

**PLFY-P-NCMU-E, PLFY-P-NBMU-E**

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# 1. SPECIFICATIONS

DATA U10

| Model                                  |                                                                    |          | PLFY-P08NCMU-E                                                                                                                                                                                                                                                                                                            | PLFY-P12NCMU-E              | PLFY-P15NCMU-E              |  |
|----------------------------------------|--------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|--|
| Power source                           |                                                                    |          | 1-phase 208-230 V 60Hz                                                                                                                                                                                                                                                                                                    |                             |                             |  |
| Cooling capacity<br>(Nominal)          | *1                                                                 | BTU / h  | 8,000                                                                                                                                                                                                                                                                                                                     | 12,000                      | 15,000                      |  |
|                                        | *1                                                                 | kW       | 2.3                                                                                                                                                                                                                                                                                                                       | 3.5                         | 4.4                         |  |
|                                        | Power input                                                        | kW       | 0.05                                                                                                                                                                                                                                                                                                                      | 0.06                        | 0.06                        |  |
|                                        | Current input                                                      | A        | 0.23                                                                                                                                                                                                                                                                                                                      | 0.28                        | 0.28                        |  |
| Heating capacity<br>(Nominal)          | *2                                                                 | BTU / h  | 9,000                                                                                                                                                                                                                                                                                                                     | 13,500                      | 17,000                      |  |
|                                        | *2                                                                 | kW       | 2.6                                                                                                                                                                                                                                                                                                                       | 4.0                         | 5.0                         |  |
|                                        | Power input                                                        | kW       | 0.05                                                                                                                                                                                                                                                                                                                      | 0.06                        | 0.06                        |  |
|                                        | Current input                                                      | A        | 0.23                                                                                                                                                                                                                                                                                                                      | 0.28                        | 0.28                        |  |
| External finish                        |                                                                    |          | -                                                                                                                                                                                                                                                                                                                         |                             |                             |  |
| External dimension H x W x D           |                                                                    | in.      | 8-3/16 x 22-7/16 x 22-7/16                                                                                                                                                                                                                                                                                                | 8-3/16 x 22-7/16 x 22-7/16  | 8-3/16 x 22-7/16 x 22-7/16  |  |
|                                        |                                                                    | mm       | 208 x 570 x 570                                                                                                                                                                                                                                                                                                           | 208 x 570 x 570             | 208 x 570 x 570             |  |
| Net weight                             |                                                                    | lbs (kg) | 34 (15.5)                                                                                                                                                                                                                                                                                                                 | 37 (17)                     | 37 (17)                     |  |
| Decoration<br>panel                    | Model                                                              |          | SLP-15AAUW                                                                                                                                                                                                                                                                                                                | SLP-15AAUW                  | SLP-15AAUW                  |  |
|                                        | External finish                                                    |          | 6.4Y 8.9/0.4                                                                                                                                                                                                                                                                                                              |                             |                             |  |
|                                        | Dimension                                                          | in.      | 25/32 x 25-19/32 x 25-19/32                                                                                                                                                                                                                                                                                               | 25/32 x 25-19/32 x 25-19/32 | 25/32 x 25-19/32 x 25-19/32 |  |
|                                        | H x W x D                                                          | mm       | 20 x 650 x 650                                                                                                                                                                                                                                                                                                            | 20 x 650 x 650              | 20 x 650 x 650              |  |
|                                        | Net Weight                                                         | lbs (kg) | 7(3)                                                                                                                                                                                                                                                                                                                      | 7(3)                        | 7(3)                        |  |
| Heat exchanger                         |                                                                    |          | Cross fin                                                                                                                                                                                                                                                                                                                 |                             |                             |  |
| FAN                                    | Type x Quantity                                                    |          | Turbo fan x 1                                                                                                                                                                                                                                                                                                             | Turbo fan x 1               | Turbo fan x 1               |  |
|                                        | External<br>static press                                           | in.WG    | 0.000 (208V)                                                                                                                                                                                                                                                                                                              | 0.000 (208V)                | 0.000 (208V)                |  |
|                                        |                                                                    | Pa       | 0                                                                                                                                                                                                                                                                                                                         | 0                           | 0                           |  |
|                                        |                                                                    | in.WG    | 0.000 (230V)                                                                                                                                                                                                                                                                                                              | 0.000 (230V)                | 0.000 (230V)                |  |
|                                        |                                                                    | Pa       | 0                                                                                                                                                                                                                                                                                                                         | 0                           | 0                           |  |
|                                        | Motor type                                                         |          | 1-phase induction motor                                                                                                                                                                                                                                                                                                   |                             |                             |  |
|                                        | Motor output                                                       | kW       | 0.015                                                                                                                                                                                                                                                                                                                     | 0.020                       | 0.020                       |  |
|                                        | Driving mechanism                                                  |          | Direct-driven                                                                                                                                                                                                                                                                                                             |                             |                             |  |
|                                        | Airflow rate<br>(Low-Mid-High)                                     | cfm      | 280-320-350                                                                                                                                                                                                                                                                                                               | 320-350-390                 | 320-350-390                 |  |
|                                        |                                                                    | m3 / min | 8.0-9.0-10.0                                                                                                                                                                                                                                                                                                              | 9.0-10.0-11.0               | 9.0-10.0-11.0               |  |
|                                        |                                                                    | L / s    | 133-150-167                                                                                                                                                                                                                                                                                                               | 150-167-183                 | 150-167-183                 |  |
|                                        | Sound pressure level (Low-Mid-High)<br>(measured in anechoic room) | dB <A>   | 29-32-38 (208-230V)                                                                                                                                                                                                                                                                                                       | 30-34-39 (208-230V)         | 31-35-40(208-230V)          |  |
| dB <A>                                 |                                                                    | -        | -                                                                                                                                                                                                                                                                                                                         | -                           |                             |  |
| dB <A>                                 |                                                                    | -        | -                                                                                                                                                                                                                                                                                                                         | -                           |                             |  |
| Insulation material                    |                                                                    |          | Polyethylene foam                                                                                                                                                                                                                                                                                                         |                             |                             |  |
| Air filter                             |                                                                    |          | PP honey comb fabric                                                                                                                                                                                                                                                                                                      |                             |                             |  |
| Protection device                      |                                                                    |          | Fuse                                                                                                                                                                                                                                                                                                                      |                             |                             |  |
| Refrigerant control device             |                                                                    |          | LEV                                                                                                                                                                                                                                                                                                                       |                             |                             |  |
| Connectable outdoor unit               |                                                                    |          | R410A CITY MULTI                                                                                                                                                                                                                                                                                                          |                             |                             |  |
| Diameter of refrigerant pipe<br>(O.D.) | Liquid (R410A)                                                     | in. (mm) | 1/4 (6.35) Flare                                                                                                                                                                                                                                                                                                          | 1/4 (6.35) Flare            | 1/4 (6.35) Flare            |  |
|                                        | Gas (R410A)                                                        | in. (mm) | 1/2 (12.7) Flare                                                                                                                                                                                                                                                                                                          | 1/2 (12.7) Flare            | 1/2 (12.7) Flare            |  |
| Field drain pipe size                  |                                                                    | in. (mm) | O.D. 1-1/4(32)                                                                                                                                                                                                                                                                                                            | O.D. 1-1/4(32)              | O.D. 1-1/4(32)              |  |
| Drawing                                | External                                                           |          | RG01N654                                                                                                                                                                                                                                                                                                                  |                             |                             |  |
|                                        | Wiring                                                             |          | RG79V389                                                                                                                                                                                                                                                                                                                  |                             |                             |  |
|                                        | Refrigerant cycle                                                  |          | -                                                                                                                                                                                                                                                                                                                         |                             |                             |  |
| Standard attachment                    | Document                                                           |          | Installation Manual, Installation Book                                                                                                                                                                                                                                                                                    |                             |                             |  |
|                                        | Accessory                                                          |          | Drain hose<1-1/4in.(32mm)>                                                                                                                                                                                                                                                                                                |                             |                             |  |
| Optional parts                         | External heater adapter                                            |          | PAC-YU25HT                                                                                                                                                                                                                                                                                                                | PAC-YU25HT                  | PAC-YU25HT                  |  |
|                                        | Decoration panel                                                   |          | SLP-15AAUW                                                                                                                                                                                                                                                                                                                | SLP-15AAUW                  | SLP-15AAUW                  |  |
| Remarks                                |                                                                    |          | * PLFY-P-NCMU-E should used together with SLP-15AAUW.<br>* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>* Due to continuing improvement, above specification may be subject to change without notice. |                             |                             |  |

|         |                                    |  |                               |  |                                                                |  |
|---------|------------------------------------|--|-------------------------------|--|----------------------------------------------------------------|--|
| Notes : | *1 Nominal cooling conditions      |  | *2 Nominal heating conditions |  | Unit convertor                                                 |  |
|         | Indoor : 80degF D.B. / 67degF W.B. |  | 70degF D.B.                   |  | kcal/h = kW x 860                                              |  |
|         | (26.7degC D.B. / 19.4degC W.B.)    |  | (21.1degC D.B.)               |  | BTU/h = kW x 3,412                                             |  |
|         | Outdoor : 95degF D.B.              |  | 47degF D.B. / 43degF W.B.     |  | cfm = m3/min x 35.31                                           |  |
|         | (35degC D.B.)                      |  | (8.3degC D.B. / 6.1degC W.B.) |  | lbs = kg / 0.4536                                              |  |
|         | Pipe length : 25 ft. (7.6 m)       |  | 25 ft. (7.6 m)                |  | *Above specification data is<br>subject to rounding variation. |  |
|         | Level difference : 0 ft. (0 m)     |  | 0 ft. (0 m)                   |  |                                                                |  |

