# PLFY-P-VLMD-E

# 1. SPECIFICATIONS

| Model | | | PLFY-P20VLMD-E | PLFY-P25VLMD-E | PLFY-P32VLMD-E | PLFY-P40VLMD-E |
|---|---|---|---|---|---|---|
| Power source | | | 1-phase 220-240V 50Hz, 1-phase 220-230V 60Hz | | | |
| Cooling capacity (Nominal) | ※1 | kW | 2.2 | 2.8 | 3.6 | 4.5 |
| | ※1 | kcal / h | 1,900 | 2,400 | 3,100 | 3,900 |
| | ※1 | Btu / h | 7,500 | 9,600 | 12,300 | 15,400 |
| | ※2 | kcal / h | 2,000 | 2,500 | 3,150 | 4,000 |
| ※4 | Power input | kW | 0.072 / 0.075 | 0.072 / 0.075 | 0.072 / 0.075 | 0.081 / 0.085 |
| ※4 | Current input | A | 0.36 / 0.37 | 0.36 / 0.37 | 0.36 / 0.37 | 0.40 / 0.42 |
| Heating capacity (Nominal ) | ※3 | kW | 2.5 | 3.2 | 4.0 | 5.0 |
| | ※3 | kcal / h | 2,200 | 2,800 | 3,400 | 4,300 |
| | ※3 | Btu / h | 8,500 | 10,900 | 13,600 | 17,100 |
| ※4 | Power input | kW | 0.065 / 0.069 | 0.065 / 0.069 | 0.065 / 0.069 | 0.074 / 0.079 |
| ※4 | Current input | A | 0.30 / 0.32 | 0.30 / 0.32 | 0.30 / 0.32 | 0.34 / 0.37 |
| External finish | | | Unit : Galvanized | | | |
| External dimension H x W x D | | mm | 290 x 776 x 634 | | 290 x 776 x 634 | |
| | | in. | 11-7/16 x 30-9/16 x 25 | | 11-7/16 x 30-9/16 x 25 | |
| Net weight | | kg (lb) | 23 (51) | 23 (51) | 24 (53) | 24 (53) |
| Decoration panel | Model | | **CMP-40VLW-C** | **CMP-40VLW-C** | **CMP-40VLW-C** | **CMP-40VLW-C** |
| | External finish | | ABS, MUNSELL (6.4Y 8.9/0.4), include Service Panel : Galvanized, MUNSELL (6.4Y 8.9/0.4) | | | |
| | Dimension H x W x D | mm | 20 x 1,080 x 710 | | | |
| | | in. | 13/16 x 30-9/16 x 28 | | | |
| | Net Weight | kg (lb) | 6.5 (15) | | | |
| Heat exchanger | | | Cross fin | | | |
| FAN | Type x Quantity | | Turbo fan x 1 | Turbo fan x 1 | Turbo fan x 1 | Turbo fan x 1 |
| | External static press. | Pa | 0 | 0 | 0 | 0 |
| | | $mmH_2O$ | 0 | 0 | 0 | 0 |
| | Motor type | | 1-phase induction motor | | | |
| | Motor output | kW | 0.015 (at 240V) | 0.015 (at 240V) | 0.015 (at 240V) | 0.015 (at 240V) |
| | Driving mechanism | | Direct-driven by motor | | | |
| | Airflow rate (Low-Mid-High) | $m^3$ / min | 6.5 - 8.0 - 9.5 | 6.5 - 8.0 - 9.5 | 6.5 - 8.0 - 9.5 | 7.0 - 8.5 - 10.5 |
| | | L / s | 108 - 133 - 158 | 108 - 133 - 158 | 108 - 133 - 158 | 117 - 142 - 175 |
| | | cfm | 230 - 283 - 335 | 230 - 283 - 335 | 230 - 283 - 335 | 247 - 300 - 371 |
| Sound pressure level (Low-Mid-High) | | dB <A> | 27 - 30 - 33 (220, 240V) | 27 - 30 - 33 (220,240V) | 27 - 30 - 33 (220,240V) | 29 - 33 - 36 (220,240V) |
| (measured in anechoic room) | ※4 | dB <A> | 28 - 31 - 34 (230V) | 28 - 31 - 34 (230V) | 28 - 31 - 34 (230V) | 30 - 34 - 37 (230V) |
| Insulation material | | | Polystyrene foam, Polyethylene foam, Urethane foam | | | |
| Air filter | | | PP honeycomb fabric (long life filter) | | | |
| Protection device | | | Fuse | | | |
| Refrigerant control device | | | LEV | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4) Flare<br>ø6.35 (ø1/4) Flare | ø6.35 (ø1/4) Flare<br>ø6.35 (ø1/4) Flare | ø6.35 (ø1/4) Flare<br>ø6.35 (ø1/4) Flare | ø6.35 (ø1/4) Flare<br>ø6.35 (ø1/4) Flare |
| | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2) Flare<br>ø12.7 (ø1/2) Flare | ø12.7 (ø1/2) Flare<br>ø12.7 (ø1/2) Flare | ø12.7 (ø1/2) Flare<br>ø12.7 (ø1/2) Flare | ø12.7 (ø1/2) Flare<br>ø12.7 (ø1/2) Flare |
| Field drain pipe size | | mm (in.) | O.D. 32mm (1-1/4) | | | |
| Drawing | External | | IU-W275-920 | | | |
| | Wiring | | IU-W653-952 | | | |
| | Refrigerant cycle | | - | | | |
| Standard attachment | Document | | Installation Manual, Instruction Book | | | |
| | Accessory | | Drain hose I.D. 32mm (1-1/4) (flexible joint) | | | |
| Remark | Optional parts | | | | | |
| | Decoration panel | | CMP-40VLW-C | CMP-40VLW-C | CMP-40VLW-C | CMP-40VLW-C |
| | OA duct flange | | PAC-KH11OF | PAC-KH11OF | PAC-KH11OF | PAC-KH11OF |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | |

**Note :**

※1 Nominal cooling conditions
Indoor : 27˚CDB/19˚CWB (81˚FDB/66˚FWB)
Outdoor : 35˚CDB (95˚FDB)
Pipe length : 7.5 m (24-9/16 ft)
Level difference : 0 m (0 ft)

※2 Nominal cooling conditions
27˚CDB/19.5˚CWB (81˚FDB/67˚FWB)
35˚CDB (95˚FDB)
5 m (16-3/8 ft)
0 m (0 ft)

※3 Nominal heating conditions
20˚CDB (68˚FDB)
7˚CDB/6˚CWB (45˚FDB/43˚FWB)
7.5 m (24-9/16 ft)
0 m (0 ft)

* Nominal conditions ※1, ※3 are subject to JIS B8615-1.
* Due to continuing improvement, above specification may be subject to change without notice.

※4 The values are measured at the rated external static pressure.

Unit converter
kcal/h = kW x 860
Btu/h = kW x 3,412
cfm = $m^3$/min x 35.31
lb = kg / 0.4536

*Above specification data is subject to rounding variation.

