmission info. | | | |
| | Connection: | "M-NET(A,B,S) or CN1" | |
| | Transmission cable: | Shielding wire (2-core) CVVS or CPEVS | |
| | size | 1.2-2mm2 | |
| | | - | |



| Sys. | 1 | x | PAC-SC51KUA |
|---------------------------|---------------------|---|-------------|
| Power supply info. | | | |
| | Power source: | - | |
| | MCA(A): | - | |
| | Max.Fuse(A): | - | |
| | Connection: | TB1(L,N),ground | |
| | Power supply cable: | Sheathed vinyl cord or cable | |
| | size | 0.75-2mm2 | |
| | | - | |
| | | - | |
| Transmission info. | | | |
| | Connection: | A,B | |
| | Transmission cable: | Sheathed vinyl cord or cable CVVS or CPEVS | |
| | size | 1.2-2mm2 | |
| | | - | |



EC5 starts from here

| Sys. | 1 | x | PAC-YG50ECA |
|---------------------------|---------------------|--|-------------|
| Power supply info. | | | |
| | Power source: | - | |
| | MCA(A): | - | |
| | Max.Fuse(A): | - | |
| | Connection: | TB1(L,N),ground | |
| | Power supply cable: | Sheathed vinyl cord or cable | |
| | size | 0.75-2mm2 | |
| | | - | |
| | | - | |
| Transmission info. | | | |
| | Connection: | M-NET(A,B,S) | |
| | Transmission cable: | Shielding wire (2-core) CVVS or CPEVS | |
| | size | 1.2-2mm2 | |
| | | - | |



| Sys. | 37 | x | PAR-30MAA |
|---------------------------|---------------------|-----------------------|-----------|
| Power supply info. | | | |
| | Power source: | - | |
| | MCA(A): | - | |
| | Max.Fuse(A): | - | |
| | Connection: | - | |
| | Power supply cable: | - | |
| | size | - | |
| | | - | |
| | | - | |
| Transmission info. | | | |
| | Connection: | A,B | |
| | Transmission cable: | Sheathed 2-core cable | |
| | | - | |
| | size | 0.3mm2 | |
| | | - | |



| Sys. | 2 | x | PAC-YG66DCA |
|---------------------------|---------------------|---|-------------|
| Power supply info. | | | |
| | Power source: | - | |
| | MCA(A): | - | |
| | Max.Fuse(A): | - | |
| | Connection: | CN16(V+,V-,FG) | |
| | Power supply cable: | Sheathed vinyl cord or cable | |
| | size | 0.75mm2 or thicker | |
| | | - | |
| | | - | |
| Transmission info. | | | |
| | Connection: | A,B | |
| | Transmission cable: | Sheathed vinyl cord or cable CVVS or CPEVS | |
| | size | 1.2-2mm2 | |
| | | - | |





| Sys. | 1 | x | PAC-YG63MCA |
|---------------------------|---------------------|---|-------------|
| Power supply info. | | | |
| | Power source: | - | |
| | MCA(A): | - | |
| | Max.Fuse(A): | - | |
| | Connection: | CN01(V+,V-,FG) | |
| | Power supply cable: | Sheathed vinyl cord or cable | |
| | size | 0.75mm2 or thicker | |
| | | - | |
| | | - | |
| Transmission info. | | | |
| | Connection: | A,B | |
| | Transmission cable: | Sheathed vinyl cord or cable CVVS or CPEVS | |
| | size | 1.2-2mm2 | |
| | | - | |





EC5


> Electrical Wiring Information


| Sys. | 1 | x | PURY-P350YJM-A |
|--------|---|----------------------------|----------------------------------|
| VRV-14 |  | Power supply info. | |
| | | Power source: | 3-phase 4-wire 380/400/415V 50Hz |
| | | MCA(A): | 29.18 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB1(L1,L2,L3,N),ground |
| | | Power supply cable: | |
| | | size | Metal conduit wire |
| | | | 6.0mm2 or thicker(main) |
| | | | 6.0mm2 or thicker(ground) |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB3(M1,M2,S)TB7(M1,M2,S) *2 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | size | - |
| | | size | |
| | | | 1.25mm2 or thicker |
| | | | - |

| Sys. | 1 | x | CMB-P1013V-GA1 |
|--------|---|----------------------------|---------------------------|
| VRV-14 |  | Power supply info. | |
| | | Power source: | 1-phase 220/230/240V 50Hz |
| | | MCA(A): | 1.34 |
| | | Max.Fuse(A): | - |
| | | Connection: | - |
| | | Power supply cable: | |
| | | size | - |
| | | | - |
| | | | - |
| | | | - |
| | | Transmission info. | |
| | | Connection: | - |
| | | Transmission cable: | - |
| | | | - |
| | | size | - |

| Sys. | 5 | x | PLFY-P25VCM-E |
|--------|---|----------------------------|------------------------------|
| VRV-14 |  | Power supply info. | |
| | | Power source: | 1-phase 220-240V 50Hz |
| | | MCA(A): | 0.29 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L,N),ground |
| | | Power supply cable: | |
| | | size | Metal conduit wire |
| | | | 1.5mm2 or thicker(main) *3 |
| | | | 1.5mm2 or thicker(ground) *3 |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2,S)TB15(1,2) *4 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | size | - |
| | | size | |
| | | | 1.25mm2 or thicker |
| | | | - |

| Sys. | 5 | x | PLFY-P20VCM-E |
|--------|---|----------------------------|------------------------------|
| VRV-14 |  | Power supply info. | |
| | | Power source: | 1-phase 220-240V 50Hz |
| | | MCA(A): | 0.29 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L,N),ground |
| | | Power supply cable: | |
| | | size | Metal conduit wire |
| | | | 1.5mm2 or thicker(main) *3 |
| | | | 1.5mm2 or thicker(ground) *3 |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2,S)TB15(1,2) *4 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | size | - |
| | | size | |
| | | | 1.25mm2 or thicker |
| | | | - |

| Sys. | 1 | x | PLFY-P32VBM-E |
|--------|---|----------------------------|------------------------------|
| VRV-14 |  | Power supply info. | |
| | | Power source: | 1-phase 220-240V 50Hz |
| | | MCA(A): | 0.28 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L,N),ground |
| | | Power supply cable: | |
| | | size | Metal conduit wire |
| | | | 1.5mm2 or thicker(main) *3 |
| | | | 1.5mm2 or thicker(ground) *3 |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2,S)TB15(1,2) *4 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | size | - |
| | | size | |
| | | | 1.25mm2 or thicker |
| | | | - |

| Sys. | 1 | x | PLFY-P100VBM-E |
|--------|---|----------------------------|------------------------------|
| VRV-14 |  | Power supply info. | |
| | | Power source: | 1-phase 220-240V 50Hz |
| | | MCA(A): | 1.25 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L,N),ground |
| | | Power supply cable: | |
| | | size | Metal conduit wire |
| | | | 1.5mm2 or thicker(main) *3 |
| | | | 1.5mm2 or thicker(ground) *3 |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2,S)TB15(1,2) *4 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | size | - |
| | | size | |
| | | | 1.25mm2 or thicker |
| | | | - |








*2 TB7 is used for centralized controller.

*3 The wiring size differs depending on the total operating current of the indoor unit. 1.5mm2 or thicker(16A or less), 2.5mm2 or thicker(25A or less), 4.0mm2 or thicker(32A or less)

*4 TB5 is used for ME remote controller. TB15 is used for MA remote controller.