Ref.:PLFY-NCMU-E\_SPC\_USDB\_P08-15

# 1. SPECIFICATIONS

DATA U10

| Model                                                                    |                                      |          | PLFY-P12NBMU-E                                                                                                                                                                                                                                                   | PLFY-P15NBMU-E              | PLFY-P18NBMU-E              |        |
|--------------------------------------------------------------------------|--------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|--------|
| Power source                                                             |                                      |          | 1-phase 208-230 V 60Hz                                                                                                                                                                                                                                           |                             |                             |        |
| Cooling capacity<br>(Nominal)                                            | *1                                   | BTU / h  | 12,000                                                                                                                                                                                                                                                           | 15,000                      | 18,000                      |        |
|                                                                          | *1                                   | kW       | 3.5                                                                                                                                                                                                                                                              | 4.4                         | 5.3                         |        |
|                                                                          | Power input                          | kW       | 0.03                                                                                                                                                                                                                                                             | 0.04                        | 0.05                        |        |
|                                                                          | Current input                        | A        | 0.22                                                                                                                                                                                                                                                             | 0.29                        | 0.36                        |        |
| Heating capacity<br>(Nominal)                                            | *2                                   | BTU / h  | 13,500                                                                                                                                                                                                                                                           | 17,000                      | 20,000                      |        |
|                                                                          | *2                                   | kW       | 4.0                                                                                                                                                                                                                                                              | 5.0                         | 5.9                         |        |
|                                                                          | Power input                          | kW       | 0.02                                                                                                                                                                                                                                                             | 0.03                        | 0.04                        |        |
|                                                                          | Current input                        | A        | 0.14                                                                                                                                                                                                                                                             | 0.22                        | 0.29                        |        |
| External finish                                                          |                                      |          | Galvanized steel sheet                                                                                                                                                                                                                                           |                             |                             |        |
| External dimension H x W x D                                             |                                      | in.      | 10-3/16 x 33-3/32 x 33-3/32                                                                                                                                                                                                                                      | 10-3/16 x 33-3/32 x 33-3/32 | 10-3/16 x 33-3/32 x 33-3/32 |        |
|                                                                          |                                      | mm       | 258 x 840 x 840                                                                                                                                                                                                                                                  | 258 x 840 x 840             | 258 x 840 x 840             |        |
| Net weight                                                               |                                      | lbs (kg) | 49 (22)                                                                                                                                                                                                                                                          | 49 (22)                     | 51 (23)                     |        |
| Decoration panel                                                         | Model                                |          | PLP-40BAU                                                                                                                                                                                                                                                        | PLP-40BAU                   | PLP-40BAU                   |        |
|                                                                          | External finish                      |          | MUNSELL (6.4Y 8.9/0.4)                                                                                                                                                                                                                                           |                             |                             |        |
|                                                                          | Dimension<br>H x W x D               | in.      | 1-3/8 x 37-13/32 x 37-13/32                                                                                                                                                                                                                                      | 1-3/8 x 37-13/32 x 37-13/32 | 1-3/8 x 37-13/32 x 37-13/32 |        |
|                                                                          |                                      | mm       | 35 x 950 x 950                                                                                                                                                                                                                                                   | 35 x 950 x 950              | 35 x 950 x 950              |        |
|                                                                          | Net Weight                           |          | lbs (kg)                                                                                                                                                                                                                                                         | 13 (6)                      | 13 (6)                      | 13 (6) |
| Heat exchanger                                                           |                                      |          | Cross fin                                                                                                                                                                                                                                                        |                             |                             |        |
| FAN                                                                      | Type x Quantity                      |          | Turbo fan x 1                                                                                                                                                                                                                                                    | Turbo fan x 1               | Turbo fan x 1               |        |
|                                                                          | External static press                | in.WG    | 0.000 (208V)                                                                                                                                                                                                                                                     | 0.000 (208V)                | 0.000 (208V)                |        |
|                                                                          |                                      | Pa       | 0                                                                                                                                                                                                                                                                | 0                           | 0                           |        |
|                                                                          |                                      | in.WG    | 0.000 (230V)                                                                                                                                                                                                                                                     | 0.000 (230V)                | 0.000 (230V)                |        |
|                                                                          |                                      | Pa       | 0                                                                                                                                                                                                                                                                | 0                           | 0                           |        |
|                                                                          | Motor type                           |          | DC motor                                                                                                                                                                                                                                                         |                             |                             |        |
|                                                                          | Motor output                         | kW       | 0.050                                                                                                                                                                                                                                                            | 0.050                       | 0.050                       |        |
|                                                                          | Driving mechanism                    |          | Direct-driven                                                                                                                                                                                                                                                    |                             |                             |        |
|                                                                          | Airflow rate<br>(Low-Mid2-Mid1-High) | cfm      | 388 - 424 - 459 - 494                                                                                                                                                                                                                                            | 424 - 459 - 494 - 565       | 494 - 530 - 565 - 636       |        |
|                                                                          |                                      | m3 / min | 11.0 - 12.0 - 13.0 - 14.0                                                                                                                                                                                                                                        | 12.0 - 13.0 - 14.0 - 16.0   | 14.0 - 15.0 - 16.0 - 18.0   |        |
|                                                                          |                                      | L / s    | 183 - 200 - 217 - 233                                                                                                                                                                                                                                            | 200 - 217 - 233 - 267       | 233 - 250 - 267 - 300       |        |
| Sound pressure level (Low-Mid2-Mid1-High)<br>(measured in anechoic room) | dB <A>                               |          | 27 - 28 - 29 - 31(208-230V)                                                                                                                                                                                                                                      | 27 - 28 - 30 - 31(208-230V) | 28 - 29 - 30- 32(208-230V)  |        |
|                                                                          | dB <A>                               |          | -                                                                                                                                                                                                                                                                | -                           | -                           |        |
|                                                                          | dB <A>                               |          | -                                                                                                                                                                                                                                                                | -                           | -                           |        |
| Insulation material                                                      |                                      |          | PS                                                                                                                                                                                                                                                               |                             |                             |        |
| Air filter                                                               |                                      |          | PP honeycomb (long life filter, anti-bacterial type)                                                                                                                                                                                                             |                             |                             |        |
| Protection device                                                        |                                      |          | Fuse                                                                                                                                                                                                                                                             |                             |                             |        |
| Refrigerant control device                                               |                                      |          | LEV                                                                                                                                                                                                                                                              |                             |                             |        |
| Connectable outdoor unit                                                 |                                      |          | R410A CITY MULTI                                                                                                                                                                                                                                                 |                             |                             |        |
| Diameter of refrigerant pipe (O.D.)                                      | Liquid (R410A)                       | in. (mm) | 1/4 (6.35) Flare                                                                                                                                                                                                                                                 | 1/4 (6.35) Flare            | 1/4 (6.35) Flare            |        |
|                                                                          | Gas (R410A)                          | in. (mm) | 1/2 (12.7) Flare                                                                                                                                                                                                                                                 | 1/2 (12.7) Flare            | 1/2 (12.7) Flare            |        |
| Field drain pipe size                                                    |                                      | in. (mm) | O.D. 1-1/4(32)                                                                                                                                                                                                                                                   | O.D. 1-1/4(32)              | O.D. 1-1/4(32)              |        |
| Standard attachment                                                      | Document                             |          | Installation Manual, Instruction Book                                                                                                                                                                                                                            |                             |                             |        |
|                                                                          | Accessory                            |          |                                                                                                                                                                                                                                                                  |                             |                             |        |
| Optional parts                                                           | External heater adapter              |          | PAC-YU25HT                                                                                                                                                                                                                                                       | PAC-YU25HT                  | PAC-YU25HT                  |        |
|                                                                          | Air outlet shutter plate             |          | PAC-SH51SP-E                                                                                                                                                                                                                                                     | PAC-SH51SP-E                | PAC-SH51SP-E                |        |
|                                                                          | High efficiency filter element       |          | PAC-SH59KF-E                                                                                                                                                                                                                                                     | PAC-SH59KF-E                | PAC-SH59KF-E                |        |
|                                                                          | Multi-function casement              |          | PAC-SH53TM-E                                                                                                                                                                                                                                                     | PAC-SH53TM-E                | PAC-SH53TM-E                |        |
|                                                                          | i-see sensor corner panel            |          | PAC-SA1ME-E                                                                                                                                                                                                                                                      | PAC-SA1ME-E                 | PAC-SA1ME-E                 |        |
|                                                                          | Flange for fresh air intake          |          | PAC-SH65OF-E                                                                                                                                                                                                                                                     | PAC-SH65OF-E                | PAC-SH65OF-E                |        |
|                                                                          | Wireless signal receiver             |          | PAR-SF9FA-E                                                                                                                                                                                                                                                      | PAR-SF9FA-E                 | PAR-SF9FA-E                 |        |
| Remarks                                                                  |                                      |          | * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>* Due to continuing improvement, above specification may be subject to change without notice. |                             |                             |        |

|                                                                       |  |                               |                                                            |                                                             |
|-----------------------------------------------------------------------|--|-------------------------------|------------------------------------------------------------|-------------------------------------------------------------|
| Notes :                                                               |  | *1 Nominal cooling conditions | *2 Nominal heating conditions                              | Unit converter                                              |
| Indoor : 80degF D.B. / 67degF W.B.<br>(26.7degC D.B. / 19.4degC W.B.) |  |                               | 70degF D.B.<br>(21.1degC D.B.)                             | kcal/h = kW x 860                                           |
| Outdoor : 95degF D.B.<br>(35degC D.B.)                                |  |                               | 47degF D.B. / 43degF W.B.<br>(8.3degC D.B. / 6.1degC W.B.) | BTU/h = kW x 3,412                                          |
| Pipe length : 25 ft. (7.6 m)                                          |  |                               | 25 ft. (7.6 m)                                             | cfm = m3/min x 35.31                                        |
| Level difference : 0 ft. (0 m)                                        |  |                               | 0 ft. (0 m)                                                | lbs = kg / 0.4536                                           |
|                                                                       |  |                               |                                                            | *Above specification data is subject to rounding variation. |

Ref.: Spec\_PLFY-P12-18NBMU-E

# 1. SPECIFICATIONS

DATA U10

| Model                                                                    |                                      |          | PLFY-P24NBMU-E                                                                                                                                                                                                                                                   | PLFY-P30NBMU-E              | PLFY-P36NBMU-E              |  |
|--------------------------------------------------------------------------|--------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|--|
| Power source                                                             |                                      |          | 1-phase 208-230 V 60Hz                                                                                                                                                                                                                                           |                             |                             |  |
| Cooling capacity<br>(Nominal)                                            | *1                                   | BTU / h  | 24,000                                                                                                                                                                                                                                                           | 30,000                      | 36,000                      |  |
|                                                                          | *1                                   | kW       | 7.0                                                                                                                                                                                                                                                              | 8.8                         | 10.5                        |  |
|                                                                          | Power input                          | kW       | 0.06                                                                                                                                                                                                                                                             | 0.07                        | 0.16                        |  |
|                                                                          | Current input                        | A        | 0.43                                                                                                                                                                                                                                                             | 0.51                        | 1.07                        |  |
| Heating capacity<br>(Nominal)                                            | *2                                   | BTU / h  | 27,000                                                                                                                                                                                                                                                           | 34,000                      | 40,000                      |  |
|                                                                          | *2                                   | kW       | 7.9                                                                                                                                                                                                                                                              | 10.0                        | 11.7                        |  |
|                                                                          | Power input                          | kW       | 0.05                                                                                                                                                                                                                                                             | 0.06                        | 0.15                        |  |
|                                                                          | Current input                        | A        | 0.36                                                                                                                                                                                                                                                             | 0.43                        | 1.00                        |  |
| External finish                                                          |                                      |          | Galvanized steel sheet                                                                                                                                                                                                                                           |                             |                             |  |
| External dimension H x W x D                                             |                                      | in.      | 10-3/16 x 33-3/32 x 33-3/32                                                                                                                                                                                                                                      | 10-3/16 x 33-3/32 x 33-3/32 | 11-3/4 x 33-3/32 x 33-3/32  |  |
|                                                                          |                                      | mm       | 258 x 840 x 840                                                                                                                                                                                                                                                  | 258 x 840 x 840             | 298 x 840 x 840             |  |
| Net weight                                                               |                                      | lbs (kg) | 51 (23)                                                                                                                                                                                                                                                          | 51 (23)                     | 60 (27)                     |  |
| Decoration panel                                                         | Model                                |          | PLP-40BAU                                                                                                                                                                                                                                                        | PLP-40BAU                   | PLP-40BAU                   |  |
|                                                                          | External finish                      |          | MUNSELL (6.4Y 8.9/0.4)                                                                                                                                                                                                                                           |                             |                             |  |
|                                                                          | Dimension                            | in.      | 1-3/8 x 37-13/32 x 37-13/32                                                                                                                                                                                                                                      | 1-3/8 x 37-13/32 x 37-13/32 | 1-3/8 x 37-13/32 x 37-13/32 |  |
|                                                                          | H x W x D                            | mm       | 35 x 950 x 950                                                                                                                                                                                                                                                   | 35 x 950 x 950              | 35 x 950 x 950              |  |
|                                                                          | Net Weight                           | lbs (kg) | 13 (6)                                                                                                                                                                                                                                                           | 13 (6)                      | 13 (6)                      |  |
| Heat exchanger                                                           |                                      |          | Cross fin                                                                                                                                                                                                                                                        |                             |                             |  |
| FAN                                                                      | Type x Quantity                      |          | Turbo fan x 1                                                                                                                                                                                                                                                    | Turbo fan x 1               | Turbo fan x 1               |  |
|                                                                          | External static press                | in.WG    | 0.000 (208V)                                                                                                                                                                                                                                                     | 0.000 (208V)                | 0.000 (208V)                |  |
|                                                                          |                                      | Pa       | 0                                                                                                                                                                                                                                                                | 0                           | 0                           |  |
|                                                                          |                                      | in.WG    | 0.000 (230V)                                                                                                                                                                                                                                                     | 0.000 (230V)                | 0.000 (230V)                |  |
|                                                                          |                                      | Pa       | 0                                                                                                                                                                                                                                                                | 0                           | 0                           |  |
|                                                                          | Motor type                           |          | DC motor                                                                                                                                                                                                                                                         |                             |                             |  |
|                                                                          | Motor output                         | kW       | 0.050                                                                                                                                                                                                                                                            | 0.050                       | 0.120                       |  |
|                                                                          | Driving mechanism                    |          | Direct-driven                                                                                                                                                                                                                                                    |                             |                             |  |
|                                                                          | Airflow rate<br>(Low-Mid2-Mid1-High) | cfm      | 530 - 565 - 636 - 706                                                                                                                                                                                                                                            | 565 - 636 - 706 - 777       | 777 - 883 - 989 - 1,059     |  |
|                                                                          |                                      | m3 / min | 15.0 - 16.0 - 18.0 -20.0                                                                                                                                                                                                                                         | 16.0 - 18.0 - 20.0 - 22.0   | 22.0 - 25.0 - 28.0 - 30.0   |  |
|                                                                          |                                      | L / s    | 250 - 267 - 300 - 333                                                                                                                                                                                                                                            | 267 - 300 - 333 - 367       | 367 - 417 - 467 - 500       |  |
| Sound pressure level (Low-Mid2-Mid1-High)<br>(measured in anechoic room) | dB <A>                               |          | 28 - 30 - 32 - 34(208-230V)                                                                                                                                                                                                                                      | 30 - 32 - 35 - 37(208-230V) | 35 - 38 - 41 - 43(208-230V) |  |
|                                                                          | dB <A>                               |          | -                                                                                                                                                                                                                                                                | -                           | -                           |  |
|                                                                          | dB <A>                               |          | -                                                                                                                                                                                                                                                                | -                           | -                           |  |
| Insulation material                                                      |                                      |          | PS                                                                                                                                                                                                                                                               |                             |                             |  |
| Air filter                                                               |                                      |          | PP honeycomb (long life filter, anti-bacterial type)                                                                                                                                                                                                             |                             |                             |  |
| Protection device                                                        |                                      |          | Fuse                                                                                                                                                                                                                                                             |                             |                             |  |
| Refrigerant control device                                               |                                      |          | LEV                                                                                                                                                                                                                                                              |                             |                             |  |
| Connectable outdoor unit                                                 |                                      |          | R410A CITY MULTI                                                                                                                                                                                                                                                 |                             |                             |  |
| Diameter of refrigerant pipe (O.D.)                                      | Liquid (R410A)                       | in. (mm) | 3/8 (9.52) Flare                                                                                                                                                                                                                                                 | 3/8 (9.52) Flare            | 3/8 (9.52) Flare            |  |
|                                                                          | Gas (R410A)                          | in. (mm) | 5/8 (15.88) Flare                                                                                                                                                                                                                                                | 5/8 (15.88) Flare           | 5/8 (15.88) Flare           |  |
| Field drain pipe size                                                    |                                      | in. (mm) | O.D. 1-1/4(32)                                                                                                                                                                                                                                                   | O.D. 1-1/4(32)              | O.D. 1-1/4(32)              |  |
| Standard attachment                                                      | Document                             |          | Installation Manual, Instruction Book                                                                                                                                                                                                                            |                             |                             |  |
|                                                                          | Accessory                            |          |                                                                                                                                                                                                                                                                  |                             |                             |  |
| Optional parts                                                           | External heater adapter              |          | PAC-YU25HT                                                                                                                                                                                                                                                       | PAC-YU25HT                  | PAC-YU25HT                  |  |
|                                                                          | Air outlet shutter plate             |          | PAC-SH51SP-E                                                                                                                                                                                                                                                     | PAC-SH51SP-E                | PAC-SH51SP-E                |  |
|                                                                          | High efficiency filter element       |          | PAC-SH59KF-E                                                                                                                                                                                                                                                     | PAC-SH59KF-E                | PAC-SH59KF-E                |  |
|                                                                          | Multi-function casement              |          | PAC-SH53TM-E                                                                                                                                                                                                                                                     | PAC-SH53TM-E                | PAC-SH53TM-E                |  |
|                                                                          | i-see sensor corner panel            |          | PAC-SA1ME-E                                                                                                                                                                                                                                                      | PAC-SA1ME-E                 | PAC-SA1ME-E                 |  |
|                                                                          | Flange for fresh air intake          |          | PAC-SH65OF-E                                                                                                                                                                                                                                                     | PAC-SH65OF-E                | PAC-SH65OF-E                |  |
|                                                                          | Wireless signal receiver             |          | PAR-SF9FA-E                                                                                                                                                                                                                                                      | PAR-SF9FA-E                 | PAR-SF9FA-E                 |  |
| Remarks                                                                  |                                      |          | * Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.<br>* Due to continuing improvement, above specification may be subject to change without notice. |                             |                             |  |