Ref.: Spec_PLFY-P20VLMD-E_1

PLFY

# 1. SPECIFICATIONS

| Model | | | PLFY-P50VLMD-E | PLFY-P63VLMD-E | PLFY-P80VLMD-E | PLFY-P100VLMD-E | PLFY-P125VLMD-E |
|---|---|---|---|---|---|---|---|
| Power source | | | 1-phase 220-240V 50Hz, 1-phase 220-230V 60Hz | | | | |
| Cooling capacity (Nominal) | ※1 | kW | 5.6 | 7.1 | 9.0 | 11.2 | 14.0 |
| | ※1 | kcal / h | 4,800 | 6,100 | 7,700 | 9,600 | 12,000 |
| | ※1 | Btu / h | 19,100 | 24,200 | 30,700 | 38,200 | 47,800 |
| | ※2 | kcal / h | 5,000 | 6,300 | 8,000 | 10,000 | 12,500 |
| ※4 | Power input | kW | 0.082 / 0.086 | 0.101 / 0.105 | 0.147 / 0.156 | 0.157 / 0.186 | 0.28 / 0.28 |
| ※4 | Current input | A | 0.41 / 0.43 | 0.49 / 0.51 | 0.72 / 0.74 | 0.75 / 0.88 | 1.35 / 1.35 |
| Heating capacity (Nominal ) | ※3 | kW | 6.3 | 8.0 | 10.0 | 12.5 | 16.0 |
| | ※3 | kcal / h | 5,400 | 6,900 | 8,600 | 10,800 | 13,800 |
| | ※3 | Btu / h | 21,500 | 27,300 | 34,100 | 42,700 | 54,600 |
| ※4 | Power input | kW | 0.075 / 0.080 | 0.094 / 0.099 | 0.140 / 0.150 | 0.150 / 0.180 | 0.27 / 0.27 |
| ※4 | Current input | A | 0.35 / 0.38 | 0.43 / 0.46 | 0.66 / 0.69 | 0.69 / 0.83 | 1.33 / 1.33 |
| External finish | | | Unit : Galvanized | | | | |
| External dimension H x W x D | | mm | 290 x 946 x 634 | | 290 x 1,446 x 634 | | 290 x 1,708 x 606 |
| | | in. | 11-7/16 x 37-1/4 x 25 | | 11-7/16 x 56-15/16 x 25 | | 11-7/16 x 67-1/4 x 23-7/8 |
| Net weight | | kg (lb) | 27 (60) | 28 (62) | 44 (98) | 47 (104) | 56 (124) |
| Decoration panel | Model | | **CMP-63VLW-C** | **CMP-63VLW-C** | **CMP-100VLW-C** | **CMP-100VLW-C** | **CMP-125VLW-C** |
| | External finish | | ABS, MUNSELL (6.4Y 8.9/0.4), include Service Panel : Galvanized, MUNSELL (6.4Y 8.9/0.4) | | | | |
| | Dimension H x W x D | mm | 20 x 1,250 x 710 | | 20 x 1,750 x 710 | | 20 x 2,010 x 710 |
| | | in. | 13/16 x49-1/4 x 28 | | 13/16 x 56-15/16 x 28 | | 13/16 x 67-1/4 x 28 |
| | Net Weight | kg (lb) | 7.5 (17) | | 12.5 (28) | | 13.0 (29) |
| Heat exchanger | | | Cross fin | | | | |
| FAN | Type x Quantity | | Turbo fan x 1 | Turbo fan x 1 | Turbo fan x 2 | Turbo fan x 2 | Sirocco fan x 4 |
| | External static press. | Pa | 0 | 0 | 0 | 0 | 0 |
| | | $mmH_2O$ | 0 | 0 | 0 | 0 | 0 |
| | Motor type | | 1-phase induction motor | | | | |
| | Motor output | kW | 0.020 (at 240V) | 0.020 (at 240V) | 0.020 (at 240V) | 0.030 (at 240V) | 0.078 x 2 (at 240V) |
| | Driving mechanism | | Direct-driven by motor | | | | |
| | Airflow rate (Low-Mid-High) | $m^3$ / min | 9.0 - 11.0 - 12.5 | 10.0 - 13.0 - 15.5 | 15.5 - 18.5 - 22.0 | 17.5 - 21.0 - 25.0 | 24.0 - 27.0 - 30.0 - 33.0 |
| | | L / s | 150 - 183 - 208 | 167 - 217 - 258 | 258 - 308 - 367 | 292 - 350 - 417 | 400 - 450 - 500 - 550 |
| | | cfm | 318 - 388 - 441 | 353 - 459 - 547 | 547 - 653 - 777 | 618 - 742 - 883 | 848 - 953 - 1,059 - 1,165 |
| Sound pressure level (Low-Mid-High) | | dB <A> | 31 - 34 - 37 (220, 240V) | 32 - 37 - 39 (220, 240V) | 33 - 36 - 39 (220, 240V) | 36 - 39 - 42 (220, 240V) | 40 - 42 - 44 - 46 (220, 240V) |
| (measured in anechoic room) | ※4 | dB <A> | 32 - 35 - 38 (230V) | 33 - 38 - 40 (230V) | 34 - 37 - 40 (230V) | 37 - 41 - 43 (230V) | 40 - 42 - 44 - 46 (230V) |
| Insulation material | | | Polystyrene foam, Polyethylene foam, Urethane foam | | | | |
| Air filter | | | PP honeycomb fabric (long life filter) | | | | Synthetic fiber unwoven cloth filter (long life) |
| Protection device | | | Fuse | | | | |
| Refrigerant control device | | | LEV | | | | |
| Connectable outdoor unit | | | R410A, R407C, R22 CITY MULTI | | | | |
| Diameter of refrigerant pipe | Liquid (R410A) (R22, R407C) | mm (in.) | ø6.35 (ø1/4) Flare<br>ø9.52 (ø3/8) Flare | ø9.52 (ø3/8) Flare<br>ø9.52 (ø3/8) Flare | ø9.52 (ø3/8) Flare<br>ø9.52 (ø3/8) Flare | ø9.52 (ø3/8) Flare<br>ø9.52 (ø3/8) Flare | ø9.52 (ø3/8) Flare<br>ø9.52 (ø3/8) Flare |
| | Gas (R410A) (R22, R407C) | mm (in.) | ø12.7 (ø1/2) Flare<br>ø15.88 (ø5/8) Flare | ø15.88 (ø5/8) Flare<br>ø15.88 (ø5/8) Flare | ø15.88 (ø5/8) Flare<br>ø15.88 (ø5/8) Flare | ø15.88 (ø5/8) Flare<br>ø19.05 (ø3/4) Flare | ø15.88 (ø5/8) Flare<br>ø19.05 (ø3/4) Flare |
| Field drain pipe size | | mm (in.) | O.D. 32mm (1-1/4) | | | | |
| Drawing | External | | IU-W275-920 | IU-W275-920 | IU-W275-920 | IU-W275-920 | IU-W275-921 |
| | Wiring | | IU-W653-952 | IU-W653-952 | IU-W653-952 | IU-W653-952 | IU-W275-927 |
| | Refrigerant cycle | | - | - | - | - | - |
| Standard attachment | Document<br>Accessory | | Installation Manual, Instruction Book<br>Drain hose I.D. 32mm (1-1/4) (flexible joint) | | | | |
| Remark | Optional parts | | | | | | |
| | Decoration panel | | CMP-63VLW-C | CMP-63VLW-C | CMP-100VLW-C | CMP-100VLW-C | CMP-125VLW-C |
| | OA duct flange | | PAC-KH11OF | PAC-KH11OF | PAC-KH11OF | PAC-KH11OF | PAC-KH11OF |
| | Installation | | Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. | | | | |

**Note :**

※1 Nominal cooling conditions
Indoor : 27˚CDB/19˚CWB (81˚FDB/66˚FWB)
Outdoor : 35˚CDB (95˚FDB)
Pipe length : 7.5 m (24-9/16 ft)
Level difference : 0 m (0 ft)

※2 Nominal cooling conditions
27˚CDB/19.5˚CWB (81˚FDB/67˚FWB)
35˚CDB (95˚FDB)
5 m (16-3/8 ft)
0 m (0 ft)

※3 Nominal heating conditions
20˚CDB (68˚FDB)
7˚CDB/6˚CWB (45˚FDB/43˚FWB)
7.5 m (24-9/16 ft)
0 m (0 ft)

* Nominal conditions ※1, ※3 are subject to JIS B8615-1.
* Due to continuing improvement, above specification may be subject to change without notice.

※4 The values are measured at the rated external static pressure.

Unit converter
kcal/h = kW x 860
Btu/h = kW x 3,412
cfm = $m^3$/min x 35.31
lb = kg / 0.4536

*Above specification data is subject to rounding variation.