EC5

> Electrical Wiring Information

| Sys. | 1 | | x | PURY-P650YSJM-A | |
|--------|---|--|---|---|--|
| |  | | | Power source: 3-phase 4-wire 380/400/415V 50Hz MCA(A): 51.9 Max.Fuse(A): - | |
| VRV-15 | 1 | | x | PURY-P350YJM-A | |
| |  | | | Power supply info. Power source: 3-phase 4-wire 380/400/415V 50Hz MCA(A): (29.18) Max.Fuse(A): - Connection: TB1(L1,L2,L3,N),ground Power supply cable: Metal conduit wire size: 6.0mm2 or thicker(main) 6.0mm2 or thicker(ground) - - Transmission info. Connection: TB3(M1,M2,S)TB7(M1,M2,S) *2 Transmission cable: Shielding wire (2-core) CVVS, CPEVS or MVVS size: 1.25mm2 or thicker - | |
| VRV-15 | 1 | | x | PURY-P300YJM-A | |
| |  | | | Power supply info. Power source: 3-phase 4-wire 380/400/415V 50Hz MCA(A): (22.31) Max.Fuse(A): - Connection: TB1(L1,L2,L3,N),ground Power supply cable: Metal conduit wire size: 4.0mm2 or thicker(main) 4.0mm2 or thicker(ground) - - Transmission info. Connection: TB3(M1,M2,S)TB7(M1,M2,S) *2 Transmission cable: Shielding wire (2-core) CVVS, CPEVS or MVVS size: 1.25mm2 or thicker - | |
| VRV-15 | 1 | | x | CMB-P1010V-GA1 | |
| |  | | | Power supply info. Power source: 1-phase 220/230/240V 50Hz MCA(A): 1.04 Max.Fuse(A): - Connection: - Power supply cable: - size: - - Transmission info. Connection: - Transmission cable: - size: - - | |
| VRV-15 | 1 | | x | PEFY-P140VMH-E | |
| |  | | | Power supply info. Power source: 1-phase 220-240V 50Hz MCA(A): 3.1 Max.Fuse(A): - Connection: TB2(L,N),ground Power supply cable: Metal conduit wire size: 1.5mm2 or thicker(main) *3 1.5mm2 or thicker(ground) *3 - - Transmission info. Connection: TB5(M1,M2,S)TB15(1,2) *4 Transmission cable: Shielding wire (2-core) CVVS, CPEVS or MVVS size: 1.25mm2 or thicker - | |
| VRV-15 | 1 | | x | PLFY-P80VBM-E | |
| |  | | | Power supply info. Power source: 1-phase 220-240V 50Hz MCA(A): 0.64 Max.Fuse(A): - Connection: TB2(L,N),ground Power supply cable: Metal conduit wire size: 1.5mm2 or thicker(main) *3 1.5mm2 or thicker(ground) *3 - - Transmission info. Connection: TB5(M1,M2,S)TB15(1,2) *4 Transmission cable: Shielding wire (2-core) CVVS, CPEVS or MVVS size: 1.25mm2 or thicker - | |
| VRV-15 | 3 | | x | PEFY-P200VMH-E | |
| |  | | | Power supply info. Power source: 3-phase 4-wire 380-415V 50Hz MCA(A): 2.03 Max.Fuse(A): - Connection: TB2(L1,L2,L3,N),ground Power supply cable: Metal conduit wire size: 1.5mm2 or thicker(main) *3 1.5mm2 or thicker(ground) *3 - - Transmission info. Connection: TB5(M1,M2,S)TB15(1,2) *4 Transmission cable: Shielding wire (2-core) CVVS, CPEVS or MVVS size: 1.25mm2 or thicker - | |


*2 TB7 is used for centralized controller.


*3 The wiring size differs depending on the total operating current of the indoor unit. 1.5mm2 or thicker(16A or less), 2.5mm2 or thicker(25A or less), 4.0mm2 or thicker(32A or less)


*4 TB5 is used for ME remote controller. TB15 is used for MA remote controller.


EC5


> Electrical Wiring Information


| Sys. | 1 | x | PURY-P350YJM-A |
|--------|---|---------------------------|----------------------------------|
| VRV-16 |  | Power supply info. | |
| | | Power source: | 3-phase 4-wire 380/400/415V 50Hz |
| | | MCA(A): | 29.18 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB1(L1,L2,L3,N),ground |
| | | Power supply cable: | Metal conduit wire |
| | | size | 6.0mm2 or thicker(main) |
| | | | 6.0mm2 or thicker(ground) |
| | | | - |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB3(M1,M2,S)TB7(M1,M2,S) *2 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | size | 1.25mm2 or thicker |

| Sys. | 1 | x | CMB-P1010V-GA1 |
|--------|---|---------------------------|---------------------------|
| VRV-16 |  | Power supply info. | |
| | | Power source: | 1-phase 220/230/240V 50Hz |
| | | MCA(A): | 1.04 |
| | | Max.Fuse(A): | - |
| | | Connection: | - |
| | | Power supply cable: | - |
| | | size | - |
| | | | - |
| | | | - |
| | | | - |
| | | Transmission info. | |
| | | Connection: | - |
| | | Transmission cable: | - |
| | | | - |
| | | size | - |

| Sys. | 1 | x | PLFY-P80VBM-E |
|--------|---|---------------------------|------------------------------|
| VRV-16 |  | Power supply info. | |
| | | Power source: | 1-phase 220-240V 50Hz |
| | | MCA(A): | 0.64 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L,N),ground |
| | | Power supply cable: | Metal conduit wire |
| | | size | 1.5mm2 or thicker(main) *3 |
| | | | 1.5mm2 or thicker(ground) *3 |
| | | | - |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2,S)TB15(1,2) *4 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | size | 1.25mm2 or thicker |

| Sys. | 4 | x | PKFY-P25VBM-E |
|--------|---|---------------------------|------------------------------|
| VRV-16 |  | Power supply info. | |
| | | Power source: | 1-phase 220-240V 50Hz |
| | | MCA(A): | 0.25 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L,N),ground |
| | | Power supply cable: | Metal conduit wire |
| | | size | 1.5mm2 or thicker(main) *3 |
| | | | 1.5mm2 or thicker(ground) *3 |
| | | | - |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2)CN3A(1,3) *4 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | size | 1.25mm2 or thicker |

| Sys. | 5 | x | PKFY-P32VHM-E |
|--------|---|---------------------------|------------------------------|
| VRV-16 |  | Power supply info. | |
| | | Power source: | 1-phase 220-240V 50Hz |
| | | MCA(A): | 0.38 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L,N),ground |
| | | Power supply cable: | Metal conduit wire |
| | | size | 1.5mm2 or thicker(main) *3 |
| | | | 1.5mm2 or thicker(ground) *3 |
| | | | - |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2,S)TB15(1,2) *4 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | size | 1.25mm2 or thicker |

| Sys. | 1 | x | PURY-P450YJM-A |
|--------|---|---------------------------|----------------------------------|
| VRV-17 |  | Power supply info. | |
| | | Power source: | 3-phase 4-wire 380/400/415V 50Hz |
| | | MCA(A): | 37.76 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB1(L1,L2,L3,N),ground |
| | | Power supply cable: | Metal conduit wire |
| | | size | 10.0mm2 or thicker(main) |
| | | | 10.0mm2 or thicker(ground) |
| | | | - |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB3(M1,M2,S)TB7(M1,M2,S) *2 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | size | 1.25mm2 or thicker |


*2 TB7 is used for centralized controller.