|                    |  |                                                              |                                                            |                                                             |
|--------------------|--|--------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|
| Notes :            |  | *1 Nominal cooling conditions                                | *2 Nominal heating conditions                              | Unit convertor                                              |
| Indoor :           |  | 80degF D.B. / 67degF W.B.<br>(26.7degC D.B. / 19.4degC W.B.) | 70degF D.B.<br>(21.1degC D.B.)                             | kcal/h = kW x 860                                           |
| Outdoor :          |  | 95degF D.B.<br>(35degC D.B.)                                 | 47degF D.B. / 43degF W.B.<br>(8.3degC D.B. / 6.1degC W.B.) | BTU/h = kW x 3,412                                          |
| Pipe length :      |  | 25 ft. (7.6 m)                                               | 25 ft. (7.6 m)                                             | cfm = m3/min x 35.31                                        |
| Level difference : |  | 0 ft. (0 m)                                                  | 0 ft. (0 m)                                                | lbs = kg / 0.4536                                           |
|                    |  |                                                              |                                                            | *Above specification data is subject to rounding variation. |

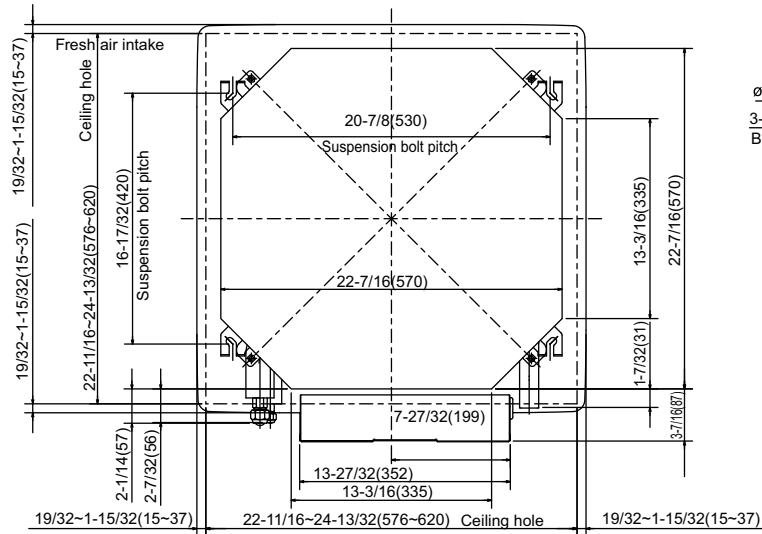
Ref.: Spec\_PLFY-P24-36NBMU-E

## 2. EXTERNAL DIMENSIONS

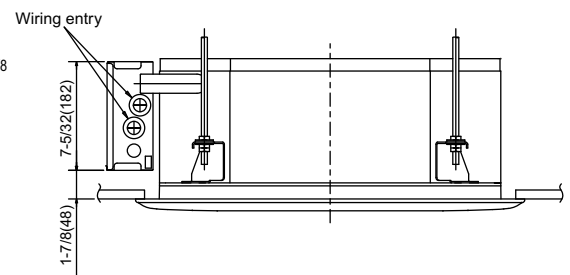
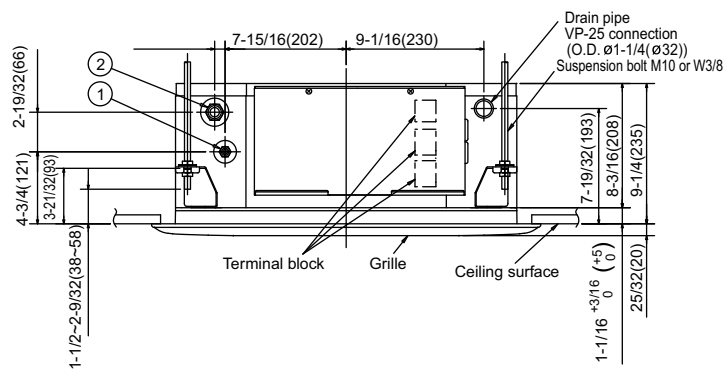
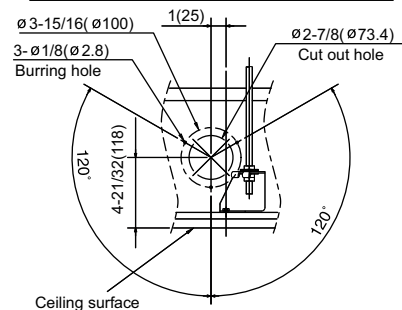
DATA U10

## PLFY-P08,12,15 NCMU-E

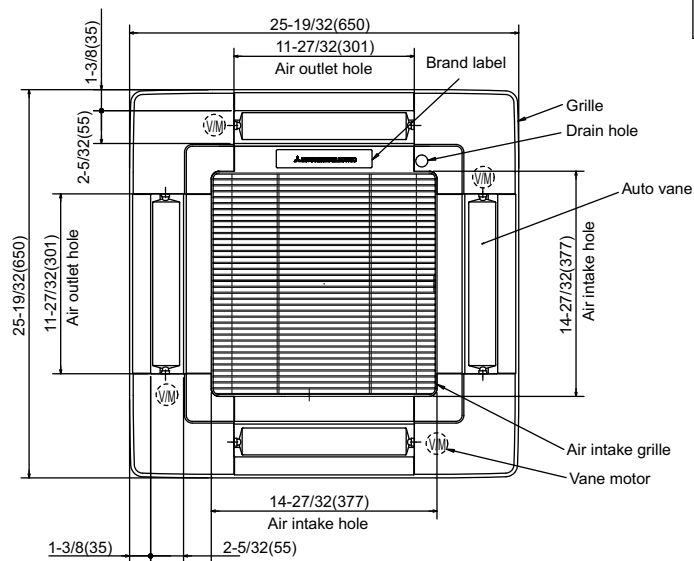
Ref. : PLFY-NCMU-E\_EXD\_USDB\_P08-15  
Unit : in.(mm)



Detail drawing of fresh air intake



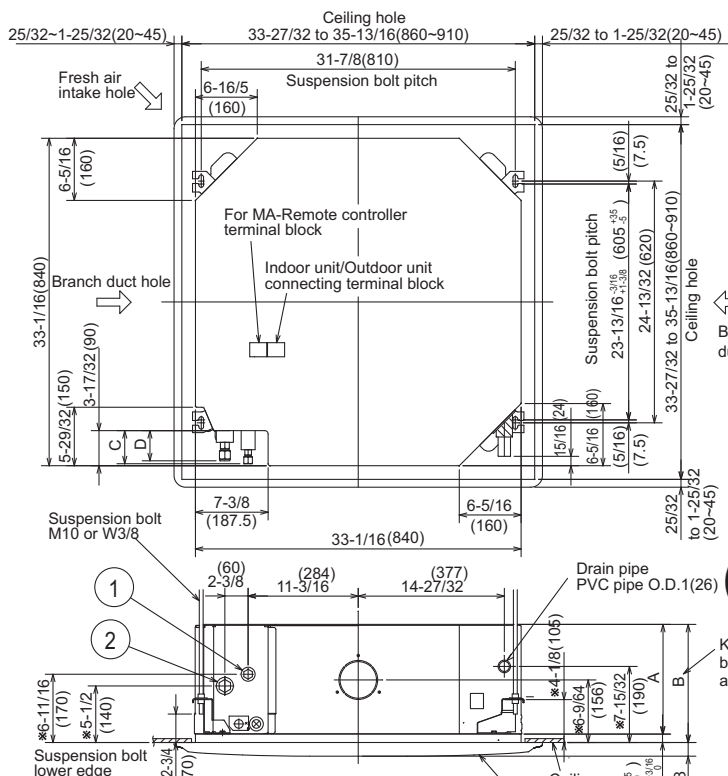
Suspension bolt lower edge



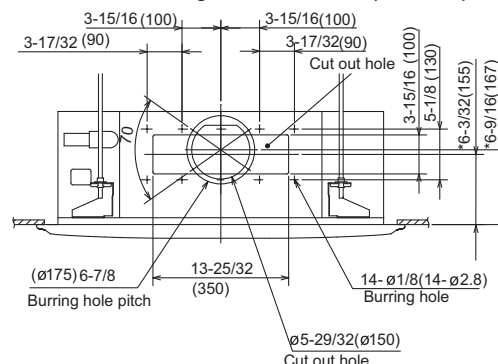
| Unit : in.(mm)                                              |                                                                 |                                                                 |
|-------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Models                                                      | ①                                                               | ②                                                               |
| PLFY-P08NCMU-E.TH<br>PLFY-P12NCMU-E.TH<br>PLFY-P15NCMU-E.TH | Refrigerant pipe<br>1/4 (6.35 dia.)<br>flared connection<br>1/4 | Refrigerant pipe<br>1/2 (12.7 dia.)<br>flared connection<br>1/2 |

## PLFY-P12, 15, 18, 24, 30, 36 NBMU-E

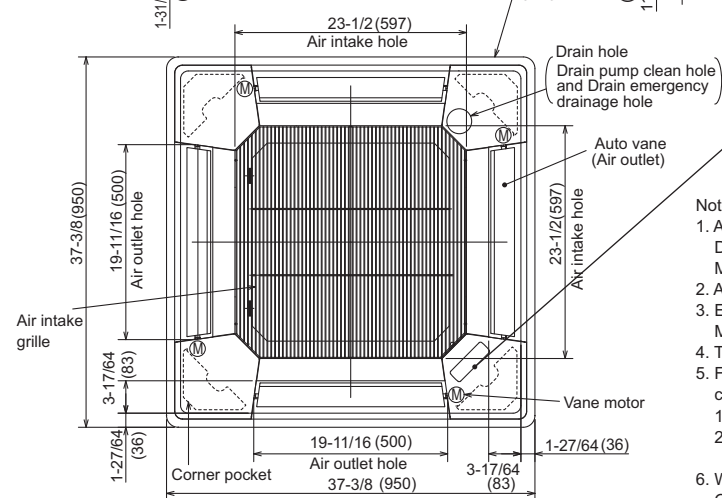
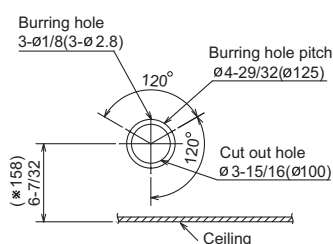
Unit : in. (mm)



