

AIR CONDITIONING SYSTEMS

# CITY MULTI

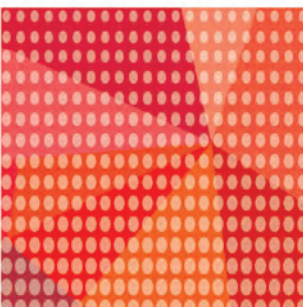


## DATA BOOK

MODEL

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**PEFY-P-VMA(L)-E3**



**PEFY-P-VMA(L)-E3**

|                                                       |    |
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# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-P-VMA(L)-E3

| Model                                            |                           | PEFY-P20VMA-E3                                                                                                                                                                                                                                                    | PEFY-P25VMA-E3                           | PEFY-P32VMA-E3                           | PEFY-P40VMA-E3                           |                                       |                    |
|--------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|---------------------------------------|--------------------|
| Power source                                     |                           | 1-phase 220-230-240 V 50 Hz                                                                                                                                                                                                                                       | 1-phase 220-230-240 V 50 Hz              | 1-phase 220-230-240 V 50 Hz              | 1-phase 220-230-240 V 50 Hz              |                                       |                    |
| Cooling capacity<br>(Nominal)                    | *1 kW                     | 2.2                                                                                                                                                                                                                                                               | 2.8                                      | 3.6                                      | 4.5                                      |                                       |                    |
|                                                  | *1 kcal/h                 | 1,900                                                                                                                                                                                                                                                             | 2,400                                    | 3,100                                    | 3,900                                    |                                       |                    |
|                                                  | *1 BTU/h                  | 7,500                                                                                                                                                                                                                                                             | 9,600                                    | 12,300                                   | 15,400                                   |                                       |                    |
|                                                  | *2 Power input kW         | 0.032                                                                                                                                                                                                                                                             | 0.032                                    | 0.044                                    | 0.047                                    |                                       |                    |
|                                                  | *2 Current input A        | 0.26-0.25-0.24                                                                                                                                                                                                                                                    | 0.26-0.25-0.24                           | 0.36-0.34-0.33                           | 0.39-0.37-0.36                           |                                       |                    |
| Heating capacity<br>(Nominal)                    | *3 kW                     | 2.5                                                                                                                                                                                                                                                               | 3.2                                      | 4.0                                      | 5.0                                      |                                       |                    |
|                                                  | *3 kcal/h                 | 2,200                                                                                                                                                                                                                                                             | 2,800                                    | 3,400                                    | 4,300                                    |                                       |                    |
|                                                  | *3 BTU/h                  | 8,500                                                                                                                                                                                                                                                             | 10,900                                   | 13,600                                   | 17,100                                   |                                       |                    |
|                                                  | *2 Power input kW         | 0.030                                                                                                                                                                                                                                                             | 0.030                                    | 0.042                                    | 0.045                                    |                                       |                    |
|                                                  | *2 Current input A        | 0.26-0.25-0.24                                                                                                                                                                                                                                                    | 0.26-0.25-0.24                           | 0.36-0.34-0.33                           | 0.39-0.37-0.36                           |                                       |                    |
| External finish                                  |                           | Galvanized steel plate                                                                                                                                                                                                                                            | Galvanized steel plate                   | Galvanized steel plate                   | Galvanized steel plate                   |                                       |                    |
| External dimension H x W x D                     |                           | mm                                                                                                                                                                                                                                                                | 250 x 700 x 732                          | 250 x 700 x 732                          | 250 x 700 x 732                          |                                       |                    |
|                                                  |                           | in.                                                                                                                                                                                                                                                               | 9-7/8 x 27-9/16 x 28-7/8                 | 9-7/8 x 27-9/16 x 28-7/8                 | 9-7/8 x 27-9/16 x 28-7/8                 | 9-7/8 x 35-7/16 x 28-7/8              |                    |
| Net weight                                       |                           | kg (lbs)                                                                                                                                                                                                                                                          | 21 (47)                                  | 21 (47)                                  | 21 (47)                                  |                                       |                    |
| Heat exchanger                                   |                           | Cross fin (Aluminum fin and copper tube)                                                                                                                                                                                                                          | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |                                       |                    |
| FAN                                              | Type x Quantity           |                                                                                                                                                                                                                                                                   | Sirocco fan x 1                          | Sirocco fan x 1                          | Sirocco fan x 1                          | Sirocco fan x 2                       |                    |
|                                                  | *4 External static press. | Pa                                                                                                                                                                                                                                                                | 35 - <50> - <70> - <100> - <150>         | 35 - <50> - <70> - <100> - <150>         | 35 - <50> - <70> - <100> - <150>         | 35 - <50> - <70> - <100> - <150>      |                    |
|                                                  |                           | mmH <sub>2</sub> O                                                                                                                                                                                                                                                | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>    | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>    | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>    | 3.6 - <5.1> - <7.1> - <10.2> - <15.3> |                    |
|                                                  | Motor Type                |                                                                                                                                                                                                                                                                   | DC motor                                 | DC motor                                 | DC motor                                 | DC motor                              |                    |
|                                                  | Motor output kW           |                                                                                                                                                                                                                                                                   | 0.085                                    | 0.085                                    | 0.085                                    | 0.121                                 |                    |
|                                                  | Driving mechanism         |                                                                                                                                                                                                                                                                   | Direct-driven by motor                   | Direct-driven by motor                   | Direct-driven by motor                   | Direct-driven by motor                |                    |
|                                                  | Air flow rate             |                                                                                                                                                                                                                                                                   | (Low-Mid-High)                           |                                          |                                          |                                       |                    |
|                                                  |                           |                                                                                                                                                                                                                                                                   | m <sup>3</sup> /min                      | 6.0 - 7.5 - 8.5                          | 6.0 - 7.5 - 8.5                          | 7.5 - 9.0 - 10.5                      | 10.0 - 12.0 - 14.0 |
|                                                  |                           |                                                                                                                                                                                                                                                                   | L/s                                      | 100 - 125 - 142                          | 100 - 125 - 142                          | 125 - 150 - 175                       | 167 - 200 - 233    |
|                                                  | cfm                       |                                                                                                                                                                                                                                                                   | 212 - 265 - 300                          | 212 - 265 - 300                          | 265 - 318 - 371                          | 353 - 424 - 494                       |                    |
| Sound pressure level (measured in anechoic room) |                           | (Low-Mid-High)                                                                                                                                                                                                                                                    |                                          |                                          |                                          |                                       |                    |
| *2, *5<br>*2, *6                                 |                           | dB <A>                                                                                                                                                                                                                                                            |                                          | 21-25-27                                 | 21-25-27                                 | 23-27-30                              | 23-28-31           |
|                                                  |                           | 18-22-24                                                                                                                                                                                                                                                          |                                          | 18-22-24                                 | 20-24-27                                 | 20-25-28                              |                    |
| Insulation material                              |                           | EPS, Polystyrene foam, Urethane foam                                                                                                                                                                                                                              | EPS, Polystyrene foam, Urethane foam     | EPS, Polystyrene foam, Urethane foam     | EPS, Polystyrene foam, Urethane foam     |                                       |                    |
| Air filter                                       |                           | PP honeycomb fabric.                                                                                                                                                                                                                                              | PP honeycomb fabric.                     | PP honeycomb fabric.                     | PP honeycomb fabric.                     |                                       |                    |
| Protection device                                |                           | Fuse                                                                                                                                                                                                                                                              | Fuse                                     | Fuse                                     | Fuse                                     |                                       |                    |
| Refrigerant control device                       |                           | LEV                                                                                                                                                                                                                                                               | LEV                                      | LEV                                      | LEV                                      |                                       |                    |
| Connectable outdoor unit                         |                           | R410A CITY MULTI                                                                                                                                                                                                                                                  | R410A CITY MULTI                         | R410A CITY MULTI                         | R410A CITY MULTI                         |                                       |                    |
| Refrigerant piping diameter                      | Liquid (R410A)            | mm (in.)                                                                                                                                                                                                                                                          | 6.35 (1/4)Braze                          | 6.35 (1/4)Braze                          | 6.35 (1/4)Braze                          | 6.35 (1/4)Braze                       |                    |
|                                                  | Gas (R410A)               | mm (in.)                                                                                                                                                                                                                                                          | 12.7 (1/2)Braze                          | 12.7 (1/2)Braze                          | 12.7 (1/2)Braze                          | 12.7 (1/2)Braze                       |                    |
| Field drain pipe size                            |                           | mm (in.)                                                                                                                                                                                                                                                          | O.D.32 (1-1/4")                          | O.D.32 (1-1/4")                          | O.D.32 (1-1/4")                          | O.D.32 (1-1/4")                       |                    |
| Drawing                                          | External                  |                                                                                                                                                                                                                                                                   | KL94R775                                 | KL94R775                                 | KL94R775                                 | KL94R775                              |                    |
|                                                  | Wiring                    |                                                                                                                                                                                                                                                                   | KL94R781                                 | KL94R781                                 | KL94R781                                 | KL94R781                              |                    |
|                                                  | Refrigerant cycle         |                                                                                                                                                                                                                                                                   | -                                        | -                                        | -                                        | -                                     |                    |
| Standard attachment                              | Document                  |                                                                                                                                                                                                                                                                   | Installation Manual, Instruction Book    | Installation Manual, Instruction Book    | Installation Manual, Instruction Book    | Installation Manual, Instruction Book |                    |
|                                                  | Accessory                 |                                                                                                                                                                                                                                                                   | Washer, Drain hose, Tie band             | Washer, Drain hose, Tie band             | Washer, Drain hose, Tie band             | Washer, Drain hose, Tie band          |                    |
| Optional parts                                   | Filter box                |                                                                                                                                                                                                                                                                   | PAC-KE91TB-E                             | PAC-KE91TB-E                             | PAC-KE91TB-E                             | PAC-KE92TB-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 specifications may be subject to change without notice. |                                          |                                          |                                          |                                       |                    |