*3 The wiring size differs depending on the total operating current of the indoor unit. 1.5mm2 or thicker(16A or less), 2.5mm2 or thicker(25A or less), 4.0mm2 or thicker(32A or less)


*4 TB5 is used for ME remote controller. TB15 is used for MA remote controller.


EC5

> Electrical Wiring Information

| Sys. | 1 | x | CMB-P1010V-GA1 |
|--------|---|---------------------------|---------------------------|
| VRV-17 |  | Power supply info. | |
| | | Power source: | 1-phase 220/230/240V 50Hz |
| | | MCA(A): | 1.04 |
| | | Max.Fuse(A): | - |
| | | Connection: | - |
| | | Power supply cable: | - |
| | | size | - |
| | | - | - |
| | | - | - |
| | | - | - |
| | | Transmission info. | |
| | | Connection: | - |
| | | Transmission cable: | - |
| | | - | - |
| | | - | - |
| | | size | - |
| | | - | - |

| Sys. | 1 | x | PLFY-P80VBM-E |
|--------|---|---------------------------|--|
| VRV-17 |  | Power supply info. | |
| | | Power source: | 1-phase 220-240V 50Hz |
| | | MCA(A): | 0.64 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L,N),ground |
| | | Power supply cable: | Metal conduit wire |
| | | size | 1.5mm2 or thicker(main) *3 |
| | | - | 1.5mm2 or thicker(ground) *3 |
| | | - | - |
| | | - | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2,S)TB15(1,2) *4 |
| | | Transmission cable: | Shielding wire (2-core) CVVS, CPEVS or MVVS |
| | | - | - |
| | | size | 1.25mm2 or thicker |
| | | - | - |

| Sys. | 3 | x | PKFY-P32VHM-E |
|--------|---|---------------------------|--|
| VRV-17 |  | Power supply info. | |
| | | Power source: | 1-phase 220-240V 50Hz |
| | | MCA(A): | 0.38 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L,N),ground |
| | | Power supply cable: | Metal conduit wire |
| | | size | 1.5mm2 or thicker(main) *3 |
| | | - | 1.5mm2 or thicker(ground) *3 |
| | | - | - |
| | | - | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2,S)TB15(1,2) *4 |
| | | Transmission cable: | Shielding wire (2-core) CVVS, CPEVS or MVVS |
| | | - | - |
| | | size | 1.25mm2 or thicker |
| | | - | - |

| Sys. | 6 | x | PKFY-P50VHM-E |
|--------|---|---------------------------|--|
| VRV-17 |  | Power supply info. | |
| | | Power source: | 1-phase 220-240V 50Hz |
| | | MCA(A): | 0.38 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L,N),ground |
| | | Power supply cable: | Metal conduit wire |
| | | size | 1.5mm2 or thicker(main) *3 |
| | | - | 1.5mm2 or thicker(ground) *3 |
| | | - | - |
| | | - | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2,S)TB15(1,2) *4 |
| | | Transmission cable: | Shielding wire (2-core) CVVS, CPEVS or MVVS |
| | | - | - |
| | | size | 1.25mm2 or thicker |
| | | - | - |

*3 The wiring size differs depending on the total operating current of the indoor unit. 1.5mm2 or thicker(16A or less), 2.5mm2 or thicker(25A or less), 4.0mm2 or thicker(32A or less)

*4 TB5 is used for ME remote controller. TB15 is used for MA remote controller.

EC6

>System Configuration

> Outdoor unit / Indoor unit / Controller

| Refrigerant system | Outdoor unit | | Room | Indoor unit | | | Controller | | Group name |
|--------------------|--------------|--------------------|-------|-------------|----------------|------|------------|------|------------|
| | Ref. | Model name Add. | | Ref. | Model name | Add. | Model name | Add. | |
| VRV-18 | | PURY-P400YJM-A | AC-A | | PKFY-P25VBM-E | 001 | PAR-30MAA | | 1 |
| | | 051 | AC-A | | PKFY-P25VBM-E | 002 | PAR-30MAA | | 2 |
| | | CMB-P1016V-GA1 | AC-A | | PKFY-P25VBM-E | 003 | PAR-30MAA | | 3 |
| | | 052 | AC-A | | PKFY-P25VBM-E | 004 | PAR-30MAA | | 4 |
| | | | AC-A | | PKFY-P25VBM-E | 005 | PAR-30MAA | | 5 |
| | | | AC-A | | PKFY-P25VBM-E | 006 | PAR-30MAA | | 6 |
| | | | AC-A | | PKFY-P25VBM-E | 007 | PAR-30MAA | | 7 |
| | | | AC-A | | PKFY-P25VBM-E | 008 | PAR-30MAA | | 8 |
| | | | AC-B | | PKFY-P32VHM-E | 009 | PAR-30MAA | | 9 |
| | | | AC-B | | PKFY-P32VHM-E | 010 | PAR-30MAA | | 10 |
| | | | AC-B | | PKFY-P32VHM-E | 011 | PAR-30MAA | | 11 |
| | | | AC-B | | PKFY-P32VHM-E | 012 | PAR-30MAA | | 12 |
| | | | AC-B | | PKFY-P32VHM-E | 013 | PAR-30MAA | | 13 |
| | | | AC-B | | PKFY-P32VHM-E | 014 | PAR-30MAA | | 14 |
| VRV-19 | | PURY-P500YSJM-A | AC-47 | | PLFY-P40VBM-E | 015 | PAR-30MAA | | 15 |
| | | 065 066 | AC-48 | | PEFY-P200VMH-E | 016 | PAR-30MAA | | 16 |
| | | CMB-P108V-GA1 | AC-49 | | PLFY-P80VBM-E | 017 | PAR-30MAA | | 17 |
| | | 067 | AC-50 | | PEFY-P200VMH-E | 018 | PAR-30MAA | | 18 |
| CU-43 | | PUMY-P140YHMB | AC-43 | | PEFY-P140VMH-E | 019 | PAR-30MAA | | 19 |
| | | 069 | | | | | | | |

EC6

> Product information

>Controller

| Model name | Product image*1 | Qty | Description |
|-------------|---|-----|----------------------|
| AG-150A |  | 1 | Central controller |
| PAC-SC51KUA |  | 1 | Power supply unit |
| PAC-YG50ECA |  | 1 | Expansion controller |
| PAR-30MAA |  | 19 | MA remote controller |


EC6 starts from here

>PI/AI/DIDO controller

| Model name | Product image*1 | Qty | Description |
|------------|-----------------|-----|-------------|
| | | | |

>Air conditioning unit specifications

1. Outdoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Power input (kW) | | COP (kW/kW)*2 | |
|--------|----------------|---|-----|---------|--------------|-------------|------------------|--------------------|---|-----------------|
| | | | | | Rated | Corrected | Rated | Corrected | Rated | Corrected |
| VRV-18 | PURY-P400YJM-A |  | 1 | Cooling | 45.00 | 41.02 | 13.55 | 11.62 | 3.32 | 3.53 |
| | | | | Heating | 50.00 | 44.33 | 12.75 | 16.04 | 3.92 | 2.76 |
| | | | | | Conditions | | | | Dimension(mm) | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | Water inlet(deg C) | H X W X D | |
| | | | | Cooling | 34.5 | - | - | - | 1,710(1,650 without legs) x 1,220 x 760 | |
| | | | | Heating | 3.5 | 2.5 | 85 | - | | |
| | | | | | | | | | | Net weight (kg) |
| | | | | | | | | | | 270 |


*1 The product image refers to a representative model. The actual product may differ from the image shown.