Ref.: Spec_PLFY-P20VLMD-E_2

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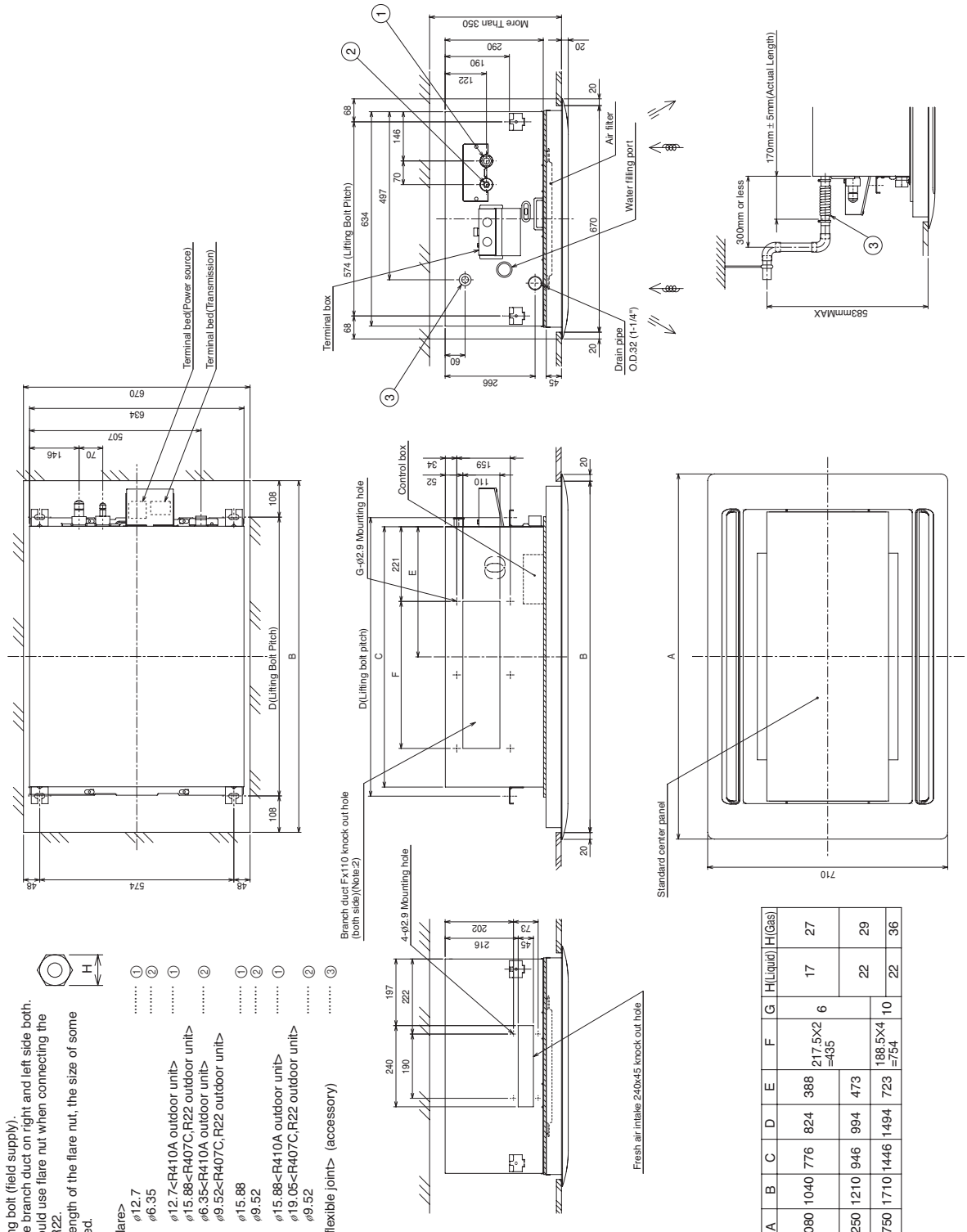
## PLFY-P20,25,32,40,50,63,80,100VLMD-E

Drw. : IU-W275-920
Unit : mm




Note: 1.Use M10 screw for the lifting bolt (field supply).
2.It is available to connect the branch duct on right and left side both.
3.On Model :50, 100, you would use flare nut when connecting the Outdoor Unit for R407C, R22.
4.In order to increase the strength of the flare nut, the size of some of them has been increased.

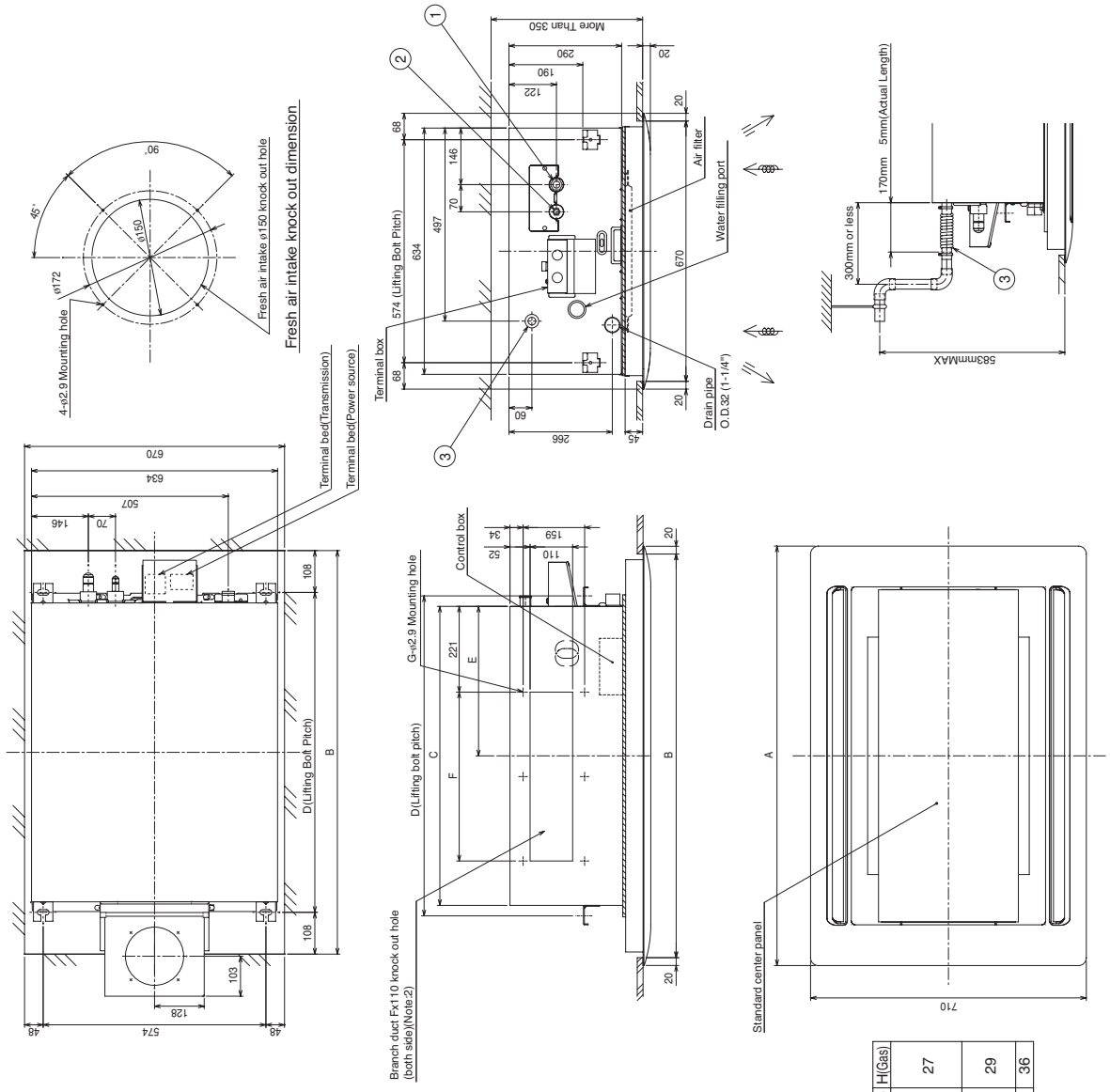
H

| | | | |
|---|---|---|---|
| | <flare> | | |
| Model 20·25·32·40 | Gas pipe | ø12.7 | ① |
| | Liquid pipe | ø6.35 | ② |
| Model 50 | Gas pipe | ø12.7<R410A outdoor unit> | ① |
| | | ø15.88<R407C,R22 outdoor unit> | |
| | Liquid pipe | ø6.35<R410A outdoor unit> | ② |
| | | ø9.52<R407C,R22 outdoor unit> | |
| Model 63·80 | Gas pipe | ø15.88 | ① |
| | Liquid pipe | ø9.52 | ② |
| Model 100 | Gas pipe | ø15.88<R410A outdoor unit> | ① |
| | | ø19.05<R407C,R22 outdoor unit> | |
| | Liquid pipe | ø9.52 | ② |
| Drain hose | I.D. 32 (1-1/4") <flexible joint> (accessory) | | ③ |

| Model | A | B | C | D | E | F | G | H(Liquid) | H(Gas) |
|---|---|---|---|---|---|---|---|---|---|
| PLFY-P20VLMD-E | CMP-40VLW-B | 1080 | 1040 | 776 | 824 | 388 | 217.5X2 =435 | 6 | 17 | 27 |
| PLFY-P25VLMD-E | | | | | | | | | | |
| PLFY-P32VLMD-E | | | | | | | | | | |
| PLFY-P40VLMD-E | | | | | | | | | | |
| PLFY-P50VLMD-E | CMP-63VLW-B | 1250 | 1210 | 946 | 994 | 473 | | | 22 | 29 |
| PLFY-P63VLMD-E | | | | | | | | | | |
| PLFY-P80VLMD-E | CMP-100VLW-B | 1750 | 1710 | 1446 | 1494 | 723 | 188.5X4 =754 | 10 | 22 | 36 |
| PLFY-P100VLMD-E | | | | | | | | | | |