## Detail connecting of branch duct(Both aspects)



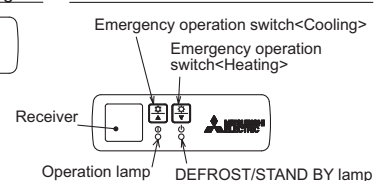
## Detail drawing of fresh air intake hole



## In case of standard grille



## In case of wireless remote controller



## Note:

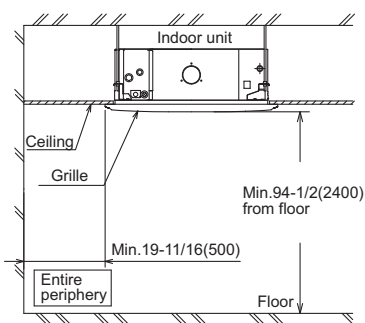
- As for drain pipe, please use VP-25 O.D. 1-1/4(32) PVC TUBE. Drain pump is included. Max. lifting height is 33-7/16 (850mm) from the ceiling.
  - As for suspension bolt, please use M10 or W3/8. (Procured at local site)
  - Electrical box may be removed for the service purpose. Make sure to slack the electrical wire little bit for control/power wires connection.
  - The height of the indoor unit is able to be adjusted with the grille attached.
  - For the installation of the optional high efficiency filter or optional multi-functional casement.
    - Add 5-5/16" (135mm) to the dimensions \* marked on the figure.
    - The optional high efficiency filter becomes optional multi-functional casement and concomitant use.
  - When installing the branch ducts, be sure to insulate adequately. Otherwise condensation and dripping may occur. (It becomes the cause of dew drops/water dew.)
- As for necessary installation / service space, please refer to the left figure.

Accessory...Drain socket(I.D.1-1/4(32))

Flare nut 3/8 (For P18)

Flare nut 5/8 (For P18)

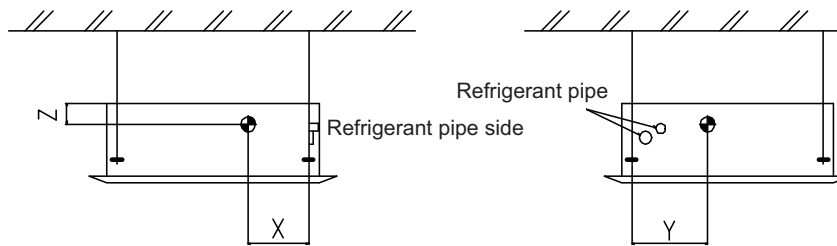
Flare nut 3/4 (For P36)



| Models                                             | 1                                                                  | 2                                                                       | A             | B             | C            | D            |
|----------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------|---------------|---------------|--------------|--------------|
| PLFY-P12NBMU-E<br>PLFY-P15NBMU-E                   | Refrigerant pipe ... $\phi$ 6.35<br>Flared connection ... 1/4      | Refrigerant pipe ... $\phi$ 12.7<br>Flared connection ... 1/2           |               |               |              |              |
| PLFY-P18NBMU-E                                     | Refrigerant pipe $\phi$ 6.35<br>Flared connection 1/4 (compatible) | Refrigerant pipe $\phi$ 12.7<br>Flared connection 1/2 (compatible)      | 9-1/2 (241)   | 10-3/16 (258) | 3-5/32 (80)  | 2-29/32 (74) |
| PLFY-P24NBMU-E<br>PLFY-P30NBMU-E<br>PLFY-P36NBMU-E | Refrigerant pipe ... $\phi$ 9.52<br>Flared connection ... 3/8      | Refrigerant pipe ... $\phi$ 15.88<br>Flared connection 5/8 (compatible) | 11-1/16 (281) | 11-3/4 (298)  | 3-11/32 (85) | 3-1/32 (77)  |

## PLFY-P08,12,15NCMU-E

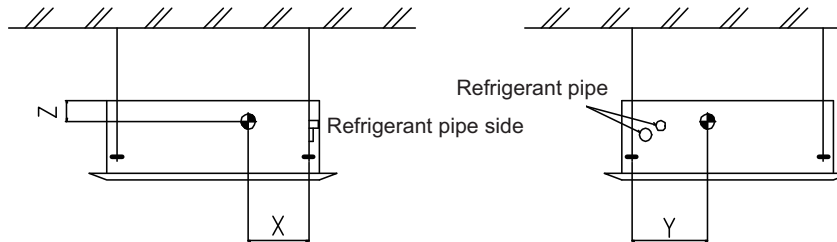
Ref.: PLFY\_NCMU\_COG\_USDB\_ALL



(mm)[in]

| Model name     | X             | Y            | Z            |
|----------------|---------------|--------------|--------------|
| PLFY-P08NCMU-E | 150 [5-29/32] | 260 [10-1/4] | 105 [4-5/32] |
| PLFY-P12NCMU-E | 150 [5-29/32] | 260 [10-1/4] | 105 [4-5/32] |
| PLFY-P15NCMU-E | 150 [5-29/32] | 260 [10-1/4] | 105 [4-5/32] |

## PLFY-P12,15,18,24,30,36NBMU-E



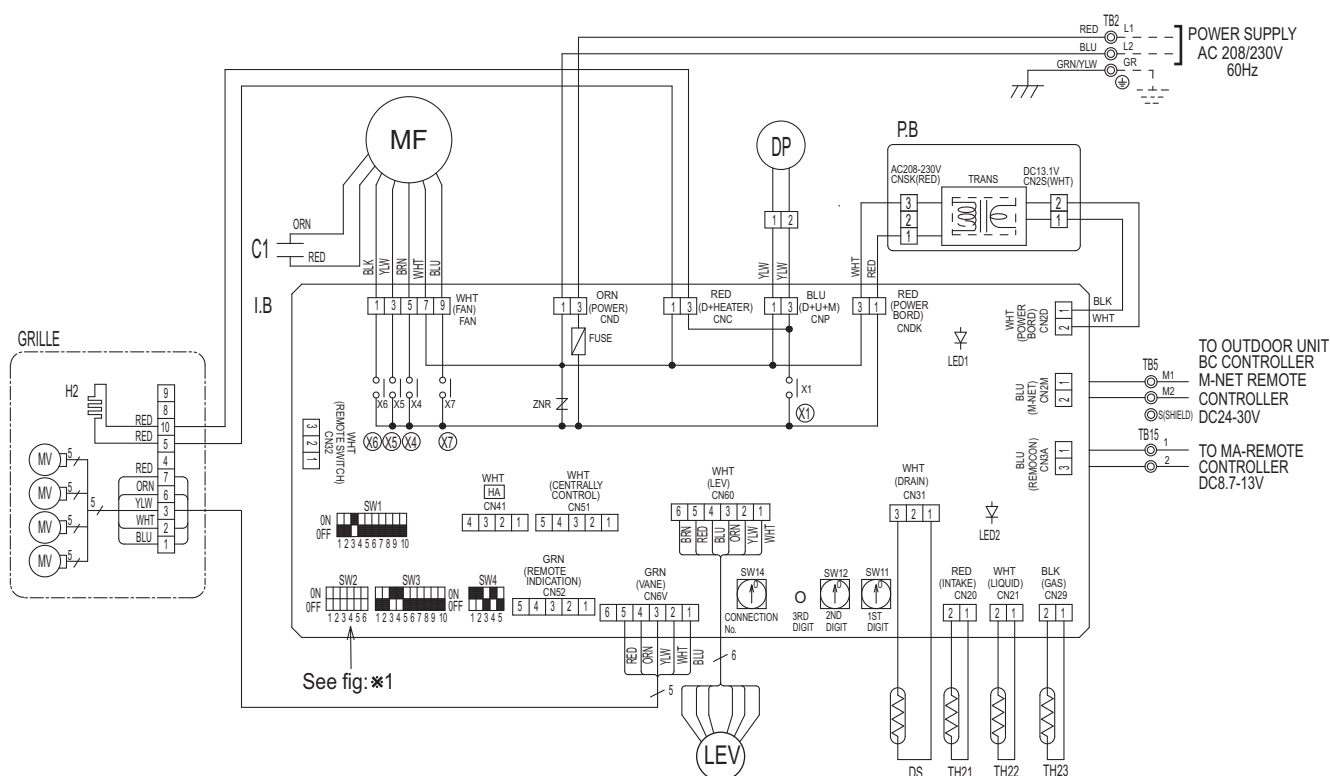
(mm)[in]

| Model name     | X             | Y            | Z             |
|----------------|---------------|--------------|---------------|
| PLFY-P12NBMU-E | 280 [11-1/32] | 400 [15-3/4] | 105 [4-5/32]  |
| PLFY-P15NBMU-E | 280 [11-1/32] | 400 [15-3/4] | 105 [4-5/32]  |
| PLFY-P18NBMU-E | 280 [11-1/32] | 400 [15-3/4] | 105 [4-5/32]  |
| PLFY-P24NBMU-E | 280 [11-1/32] | 400 [15-3/4] | 105 [4-5/32]  |
| PLFY-P30NBMU-E | 280 [11-1/32] | 400 [15-3/4] | 105 [4-5/32]  |
| PLFY-P36NBMU-E | 280 [11-1/32] | 400 [15-3/4] | 125 [4-15/16] |

## PLFY-P08,12,15 NCMU-E

## [LEGEND]

| SYMBOL | NAME                             | SYMBOL | NAME                                                        |
|--------|----------------------------------|--------|-------------------------------------------------------------|
| I.B    | INDOOR CONTROLLER BOARD          | C1     | CAPACITOR (FAN MOTOR)                                       |
| CN32   | CONNECTOR                        | DP     | DRAIN PUMP                                                  |
| CN41   | HA TERMINAL-A                    | DS     | DRAIN SENSOR                                                |
| CN51   | CENTRALLY CONTROL                | H2     | DEW PREVENTION HEATER                                       |
| CN52   | REMOTE INDICATION                | LEV    | LINEAR EXPANSION VALVE                                      |
| FUSE   | FUSE (6.3A/250V)                 | MF     | FAN MOTOR (WITH THERMAL FUSE)                               |
| SW1    | SWITCH                           | MV     | VANE MOTOR                                                  |
| SW2    | CAPACITY CODE                    | TB2    | TERMINAL BLOCK                                              |
| SW3    | MODE SELECTION                   | TB5    | TRANSMISSION                                                |
| SW4    | MODEL SELECTION                  | TB15   | MA-REMOTE CONTROLLER                                        |
| SW11   | ADDRESS SETTING 1ST DIGIT        | TH21   | ROOM TEMPERATURE DETECTION<br>(32°F/15kΩ 77°F/5.4kΩ)        |
| SW12   | ADDRESS SETTING 2ND DIGIT        | TH22   | PIPE TEMPERATURE DETECTION/LIQUID<br>(32°F/15kΩ 77°F/5.4kΩ) |
| SW14   | CONNECTION No.                   | TH23   | PIPE TEMPERATURE DETECTION/GAS<br>(32°F/15kΩ 77°F/5.4kΩ)    |
| X1     | AUX. RELAY                       | P.B    | INDOOR POWER BOARD                                          |
| X4     | DRAIN PUMP/DEW PREVENTION HEATER |        |                                                             |
| X5     | FAN MOTOR (LL)                   |        |                                                             |
| X6     | FAN MOTOR (Lo)                   |        |                                                             |
| X7     | FAN MOTOR (Hi)                   |        |                                                             |
| ZNR    | VARISTOR                         |        |                                                             |



LED on indoor controller board for service

| Mark | Meaning                               | Function                                                        |
|------|---------------------------------------|-----------------------------------------------------------------|
| LED1 | Main power supply                     | Main power supply(Indoor unit:208-230V) power on → Lamp is lit. |
| LED2 | Power supply for MA-Remote controller | Power supply for MA-Remote controller on → Lamp is lit.         |

&lt;fig: \*1&gt;