*2 The COP here is for outdoor unit only. not for whole system.


EC6


> Product information

2. BC controller (R2 series only)

| Sys. | Model name | Product image*1 | Qty | | Power input (kW) | Dimension(mm) | Net weight |
|--------|----------------|---|-----|---------|------------------|-------------------|------------|
| VRV-18 | CMB-P1016V-GA1 |  | 1 | | Rated | H X W X D | (kg) |
| | | | | Cooling | 0.25 | 289 x 1,110 x 520 | 62 |
| | | | | Heating | 0.12 | | |

3. Indoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure |
|--------|---------------|--|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|
| VRV-18 | PKFY-P25VBM-E |  | 8 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | *3 |
| | | | | Cooling | 2.80 | 2.61 | 1.90 | 1.80 | 0.04 | 0.2 | 4.9-5.9 | |
| | | | | Heating | 3.20 | 2.86 | | | 0.04 | 0.2 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 295 x 815 x 225 | | 10 | | |
| | | | | Heating | 20.0 | - | - | | | | | |

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|
| VRV-18 | PKFY-P32VHM-E |  | 6 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | *3 |
| | | | | Cooling | 3.60 | 3.36 | 2.70 | 2.56 | 0.04 | 0.4 | 9-11 | |
| | | | | Heating | 4.00 | 3.57 | | | 0.03 | 0.3 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 295 x 898 x 249 | | 13 | | |
| | | | | Heating | 20.0 | - | - | | | | | |

4. Branch/Header/Twinning kit

| Sys. | Model name | Product image*1 | Qty | Description |
|------|------------|-----------------|-----|-------------|
| - | - | | - | - |

*1 The product image refers to a representative model. The actual product may differ from the image shown.


*3 Please refer to the specification sheet in the "Product Features" section at the end.

EC6


> Product information

> Air conditioning unit specifications


1. Outdoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Power input (kW) | | COP (kW/kW)*2 | |
|--------|-----------------|---|-----|---------|--------------|-------------|------------------|--------------------|---|-----------|
| VRV-19 | PURY-P500YSJM-A |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | Corrected |
| | | | | Cooling | 56.00 | 51.69 | 14.85 | 13.90 | 3.77 | 3.72 |
| | | | | Heating | 63.00 | 55.38 | 15.10 | 17.93 | 4.17 | 3.09 |
| | | | | | Conditions | | | | Dimension(mm) | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | Water inlet(deg C) | H X W X D | |
| | | | | Cooling | 34.5 | - | - | - | 1,710(1,650 without legs) x 920 x 760(P250)/1,710(1,650 without legs) x 920 x 760(P250) | |
| | | | | Heating | 3.5 | 2.5 | 85 | - | | |
| | | | | | | | | | Net weight | |
| | | | | | | | | | (kg) | |
| | | | | | | | | | 240(P250)/240(P250) | |

2. BC controller (R2 series only)

| Sys. | Model name | Product image*1 | Qty | | Power input (kW) | Dimension(mm) | Net weight |
|--------|---------------|---|-----|---------|------------------|-------------------|------------|
| VRV-19 | CMB-P108V-GA1 |  | 1 | | Rated | H X W X D | (kg) |
| | | | | Cooling | 0.13 | 289 x 1,110 x 520 | 43 |
| | | | | Heating | 0.06 | | |

3. Indoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) | External static pressure | |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|-------------------------|--------------------------|----|
| VRV-19 | PLFY-P40VBM-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | (m3/min) | 12 - 16 | *3 |
| | | | | Cooling | 4.50 | 3.95 | 3.60 | 3.29 | 0.04 | 0.29 | | | |
| | | | | Heating | 5.00 | 4.26 | | | 0.03 | 0.22 | | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 258 x 840 x 840 | | 22 | | | |
| | | | | Heating | 20.0 | - | - | | | | | | |

*1 The product image refers to a representative model. The actual product may differ from the image shown.


*2 The COP here is for outdoor unit only. not for whole system.


*3 Please refer to the specification sheet in the "Product Features" section at the end.


EC6

> Product information

3. Indoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) (m3/min) | External static pressure |
|--------|----------------|---|-----|---------|--------------|-------------|-----------------------|---------------------|------------------|-------------|----------------------------------|--------------------------|
| VRV-19 | PEFY-P200VMH-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | 58 | *3 |
| | | | | Cooling | 22.40 | 20.16 | 16.00 | 16.76 | 0.99 | 1.62 | | |
| | | | | Heating | 25.00 | 21.30 | | | 0.99 | 1.62 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 26.2 | 17.7 | 43 | 470 x 1,250 x 1,120 | | 100 | | |
| | | | | Heating | 20.0 | - | - | | | | | |

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) (m3/min) | External static pressure |
|--------|---------------|---|-----|---------|--------------|-------------|-----------------------|-----------------|------------------|-------------|----------------------------------|--------------------------|
| VRV-19 | PLFY-P80VBM-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | 16 - 22 | *3 |
| | | | | Cooling | 9.00 | 7.90 | 6.30 | 5.68 | 0.07 | 0.51 | | |
| | | | | Heating | 10.00 | 8.52 | | | 0.06 | 0.43 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 258 x 840 x 840 | | 23 | | |
| | | | | Heating | 20.0 | - | - | | | | | |

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) (m3/min) | External static pressure |
|--------|----------------|---|-----|---------|--------------|-------------|-----------------------|---------------------|------------------|-------------|----------------------------------|--------------------------|
| VRV-19 | PEFY-P200VMH-E |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | 58 | *3 |
| | | | | Cooling | 22.40 | 19.67 | 16.00 | 15.16 | 0.99 | 1.62 | | |
| | | | | Heating | 25.00 | 21.30 | | | 0.99 | 1.62 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 24.0 | 17.0 | 50 | 470 x 1,250 x 1,120 | | 100 | | |
| | | | | Heating | 20.0 | - | - | | | | | |

4. Branch/Header/Twinning kit

| Sys. | Model name | Product image*1 | Qty | Description |
|--------|-------------|-----------------|-----|-------------|
| VRV-19 | CMY-R160-J1 | | 2 | - |

*1 The product image refers to a representative model. The actual product may differ from the image shown.

*3 Please refer to the specification sheet in the "Product Features" section at the end.