## PLFY-P20,25,32,40,50,63,80,100VLMD-E with OA duct flange

Drw. : IU-W275-920-1
Unit : mm




| Model | | A | B | C | D | E | F | G | H(Liquid) | H(Gas) |
|---|---|---|---|---|---|---|---|---|---|---|
| PLFY-P20VLMD-E | CMP-40VLW-B | 1080 | 1040 | 776 | 824 | 388 | 217.5X2 =435 | 6 | 17 | 27 |
| PLFY-P25VLMD-E | | | | | | | | | | |
| PLFY-P32VLMD-E | | | | | | | | | | |
| PLFY-P40VLMD-E | | | | | | | | | | |
| PLFY-P50VLMD-E | CMP-63VLW-B | 1250 | 1210 | 946 | 994 | 473 | | | 22 | 29 |
| PLFY-P63VLMD-E | | | | | | | | | | |
| PLFY-P80VLMD-E | CMP-100VLW-B | 1750 | 1710 | 1446 | 1494 | 723 | 188.5X4 =754 | 10 | 22 | 36 |
| PLFY-P100VLMD-E | | | | | | | | | | |

Note: 1. Use M10 screw for the lifting bolt (field supply).
2. It is available to connect the branch duct on right and left side both.
3. On Model :50, 100, you would use flare nut when connecting the Outdoor Unit for R407C, R22.
4. In order to increase the strength of the flare nut, the size of some of them has been increased.

H

| | | | |
|---|---|---|---|
| Model | Gas pipe | ø12.7 | ..... ① ② |
| 20·25·32·40 | Liquid pipe | ø6.35 | ..... ① ② |
| Model | Gas pipe | ø12.7<R410A outdoor unit> | ..... ① |
| 50 | | ø15.88<R407C,R22 outdoor unit> | |
| | Liquid pipe | ø6.35<R410A outdoor unit> | ..... ② |
| | | ø9.52<R407C,R22 outdoor unit> | |
| Model | Gas pipe | ø15.88 | ..... ① ② |
| 63·80 | Liquid pipe | ø9.52 | ..... ① ② |
| Model | Gas pipe | ø15.88<R410A outdoor unit> | ..... ① |
| 100 | | ø19.05<R407C,R22 outdoor unit> | |
| | Liquid pipe | ø9.52 | ..... ② |
| Drain hose | I.D. 32 (1-1/4") <flexible joint> (accessory) | | ..... ③ |

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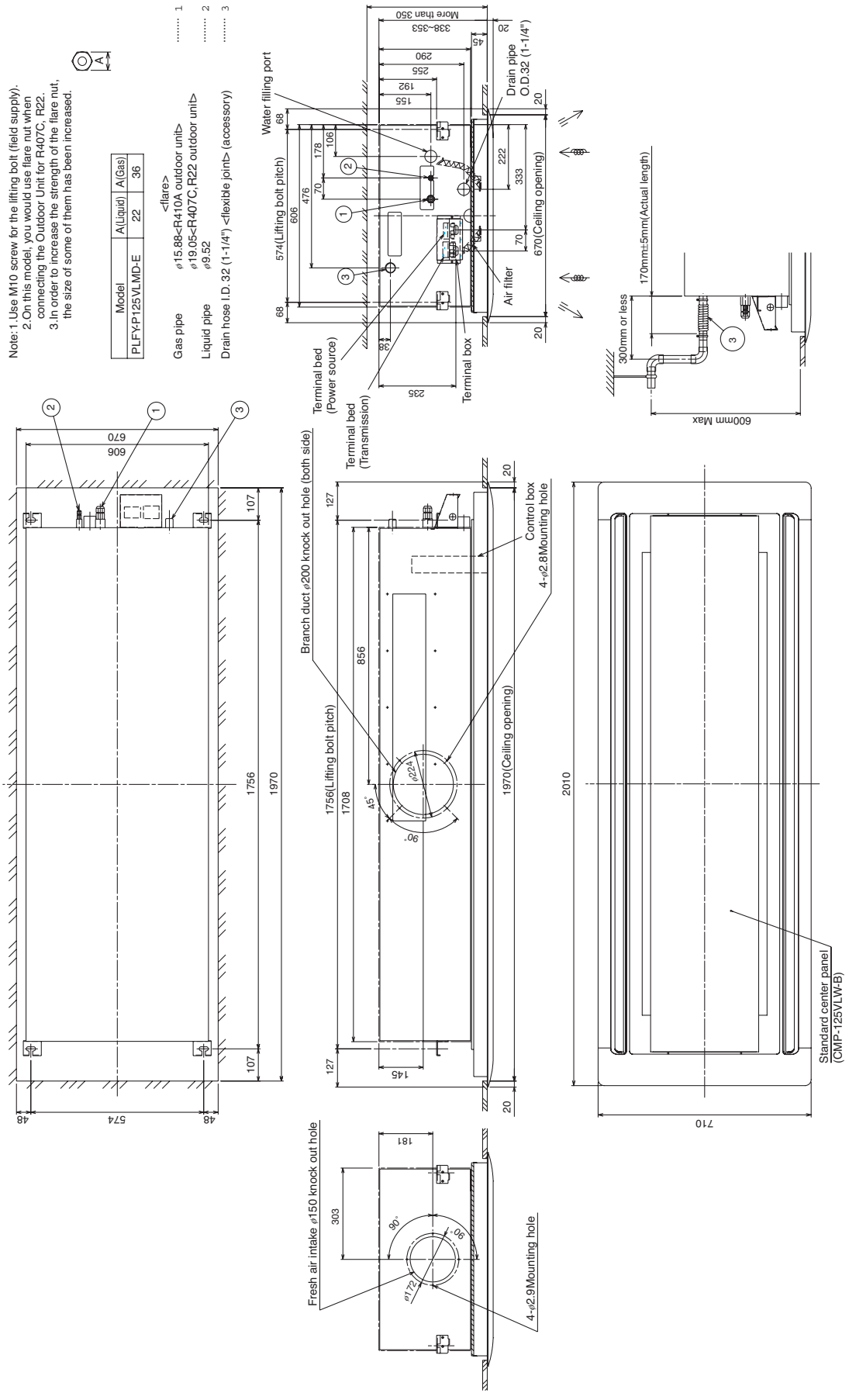
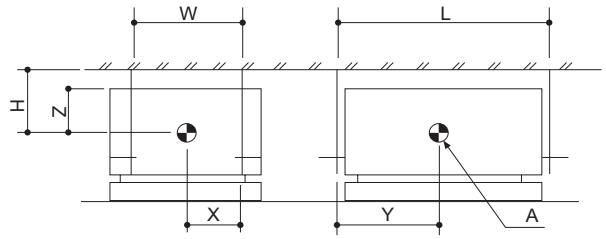
PLFY-P125VLMD-E