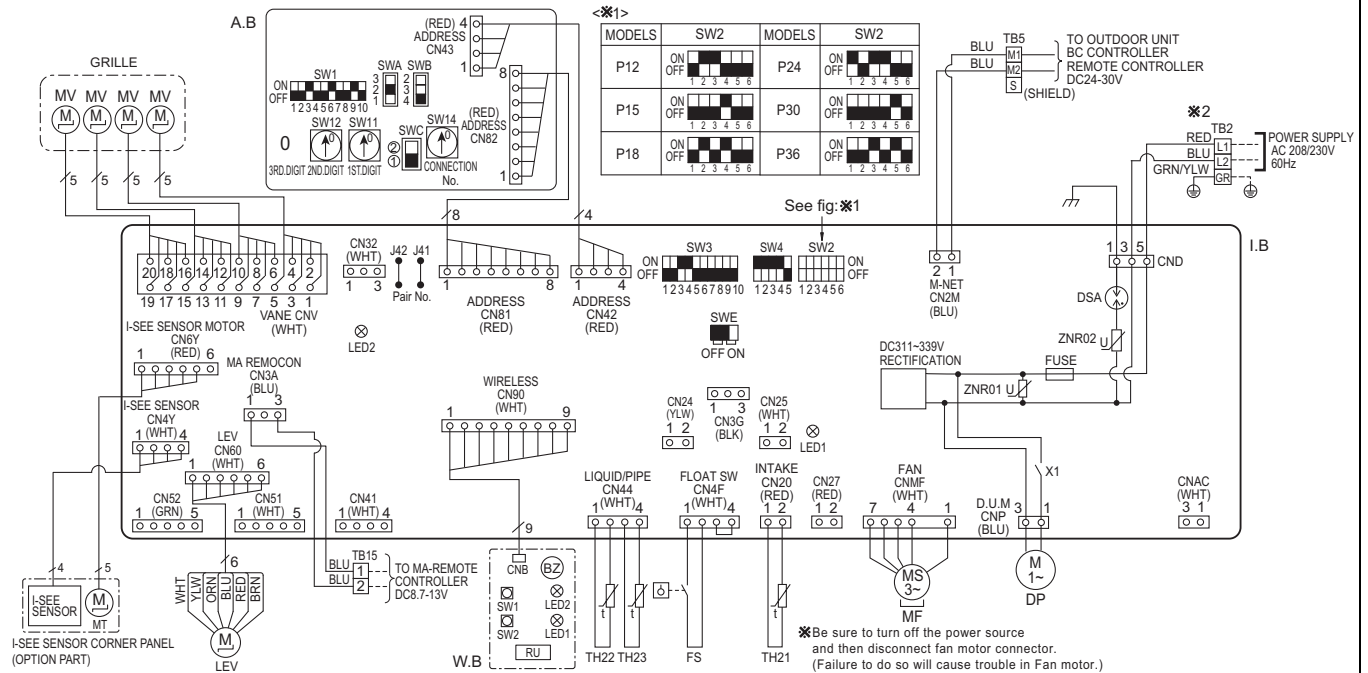
| MODELS | SW2           |
|--------|---------------|
| P08    | ON OFF 123456 |
| P12    | ON OFF 123456 |
| P15    | ON OFF 123456 |

## Notes:

- At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- In case of using MA-Remote controller, please connect to TB15. (Remote controller wire is non-polar.)
- In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
- Symbol[S] of TB5 is the shield wire connection.
- Symbols used in wiring diagram above are, ⊙:terminal block, □:connector.
- The setting of the SW2 dip switches differs in the capacity for the detail, refer to the fig:1.
- Use copper supply wire.



## PLFY-P12,15,18,24,30,36 NBMU-E



## NOTES:

1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
2. In case of using MA-Remote controller, please connect to TB15. (Remote controller wire is non-polar.)
3. In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
4. Symbol [S] of TB5 is the shield wire connection.
5. Symbols used in wiring diagram above are, : terminal block, : connector.
6. The setting of the SW2 dip switches differs in the capacity. For the detail, refer to fig < \*1 >.

\*2. Use copper supply wires.

## [LEGEND]

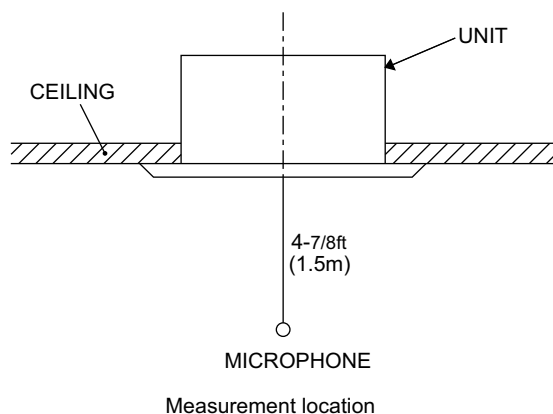
| SYMBOL   | NAME                         | SYMBOL | NAME                                                     | SYMBOL      | NAME                                   |
|----------|------------------------------|--------|----------------------------------------------------------|-------------|----------------------------------------|
| I. B     | INDOOR CONTROLLER BOARD      | DP     | DRAIN-UP MACHINE                                         | A. B        | ADDRESS BOARD                          |
| CN27     | CONNECTOR DAMPER             | FS     | DRAIN FLOAT SWITCH                                       | SWA         | SWITCH CEILING HEIGHT SELECTOR         |
| CN32     | REMOTE SWITCH                | LEV    | LINEAR EXPANSION VALVE                                   | SWB         | DISCHARGE OUTLET NUMBER SELECTOR       |
| CN51     | CENTRALLY CONTROL            | MF     | FAN MOTOR                                                | SWC         | OPTION SELECTOR                        |
| CN52     | REMOTE INDICATION            | MV     | VANE MOTOR                                               | SW1         | MODE SELECTION                         |
| DSA      | SURGE ABSORBER               | TB2    | TERMINAL BLOCK                                           | SW11        | ADDRESS SETTING 1ST DIGIT              |
| FUSE     | FUSE (T6.3AL250V)            | TB5    | TRANSMISSION                                             | SW12        | ADDRESS SETTING 2ND DIGIT              |
| LED1     | POWER SUPPLY (I. B)          | TB15   | MA-REMOTE CONTROLLER                                     | SW14        | CONNECTION NO.                         |
| LED2     | POWER SUPPLY (I. B)          | TH21   | THERMISTOR ROOM TEMP. DETECTION (0°C/ 15kΩ, 25°C/ 5.4kΩ) | OPTION PART |                                        |
| SW2      | SWITCH CAPACITY CODE         | TH22   | PIPE TEMP. DETECTION / LIQUID (0°C/ 15kΩ, 25°C/ 5.4kΩ)   | W. B        | PCB FOR WIRELESS REMOTE CONTROLLER     |
| SW3      | MODE SELECTION               | TH23   | PIPE TEMP. DETECTION / GAS (0°C/ 15kΩ, 25°C/ 5.4kΩ)      | BZ          | BUZZER                                 |
| SW4      | MODEL SELECTION              |        |                                                          | LED1        | LED (OPERATION INDICATION : GREEN)     |
| SWE      | DRAIN-UP MACHINE (TEST MODE) |        |                                                          | LED2        | LED (PREPARATION FOR HEATING : ORANGE) |
| X1       | AUX. RELAY                   |        |                                                          | RU          | RECEIVING UNIT                         |
| ZNR01,02 | VARISTOR                     |        |                                                          | SW1         | EMERGENCY OPERATION (HEAT / DOWN)      |
|          |                              |        |                                                          | SW2         | EMERGENCY OPERATION (COOL / UP)        |

## LED on indoor board for service

| Mark | Meaning                               | Function                                                         |
|------|---------------------------------------|------------------------------------------------------------------|
| LED1 | Main power supply                     | Main Power supply (Indoor unit:208-230V) power on → Lamp is lit. |
| LED2 | Power supply for MA-Remote controller | Power supply for MA-Remote controller on → Lamp is lit.          |

## 5-1. Sound levels

Ceiling cassette series



Operating sound levels  
(Low-Middle2-Middle1-High)

Unit : dB(A)

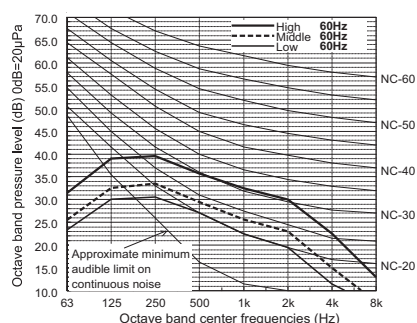
| Model          | Sound level (A weighted) |
|----------------|--------------------------|
| PLFY-P08NCMU-E | 29-32-38                 |
| PLFY-P12NCMU-E | 30-34-39                 |
| PLFY-P15NCMU-E | 31-35-40                 |
| PLFY-P12NBMU-E | 27-28-29-31              |
| PLFY-P15NBMU-E | 27-28-30-31              |
| PLFY-P18NBMU-E | 28-29-30-32              |
| PLFY-P24NBMU-E | 28-30-32-34              |
| PLFY-P30NBMU-E | 30-32-35-37              |
| PLFY-P36NBMU-E | 35-38-41-43              |