EC6


> Product information

4. Branch/Header/Twinning kit

| Sys. | Model name | Product image*1 | Qty | Description |
|--------|-------------|-----------------|-----|-------------|
| VRV-19 | CMY-R100VBK | | 1 | - |

>Air conditioning unit specifications

1. Outdoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Power input (kW) | | COP (kW/kW)*2 | |
|-------|---------------|---|-----|---------|--------------|-------------|------------------|--------------------|-------------------|-----------|
| CU-43 | PUMY-P140YHMB |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | Corrected |
| | | | | Cooling | 15.50 | 10.60 | 5.32 | - | 2.91 | - |
| | | | | Heating | 18.00 | 12.65 | 5.32 | - | 3.38 | - |
| | | | | | Conditions | | | | Dimension(mm) | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | Water inlet(deg C) | H X W X D | |
| | | | | Cooling | 34.5 | - | - | - | 1,350 x 950 x 330 | |
| | | | | Heating | 3.5 | 2.5 | 85 | - | | |
| | | | | | | | | | Net weight | |
| | | | | | | | | | (kg) | |
| | | | | | | | | | 140 | |

2. BC controller (R2 series only)

| Sys. | Model name | Product image*1 | Qty | | Power input (kW) | Dimension(mm) | Net weight |
|------|------------|-----------------|-----|---------|------------------|---------------|------------|
| | | | | | Rated | H X W X D | (kg) |
| | | | | Cooling | | | |
| | | | | Heating | | | |


*1 The product image refers to a representative model. The actual product may differ from the image shown.

*2 The COP here is for outdoor unit only. not for whole system.

EC6

> Product information

3. Indoor unit

| Sys. | Model name | Product image*1 | Qty | | Capacity(kW) | | Sensible capacity(kW) | | Power input (kW) | Current (A) | Airflow rate (Low-High) (m3/min) | External static pressure |
|-------|------------------|---|-----|---------|--------------|-------------|-----------------------|------------------|------------------|-------------|----------------------------------|--------------------------|
| CU-43 | PEFY-P140VMH-E-F |  | 1 | | Rated | Corrected | Rated | Corrected | Rated | | | |
| | | | | Cooling | 16.00 | 10.60 | 6.20 | 8.99 | 0.29 | 1.24 | 18 | *3 |
| | | | | Heating | 15.10 | 12.65 | | | 0.29 | 1.24 | | |
| | | | | | Conditions | | | Dimension(mm) | | Net weight | | |
| | | | | | D.B.(deg C) | W.B.(deg C) | Humidity(%) | H X W X D | | (kg) | | |
| | | | | Cooling | 34.5 | 20.5 | 27 | 380 x 1200 x 900 | | 70 | | |
| | | | | Heating | 7.0 | 6.0 | 87 | | | | | |

4. Branch/Header/Twinning kit

| Sys. | Model name | Product image*1 | Qty | Description |
|------|------------|-----------------|-----|-------------|
| - | - | | - | - |

>Ventilators

| Model name | Product image*1 | Qty | Description |
|------------|-----------------|-----|-------------|
| - | | - | - |

*1 The product image refers to a representative model. The actual product may differ from the image shown.

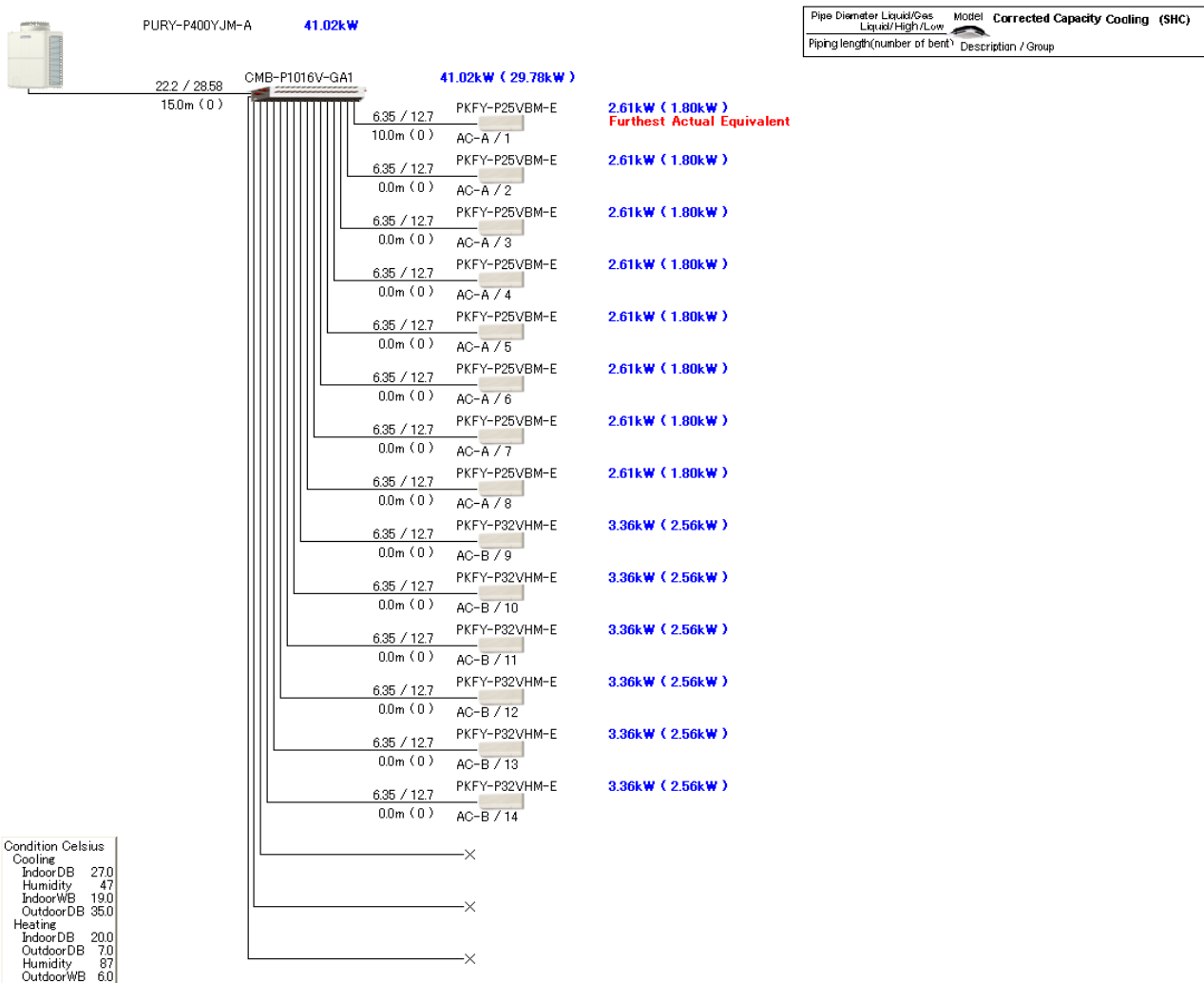
*3 Please refer to the specification sheet in the "Product Features" section at the end.