Drw. : IU-W275-921
Unit : mm



## PLFY-P20,25,32,40,50,63,80,100,125VLMD-E



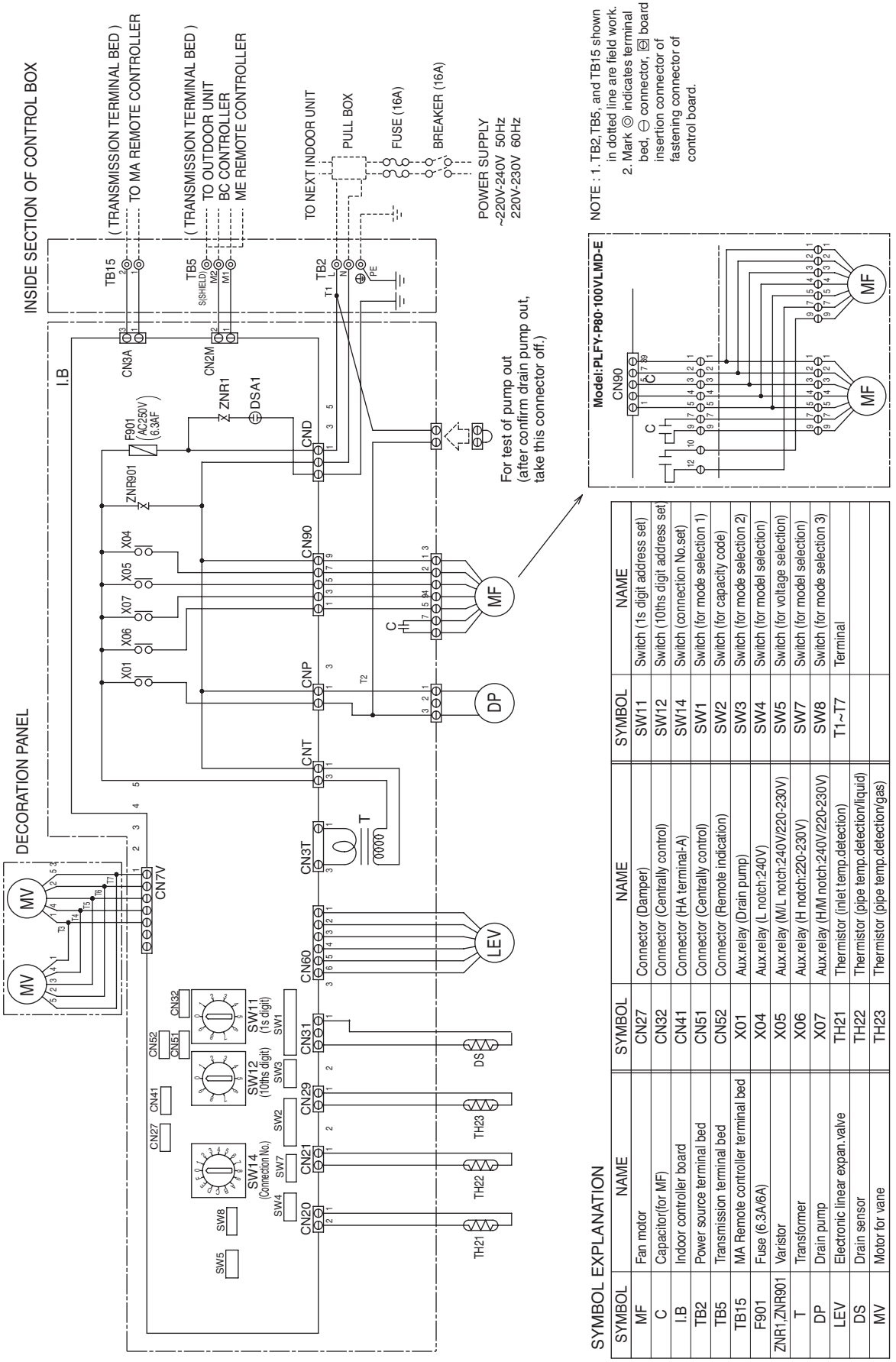

A: Center of gravity

(mm)[in]

| Model name | W | L | H | X | Y | Z |
|---|---|---|---|---|---|---|
| PLFY-P20VLMD-E | 574 [22-5/8] | 824 [32-15/32] | 172 [6-25/32] | 287 [11-5/16] | 370 [14-19/32] | 160 [6-5/16] |
| PLFY-P25VLMD-E | 574 [22-5/8] | 824 [32-15/32] | 172 [6-25/32] | 287 [11-5/16] | 370 [14-19/32] | 160 [6-5/16] |
| PLFY-P32VLMD-E | 574 [22-5/8] | 824 [32-15/32] | 172 [6-25/32] | 287 [11-5/16] | 370 [14-19/32] | 160 [6-5/16] |
| PLFY-P40VLMD-E | 574 [22-5/8] | 824 [32-15/32] | 172 [6-25/32] | 287 [11-5/16] | 370 [14-19/32] | 160 [6-5/16] |
| PLFY-P50VLMD-E | 574 [22-5/8] | 994 [32-5/32] | 172 [6-25/32] | 287 [11-5/16] | 445 [17-17/32] | 160 [6-5/16] |
| PLFY-P63VLMD-E | 574 [22-5/8] | 994 [32-5/32] | 172 [6-25/32] | 287 [11-5/16] | 445 [17-17/32] | 160 [6-5/16] |
| PLFY-P80VLMD-E | 574 [22-5/8] | 1494 [58-27/32] | 172 [6-25/32] | 287 [11-5/16] | 655 [25-13/16] | 160 [6-5/16] |
| PLFY-P100VLMD-E | 574 [22-5/8] | 1494 [58-27/32] | 172 [6-25/32] | 287 [11-5/16] | 655 [25-13/16] | 160 [6-5/16] |
| PLFY-P125VLMD-E | 574 [22-5/8] | 1756 [69-5/32] | 203 [8] | 287 [11-5/16] | 758 [29-27/32] | 181 [7-5/32] |

PLFY-P20,25,32,40,50,63,80,100VLMD-E

Drw. : IU-W653-952




SYMBOL EXPLANATION

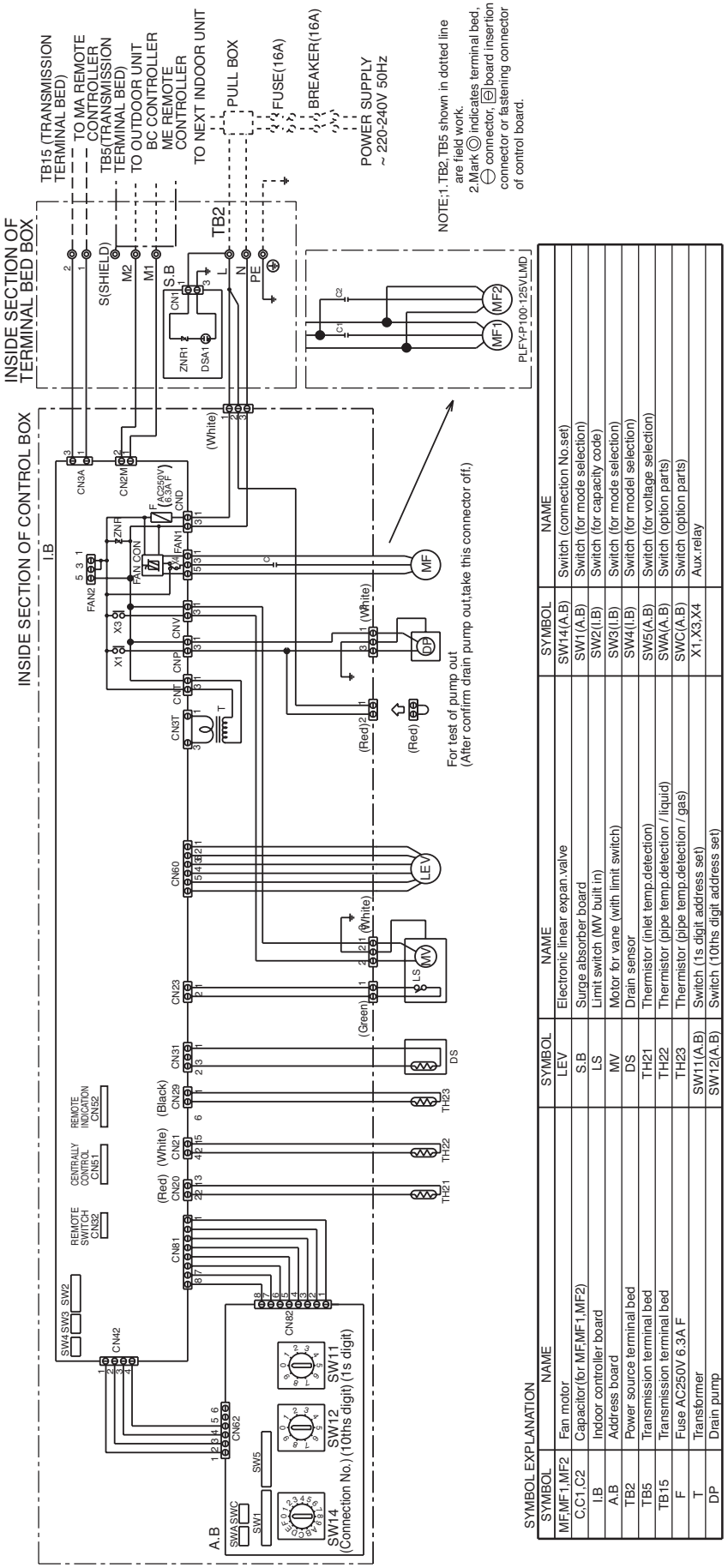
| SYMBOL | NAME |
|---|---|
| MF | Fan motor |
| C | Capacitor(for MF) |
| I.B | Indoor controller board |
| TB2 | Power source terminal bed |
| TB5 | Transmission terminal bed |
| TB15 | MA Remote controller terminal bed |
| F901 | Fuse (6.3A/6A) |
| ZNR1,ZNR901 | Varistor |
| T | Transformer |
| DP | Drain pump |
| LEV | Electronic linear expan.valve |
| DS | Drain sensor |
| MV | Motor for vane |