| Notes:                                                                                                                                                                                                                                  | Unit converter                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1. Nominal cooling conditions<br>Indoor:27°CDB/19°CWB (81°FDB/66°FWB), Outdoor:35°CDB (95°FDB)<br>Pipe length:7.5m (24-9/16ft.), Level difference:0m (0ft.)                                                                             | kcal =kW x 860                                              |
| 2. The values are measured at the factory setting of external static pressure.                                                                                                                                                          | BTU/h =kW x 3,412                                           |
| 3. Nominal heating conditions<br>Indoor:20°CDB (68°FDB), Outdoor:7°CDB/6°CWB (45°FDB/43°FWB)<br>Pipe length:7.5m (24-9/16ft.), Level difference:0m (0ft.)                                                                               | cfm =m <sup>3</sup> /min x 35.31                            |
| 4. The factory setting of airflow mode and external static pressure mode is shown without < >.<br>Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate. | lbs =kg/0.4536                                              |
| 5. Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.                                                                                                           |                                                             |
| 6. Measured in anechoic room with a 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.                                                                                                           | *Above specification data is subject to rounding variation. |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-P-VMA(L)-E3

| Model                                            |                   |                        | PEFY-P50VMA-E3                                                                                                                                                                                                                                                    | PEFY-P63VMA-E3                           | PEFY-P71VMA-E3                           | PEFY-P80VMA-E3                           |                                       |
|--------------------------------------------------|-------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|---------------------------------------|
| Power source                                     |                   |                        | 1-phase 220-230-240 V 50 Hz                                                                                                                                                                                                                                       | 1-phase 220-230-240 V 50 Hz              | 1-phase 220-230-240 V 50 Hz              | 1-phase 220-230-240 V 50 Hz              |                                       |
| Cooling capacity<br>(Nominal)                    | *1                | kW                     | 5.6                                                                                                                                                                                                                                                               | 7.1                                      | 8.0                                      | 9.0                                      |                                       |
|                                                  |                   | kcal/h                 | 4,800                                                                                                                                                                                                                                                             | 6,100                                    | 6,900                                    | 7,700                                    |                                       |
|                                                  |                   | BTU/h                  | 19,100                                                                                                                                                                                                                                                            | 24,200                                   | 27,300                                   | 30,700                                   |                                       |
|                                                  | *2                | Power input            | kW                                                                                                                                                                                                                                                                | 0.066                                    | 0.087                                    | 0.080                                    | 0.080                                 |
|                                                  | *2                | Current input          | A                                                                                                                                                                                                                                                                 | 0.53-0.51-0.49                           | 0.69-0.66-0.63                           | 0.60-0.57-0.55                           | 0.60-0.57-0.55                        |
| Heating capacity<br>(Nominal)                    | *3                | kW                     | 6.3                                                                                                                                                                                                                                                               | 8.0                                      | 9.0                                      | 10.0                                     |                                       |
|                                                  |                   | kcal/h                 | 5,400                                                                                                                                                                                                                                                             | 6,900                                    | 7,700                                    | 8,600                                    |                                       |
|                                                  |                   | BTU/h                  | 21,500                                                                                                                                                                                                                                                            | 27,300                                   | 30,700                                   | 34,100                                   |                                       |
|                                                  | *2                | Power input            | kW                                                                                                                                                                                                                                                                | 0.064                                    | 0.085                                    | 0.078                                    | 0.078                                 |
|                                                  | *2                | Current input          | A                                                                                                                                                                                                                                                                 | 0.53-0.51-0.49                           | 0.69-0.66-0.63                           | 0.60-0.57-0.55                           | 0.60-0.57-0.55                        |
| External finish                                  |                   |                        | Galvanized steel plate                                                                                                                                                                                                                                            | Galvanized steel plate                   | Galvanized steel plate                   | Galvanized steel plate                   |                                       |
| External dimension H x W x D                     |                   |                        | mm                                                                                                                                                                                                                                                                | 250 x 900 x 732                          | 250 x 900 x 732                          | 250 x 1,100 x 732                        |                                       |
|                                                  |                   |                        | in.                                                                                                                                                                                                                                                               | 9-7/8 x 35-7/16 x 28-7/8                 | 9-7/8 x 35-7/16 x 28-7/8                 | 9-7/8 x 43-5/16 x 28-7/8                 | 9-7/8 x 43-5/16 x 28-7/8              |
| Net weight                                       |                   |                        | kg (lbs)                                                                                                                                                                                                                                                          | 25 (56)                                  | 27 (60)                                  | 30 (67)                                  |                                       |
| Heat exchanger                                   |                   |                        | Cross fin (Aluminum fin and copper tube)                                                                                                                                                                                                                          | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |                                       |
| FAN                                              | Type x Quantity   |                        | Sirocco fan x 2                                                                                                                                                                                                                                                   | Sirocco fan x 2                          | Sirocco fan x 2                          | Sirocco fan x 2                          |                                       |
|                                                  | *4                | External static press. | Pa                                                                                                                                                                                                                                                                | 35 - <50> - <70> - <100> - <150>         | 35 - <50> - <70> - <100> - <150>         | 40 - <50> - <70> - <100> - <150>         | 40 - <50> - <70> - <100> - <150>      |
|                                                  |                   |                        | mmH <sub>2</sub> O                                                                                                                                                                                                                                                | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>    | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>    | 4.1 - <5.1> - <7.1> - <10.2> - <15.3>    | 4.1 - <5.1> - <7.1> - <10.2> - <15.3> |
|                                                  | Motor Type        |                        | DC motor                                                                                                                                                                                                                                                          | DC motor                                 | DC motor                                 | DC motor                                 |                                       |
|                                                  | Motor output      |                        | kW                                                                                                                                                                                                                                                                | 0.121                                    | 0.121                                    | 0.121                                    | 0.121                                 |
|                                                  | Driving mechanism |                        | Direct-driven by motor                                                                                                                                                                                                                                            | Direct-driven by motor                   | Direct-driven by motor                   | Direct-driven by motor                   |                                       |
|                                                  | Air flow rate     |                        | (Low-Mid-High)                                                                                                                                                                                                                                                    | (Low-Mid-High)                           | (Low-Mid-High)                           | (Low-Mid-High)                           |                                       |
|                                                  |                   |                        | m <sup>3</sup> /min                                                                                                                                                                                                                                               | 12.0 - 14.5 - 17.0                       | 13.5 - 16.0 - 19.0                       | 14.5 - 18.0 - 21.0                       | 14.5 - 18.0 - 21.0                    |
|                                                  |                   |                        | L/s                                                                                                                                                                                                                                                               | 200 - 242 - 283                          | 225 - 267 - 317                          | 242 - 300 - 350                          | 242 - 300 - 350                       |
|                                                  |                   |                        | cfm                                                                                                                                                                                                                                                               | 424 - 512 - 600                          | 477 - 565 - 671                          | 512 - 636 - 742                          | 512 - 636 - 742                       |
| Sound pressure level (measured in anechoic room) |                   |                        | (Low-Mid-High)                                                                                                                                                                                                                                                    | (Low-Mid-High)                           | (Low-Mid-High)                           | (Low-Mid-High)                           |                                       |
|                                                  |                   | *2, *5                 | 24-31-34                                                                                                                                                                                                                                                          | 27-31-35                                 | 25-31-34                                 | 25-31-34                                 |                                       |
|                                                  |                   | *2, *6                 | 21-28-31                                                                                                                                                                                                                                                          | 24-28-32                                 | 22-28-31                                 | 22-28-31                                 |                                       |
| Insulation material                              |                   |                        | EPS, Polystyrene foam, Urethane foam                                                                                                                                                                                                                              | EPS, Polystyrene foam, Urethane foam     | EPS, Polystyrene foam, Urethane foam     | EPS, Polystyrene foam, Urethane foam     |                                       |
| Air filter                                       |                   |                        | PP honeycomb fabric.                                                                                                                                                                                                                                              | PP honeycomb fabric.                     | PP honeycomb fabric.                     | PP honeycomb fabric.                     |                                       |
| Protection device                                |                   |                        | Fuse                                                                                                                                                                                                                                                              | Fuse                                     | Fuse                                     | Fuse                                     |                                       |
| Refrigerant control device                       |                   |                        | LEV                                                                                                                                                                                                                                                               | LEV                                      | LEV                                      | LEV                                      |                                       |
| Connectable outdoor unit                         |                   |                        | R410A CITY MULTI                                                                                                                                                                                                                                                  | R410A CITY MULTI                         | R410A CITY MULTI                         | R410A CITY MULTI                         |                                       |
| Refrigerant piping diameter                      | Liquid (R410A)    | mm (in.)               | 6.35 (1/4)Brazed                                                                                                                                                                                                                                                  | 9.52 (3/8)Brazed                         | 9.52 (3/8)Brazed                         | 9.52 (3/8)Brazed                         |                                       |
|                                                  | Gas (R410A)       | mm (in.)               | 12.7 (1/2)Brazed                                                                                                                                                                                                                                                  | 15.88 (5/8)Brazed                        | 15.88 (5/8)Brazed                        | 15.88 (5/8)Brazed                        |                                       |
| Field drain pipe size                            |                   | mm (in.)               | O.D.32 (1-1/4")                                                                                                                                                                                                                                                   | O.D.32 (1-1/4")                          | O.D.32 (1-1/4")                          | O.D.32 (1-1/4")                          |                                       |
| Drawing                                          | External          |                        | KL94R775                                                                                                                                                                                                                                                          | KL94R775                                 | KL94R775                                 | KL94R775                                 |                                       |
|                                                  | Wiring            |                        | KL94R781                                                                                                                                                                                                                                                          | KL94R781                                 | KL94R781                                 | KL94R781                                 |                                       |
|                                                  | Refrigerant cycle |                        | -                                                                                                                                                                                                                                                                 | -                                        | -                                        | -                                        |                                       |
| Standard attachment                              | Document          |                        | Installation Manual, Instruction Book                                                                                                                                                                                                                             | Installation Manual, Instruction Book    | Installation Manual, Instruction Book    | Installation Manual, Instruction Book    |                                       |
|                                                  | Accessory         |                        | Washer, Drain hose, Tie band                                                                                                                                                                                                                                      | Washer, Drain hose, Tie band             | Washer, Drain hose, Tie band             | Washer, Drain hose, Tie band             |                                       |
| Optional parts                                   |                   | Filter box             | PAC-KE92TB-E                                                                                                                                                                                                                                                      | PAC-KE92TB-E                             | PAC-KE93TB-E                             | PAC-KE93TB-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 specifications may be subject to change without notice. |                                          |                                          |                                          |                                       |