EC6

VRV-18

> Piping Design

1. Piping diagram



EC6

VRV-18

> Piping Design

2. Piping

| | Liquid/High (mm) | Gas/Low (mm) | Low/Gas/Bypass/Oi | Total length(m) | Number of bent |
|-------------------------------|------------------|--------------|-------------------|-----------------|----------------|
| BC controller to Indoor unit | 6.35 | 12.7 | | 10 | 0 |
| Outdoor Unit to BC controller | 22.2 | 28.58 | | 15 | 0 |

3. Summary totals

| Pipe Size (mm) | Total length(m) | Number of bent |
|----------------|-----------------|----------------|
| 6.35 | 10 | 0 |
| 12.7 | 10 | 0 |
| 22.2 | 15 | 0 |
| 28.58 | 15 | 0 |

4. Refrigerant charge

| | | | | |
|------------------------|-------|---|------|----|
| Additional refrigerant | R410A | X | 12.7 | kg |
| Total refrigerant amo | R410A | X | 24.5 | kg |

5. Water flow rate (for WY and WR2 only)

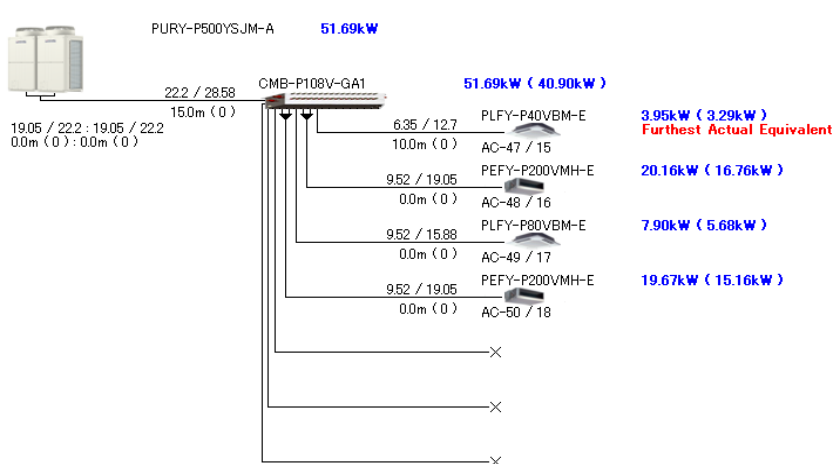
| Flow rate(m3/h) | Pressure drop(kPa) |
|-----------------|--------------------|
| - | - |

EC6

VRV-19

> Piping Design

1. Piping diagram



| Pipe Diameter Liquid/Gas | Model | Corrected Capacity Cooling (SHC) |
|-------------------------------|---------------------|----------------------------------|
| Liquid/High/Low | | |
| Piping length(number of bent) | Description / Group | |

| | |
|-------------------|------|
| Condition Celsius | |
| Cooling | |
| IndoorDB | 27.0 |
| Humidity | 47 |
| IndoorWB | 19.0 |
| OutdoorDB | 35.0 |
| Heating | |
| IndoorDB | 20.0 |
| OutdoorDB | 7.0 |
| Humidity | 87 |
| OutdoorWB | 6.0 |

EC6

VRV-19

> Piping Design

2. Piping

| | Liquid/High (mm) | Gas/Low (mm) | Low/Gas/Bypass/Oi | Total length(m) | Number of bent |
|-------------------------------|------------------|--------------|-------------------|-----------------|----------------|
| BC controller to Indoor unit | 6.35 | 12.7 | | 10 | 0 |
| BC controller to Indoor unit | 9.52 | 19.05 | | 0 | 0 |
| BC controller to Indoor unit | 9.52 | 15.88 | | 0 | 0 |
| Outdoor Unit to BC controller | 22.2 | 28.58 | | 15 | 0 |
| Outdoor Unit to BC controller | 19.05 | 22.2 | | 0 | 0 |

3. Summary totals

| Pipe Size (mm) | Total length(m) | Number of bent |
|----------------|-----------------|----------------|
| 15.88 | 0 | 0 |
| 9.52 | 0 | 0 |
| 6.35 | 10 | 0 |
| 12.7 | 10 | 0 |
| 22.2 | 15 | 0 |
| 28.58 | 15 | 0 |
| 19.05 | 0 | 0 |

4. Refrigerant charge

| | | | | |
|------------------------|-------|---|------|----|
| Additional refrigerant | R410A | X | 14.7 | kg |
| Total refrigerant amo | R410A | X | 33.7 | kg |

5. Water flow rate (for WY and WR2 only)

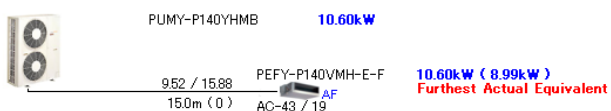
| Flow rate(m3/h) | Pressure drop(kPa) |
|-----------------|--------------------|
| - | - |

EC6

CU-43

> Piping Design

1. Piping diagram



| Pipe Diameter Liquid/Gas | Model | Corrected Capacity | Cooling (SHC) |
|-------------------------------|---------------------|--------------------|---------------|
| Piping length(number of bent) | Description / Group | | |

| | |
|-----------|---------|
| Condition | Celsius |
| Cooling | |
| IndoorDB | 27.0 |
| Humidity | 47 |
| IndoorWB | 19.0 |
| OutdoorDB | 35.0 |
| Humidity | 40 |
| OutdoorWB | 24.0 |
| Heating | |
| IndoorDB | 20.0 |
| OutdoorDB | 7.0 |
| Humidity | 87 |
| OutdoorWB | 6.0 |

EC6

CU-43

> Piping Design

2. Piping

| | Liquid/High (mm) | Gas/Low (mm) | Low/Gas/Bypass/Oi | Total length(m) | Number of bent |
|-----------------------------|------------------|--------------|-------------------|-----------------|----------------|
| Outdoor Unit to first joint | 9.52 | 15.88 | | 15 | 0 |

3. Summary totals

| Pipe Size (mm) | Total length(m) | Number of bent |
|----------------|-----------------|----------------|
| 9.52 | 15 | 0 |
| 15.88 | 15 | 0 |

4. Refrigerant charge

| | | | | |
|------------------------|-------|---|-----|----|
| Additional refrigerant | R410A | X | 0 | kg |
| Total refrigerant amo | R410A | X | 8.5 | kg |

5. Water flow rate (for WY and WR2 only)

| Flow rate(m3/h) | Pressure drop(kPa) |
|-----------------|--------------------|
| - | - |

EC6

> Electrical Wiring Information

| Sys. | 1 | x | AG-150A |
|--------------------|---------------------|--|---------|
| Power supply info. | | | |
| | Power source: | - | |
| | MCA(A): | - | |
| | Max.Fuse(A): | - | |
| | Connection: | - | |
| | Power supply cable: | - | |
| | size | - | |
| | | - | |
| | | - | |
| Transmission info. | | | |
| | Connection: | "M-NET(A,B,S) or CN1" | |
| | Transmission cable: | Shielding wire (2-core) CVVS or CPEVS | |
| | size | 1.2-2mm2 | |
| | | - | |

| Sys. | 1 | x | PAC-SC51KUA |
|--------------------|---------------------|---|-------------|
| Power supply info. | | | |
| | Power source: | - | |
| | MCA(A): | - | |
| | Max.Fuse(A): | - | |
| | Connection: | TB1(L,N),ground | |
| | Power supply cable: | Sheathed vinyl cord or cable | |
| | size | 0.75-2mm2 | |
| | | - | |
| | | - | |
| Transmission info. | | | |
| | Connection: | A,B | |
| | Transmission cable: | Sheathed vinyl cord or cable CVVS or CPEVS | |
| | size | 1.2-2mm2 | |
| | | - | |