| SYMBOL | NAME |
|---|---|
| CN27 | Connector (Damper) |
| CN32 | Connector (Centrally control) |
| CN41 | Connector (HA terminal-A) |
| CN51 | Connector (Centrally control) |
| CN52 | Connector (Remote indication) |
| X01 | Aux.relay (Drain pump) |
| X04 | Aux.relay (L notch:240V) |
| X05 | Aux.relay (M/L notch:240V/220-230V) |
| X06 | Aux.relay (H notch:220-230V) |
| X07 | Aux.relay (H/M notch:240V/220-230V) |
| TH21 | Thermistor (inlet temp.detection) |
| TH22 | Thermistor (pipe temp.detection/liquid) |
| TH23 | Thermistor (pipe temp.detection/gas) |

| SYMBOL | NAME |
|---|---|
| SW11 | Switch (1s digit address set) |
| SW12 | Switch (10ths digit address set) |
| SW14 | Switch (connection No.set) |
| SW1 | Switch (for mode selection 1) |
| SW2 | Switch (for capacity code) |
| SW3 | Switch (for mode selection 2) |
| SW4 | Switch (for model selection) |
| SW5 | Switch (for voltage selection) |
| SW7 | Switch (for model selection) |
| SW8 | Switch (for mode selection 3) |
| T1~T7 | Terminal |

PLFY-125VLMD-E

Drw. : IU-W275-927




SYMBOL EXPLANATION

| SYMBOL | NAME |
|---|---|
| MF,MF1,MF2 | Fan motor |
| C,C1,C2 | Capacitor(for MF,MF1,MF2) |
| I.B | Indoor controller board |
| A.B | Address board |
| TB2 | Power source terminal bed |
| TB5 | Transmission terminal bed |
| TB15 | Transmission terminal bed |
| F | Fuse AC250V 6.3A F |
| T | Transformer |
| DP | Drain pump |

| SYMBOL | NAME |
|---|---|
| LEV | Electronic linear expan.valve |
| S.B | Surge absorber board |
| LS | Limit switch (MV built in) |
| MV | Motor for vane (with limit switch) |
| DS | Drain sensor |
| TH21 | Thermistor (inlet temp.detection) |
| TH22 | Thermistor (pipe temp.detection / liquid) |
| TH23 | Thermistor (pipe temp.detection / gas) |
| SW11(A.B) | Switch (1s digit address set) |
| SW12(A.B) | Switch (10ths digit address set) |

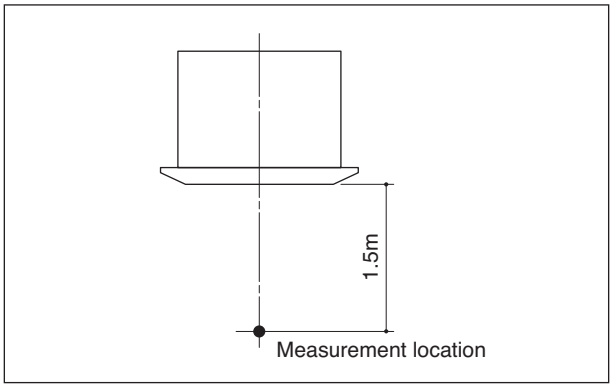
| SYMBOL | NAME |
|---|---|
| SW14(A.B) | Switch (connection No.set) |
| SW1(A.B) | Switch (for mode selection) |
| SW2(I.B) | Switch (for capacity code) |
| SW3(I.B) | Switch (for mode selection) |
| SW4(I.B) | Switch (for model selection) |
| SW5(A.B) | Switch (for voltage selection) |
| SWA(A.B) | Switch (option parts) |
| SWC(A.B) | Switch (option parts) |
| X1,X3,X4 | Aux.relay |

PLFY

# 5. SOUND LEVELS

## 5-1. Sound levels

**PLFY-P-VLMD-E**



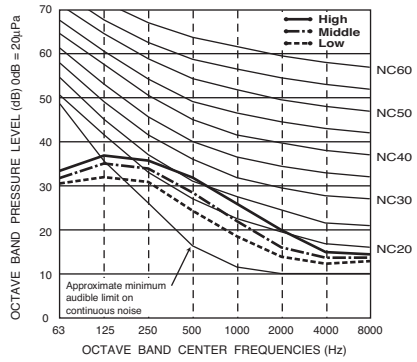

Sound level at anechoic room : Low-Mid-High

| | Sound level dB (A) | |
|---|---|---|
| | 220,240V | 230V |
| PLFY-P20VLMD-E<br>PLFY-P25VLMD-E<br>PLFY-P32VLMD-E | 27-30-33 | 28-31-34 |
| PLFY-P40VLMD-E | 29-33-36 | 30-34-37 |
| PLFY-P50VLMD-E | 31-34-37 | 32-35-38 |
| PLFY-P63VLMD-E | 32-37-39 | 33-38-40 |
| PLFY-P80VLMD-E | 33-36-39 | 34-37-40 |
| PLFY-P100VLMD-E | 36-39-42 | 37-41-43 |
| PLFY-P125VLMD-E | 40-42-44-46 | |

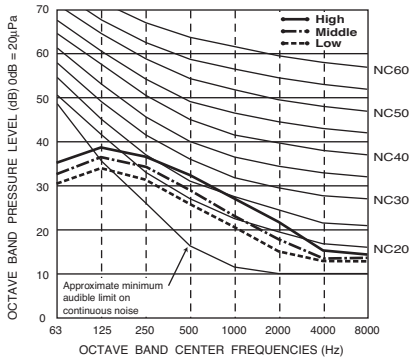


## 5-2. NC curves

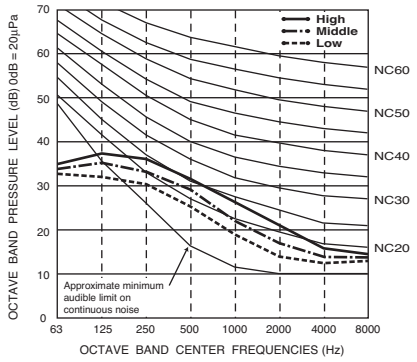
**PLFY-P20,25VLMD-E**
External static pressure : 0Pa
Power source : 220,240V, 50/60Hz