| Notes:                                                                                                                                                                                                                                  | Unit converter                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1.Nominal cooling conditions<br>Indoor:27°CDB/19°CWB (81°FDB/66°FWB), Outdoor:35°CDB (95°FDB)<br>Pipe length:7.5m (24-9/16ft.), Level difference:0m (0ft.)                                                                              | kcal =kW x 860                                              |
| 2.The values are measured at the factory setting of external static pressure.                                                                                                                                                           | BTU/h =kW x 3,412                                           |
| 3.Nominal heating conditions<br>Indoor:20°CDB (68°FDB), Outdoor:7°CDB/6°CWB (45°FDB/43°FWB)<br>Pipe length:7.5m (24-9/16ft.), Level difference:0m (0ft.)                                                                                | cfm =m <sup>3</sup> /min x 35.31                            |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < > .<br>Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate. | lbs =kg/0.4536                                              |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.                                                                                                            |                                                             |
| 6.Measured in anechoic room with a 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.                                                                                                            | *Above specification data is subject to rounding variation. |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-P-VMA(L)E3

| Model                                            |                   |                        | PEFY-P100VMA-E3                                                                                                                                                                                                                                                   | PEFY-P125VMA-E3                          | PEFY-P140VMA-E3                          |                                       |
|--------------------------------------------------|-------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|---------------------------------------|
| Power source                                     |                   |                        | 1-phase 220-230-240 V 50 Hz                                                                                                                                                                                                                                       | 1-phase 220-230-240 V 50 Hz              | 1-phase 220-230-240 V 50 Hz              |                                       |
| Cooling capacity<br>(Nominal)                    | *1                | kW                     | 11.2                                                                                                                                                                                                                                                              | 14.0                                     | 16.0                                     |                                       |
|                                                  | *1                | kcal/h                 | 9,600                                                                                                                                                                                                                                                             | 12,000                                   | 13,800                                   |                                       |
|                                                  | *1                | BTU/h                  | 38,200                                                                                                                                                                                                                                                            | 47,800                                   | 54,600                                   |                                       |
|                                                  | *2                | Power input            | kW                                                                                                                                                                                                                                                                | 0.142                                    | 0.199                                    | 0.208                                 |
|                                                  | *2                | Current input          | A                                                                                                                                                                                                                                                                 | 1.01-0.97-0.93                           | 1.29-1.23-1.18                           | 1.40-1.34-1.28                        |
| Heating capacity<br>(Nominal)                    | *3                | kW                     | 12.5                                                                                                                                                                                                                                                              | 16.0                                     | 18.0                                     |                                       |
|                                                  | *3                | kcal/h                 | 10,800                                                                                                                                                                                                                                                            | 13,800                                   | 15,500                                   |                                       |
|                                                  | *3                | BTU/h                  | 42,700                                                                                                                                                                                                                                                            | 54,600                                   | 61,400                                   |                                       |
|                                                  | *2                | Power input            | kW                                                                                                                                                                                                                                                                | 0.140                                    | 0.197                                    | 0.206                                 |
|                                                  | *2                | Current input          | A                                                                                                                                                                                                                                                                 | 1.01-0.97-0.93                           | 1.29-1.23-1.18                           | 1.40-1.34-1.28                        |
| External finish                                  |                   |                        | Galvanized steel plate                                                                                                                                                                                                                                            | Galvanized steel plate                   | Galvanized steel plate                   |                                       |
| External dimension H x W x D                     |                   |                        | mm                                                                                                                                                                                                                                                                | 250 x 1,400 x 732                        | 250 x 1,400 x 732                        |                                       |
|                                                  |                   |                        | in.                                                                                                                                                                                                                                                               | 9-7/8 x 55-1/8 x 28-7/8                  | 9-7/8 x 55-1/8 x 28-7/8                  |                                       |
| Net weight                                       |                   |                        | kg (lbs)                                                                                                                                                                                                                                                          | 37 (82)                                  | 38 (84)                                  |                                       |
| Heat exchanger                                   |                   |                        | Cross fin (Aluminum fin and copper tube)                                                                                                                                                                                                                          | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |                                       |
| FAN                                              | Type x Quantity   |                        | Sirocco fan x 3                                                                                                                                                                                                                                                   | Sirocco fan x 3                          | Sirocco fan x 3                          |                                       |
|                                                  | *4                | External static press. | Pa                                                                                                                                                                                                                                                                | 40 - <50> - <70> - <100> - <150>         | <40> - 50 - <70> - <100> - <150>         | <40> - 50 - <70> - <100> - <150>      |
|                                                  |                   |                        | mmH <sub>2</sub> O                                                                                                                                                                                                                                                | 4.1 - <5.1> - <7.1> - <10.2> - <15.3>    | <4.1> - 5.1 - <7.1> - <10.2> - <15.3>    | <4.1> - 5.1 - <7.1> - <10.2> - <15.3> |
|                                                  | Motor Type        |                        | DC motor                                                                                                                                                                                                                                                          | DC motor                                 | DC motor                                 |                                       |
|                                                  | Motor output      |                        | kW                                                                                                                                                                                                                                                                | 0.300                                    | 0.300                                    | 0.300                                 |
|                                                  | Driving mechanism |                        | Direct-driven by motor                                                                                                                                                                                                                                            | Direct-driven by motor                   | Direct-driven by motor                   |                                       |
|                                                  | Air flow rate     |                        | (Low-Mid-High)                                                                                                                                                                                                                                                    |                                          |                                          |                                       |
|                                                  |                   |                        | m <sup>3</sup> /min                                                                                                                                                                                                                                               | 23.0 - 28.0 - 32.0                       | 28.0 - 34.0 - 37.0                       | 29.5 - 35.5 - 40.0                    |
|                                                  |                   |                        | L/s                                                                                                                                                                                                                                                               | 383 - 467 - 533                          | 467 - 567 - 617                          | 492 - 592 - 667                       |
|                                                  |                   |                        | cfm                                                                                                                                                                                                                                                               | 812 - 989 - 1,130                        | 989 - 1,201 - 1,306                      | 1,042 - 1,254 - 1,412                 |
| Sound pressure level (measured in anechoic room) |                   |                        | (Low-Mid-High)                                                                                                                                                                                                                                                    |                                          |                                          |                                       |
|                                                  |                   | *2, *5<br>*2, *6       | dB <A>                                                                                                                                                                                                                                                            | 30-35-38                                 | 34-38-40                                 | 33-37-40                              |
|                                                  |                   |                        |                                                                                                                                                                                                                                                                   | 27-32-35                                 | 31-35-37                                 | 30-34-37                              |
| Insulation material                              |                   |                        | EPS, Polystyrene foam, Urethane foam                                                                                                                                                                                                                              | EPS, Polystyrene foam, Urethane foam     | EPS, Polystyrene foam, Urethane foam     |                                       |
| Air filter                                       |                   |                        | PP honeycomb fabric.                                                                                                                                                                                                                                              | PP honeycomb fabric.                     | PP honeycomb fabric.                     |                                       |
| Protection device                                |                   |                        | Fuse                                                                                                                                                                                                                                                              | Fuse                                     | Fuse                                     |                                       |
| Refrigerant control device                       |                   |                        | LEV                                                                                                                                                                                                                                                               | LEV                                      | LEV                                      |                                       |
| Connectable outdoor unit                         |                   |                        | R410A CITY MULTI                                                                                                                                                                                                                                                  | R410A CITY MULTI                         | R410A CITY MULTI                         |                                       |
| Refrigerant piping diameter                      | Liquid (R410A)    | mm (in.)               | 9.52 (3/8)Braze                                                                                                                                                                                                                                                   | 9.52 (3/8)Braze                          | 9.52 (3/8)Braze                          |                                       |
|                                                  | Gas (R410A)       | mm (in.)               | 15.88 (5/8)Braze                                                                                                                                                                                                                                                  | 15.88 (5/8)Braze                         | 15.88 (5/8)Braze                         |                                       |
| Field drain pipe size                            |                   |                        | mm (in.)                                                                                                                                                                                                                                                          | O.D.32 (1-1/4")                          | O.D.32 (1-1/4")                          |                                       |
| Drawing                                          | External          |                        | KL94R775                                                                                                                                                                                                                                                          | KL94R775                                 | KL94R775                                 |                                       |
|                                                  | Wiring            |                        | KL94R781                                                                                                                                                                                                                                                          | KL94R781                                 | KL94R781                                 |                                       |
|                                                  | Refrigerant cycle |                        | -                                                                                                                                                                                                                                                                 | -                                        | -                                        |                                       |
| Standard attachment                              | Document          |                        | Installation Manual, Instruction Book                                                                                                                                                                                                                             | Installation Manual, Instruction Book    | Installation Manual, Instruction Book    |                                       |
|                                                  | Accessory         |                        | Washer, Drain hose, Tie band                                                                                                                                                                                                                                      | Washer, Drain hose, Tie band             | Washer, Drain hose, Tie band             |                                       |
| Optional parts                                   |                   |                        | Filter box                                                                                                                                                                                                                                                        | PAC-KE94TB-E                             | PAC-KE95TB-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 specifications may be subject to change without notice. |                                          |                                          |                                       |