EC6 starts from here

| Sys. | 1 | x | PAC-YG50ECA |
|--------------------|---------------------|--|-------------|
| Power supply info. | | | |
| | Power source: | - | |
| | MCA(A): | - | |
| | Max.Fuse(A): | - | |
| | Connection: | TB1(L,N),ground | |
| | Power supply cable: | Sheathed vinyl cord or cable | |
| | size | 0.75-2mm2 | |
| | | - | |
| | | - | |
| Transmission info. | | | |
| | Connection: | M-NET(A,B,S) | |
| | Transmission cable: | Shielding wire (2-core) CVVS or CPEVS | |
| | size | 1.2-2mm2 | |
| | | - | |

| Sys. | 19 | x | PAR-30MAA |
|--------------------|---------------------|-----------------------|-----------|
| Power supply info. | | | |
| | Power source: | - | |
| | MCA(A): | - | |
| | Max.Fuse(A): | - | |
| | Connection: | - | |
| | Power supply cable: | - | |
| | size | - | |
| | | - | |
| | | - | |
| Transmission info. | | | |
| | Connection: | A,B | |
| | Transmission cable: | Sheathed 2-core cable | |
| | size | 0.3mm2 | |
| | | - | |

| Sys. | 1 | x | PURY-P400YJM-A |
|--------------------|---------------------|--|----------------|
| Power supply info. | | | |
| | Power source: | 3-phase 4-wire 380/400/415V 50Hz | |
| | MCA(A): | 33.04 | |
| | Max.Fuse(A): | - | |
| | Connection: | TB1(L1,L2,L3,N),ground | |
| | Power supply cable: | Metal conduit wire | |
| | size | 10.0mm2 or thicker(main) 10.0mm2 or thicker(ground) | |
| | | - | |
| | | - | |
| Transmission info. | | | |
| | Connection: | TB3(M1,M2,S)TB7(M1,M2,S) *2 | |
| | Transmission cable: | Shielding wire (2-core) CVVS, CPEVS or MVVS | |
| | size | 1.25mm2 or thicker | |
| | | - | |

| Sys. | 1 | x | CMB-P1016V-GA1 |
|--------------------|---------------------|---------------------------|----------------|
| Power supply info. | | | |
| | Power source: | 1-phase 220/230/240V 50Hz | |
| | MCA(A): | 1.63 | |
| | Max.Fuse(A): | - | |
| | Connection: | - | |
| | Power supply cable: | - | |
| | size | - | |
| | | - | |
| | | - | |
| Transmission info. | | | |
| | Connection: | - | |
| | Transmission cable: | - | |
| | size | - | |
| | | - | |

*2 TB7 is used for centralized controller.

EC6

> Electrical Wiring Information

| Sys. | 8 | x | PKFY-P25VBM-E |
|--------|---------------------------|------------------------------|---------------|
| VRV-18 | Power supply info. | | |
| | Power source: | 1-phase 220-240V 50Hz | |
| | MCA(A): | 0.25 | |
| | Max.Fuse(A): | - | |
| | Connection: | TB2(L,N),ground | |
| | Power supply cable: | Metal conduit wire | |
| | size | 1.5mm2 or thicker(main) *3 | |
| | | 1.5mm2 or thicker(ground) *3 | |
| | | - | |
| | Transmission info. | | |
| | Connection: | TB5(M1,M2)CN3A(1,3) *4 | |
| | Transmission cable: | Shielding wire (2-core) | |
| | | CVVS, CPEVS or MVVS | |
| | size | 1.25mm2 or thicker | |
| | | - | |

| Sys. | 6 | x | PKFY-P32VHM-E |
|--------|---------------------------|------------------------------|---------------|
| VRV-18 | Power supply info. | | |
| | Power source: | 1-phase 220-240V 50Hz | |
| | MCA(A): | 0.38 | |
| | Max.Fuse(A): | - | |
| | Connection: | TB2(L,N),ground | |
| | Power supply cable: | Metal conduit wire | |
| | size | 1.5mm2 or thicker(main) *3 | |
| | | 1.5mm2 or thicker(ground) *3 | |
| | | - | |
| | Transmission info. | | |
| | Connection: | TB5(M1,M2,S)TB15(1,2) *4 | |
| | Transmission cable: | Shielding wire (2-core) | |
| | | CVVS, CPEVS or MVVS | |
| | size | 1.25mm2 or thicker | |
| | | - | |

| Sys. | 1 | x | PURY-P500YSJM-A |
|--------|---------------------------|----------------------------------|-----------------|
| VRV-19 | Power supply info. | | |
| | Power source: | 3-phase 4-wire 380/400/415V 50Hz | |
| | MCA(A): | 37.2 | |
| | Max.Fuse(A): | - | |
| | Transmission info. | | |
| | Connection: | TB3(M1,M2,S)TB7(M1,M2,S) *2 | |
| | Transmission cable: | Shielding wire (2-core) | |
| | | CVVS, CPEVS or MVVS | |
| | size | 1.25mm2 or thicker | |
| | | - | |

| Sys. | 1 | x | CMB-P108V-GA1 |
|--------|---------------------------|---------------------------|---------------|
| VRV-19 | Power supply info. | | |
| | Power source: | 1-phase 220/230/240V 50Hz | |
| | MCA(A): | 0.85 | |
| | Max.Fuse(A): | - | |
| | Connection: | - | |
| | Power supply cable: | - | |
| | size | - | |
| | | - | |
| | | - | |
| | Transmission info. | | |
| | Connection: | - | |
| | Transmission cable: | - | |
| | | - | |
| | size | - | |
| | | - | |

| Sys. | 1 | x | PLFY-P40VBM-E |
|--------|---------------------------|------------------------------|---------------|
| VRV-19 | Power supply info. | | |
| | Power source: | 1-phase 220-240V 50Hz | |
| | MCA(A): | 0.36 | |
| | Max.Fuse(A): | - | |
| | Connection: | TB2(L,N),ground | |
| | Power supply cable: | Metal conduit wire | |
| | size | 1.5mm2 or thicker(main) *3 | |
| | | 1.5mm2 or thicker(ground) *3 | |
| | | - | |
| | Transmission info. | | |
| | Connection: | TB5(M1,M2,S)TB15(1,2) *4 | |
| | Transmission cable: | Shielding wire (2-core) | |
| | | CVVS, CPEVS or MVVS | |
| | size | 1.25mm2 or thicker | |
| | | - | |


*2 TB7 is used for centralized controller.


*3 The wiring size differs depending on the total operating current of the indoor unit. 1.5mm2 or thicker(16A or less), 2.5mm2 or thicker(25A or less), 4.0mm2 or thicker(32A or less)


*4 TB5 is used for ME remote controller. TB15 is used for MA remote controller.


EC6

> Electrical Wiring Information

| Sys. | 2 | x | PEFY-P200VMH-E |
|--------|---|----------------------------|------------------------------|
| VRV-19 |  | Power supply info. | |
| | | Power source: | 3-phase 4-wire 380-415V 50Hz |
| | | MCA(A): | 2.03 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L1,L2,L3,N),ground |
| | | Power supply cable: | |
| | | size | Metal conduit wire |
| | | | 1.5mm2 or thicker(main) *3 |
| | | | 1.5mm2 or thicker(ground) *3 |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2,S)TB15(1,2) *4 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | | - |
| | | size | 1.25mm2 or thicker |
| | | | - |

| Sys. | 1 | x | PLFY-P80VBM-E |
|--------|---|----------------------------|------------------------------|
| VRV-19 |  | Power supply info. | |
| | | Power source: | 1-phase 220-240V 50Hz |
| | | MCA(A): | 0.64 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L,N),ground |
| | | Power supply cable: | |
| | | size | Metal conduit wire |
| | | | 1.5mm2 or thicker(main) *3 |
| | | | 1.5mm2 or thicker(ground) *3 |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2,S)TB15(1,2) *4 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | | - |
| | | size | 1.25mm2 or thicker |
| | | | - |