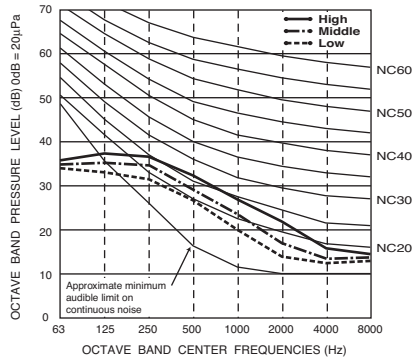

**PLFY-P20,25VLMD-E**
External static pressure : 0Pa
Power source : 230V, 50/60Hz



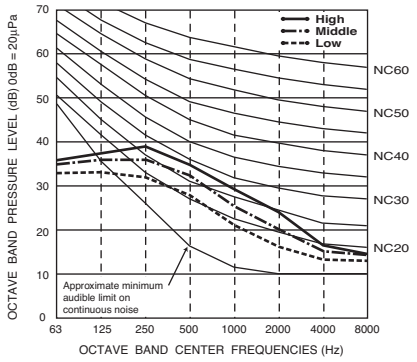

**PLFY-P32VLMD-E**
External static pressure : 0Pa
Power source : 220,240V, 50/60Hz



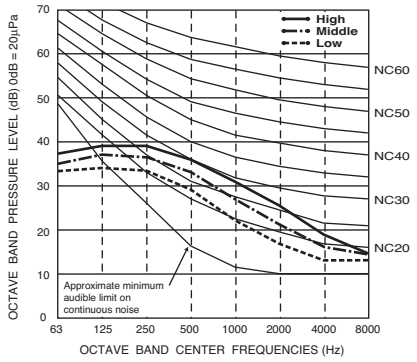

**PLFY-P32VLMD-E**
External static pressure : 0Pa
Power source : 230V, 50/60Hz




**PLFY-P40VLMD-E**
External static pressure : 0Pa
Power source : 220,240V, 50/60Hz



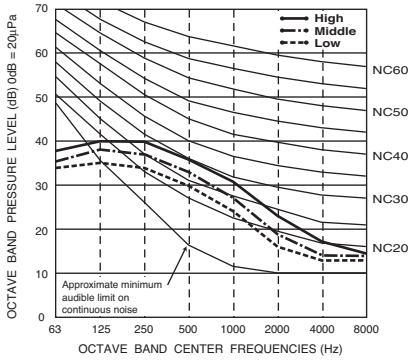

**PLFY-P40VLMD-E**
External static pressure : 0Pa
Power source : 230V, 50/60Hz



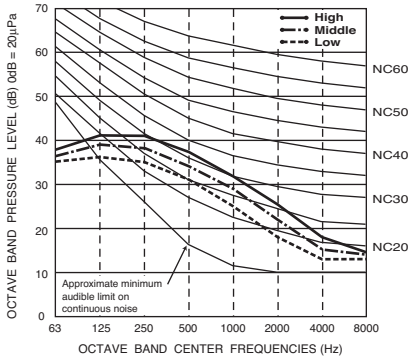
# 5. SOUND LEVELS

## 5-2. NC curves

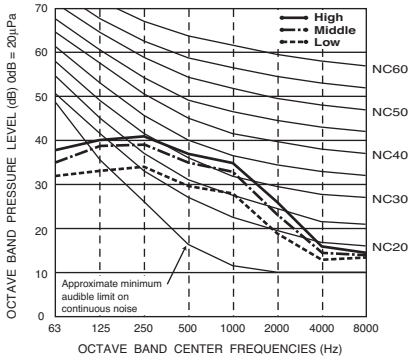
**PLFY-P50VLMD-E**
External static pressure : 0Pa
Power source : 220,240V, 50/60Hz