Ref.:PLFY-NCMU-E\_NCC\_USDB

## 5-2. NC curves

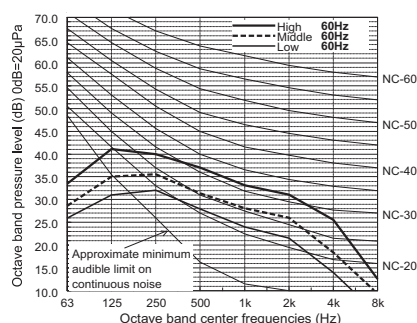
### PLFY-P08NCMU-E

External Static Pressure: 0Pa [0.00 in.WG]  
Power Source: 208-230V 60Hz



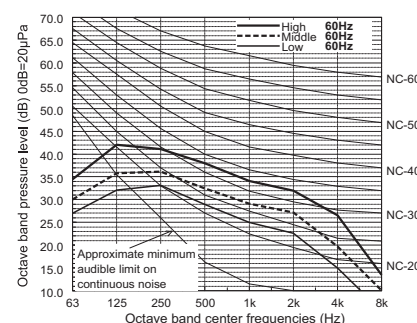
### PLFY-P12NCMU-E

External Static Pressure: 0Pa [0.00 in.WG]  
Power Source: 208-230V 60Hz



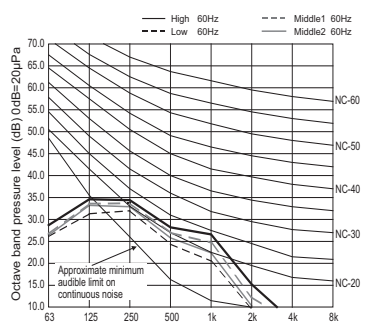
### PLFY-P15NCMU-E

External Static Pressure: 0Pa [0.00 in.WG]  
Power Source: 208-230V 60Hz



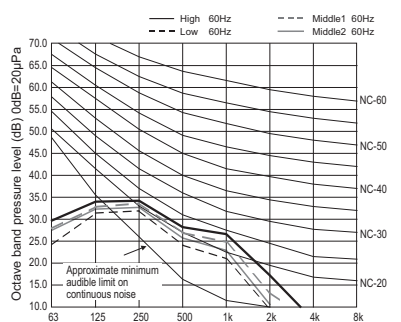
### PLFY-P12NBMU-E

External static pressure : 0Pa [0.00 in.WG]  
Power source : 208,230V, 60Hz



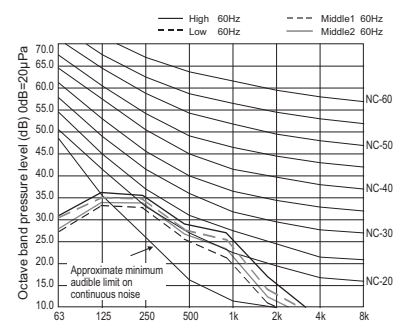
### PLFY-P15NBMU-E

External static pressure : 0Pa [0.00 in.WG]  
Power source : 208,230V, 60Hz



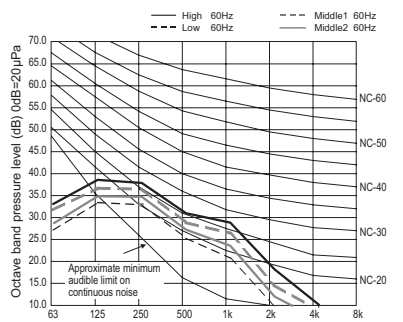
### PLFY-P18NBMU-E

External static pressure : 0Pa [0.00 in.WG]  
Power source : 208,230V, 60Hz



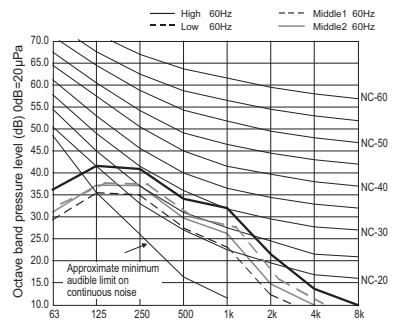
### PLFY-P24NBMU-E

External static pressure : 0Pa [0.00 in.WG]  
Power source : 208,230V, 60Hz



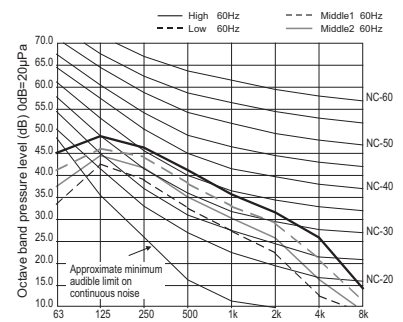
### PLFY-P30NBMU-E

External static pressure : 0Pa [0.00 in.WG]  
Power source : 208,230V, 60Hz

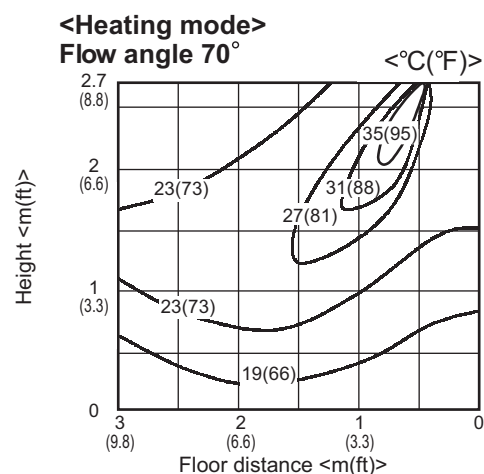
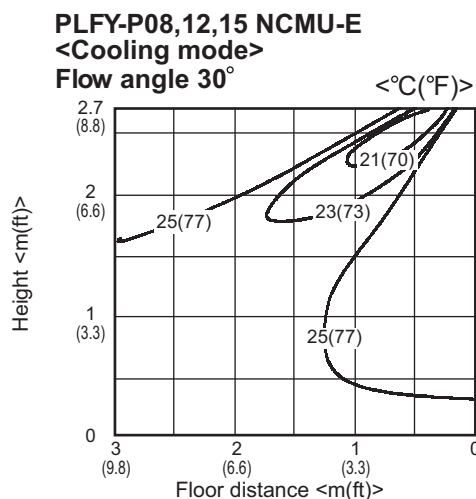


### PLFY-P36NBMU-E

External static pressure : 0Pa [0.00 in.WG]  
Power source : 208,230V, 60Hz

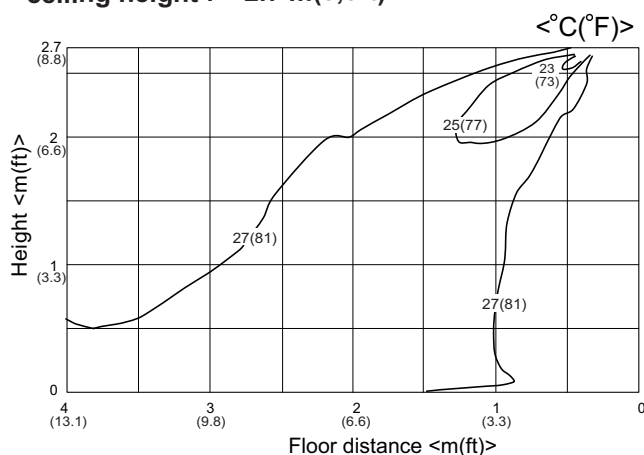


## 6-1. Temperature distributions

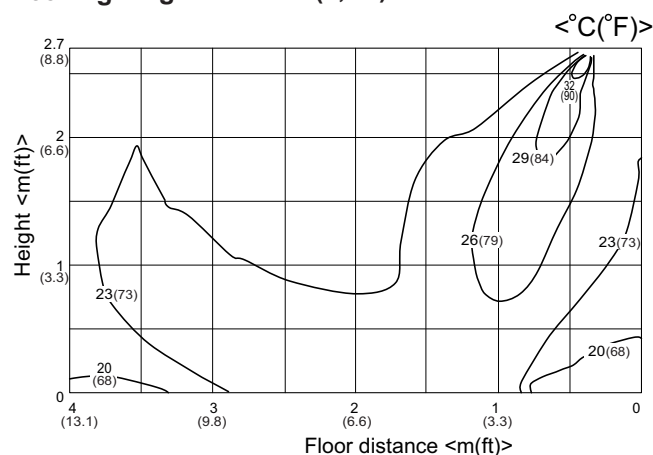


Ref.:PLFY-NCMU-E\_TPD\_USDB\_70

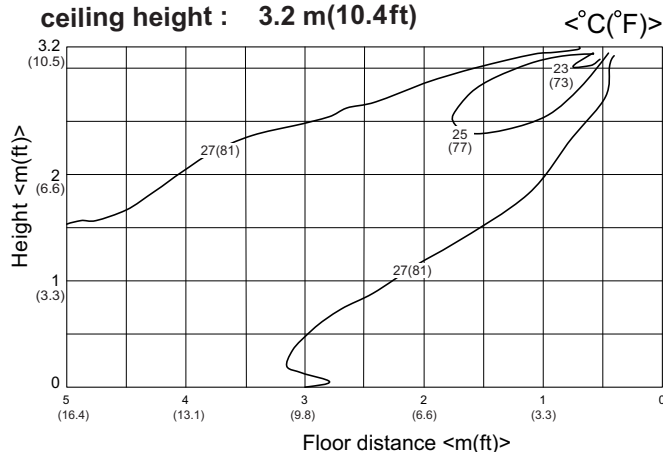
**PLFY-P30NBMU-E**  
**<Cooling mode> Standard**  
**Flow angle : 30° 4-way flow**  
**ceiling height : 2.7 m(8,8ft)**



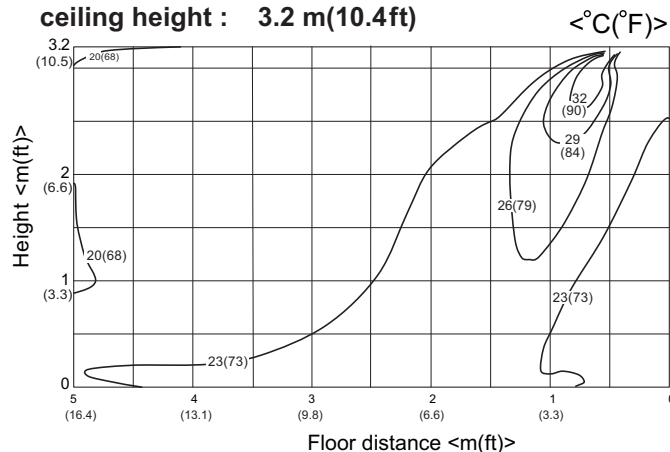
**<Heating mode> Standard**  
**Flow angle : 60° 4-way flow**  
**ceiling height : 2.7 m(8,8ft)**



**PLFY-P36NBMU-E**  
**<Cooling mode> Standard**  
**Flow angle : 30° 4-way flow**  
**ceiling height : 3.2 m(10.4ft)**



**<Heating mode> Standard**  
**Flow angle : 60° 4-way flow**  
**ceiling height : 3.2 m(10.4ft)**



Ref.:PLFY-NBMU-E\_TPD\_USDB

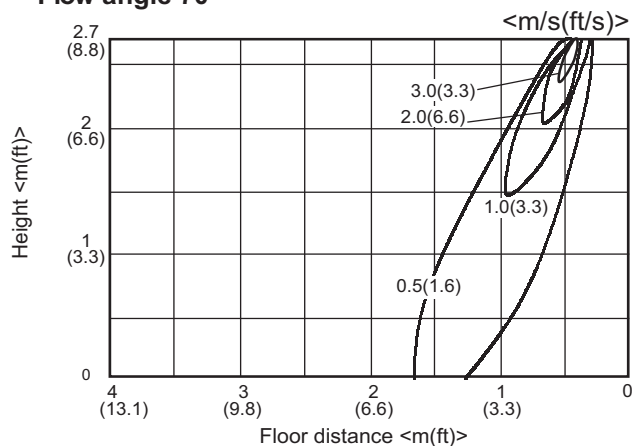
Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

## 6-2. Airflow distributions

PLFY-P08,12,15 NCMU-E

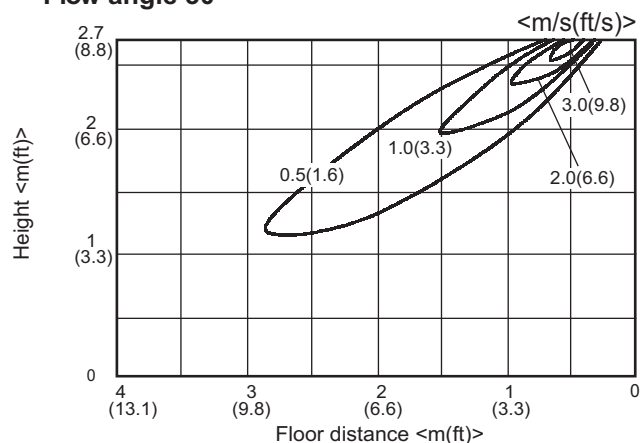
<Fan mode>

Flow angle 70°



<Fan mode>

Flow angle 30°

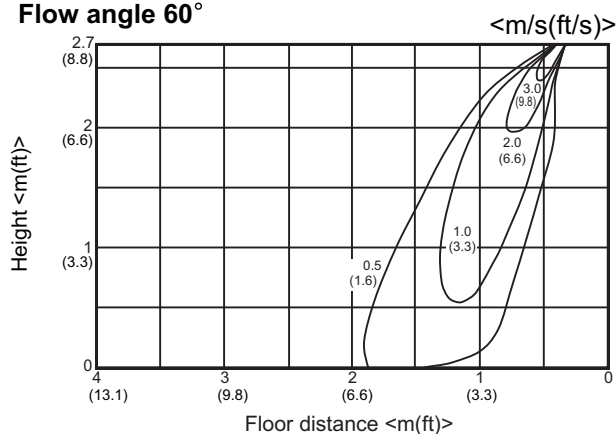


Ref.:PLFY-NCMU-E\_AFD\_USDB

PLFY-P30NBMU-E

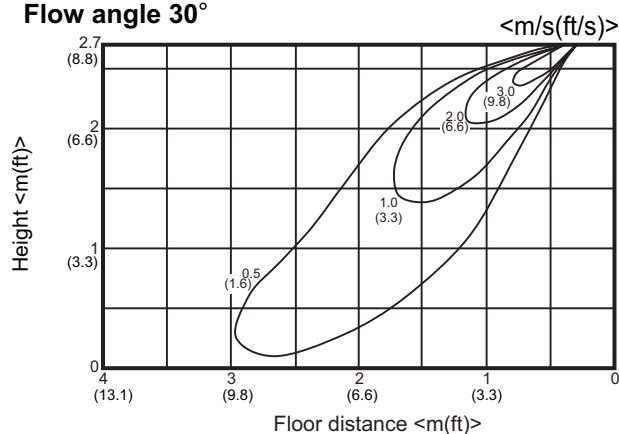
<Heating mode>

Flow angle 60°



<Cooling mode>

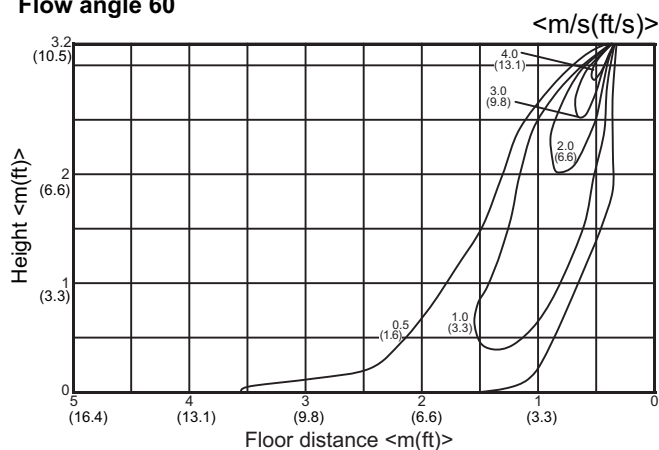
Flow angle 30°



PLFY-P36NBMU-E

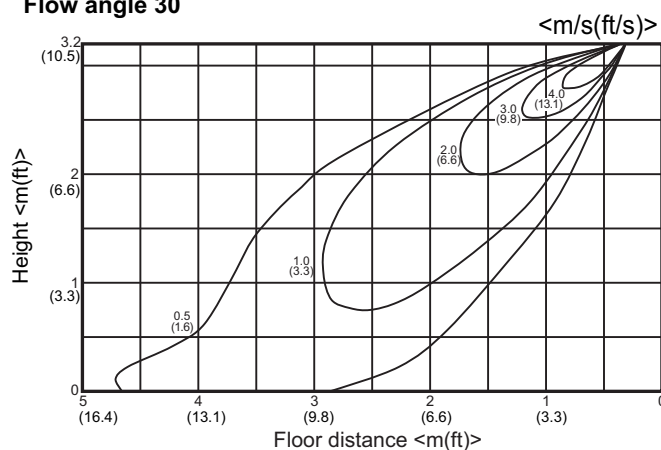
<Heating mode>

Flow angle 60°



<Cooling mode>

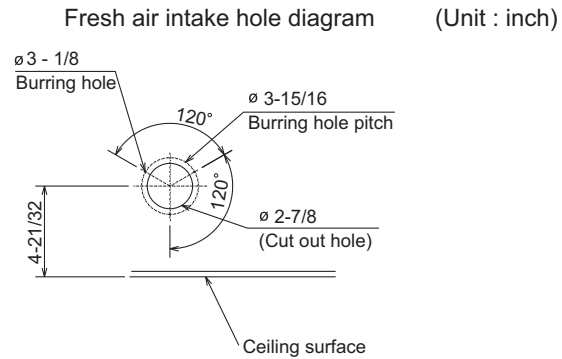
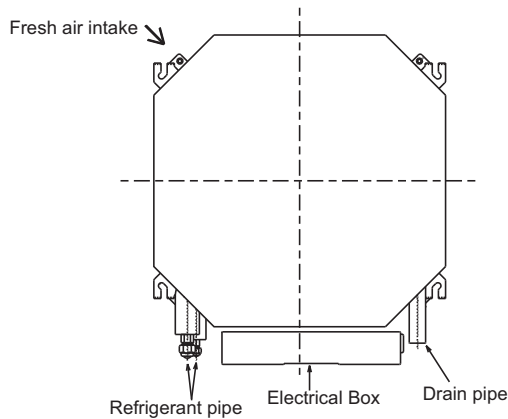
Flow angle 30°