| Sys. | 1 | x | PUMY-P140YHMB |
|-------|---|----------------------------|----------------------------------|
| CU-43 |  | Power supply info. | |
| | | Power source: | 3-phase 4-wire 380-400-415V 50Hz |
| | | MCA(A): | 13 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB1(L1,L2,L3,N),ground |
| | | Power supply cable: | |
| | | size | Metal conduit wire |
| | | | 1.5mm2 or thicker(main) |
| | | | 1.5mm2 or thicker(ground) |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB3(M1,M2,S)TB7(M1,M2,S) *2 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | | - |
| | | size | 1.25mm2 or thicker |
| | | | - |

| Sys. | 1 | x | PEFY-P140VMH-E-F |
|-------|---|----------------------------|------------------------------|
| CU-43 |  | Power supply info. | |
| | | Power source: | 1-phase 220-240V 50Hz |
| | | MCA(A): | 1.58 |
| | | Max.Fuse(A): | - |
| | | Connection: | TB2(L,N),ground |
| | | Power supply cable: | |
| | | size | Metal conduit wire |
| | | | 1.5mm2 or thicker(main) *3 |
| | | | 1.5mm2 or thicker(ground) *3 |
| | | | - |
| | | Transmission info. | |
| | | Connection: | TB5(M1,M2,S)TB15(1,2) *4 |
| | | Transmission cable: | Shielding wire (2-core) |
| | | | CVVS, CPEVS or MVVS |
| | | | - |
| | | size | 1.25mm2 or thicker |
| | | | - |

*2 TB7 is used for centralized controller.

*3 The wiring size differs depending on the total operating current of the indoor unit. 1.5mm2 or thicker(16A or less), 2.5mm2 or thicker(25A or less), 4.0mm2 or thicker(32A or less)

*4 TB5 is used for ME remote controller. TB15 is used for MA remote controller.

Summary List

> Equipment list

1. Controller

| Model name | Quantity |
|-------------|----------|
| AG-150A | 1 |
| PAC-SC51KUA | 1 |
| PAC-YG50ECA | 2 |
| PAR-30MAA | 56 |

2. PI/AI/DIDO controller

| Model name | Quantity |
|-------------|----------|
| PAC-YG66DCA | 2 |
| PAC-YG63MCA | 1 |

3. Outdoor unit

| Model name | Quantity |
|------------------|----------|
| PURY-P350YJM-A | 2 |
| PURY-P650YSJM-A | 1 |
| (PURY-P350YJM-A) | - |
| (PURY-P300YJM-A) | - |
| PURY-P450YJM-A | 1 |
| PURY-P400YJM-A | 1 |
| PURY-P500YSJM-A | 1 |
| (PURY-P250YJM-A) | - |
| (PURY-P250YJM-A) | - |
| PUMY-P140YHMB | 1 |

4. BC controller

| Model name | Quantity |
|----------------|----------|
| CMB-P1013V-GA1 | 1 |
| CMB-P1010V-GA1 | 3 |
| CMB-P1016V-GA1 | 1 |
| CMB-P108V-GA1 | 1 |

5. Indoor unit

| Model name | Quantity |
|----------------|----------|
| PLFY-P25VCM-E | 5 |
| PLFY-P20VCM-E | 5 |
| PLFY-P32VBM-E | 1 |
| PLFY-P100VBM-E | 1 |

Summary List

> Equipment list

5. Indoor unit

| Model name | Quantity |
|------------------|----------|
| PEFY-P140VMH-E | 1 |
| PLFY-P80VBM-E | 4 |
| PEFY-P200VMH-E | 5 |
| PKFY-P25VBM-E | 12 |
| PKFY-P32VHM-E | 14 |
| PKFY-P50VHM-E | 6 |
| PLFY-P40VBM-E | 1 |
| PEFY-P140VMH-E-F | 1 |

6. Branch/Header/Twinning kit

| Model name | Quantity |
|-------------|----------|
| CMY-R160-J1 | 7 |
| CMY-R100VBK | 2 |

7. Lossnay

| Model name | Quantity |
|------------|----------|
| - | - |

8. HUB (Field supply)

| Model name | Quantity |
|----------------------|----------|
| 5-port switching HUB | 1 |

9. Air volume controller (Field supply)

| Model name | Quantity |
|------------|----------|
| - | - |

Summary List

> Field providing list

1. Piping Materials

| Pipe Size(mm) | Total length(m) | Number of bent |
|---------------|-----------------|----------------|
| 9.52 | 45 | 0 |
| 15.88 | 45 | 0 |
| 6.35 | 30 | 0 |
| 12.7 | 30 | 0 |
| 19.05 | 30 | 0 |
| 28.58 | 105 | 0 |
| 22.2 | 45 | 0 |

2. Refrigerant charge

| | | | | |
|---------------------------------|-------|---|-------|----|
| Additional refrigerant required | R410A | X | 85.2 | kg |
| Total refrigerant amount | R410A | X | 181.2 | kg |

3. Electrical cables

| Power supply cable size | Cable type | Usage |
|----------------------------------|--|---|
| 0.75-2mm ² | Sheathed vinyl cord or cable | Power supply unit power supply cable (main and ground wire) Expansion controller power supply cable (main and ground wire) |
| 0.75mm ² or thicker | Sheathed vinyl cord or cable | DIDO controller power supply cable (main and ground wire) AI controller power supply cable (main and ground wire) |
| 1.5mm ² or thicker | Metal conduit wire *1 *2 *3 | Outdoor unit power supply cable (main and ground) |
| 1.5mm ² or thicker *4 | Metal conduit wire *1 *2 *3 | Indoor unit power supply cable (main and ground wire) |
| 4.0mm ² or thicker | Metal conduit wire *1 *2 *3 | Outdoor unit power supply cable (main and ground) |
| 6.0mm ² or thicker | Metal conduit wire *1 *2 *3 | Outdoor unit power supply cable (main and ground) |
| 10.0mm ² or thicker | Metal conduit wire *1 *2 *3 | Outdoor unit power supply cable (main and ground) |
| Transmission cable size | Cable type | Usage |
| 0.3mm ² | Sheathed 2-core cable (unshielded) | MA remote controller transmission cable |
| 1.2-2mm ² | Shielding wire (2-core) CVVS or CPEVS | Centralized control transmission cable |
| 1.2-2mm ² | Sheathed vinyl cord or cable CVVS or CPEVS | Centralized control transmission cable |
| 1.25mm ² or thicker | Shielding wire (2-core) CVVS, CPEVS or MVVS | Indoor/outdoor transmissin cable |

*1 The wire size is the minimum value for metal conduit wiring. If the voltage drops, use a wire that is one rank thicker in diameter.
 Make sure the power-supply voltage does not drop more than 10%.

*2 Specific wiring requirements should adhere to the wiring regulations of the region.

Summary List

> Field providing list

*3 Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 245 IEC57). For example, use wiring such as YZW.

*4 The wiring size differs depending on the total operating current of the indoor unit.
1.5mm² or thicker(16A or less), 2.5mm² or thicker(25A or less), 4.0mm² or thicker(32A or less)

CVVS,MVVS : PVC insulated PVC jacketed shielded control cable
CPEVS : PE insulated PVC jacketed shielded communication cable
CVV : PVC insulated PVC sheathed control cable

MEMO

MEMO