| Notes:                                                                                                                                                                                                                                   | Unit converter                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1. Nominal cooling conditions<br>Indoor: 27°CDB/19°CWB (81°FDB/66°F WB), Outdoor: 35°CDB (95°FDB)<br>Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)                                                                         | kcal =kW x 860                                              |
| 2. The values are measured at the factory setting of external static pressure.                                                                                                                                                           | BTU/h =kW x 3,412                                           |
| 3. Nominal heating conditions<br>Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°F WB)<br>Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)                                                                           | cfm =m <sup>3</sup> /min x 35.31                            |
| 4. The factory setting of airflow mode and external static pressure mode is shown without < > .<br>Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate. | lbs =kg/0.4536                                              |
| 5. Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.                                                                                                            | *Above specification data is subject to rounding variation. |
| 6. Measured in anechoic room with a 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.                                                                                                            |                                                             |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-P-VMAL(L)-E3

| Model                                            |                   |                        | PEFY-P20VMAL-E3                                                                                                                                                                                                                                                   | PEFY-P25VMAL-E3                          | PEFY-P32VMAL-E3                          | PEFY-P40VMAL-E3                          |                                       |
|--------------------------------------------------|-------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|---------------------------------------|
| Power source                                     |                   |                        | 1-phase 220-230-240 V 50 Hz                                                                                                                                                                                                                                       | 1-phase 220-230-240 V 50 Hz              | 1-phase 220-230-240 V 50 Hz              | 1-phase 220-230-240 V 50 Hz              |                                       |
| Cooling capacity<br>(Nominal)                    | *1                | kW                     | 2.2                                                                                                                                                                                                                                                               | 2.8                                      | 3.6                                      | 4.5                                      |                                       |
|                                                  |                   | kcal/h                 | 1,900                                                                                                                                                                                                                                                             | 2,400                                    | 3,100                                    | 3,900                                    |                                       |
|                                                  |                   | BTU/h                  | 7,500                                                                                                                                                                                                                                                             | 9,600                                    | 12,300                                   | 15,400                                   |                                       |
|                                                  | *2                | Power input            | kW                                                                                                                                                                                                                                                                | 0.030                                    | 0.030                                    | 0.042                                    | 0.045                                 |
|                                                  | *2                | Current input          | A                                                                                                                                                                                                                                                                 | 0.26-0.25-0.24                           | 0.26-0.25-0.24                           | 0.36-0.34-0.33                           | 0.39-0.37-0.36                        |
| Heating capacity<br>(Nominal)                    | *3                | kW                     | 2.5                                                                                                                                                                                                                                                               | 3.2                                      | 4.0                                      | 5.0                                      |                                       |
|                                                  |                   | kcal/h                 | 2,200                                                                                                                                                                                                                                                             | 2,800                                    | 3,400                                    | 4,300                                    |                                       |
|                                                  |                   | BTU/h                  | 8,500                                                                                                                                                                                                                                                             | 10,900                                   | 13,600                                   | 17,100                                   |                                       |
|                                                  | *2                | Power input            | kW                                                                                                                                                                                                                                                                | 0.030                                    | 0.030                                    | 0.042                                    | 0.045                                 |
|                                                  | *2                | Current input          | A                                                                                                                                                                                                                                                                 | 0.26-0.25-0.24                           | 0.26-0.25-0.24                           | 0.36-0.34-0.33                           | 0.39-0.37-0.36                        |
| External finish                                  |                   |                        | Galvanized steel plate                                                                                                                                                                                                                                            | Galvanized steel plate                   | Galvanized steel plate                   | Galvanized steel plate                   |                                       |
| External dimension H x W x D                     |                   |                        | mm                                                                                                                                                                                                                                                                | 250 x 700 x 732                          | 250 x 700 x 732                          | 250 x 700 x 732                          | 250 x 900 x 732                       |
|                                                  |                   |                        | in.                                                                                                                                                                                                                                                               | 9-7/8 x 27-9/16 x 28-7/8                 | 9-7/8 x 27-9/16 x 28-7/8                 | 9-7/8 x 27-9/16 x 28-7/8                 | 9-7/8 x 35-7/16 x 28-7/8              |
| Net weight                                       |                   |                        | kg (lbs)                                                                                                                                                                                                                                                          | 20 (45)                                  | 20 (45)                                  | 20 (45)                                  | 24 (53)                               |
| Heat exchanger                                   |                   |                        | Cross fin (Aluminum fin and copper tube)                                                                                                                                                                                                                          | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |                                       |
| FAN                                              | Type x Quantity   |                        | Sirocco fan x 1                                                                                                                                                                                                                                                   | Sirocco fan x 1                          | Sirocco fan x 1                          | Sirocco fan x 2                          |                                       |
|                                                  | *4                | External static press. | Pa                                                                                                                                                                                                                                                                | 35 - <50> - <70> - <100> - <150>         | 35 - <50> - <70> - <100> - <150>         | 35 - <50> - <70> - <100> - <150>         | 35 - <50> - <70> - <100> - <150>      |
|                                                  |                   |                        | mmH <sub>2</sub> O                                                                                                                                                                                                                                                | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>    | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>    | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>    | 3.6 - <5.1> - <7.1> - <10.2> - <15.3> |
|                                                  | Motor Type        |                        | DC motor                                                                                                                                                                                                                                                          | DC motor                                 | DC motor                                 | DC motor                                 |                                       |
|                                                  | Motor output      |                        | kW                                                                                                                                                                                                                                                                | 0.085                                    | 0.085                                    | 0.085                                    | 0.121                                 |
|                                                  | Driving mechanism |                        | Direct-driven by motor                                                                                                                                                                                                                                            | Direct-driven by motor                   | Direct-driven by motor                   | Direct-driven by motor                   |                                       |
|                                                  | Air flow rate     |                        | (Low-Mid-High)                                                                                                                                                                                                                                                    |                                          | (Low-Mid-High)                           | (Low-Mid-High)                           | (Low-Mid-High)                        |
|                                                  |                   |                        | m <sup>3</sup> /min                                                                                                                                                                                                                                               | 6.0 - 7.5 - 8.5                          | 6.0 - 7.5 - 8.5                          | 7.5 - 9.0 - 10.5                         | 10.0 - 12.0 - 14.0                    |
|                                                  |                   |                        | L/s                                                                                                                                                                                                                                                               | 100 - 125 - 142                          | 100 - 125 - 142                          | 125 - 150 - 175                          | 167 - 200 - 233                       |
|                                                  |                   |                        | cfm                                                                                                                                                                                                                                                               | 212 - 265 - 300                          | 212 - 265 - 300                          | 265 - 318 - 371                          | 353 - 424 - 494                       |
| Sound pressure level (measured in anechoic room) |                   |                        | (Low-Mid-High)                                                                                                                                                                                                                                                    | (Low-Mid-High)                           | (Low-Mid-High)                           | (Low-Mid-High)                           |                                       |
|                                                  |                   | *2, *5                 | dB <A>                                                                                                                                                                                                                                                            | 21-25-27                                 | 21-25-27                                 | 23-27-30                                 | 23-28-31                              |
|                                                  |                   | *2, *6                 | dB <A>                                                                                                                                                                                                                                                            | 18-22-24                                 | 18-22-24                                 | 20-24-27                                 | 20-25-28                              |
| Insulation material                              |                   |                        | EPS, Polystyrene foam, Urethane foam                                                                                                                                                                                                                              | EPS, Polystyrene foam, Urethane foam     | EPS, Polystyrene foam, Urethane foam     | EPS, Polystyrene foam, Urethane foam     |                                       |
| Air filter                                       |                   |                        | PP honeycomb fabric.                                                                                                                                                                                                                                              | PP honeycomb fabric.                     | PP honeycomb fabric.                     | PP honeycomb fabric.                     |                                       |
| Protection device                                |                   |                        | Fuse                                                                                                                                                                                                                                                              | Fuse                                     | Fuse                                     | Fuse                                     |                                       |
| Refrigerant control device                       |                   |                        | LEV                                                                                                                                                                                                                                                               | LEV                                      | LEV                                      | LEV                                      |                                       |
| Connectable outdoor unit                         |                   |                        | R410A CITY MULTI                                                                                                                                                                                                                                                  | R410A CITY MULTI                         | R410A CITY MULTI                         | R410A CITY MULTI                         |                                       |
| Refrigerant piping diameter                      | Liquid (R410A)    | mm (in.)               | 6.35 (1/4)Braze                                                                                                                                                                                                                                                   | 6.35 (1/4)Braze                          | 6.35 (1/4)Braze                          | 6.35 (1/4)Braze                          |                                       |
|                                                  | Gas (R410A)       | mm (in.)               | 12.7 (1/2)Braze                                                                                                                                                                                                                                                   | 12.7 (1/2)Braze                          | 12.7 (1/2)Braze                          | 12.7 (1/2)Braze                          |                                       |
| Field drain pipe size                            |                   | mm (in.)               | O.D.32 (1-1/4")                                                                                                                                                                                                                                                   | O.D.32 (1-1/4")                          | O.D.32 (1-1/4")                          | O.D.32 (1-1/4")                          |                                       |
| Drawing                                          | External          |                        | KL94R776                                                                                                                                                                                                                                                          | KL94R776                                 | KL94R776                                 | KL94R776                                 |                                       |
|                                                  | Wiring            |                        | KL94R781                                                                                                                                                                                                                                                          | KL94R781                                 | KL94R781                                 | KL94R781                                 |                                       |
|                                                  | Refrigerant cycle |                        | -                                                                                                                                                                                                                                                                 | -                                        | -                                        | -                                        |                                       |
| Standard attachment                              | Document          |                        | Installation Manual, Instruction Book                                                                                                                                                                                                                             | Installation Manual, Instruction Book    | Installation Manual, Instruction Book    | Installation Manual, Instruction Book    |                                       |
|                                                  | Accessory         |                        | Washer, Drain hose, Tie band                                                                                                                                                                                                                                      | Washer, Drain hose, Tie band             | Washer, Drain hose, Tie band             | Washer, Drain hose, Tie band             |                                       |
| Optional parts                                   | Filter box        |                        | PAC-KE91TB-E                                                                                                                                                                                                                                                      | PAC-KE91TB-E                             | PAC-KE91TB-E                             | PAC-KE92TB-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 specifications may be subject to change without notice. |                                          |                                          |                                          |                                       |