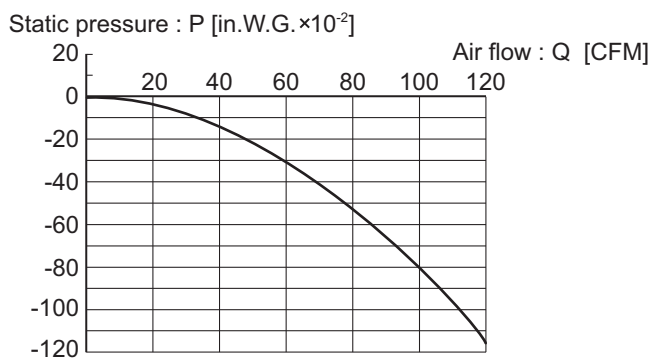
Ref.:PLFY-NCMU-E\_AFD\_USDB

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.

## ● PLFY-P08,12,15 NCMU-E

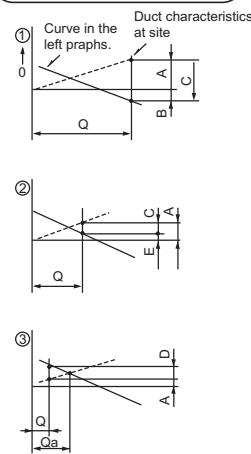


### Taking air into the unit



NOTE: Fresh air intake amount should be 20% or less of whole air amount to prevent dew dripping.

### How to read curves

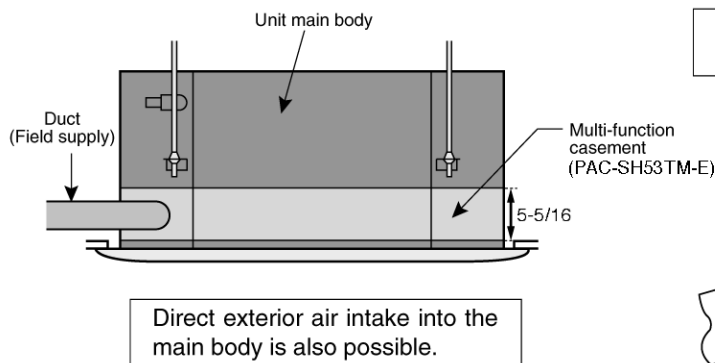


- Q...Planned amount of fresh air intake <CFM>
- A...Static pressure loss of fresh air intake duct system with air flow amount Q <in. W.G. × 10<sup>-2</sup>>
- B...Forced static pressure at air conditioner inlet with air flow amount Q <in. W.G. × 10<sup>-2</sup>>
- C...Static pressure of booster fan with air flow amount Q <in. W.G. × 10<sup>-2</sup>>
- D...Static pressure loss increase amount of fresh air intake duct system for air flow amount Q <in. W.G. × 10<sup>-2</sup>>
- E...Static pressure of indoor unit with air flow amount Q <in. W.G. × 10<sup>-2</sup>>
- Qa...Estimated amount of fresh air intake with out D <CFM>

Ref.:PLFY-NCMU-E\_OAI\_USDB

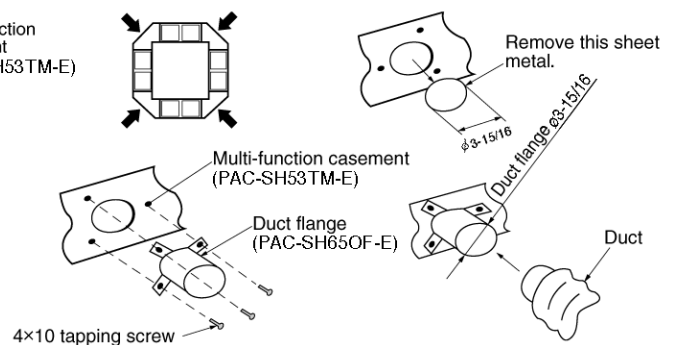
## ● PLFY-P12,18, 24 ,36NBMU-E

By mounting the optional multi-function casement (PAC-SH53TM-E) to the indoor unit main body, and mounting the optional duct flange(PAC-SH65OF-E) onto it further, fresh exterior air intake can be accomplished.  
(The mounting of the multi-function casement increases the height of the ceiling plenum by 5-5/16(135mm).)



### Knockout hole for fresh air intake

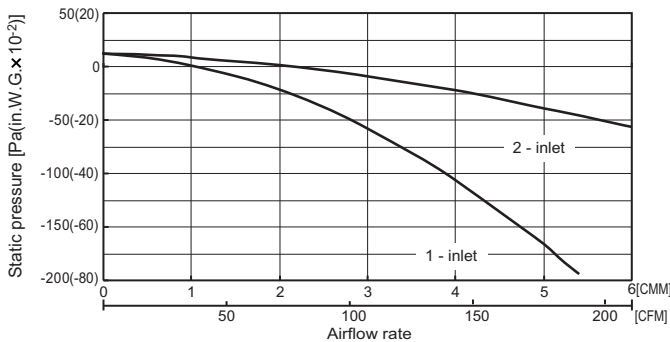
### Preparation of knockout hole



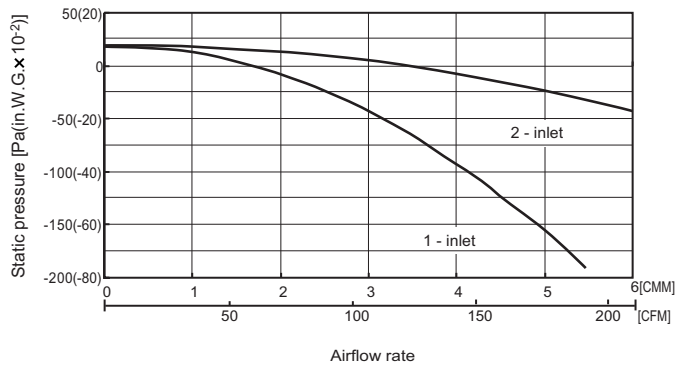
Ref.:PLFY-NBMU-E\_OAI\_USDB\_1

## ● PLFY-P12,18, 24, 30NBMU-E

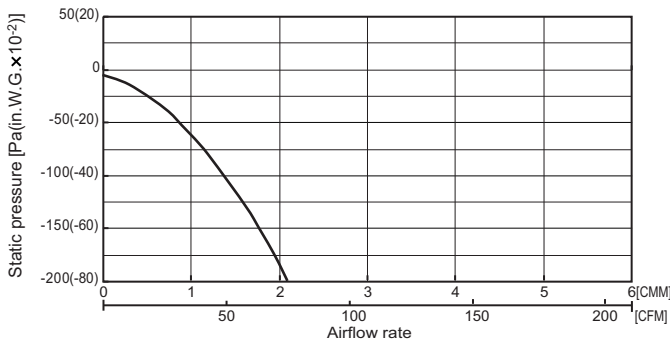
### Multifunction casement + High efficiency filter



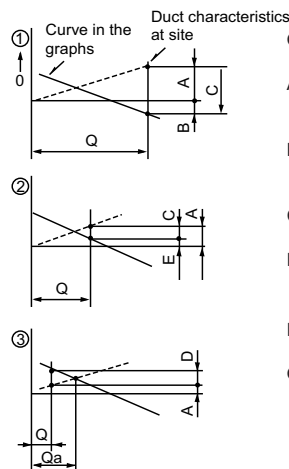
### Multifunction casement + Standard filter



### Taking air into the unit



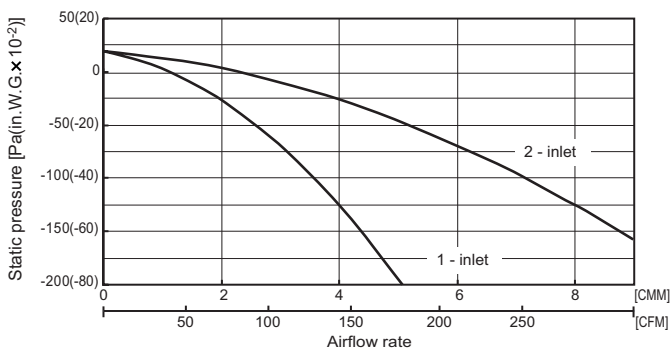
### How to read curves



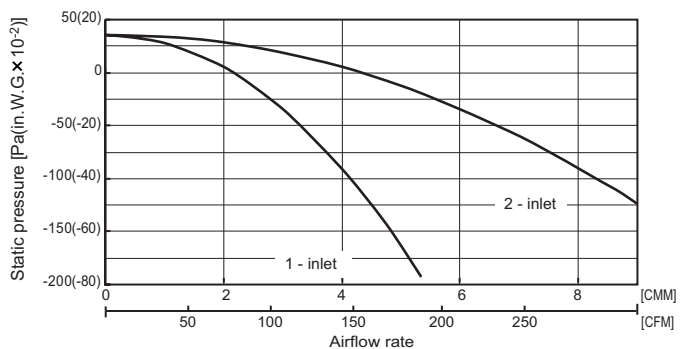
- Q...Designed amount of fresh air intake  
<CMM(CFM)>
- A...Static pressure loss of fresh air intake  
duct system with airflow amount Q  
<Pa(in.W.G. X10<sup>-2</sup>)>
- B...Forced static pressure at air conditioner  
inlet with air flow amount Q  
<Pa(in.W.G. X10<sup>-2</sup>)>
- C...Static pressure of booster fan with  
air flow amount Q <Pa(in.W.G. X10<sup>-2</sup>)>
- D...Static pressure loss increase amount  
of fresh air intake duct system for air-  
flow amount Q <Pa(in.W.G. X10<sup>-2</sup>)>
- E...Static pressure of indoor unit with air-  
flow amount Q <Pa(in.W.G. X10<sup>-2</sup>)>
- Qa...Estimated amount of fresh air intake  
without D <CMM(CFM)>

## ● PLFY-P36NBMU-E

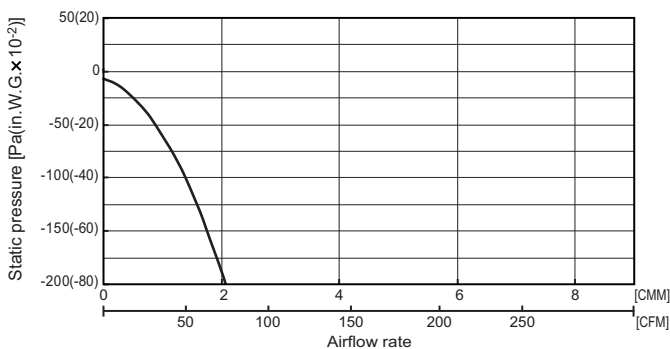
### Multifunction casement + Standard filter