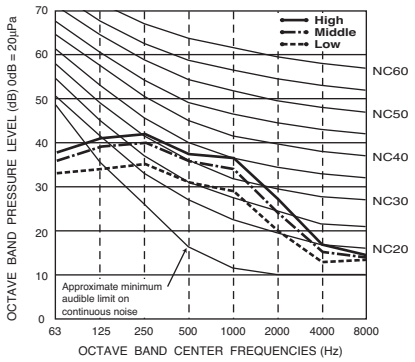

**PLFY-P50VLMD-E**
External static pressure : 0Pa
Power source : 230V, 50/60Hz



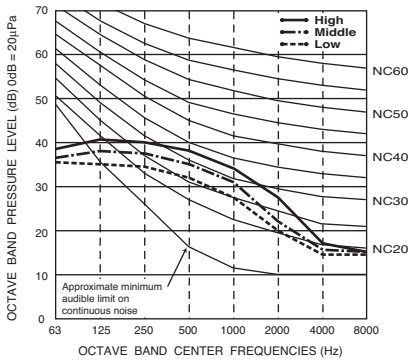

**PLFY-P63VLMD-E**
External static pressure : 0Pa
Power source : 220,240V, 50/60Hz



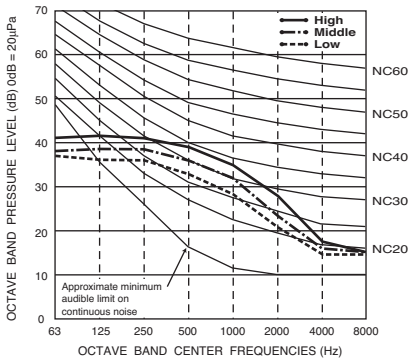

**PLFY-P63VLMD-E**
External static pressure : 0Pa
Power source : 230V, 50/60Hz



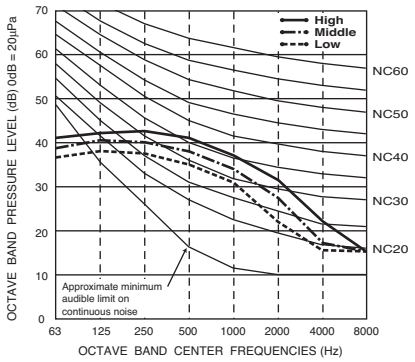

**PLFY-P80VLMD-E**
External static pressure : 0Pa
Power source : 220,240V, 50/60Hz



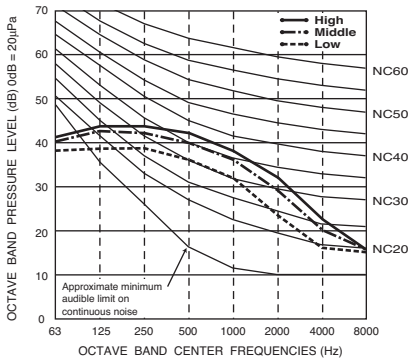

**PLFY-P80VLMD-E**
External static pressure : 0Pa
Power source : 230V, 50/60Hz



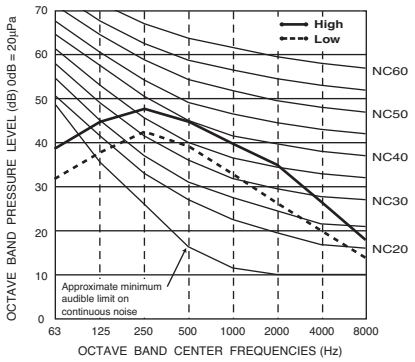

**PLFY-P100VLMD-E**
External static pressure : 0Pa
Power source : 220,240V, 50/60Hz



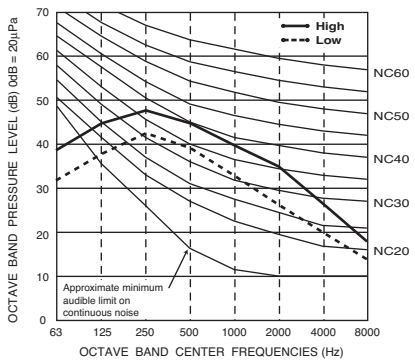

**PLFY-P100VLMD-E**
External static pressure : 0Pa
Power source : 230V, 50/60Hz



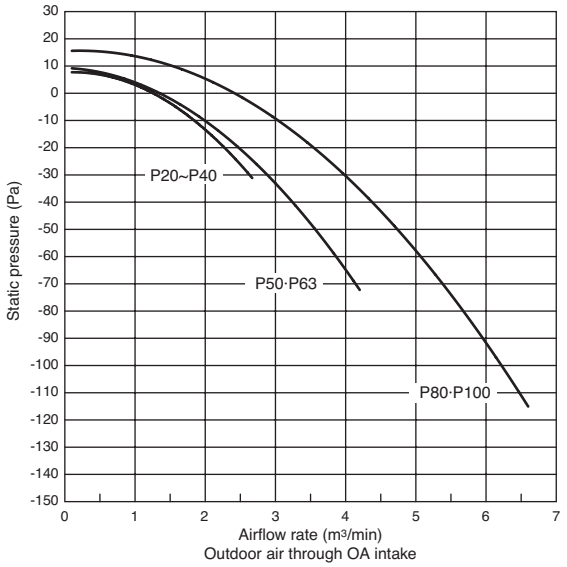

**PLFY-P125VLMD-E**
External static pressure : 0Pa
Power source : 220,240V, 50/60Hz

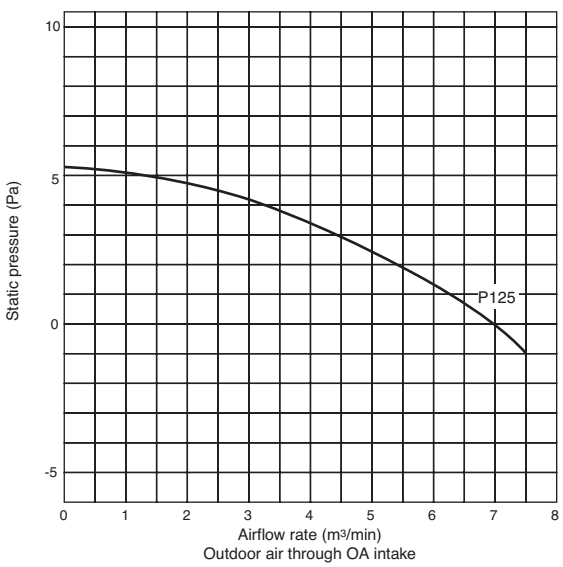



**PLFY-P125VLMD-E**
External static pressure : 0Pa
Power source : 230V, 50/60Hz



## 5-3. OA Intake-static pressure curves




Please confirm that inlet-air temperature ( which is mixed with outdoor air ) is in the following operating temperature range.

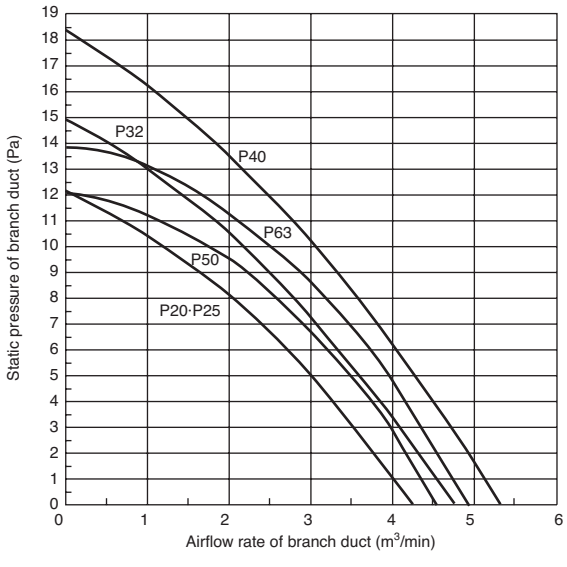
PLFY-P-VLMD-E : Operating temperature range

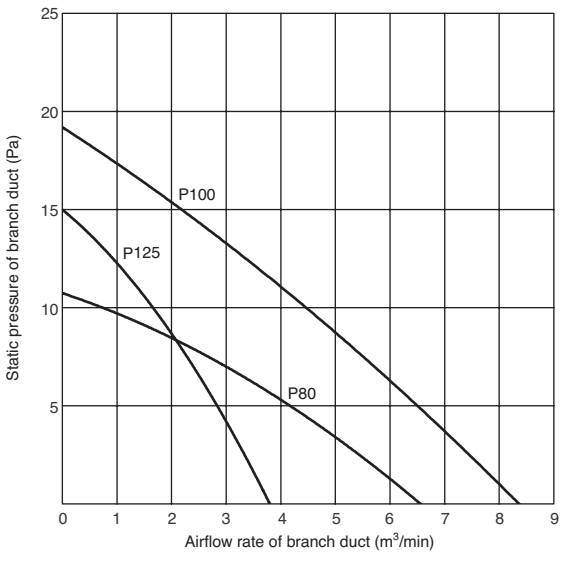
| Mode | Temperature range of inlet air |
|---|---|
| Cooling | 15˚C~24˚C(Wet bulb) |
| Dry | |
| Heating | 15˚C~27˚C(Dry bulb) |

*Relative humidity range is 30~80%.

PLFY

## 5-4. Branch duct Discharge-static pressure curves

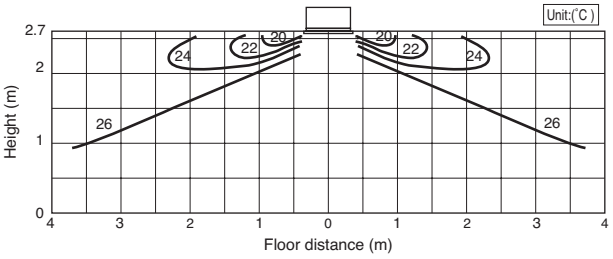


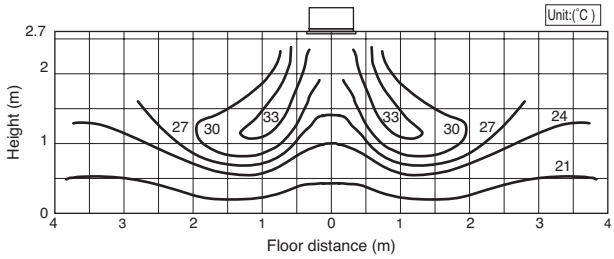
# 6. TEMPERATURE/AIRFLOW DISTRIBUTIONS

## 6-1. Temperature distributions

**<Cooling mode>**
Airflow angle : Horizontal
Room temp.: 27˚C
Airflow rate : High




**<Heating mode>**
Airflow angle : Downward
Room temp.: 20˚C
Airflow rate : High

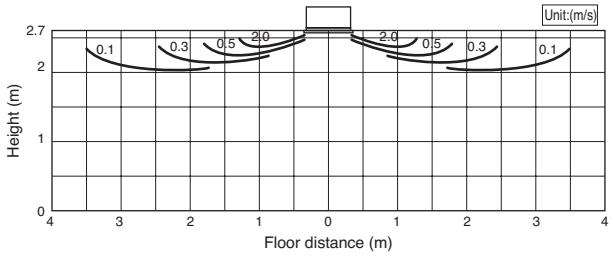



Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

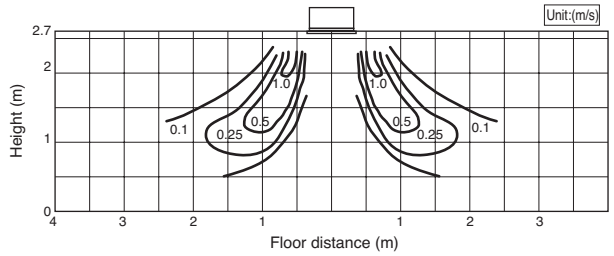
PLFY

## 6-2. Airflow distributions

**<Cooling mode>**
Airflow angle : Horizontal
Room temp.: 27˚C
Airflow rate : High




**<Heating mode>**
Airflow angle : Downward
Room temp.: 20˚C
Airflow rate : High

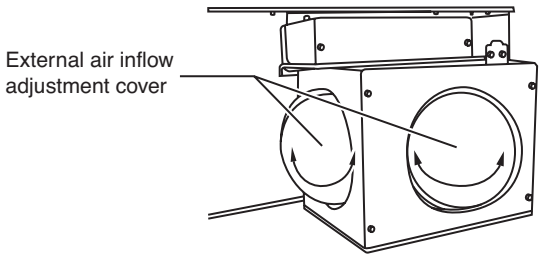



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load,obstacles,etc.

## ■ Optional parts line up for the Indoor unit

| | OA duct flange |
|---|---|
| PLFY-P-VLMD-E | PAC-KH11OF |

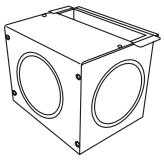
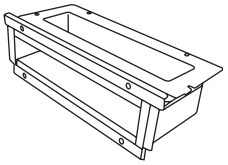
### ● PLFY-P-VLMD-E




## ■ OA duct flange PAC-KH11OF for PLFY-P-VLMD-E

OA duct flange PAC-KH11OF makes outside fresh air ducting to the Indoor unit easier.

Material: Galvanized steel plate, with insulation sheet adhered.

| Item | ① External air intake ducting | ② Ducting flange | ③ PTT screws (4×10) |
|---|---|---|---|
| Quantity | 1 | 1 | 10 (two spares) |
| Shape |  |  |  |

Detailed installation information should be referred to its Installation Manual (WT03833X06)