| Notes:                                                                                                                                                                                                                                  | Unit converter                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1.Nominal cooling conditions<br>Indoor:27°CDB/19°CWB (81°FDB/66°FWB), Outdoor:35°CDB (95°FDB)<br>Pipe length:7.5m (24-9/16ft.), Level difference:0m (0ft.)                                                                              | kcal =kW x 860                                              |
| 2.The values are measured at the factory setting of external static pressure.                                                                                                                                                           | BTU/h =kW x 3,412                                           |
| 3.Nominal heating conditions<br>Indoor:20°CDB (68°FDB), Outdoor:7°CDB/6°CWB (45°FDB/43°FWB)<br>Pipe length:7.5m (24-9/16ft.), Level difference:0m (0ft.)                                                                                | cfm =m <sup>3</sup> /min x 35.31                            |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < > .<br>Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate. | lbs =kg/0.4536                                              |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.                                                                                                            |                                                             |
| 6.Measured in anechoic room with a 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.                                                                                                            | *Above specification data is subject to rounding variation. |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-P-VMA(L)E3

| Model                                            |                   |                        | PEFY-P50VMAL-E3                                                                                                                                                                                                                                                   | PEFY-P63VMAL-E3                          | PEFY-P71VMAL-E3                          | PEFY-P80VMAL-E3                          |                                       |
|--------------------------------------------------|-------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|---------------------------------------|
| Power source                                     |                   |                        | 1-phase 220-230-240 V 50 Hz                                                                                                                                                                                                                                       | 1-phase 220-230-240 V 50 Hz              | 1-phase 220-230-240 V 50 Hz              | 1-phase 220-230-240 V 50 Hz              |                                       |
| Cooling capacity<br>(Nominal)                    | *1                | kW                     | 5.6                                                                                                                                                                                                                                                               | 7.1                                      | 8.0                                      | 9.0                                      |                                       |
|                                                  | *1                | kcal/h                 | 4,800                                                                                                                                                                                                                                                             | 6,100                                    | 6,900                                    | 7,700                                    |                                       |
|                                                  | *1                | BTU/h                  | 19,100                                                                                                                                                                                                                                                            | 24,200                                   | 27,300                                   | 30,700                                   |                                       |
|                                                  | *2                | Power input            | kW                                                                                                                                                                                                                                                                | 0.064                                    | 0.085                                    | 0.078                                    | 0.078                                 |
|                                                  | *2                | Current input          | A                                                                                                                                                                                                                                                                 | 0.53-0.51-0.49                           | 0.69-0.66-0.63                           | 0.60-0.57-0.55                           | 0.60-0.57-0.55                        |
| Heating capacity<br>(Nominal)                    | *3                | kW                     | 6.3                                                                                                                                                                                                                                                               | 8.0                                      | 9.0                                      | 10.0                                     |                                       |
|                                                  | *3                | kcal/h                 | 5,400                                                                                                                                                                                                                                                             | 6,900                                    | 7,700                                    | 8,600                                    |                                       |
|                                                  | *3                | BTU/h                  | 21,500                                                                                                                                                                                                                                                            | 27,300                                   | 30,700                                   | 34,100                                   |                                       |
|                                                  | *2                | Power input            | kW                                                                                                                                                                                                                                                                | 0.064                                    | 0.085                                    | 0.078                                    | 0.078                                 |
|                                                  | *2                | Current input          | A                                                                                                                                                                                                                                                                 | 0.53-0.51-0.49                           | 0.69-0.66-0.63                           | 0.60-0.57-0.55                           | 0.60-0.57-0.55                        |
| External finish                                  |                   |                        | Galvanized steel plate                                                                                                                                                                                                                                            | Galvanized steel plate                   | Galvanized steel plate                   | Galvanized steel plate                   |                                       |
| External dimension H x W x D                     |                   |                        | mm                                                                                                                                                                                                                                                                | 250 x 900 x 732                          | 250 x 900 x 732                          | 250 x 1,100 x 732                        |                                       |
|                                                  |                   |                        | in.                                                                                                                                                                                                                                                               | 9-7/8 x 35-7/16 x 28-7/8                 | 9-7/8 x 35-7/16 x 28-7/8                 | 9-7/8 x 43-5/16 x 28-7/8                 | 9-7/8 x 43-5/16 x 28-7/8              |
| Net weight                                       |                   |                        | kg (lbs)                                                                                                                                                                                                                                                          | 24 (53)                                  | 26 (58)                                  | 29 (64)                                  |                                       |
| Heat exchanger                                   |                   |                        | Cross fin (Aluminum fin and copper tube)                                                                                                                                                                                                                          | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |                                       |
| FAN                                              | Type x Quantity   |                        | Sirocco fan x 2                                                                                                                                                                                                                                                   | Sirocco fan x 2                          | Sirocco fan x 2                          | Sirocco fan x 2                          |                                       |
|                                                  | *4                | External static press. | Pa                                                                                                                                                                                                                                                                | 35 - <50> - <70> - <100> - <150>         | 35 - <50> - <70> - <100> - <150>         | 40 - <50> - <70> - <100> - <150>         | 40 - <50> - <70> - <100> - <150>      |
|                                                  |                   |                        | mmH <sub>2</sub> O                                                                                                                                                                                                                                                | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>    | 3.6 - <5.1> - <7.1> - <10.2> - <15.3>    | 4.1 - <5.1> - <7.1> - <10.2> - <15.3>    | 4.1 - <5.1> - <7.1> - <10.2> - <15.3> |
|                                                  | Motor Type        |                        | DC motor                                                                                                                                                                                                                                                          | DC motor                                 | DC motor                                 | DC motor                                 |                                       |
|                                                  | Motor output      |                        | kW                                                                                                                                                                                                                                                                | 0.121                                    | 0.121                                    | 0.121                                    | 0.121                                 |
|                                                  | Driving mechanism |                        | Direct-driven by motor                                                                                                                                                                                                                                            | Direct-driven by motor                   | Direct-driven by motor                   | Direct-driven by motor                   |                                       |
|                                                  | Air flow rate     |                        | (Low-Mid-High)                                                                                                                                                                                                                                                    |                                          |                                          |                                          |                                       |
|                                                  |                   |                        | m <sup>3</sup> /min                                                                                                                                                                                                                                               | 12.0 - 14.5 - 17.0                       | 13.5 - 16.0 - 19.0                       | 14.5 - 18.0 - 21.0                       | 14.5 - 18.0 - 21.0                    |
|                                                  |                   |                        | L/s                                                                                                                                                                                                                                                               | 200 - 242 - 283                          | 225 - 267 - 317                          | 242 - 300 - 350                          | 242 - 300 - 350                       |
|                                                  | cfm               |                        | 424 - 512 - 600                                                                                                                                                                                                                                                   | 477 - 565 - 671                          | 512 - 636 - 742                          | 512 - 636 - 742                          |                                       |
| Sound pressure level (measured in anechoic room) |                   |                        | (Low-Mid-High)                                                                                                                                                                                                                                                    |                                          |                                          |                                          |                                       |
| *2, *5                                           |                   | dB <A>                 | 24-31-34                                                                                                                                                                                                                                                          | 27-31-35                                 | 25-31-34                                 | 25-31-34                                 |                                       |
|                                                  |                   |                        | *2, *6                                                                                                                                                                                                                                                            | 21-28-31                                 | 24-28-32                                 | 22-28-31                                 | 22-28-31                              |
| Insulation material                              |                   |                        | EPS, Polystyrene foam, Urethane foam                                                                                                                                                                                                                              | EPS, Polystyrene foam, Urethane foam     | EPS, Polystyrene foam, Urethane foam     | EPS, Polystyrene foam, Urethane foam     |                                       |
| Air filter                                       |                   |                        | PP honeycomb fabric.                                                                                                                                                                                                                                              | PP honeycomb fabric.                     | PP honeycomb fabric.                     | PP honeycomb fabric.                     |                                       |
| Protection device                                |                   |                        | Fuse                                                                                                                                                                                                                                                              | Fuse                                     | Fuse                                     | Fuse                                     |                                       |
| Refrigerant control device                       |                   |                        | LEV                                                                                                                                                                                                                                                               | LEV                                      | LEV                                      | LEV                                      |                                       |
| Connectable outdoor unit                         |                   |                        | R410A CITY MULTI                                                                                                                                                                                                                                                  | R410A CITY MULTI                         | R410A CITY MULTI                         | R410A CITY MULTI                         |                                       |
| Refrigerant piping diameter                      | Liquid (R410A)    | mm (in.)               | 6.35 (1/4)Braze                                                                                                                                                                                                                                                   | 9.52 (3/8)Braze                          | 9.52 (3/8)Braze                          | 9.52 (3/8)Braze                          |                                       |
|                                                  | Gas (R410A)       | mm (in.)               | 12.7 (1/2)Braze                                                                                                                                                                                                                                                   | 15.88 (5/8)Braze                         | 15.88 (5/8)Braze                         | 15.88 (5/8)Braze                         |                                       |
| Field drain pipe size                            |                   |                        | mm (in.)                                                                                                                                                                                                                                                          | O.D.32 (1-1/4")                          | O.D.32 (1-1/4")                          | O.D.32 (1-1/4")                          |                                       |
| Drawing                                          | External          |                        | KL94R776                                                                                                                                                                                                                                                          | KL94R776                                 | KL94R776                                 | KL94R776                                 |                                       |
|                                                  | Wiring            |                        | KL94R781                                                                                                                                                                                                                                                          | KL94R781                                 | KL94R781                                 | KL94R781                                 |                                       |
|                                                  | Refrigerant cycle |                        | -                                                                                                                                                                                                                                                                 | -                                        | -                                        | -                                        |                                       |
| Standard attachment                              | Document          |                        | Installation Manual, Instruction Book                                                                                                                                                                                                                             | Installation Manual, Instruction Book    | Installation Manual, Instruction Book    | Installation Manual, Instruction Book    |                                       |
|                                                  | Accessory         |                        | Washer, Drain hose, Tie band                                                                                                                                                                                                                                      | Washer, Drain hose, Tie band             | Washer, Drain hose, Tie band             | Washer, Drain hose, Tie band             |                                       |
| Optional parts                                   |                   |                        | Filter box                                                                                                                                                                                                                                                        | PAC-KE92TB-E                             | PAC-KE93TB-E                             | PAC-KE93TB-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 specifications may be subject to change without notice. |                                          |                                          |                                          |                                       |