### Multifunction casement + High efficiency filter



### Taking air into the unit

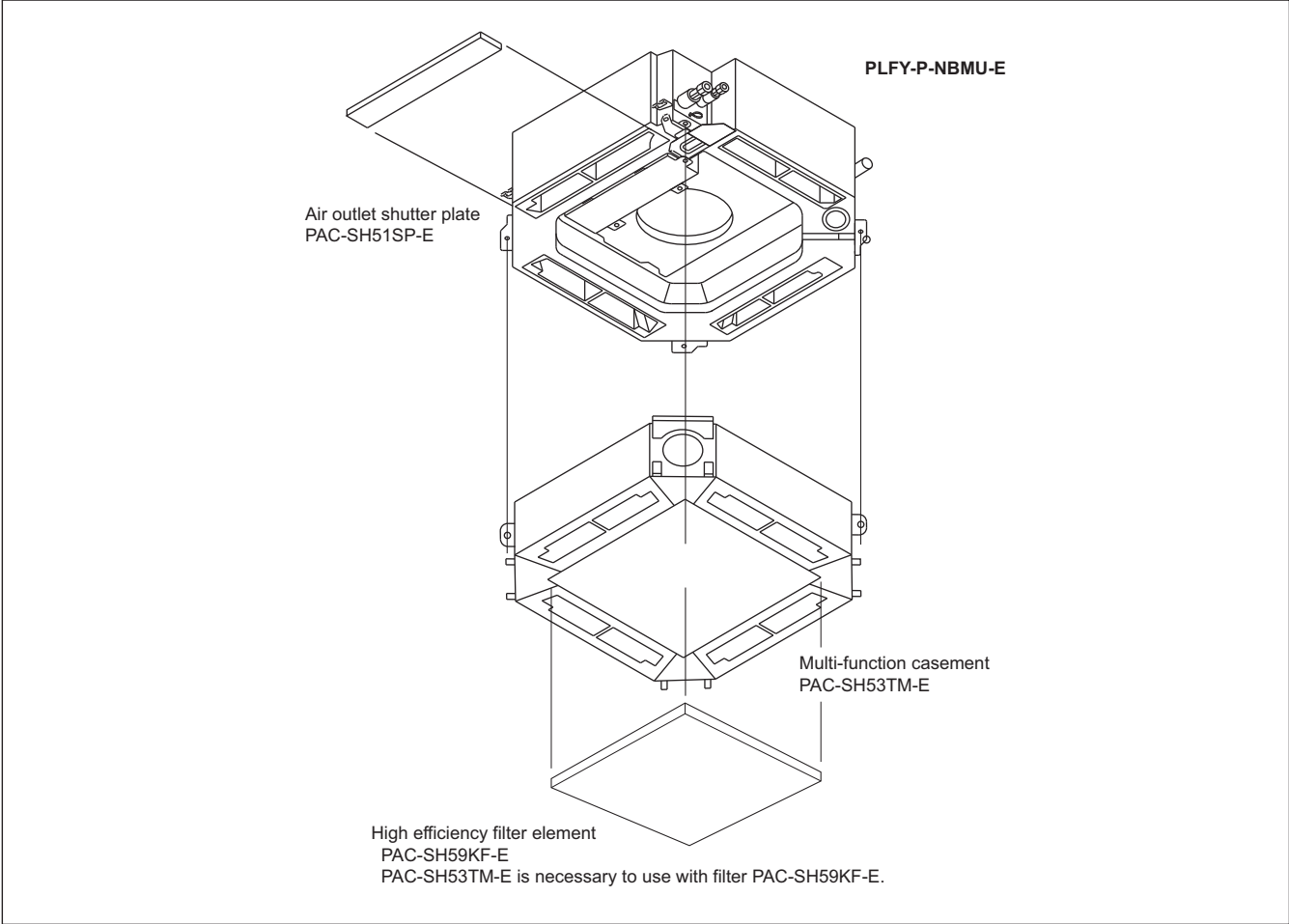


Ref.:PLFY-NBMU-E\_OAI\_USDB\_2

8-1. Optional parts line up for the Indoor unit

|               | Air outlet shutter plate  | Multi-function casement  | High efficiency filter element |
|---------------|---------------------------|--------------------------|--------------------------------|
| PLFY-P-NBMU-E | PAC-SH51SP-E              | PAC-SH53TM-E             | PAC-SH59KF-E                   |
|               | i-see sensor corner panel | Wireless signal receiver | Flange for fresh air intake    |
| PLFY-P-NBMU-E | PAC-SA1ME-E               | PAC-SA9FA-E              | PAC-SH65OF-E                   |
|               | External heater adapter   |                          |                                |
| PLFY-P-NBMU-E | PAC-YU25HT                |                          |                                |

PLFY-P-NBMU-E



8-2. Air outlet shutter plate

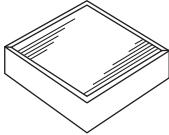
Using the air outlet shutter plate to block the air outlet to modify the air-way from 4 to 3 or 2.  
With 1 PAC-SH51SP-E, 4 air-ways can be changed to 3;  
With 2 PAC-SH51SP-E, 4 air-ways can be changed to 2;  
Changing to 1 way is not allowed.  
Material: Foamed polyethylene + foamed urethane, color: Black

|          |                 |             |  |
|----------|-----------------|-------------|--|
| Item     | ① Shutter plate | ② Insulator |  |
| Quantity | 2               | 1           |  |
| Shape    |                 |             |  |

Detailed installation information should be referred to its Installation Manual.

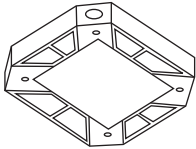
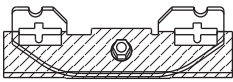
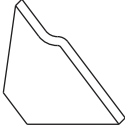
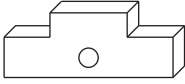


8-3. High efficiency filter element

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|
| Life span: 2,500 hr (Dust concentration 0.15mg/m³ ); Colorimetric method 65% (JIS 11 class); No re-production.<br>* The actual dust situation affects the filter life span, which should be considered at the applying site.<br>Material: Electrostatic polyolefin fiber<br>High efficiency filter element PAC-SH59KF-E should be used together with the Multi-function casement PAC-SH53TM-E. When using PAC-SH59KF-E, switching on SWC of the Indoor unit address board is needed. Details should be referred to its Installation Manual. |                                                                                   |  |
| Quantity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                                                 |  |
| Shape                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |

Detailed installation information is referred in its Installation Manual.

8-4. Multi-function casement

|                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                       |                                                                                                 |                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Multi-function casement is used for High efficiency filter element and/or fresh air intake from outdoor.<br>It should be used with High efficiency filter element PAC-SH59KF-E (Colorimetric method 65%).<br>Fresh air intake on the Multi-function casement is possible from any 2 or less corners among the 4 ones.<br>But duct and flange on the casement should be prepare locally. |                                                                                                       |                                                                                                 |                                                                                                    |
| Item                                                                                                                                                                                                                                                                                                                                                                                    | ① Multi-functional casement                                                                           | ② Screw with washer (black)                                                                     | ③ Screw                                                                                            |
| Quantity                                                                                                                                                                                                                                                                                                                                                                                | 1                                                                                                     | 4                                                                                               | 8                                                                                                  |
| Shape                                                                                                                                                                                                                                                                                                                                                                                   |                     | M5X0.8X25<br> | M5X0.8X12<br> |
| Item                                                                                                                                                                                                                                                                                                                                                                                    | ④ Decorative panel securing bracket                                                                   | ⑤ Insulator A for Decorative panel                                                              | ⑥ Insulator B for Decorative panel                                                                 |
| Quantity                                                                                                                                                                                                                                                                                                                                                                                | 4                                                                                                     | 1                                                                                               | 1                                                                                                  |
| Shape                                                                                                                                                                                                                                                                                                                                                                                   | With insulator<br> |              |               |

Detailed installation information should be referred to its Installation Manual.

PLFY-NCMU/NBMU

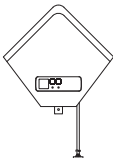


8-5. i-see sensor corner panel

|                                                                                                                                                                                                                                                                                                       |                                                                                   |                                                                                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|
| i-see sensor provides comfortable space as it detects the floor temperature to prevent spotty temperature.<br>And that enables the unit to save energy.<br>Attention<br>Make sure that there are no gaps between the unit and the grille, and the grille and ceiling.<br>※ It may cause dew dripping. |                                                                                   |                                                                                   |  |
| Item                                                                                                                                                                                                                                                                                                  | ① i-see sensor corner panel                                                       | ② Plastic fastener                                                                |  |
| Quantity                                                                                                                                                                                                                                                                                              | 1                                                                                 | 2                                                                                 |  |
| Shape                                                                                                                                                                                                                                                                                                 |  |  |  |

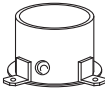
Detailed installation information should be referred to its Installation Manual.

8-6. Wireless signal receiver

|                                                                                                                                                                              |                                                                                    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|
| Using the wireless signal receiver to use wireless remote controller.<br>The corner panel(the other side of refrigerant piping) is changed for the wireless signal receiver. |                                                                                    |  |
| Item                                                                                                                                                                         | ① Wireless signal receiver                                                         |  |
| Quantity                                                                                                                                                                     | 1                                                                                  |  |
| Shape                                                                                                                                                                        |  |  |

Detailed installation information should be referred to its Installation Manual.

8-7. Flange for fresh air intake

|                                                                                                                                                                                                          |                                                                                     |                                                                                     |                                                                                             |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--|
| Using the flange for fresh air intake to connect to $\phi 100$ ( $\phi 3-15/16$ inch) duct.<br>The flange for fresh air intake is installed in the Multi-function casement(PAC-SH53TM-E) or indoor unit. |                                                                                     |                                                                                     |                                                                                             |  |
| Item                                                                                                                                                                                                     | ① Duct flange                                                                       | ② Insulator                                                                         | ③ Screw                                                                                     |  |
| Quantity                                                                                                                                                                                                 | 1                                                                                   | 1                                                                                   | 3                                                                                           |  |
| Shape                                                                                                                                                                                                    |  |  |  M4x10 |  |

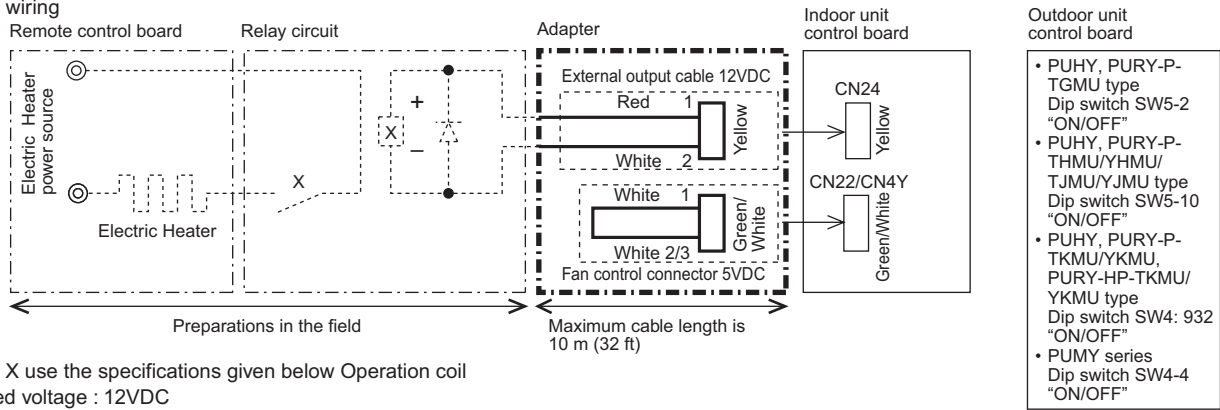
Detailed installation information should be referred to its Installation Manual.

8-8. External heater adapter

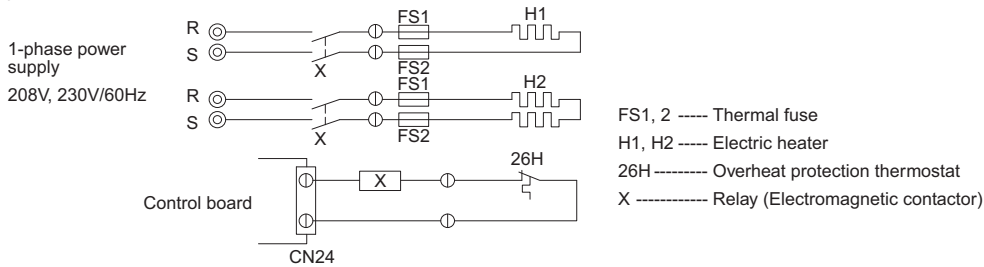
External heater adapter PAC-YU25HT is a set of special wiring parts for controlling the electric heater\* with the air conditioner system.  
\*The electric heater should be designed and prepared at the site.

A basic connection method is shown as follows:(For details, refer to its Installation Manual.)

(1) Basic wiring



(2) Recommended circuit



| Item     | ① External output cable | ② Connector (for use with the panel heater) |  |
|----------|-------------------------|---------------------------------------------|--|
| Quantity | 2                       | 3                                           |  |
| Shape    |                         |                                             |  |

Wiring details and Installation details should be referred to its Installation Manual.