| Notes:                                                                                                                                                                                                                                  | Unit converter                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1. Nominal cooling conditions<br>Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)<br>Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)                                                                         | kcal = kW x 860                                             |
| 2. The values are measured at the factory setting of external static pressure.                                                                                                                                                          | BTU/h = kW x 3,412                                          |
| 3. Nominal heating conditions<br>Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)<br>Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)                                                                           | cfm = m <sup>3</sup> /min x 35.31                           |
| 4. The factory setting of airflow mode and external static pressure mode is shown without < >.<br>Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate. | lbs = kg/0.4536                                             |
| 5. Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.                                                                                                           | *Above specification data is subject to rounding variation. |
| 6. Measured in anechoic room with a 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.                                                                                                           |                                                             |

# 1. SPECIFICATIONS

Ceiling concealed (Medium static pressure type)

PEFY-P-VMAL(E)-E3

| Model                                            |                        |                     | PEFY-P100VMAL-E3                                                                                                                                                                                                                                                  | PEFY-P125VMAL-E3                         | PEFY-P140VMAL-E3                         |                |
|--------------------------------------------------|------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|----------------|
| Power source                                     |                        |                     | 1-phase 220-230-240 V 50 Hz                                                                                                                                                                                                                                       | 1-phase 220-230-240 V 50 Hz              | 1-phase 220-230-240 V 50 Hz              |                |
| Cooling capacity<br>(Nominal)                    | *1                     | kW                  | 11.2                                                                                                                                                                                                                                                              | 14.0                                     | 16.0                                     |                |
|                                                  | *1                     | kcal/h              | 9,600                                                                                                                                                                                                                                                             | 12,000                                   | 13,800                                   |                |
|                                                  | *1                     | BTU/h               | 38,200                                                                                                                                                                                                                                                            | 47,800                                   | 54,600                                   |                |
|                                                  | *2                     | Power input         | kW                                                                                                                                                                                                                                                                | 0.140                                    | 0.197                                    | 0.206          |
|                                                  | *2                     | Current input       | A                                                                                                                                                                                                                                                                 | 1.01-0.97-0.93                           | 1.29-1.23-1.18                           | 1.40-1.34-1.28 |
| Heating capacity<br>(Nominal)                    | *3                     | kW                  | 12.5                                                                                                                                                                                                                                                              | 16.0                                     | 18.0                                     |                |
|                                                  | *3                     | kcal/h              | 10,800                                                                                                                                                                                                                                                            | 13,800                                   | 15,500                                   |                |
|                                                  | *3                     | BTU/h               | 42,700                                                                                                                                                                                                                                                            | 54,600                                   | 61,400                                   |                |
|                                                  | *2                     | Power input         | kW                                                                                                                                                                                                                                                                | 0.140                                    | 0.197                                    | 0.206          |
|                                                  | *2                     | Current input       | A                                                                                                                                                                                                                                                                 | 1.01-0.97-0.93                           | 1.29-1.23-1.18                           | 1.40-1.34-1.28 |
| External finish                                  |                        |                     | Galvanized steel plate                                                                                                                                                                                                                                            | Galvanized steel plate                   | Galvanized steel plate                   |                |
| External dimension H x W x D                     |                        | mm                  | 250 x 1,400 x 732                                                                                                                                                                                                                                                 | 250 x 1,400 x 732                        | 250 x 1,600 x 732                        |                |
|                                                  |                        | in.                 | 9-7/8 x 55-1/8 x 28-7/8                                                                                                                                                                                                                                           | 9-7/8 x 55-1/8 x 28-7/8                  | 9-7/8 x 63 x 28-7/8                      |                |
| Net weight                                       |                        | kg (lbs)            | 36 (80)                                                                                                                                                                                                                                                           | 37 (82)                                  | 41 (91)                                  |                |
| Heat exchanger                                   |                        |                     | Cross fin (Aluminum fin and copper tube)                                                                                                                                                                                                                          | Cross fin (Aluminum fin and copper tube) | Cross fin (Aluminum fin and copper tube) |                |
| FAN                                              |                        |                     | Sirocco fan x 3                                                                                                                                                                                                                                                   | Sirocco fan x 3                          | Sirocco fan x 3                          |                |
| *4                                               | External static press. | Pa                  | 40 - <50> - <70> - <100> - <150>                                                                                                                                                                                                                                  | <40> - 50 - <70> - <100> - <150>         | <40> - 50 - <70> - <100> - <150>         |                |
|                                                  |                        | mmH <sub>2</sub> O  | 4.1 - <5.1> - <7.1> - <10.2> - <15.3>                                                                                                                                                                                                                             | <4.1> - 5.1 - <7.1> - <10.2> - <15.3>    | <4.1> - 5.1 - <7.1> - <10.2> - <15.3>    |                |
| Motor Type                                       |                        |                     | DC motor                                                                                                                                                                                                                                                          | DC motor                                 | DC motor                                 |                |
| Motor output                                     |                        | kW                  | 0.300                                                                                                                                                                                                                                                             | 0.300                                    | 0.300                                    |                |
| Driving mechanism                                |                        |                     | Direct-driven by motor                                                                                                                                                                                                                                            | Direct-driven by motor                   | Direct-driven by motor                   |                |
| Air flow rate                                    |                        |                     | (Low-Mid-High)                                                                                                                                                                                                                                                    | (Low-Mid-High)                           | (Low-Mid-High)                           |                |
|                                                  |                        | m <sup>3</sup> /min | 23.0 - 28.0 - 32.0                                                                                                                                                                                                                                                | 28.0 - 34.0 - 37.0                       | 29.5 - 35.5 - 40.0                       |                |
|                                                  |                        | L/s                 | 383 - 467 - 533                                                                                                                                                                                                                                                   | 467 - 567 - 617                          | 492 - 592 - 667                          |                |
|                                                  |                        | cfm                 | 812 - 989 - 1,130                                                                                                                                                                                                                                                 | 989 - 1,201 - 1,306                      | 1,042 - 1,254 - 1,412                    |                |
| Sound pressure level (measured in anechoic room) |                        |                     | (Low-Mid-High)                                                                                                                                                                                                                                                    | (Low-Mid-High)                           | (Low-Mid-High)                           |                |
| *2, *5                                           | dB <A>                 |                     | 30-35-38                                                                                                                                                                                                                                                          | 34-38-40                                 | 33-37-40                                 |                |
| *2, *6                                           |                        |                     | 27-32-35                                                                                                                                                                                                                                                          | 31-35-37                                 | 30-34-37                                 |                |
| Insulation material                              |                        |                     | EPS, Polystyrene foam, Urethane foam                                                                                                                                                                                                                              | EPS, Polystyrene foam, Urethane foam     | EPS, Polystyrene foam, Urethane foam     |                |
| Air filter                                       |                        |                     | PP honeycomb fabric.                                                                                                                                                                                                                                              | PP honeycomb fabric.                     | PP honeycomb fabric.                     |                |
| Protection device                                |                        |                     | Fuse                                                                                                                                                                                                                                                              | Fuse                                     | Fuse                                     |                |
| Refrigerant control device                       |                        |                     | LEV                                                                                                                                                                                                                                                               | LEV                                      | LEV                                      |                |
| Connectable outdoor unit                         |                        |                     | R410A CITY MULTI                                                                                                                                                                                                                                                  | R410A CITY MULTI                         | R410A CITY MULTI                         |                |
| Refrigerant piping diameter                      | Liquid (R410A)         | mm (in.)            | 9.52 (3/8)Braze                                                                                                                                                                                                                                                   | 9.52 (3/8)Braze                          | 9.52 (3/8)Braze                          |                |
|                                                  | Gas (R410A)            | mm (in.)            | 15.88 (5/8)Braze                                                                                                                                                                                                                                                  | 15.88 (5/8)Braze                         | 15.88 (5/8)Braze                         |                |
| Field drain pipe size                            |                        | mm (in.)            | O.D.32 (1-1/4")                                                                                                                                                                                                                                                   | O.D.32 (1-1/4")                          | O.D.32 (1-1/4")                          |                |
| Drawing                                          | External               |                     | KL94R776                                                                                                                                                                                                                                                          | KL94R776                                 | KL94R776                                 |                |
|                                                  | Wiring                 |                     | KL94R781                                                                                                                                                                                                                                                          | KL94R781                                 | KL94R781                                 |                |
|                                                  | Refrigerant cycle      |                     | -                                                                                                                                                                                                                                                                 | -                                        | -                                        |                |
| Standard attachment                              | Document               |                     | Installation Manual, Instruction Book                                                                                                                                                                                                                             | Installation Manual, Instruction Book    | Installation Manual, Instruction Book    |                |
|                                                  | Accessory              |                     | Washer, Drain hose, Tie band                                                                                                                                                                                                                                      | Washer, Drain hose, Tie band             | Washer, Drain hose, Tie band             |                |
| Optional parts                                   | Filter box             |                     | PAC-KE94TB-E                                                                                                                                                                                                                                                      | PAC-KE94TB-E                             | PAC-KE95TB-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 specifications may be subject to change without notice. |                                          |                                          |                |

| Notes:                                                                                                                                                                                                                                  | Unit converter                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1.Nominal cooling conditions<br>Indoor:27°CDB/19°CWB (81°FDB/66°FWB), Outdoor:35°CDB (95°FDB)<br>Pipe length:7.5m (24-9/16ft.), Level difference:0m (0ft.)                                                                              | kcal =kW x 860                                              |
| 2.The values are measured at the factory setting of external static pressure.                                                                                                                                                           | BTU/h =kW x 3,412                                           |
| 3.Nominal heating conditions<br>Indoor:20°CDB (68°FDB), Outdoor:7°CDB/6°CWB (45°FDB/43°FWB)<br>Pipe length:7.5m (24-9/16ft.), Level difference:0m (0ft.)                                                                                | cfm =m <sup>3</sup> /min x 35.31                            |
| 4.The factory setting of airflow mode and external static pressure mode is shown without < > .<br>Refer to "Fan characteristics curves", according to the external static pressure, in DATA BOOK for the usable range of air flow rate. | lbs =kg/0.4536                                              |
| 5.Measured in anechoic room with a 1 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.                                                                                                            |                                                             |
| 6.Measured in anechoic room with a 2 m air inlet duct and 2 m air outlet duct attached to the unit and 1.5 m below the unit.                                                                                                            | *Above specification data is subject to rounding variation. |





PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-E3

Unit: mm

[Maintenance access space]  
 Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, drain pump, heat exchanger, and control box in one of the following ways.

Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

- (1) When a space of 300mm or more is available below the unit between the unit and the ceiling, (Fig.1)
- Create access door 1 and 2 (450×450mm each) as shown in Fig.2.
- (Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)
- (2) When a space of less than 300mm is available below the unit between the unit and the ceiling.
- (At least 20mm of space should be left below the unit as shown in Fig.3.)
- Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig.4.
- or
- Create access door 4 below the control box and the unit as shown in Fig.5.

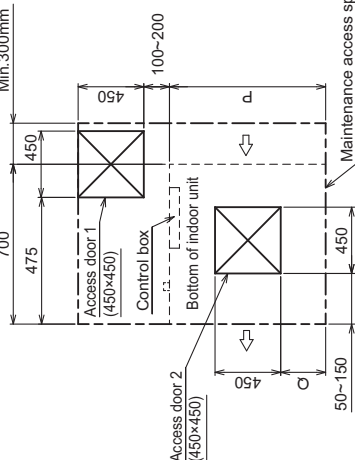
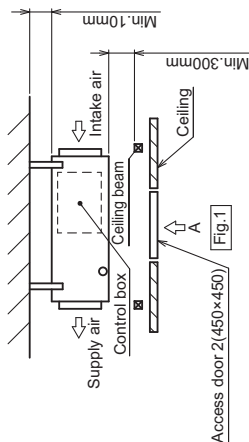


Fig.2 (Viewed from the direction of the arrow A)

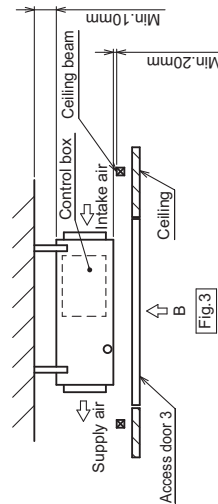


Fig.3

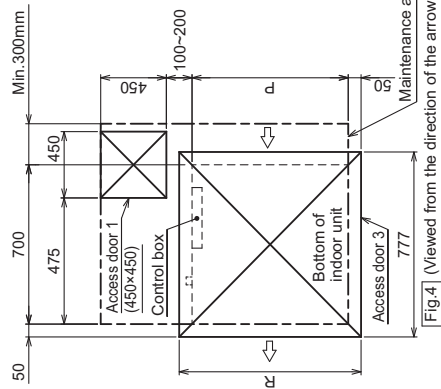


Fig.4 (Viewed from the direction of the arrow B)

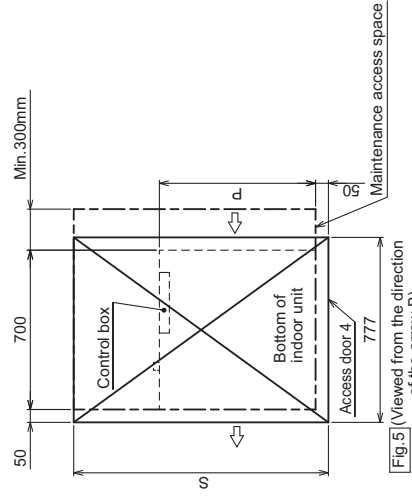
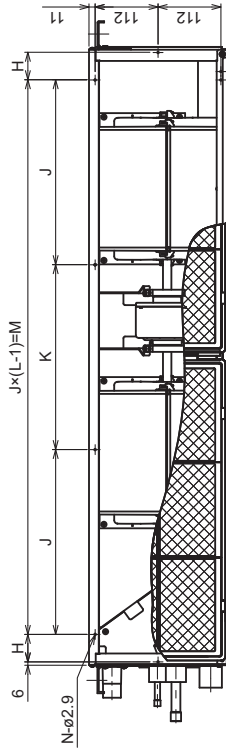


Fig.5 (Viewed from the direction of the arrow B)

| Model                | H  | J   | K   | L | M    | N  | P    | Q       | R    | S    |
|----------------------|----|-----|-----|---|------|----|------|---------|------|------|
| PEFY-P20,25,32VMA-E3 | 44 | 150 | 300 | 4 | 780  | 10 | 700  | 50-150  | 800  | 1300 |
| PEFY-P40,50,63VMA-E3 | 54 | 260 | 470 | 4 | 990  | 10 | 900  | 150-250 | 1000 | 1500 |
| PEFY-P71,80VMA-E3    | 49 | 330 | 540 | 5 | 1280 | 12 | 1100 | 250-350 | 1200 | 1700 |
| PEFY-P100,125VMA-E3  | 54 | 320 | 540 | 5 | 1280 | 12 | 1400 | 400-500 | 1500 | 2000 |
| PEFY-P140VMA-E3      | 54 | 370 | 540 | 5 | 1480 | 12 | 1600 | 500-600 | 1700 | 2200 |



PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA-E3 Suction filter box built-in-specification

Unit: mm

[Maintenance access space]  
 Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, drain pump, heat exchanger, and control box in one of the following ways.  
 Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

- (1) When a space of 300mm or more is available below the unit between the unit and the ceiling. (Fig.1)
- Create access door 1 and 2 (450×450mm each) as shown in Fig.2.  
 (Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)
- (2) When a space of less than 300mm is available below the unit between the unit and the ceiling.  
 (At least 20mm of space should be left below the unit as shown in Fig.3.)
- Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig.4.
- or
- Create access door 4 below the control box and the unit as shown in Fig.5.

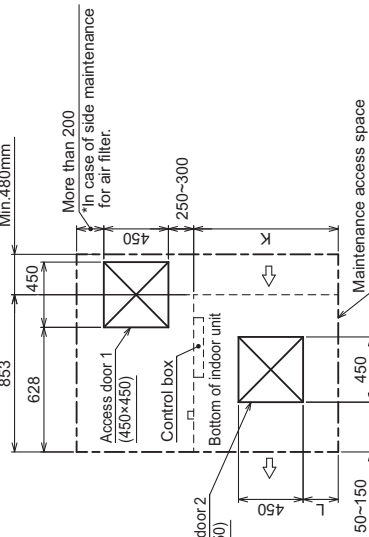
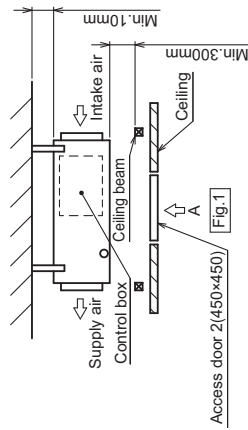


Fig.2 (Viewed from the direction of the arrow A)

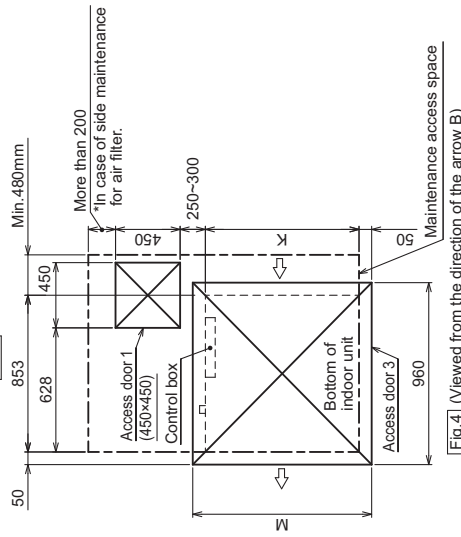


Fig.4 (Viewed from the direction of the arrow B)

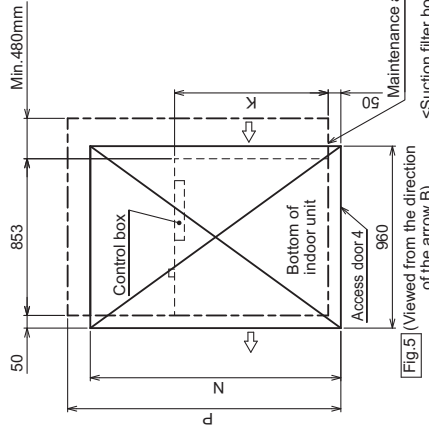


Fig.5 (Viewed from the direction of the arrow B)

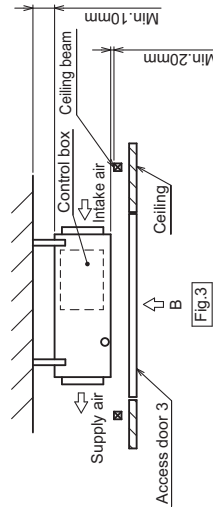


Fig.3

\*Dimension 'P' is in case of side maintenance for air filter.

| Model                | K    | L       | M    | N    | P*   |
|----------------------|------|---------|------|------|------|
| PEFY-P20,25,32VMA-E3 | 700  | 50~150  | 800  | 1300 | 1450 |
| PEFY-P40,50,63VMA-E3 | 900  | 150~250 | 1000 | 1500 | 1850 |
| PEFY-P71,80VMA-E3    | 1100 | 250~350 | 1200 | 1700 | 1700 |
| PEFY-P100,125VMA-E3  | 1400 | 400~500 | 1500 | 2000 | 2150 |
| PEFY-P140VMA-E3      | 1600 | 500~600 | 1700 | 2200 | 2550 |

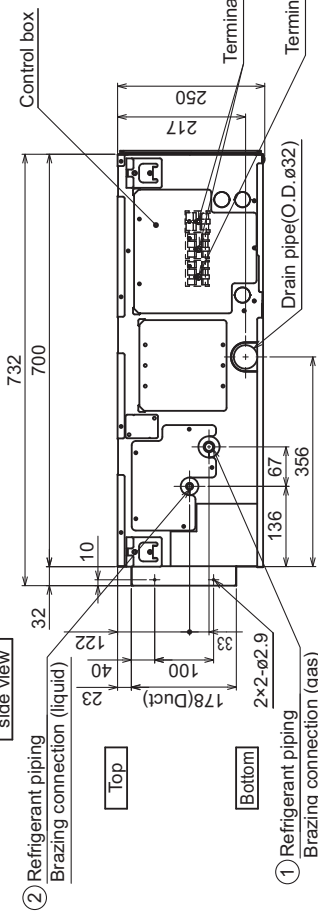
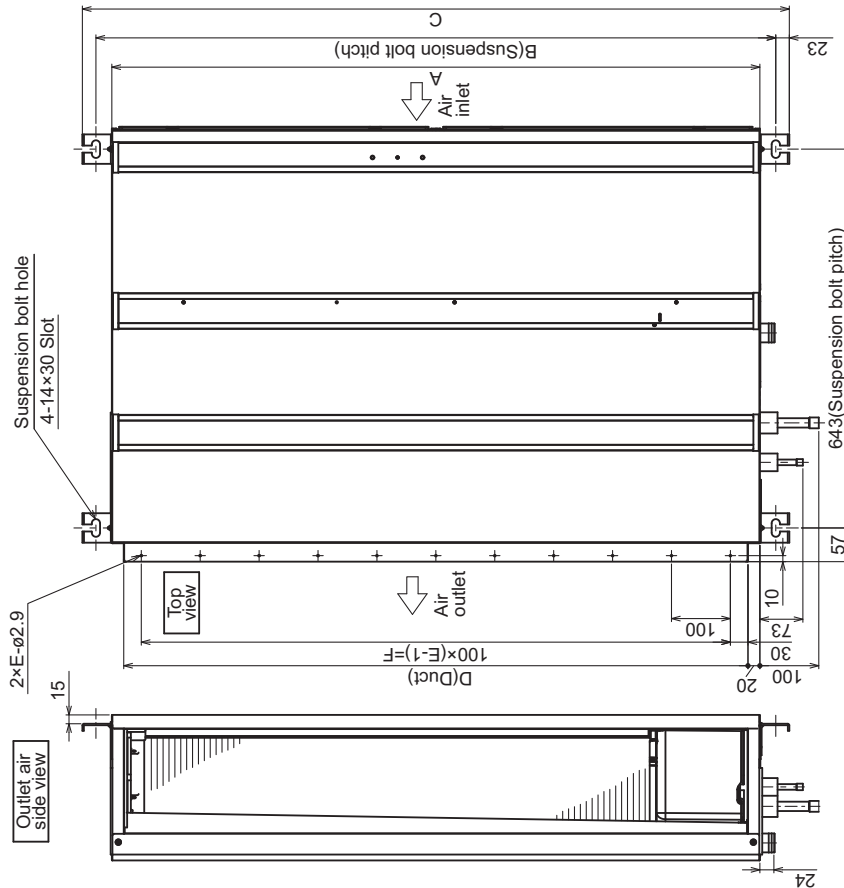
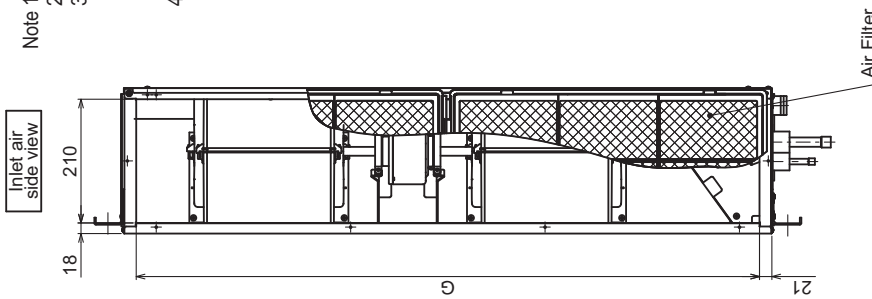
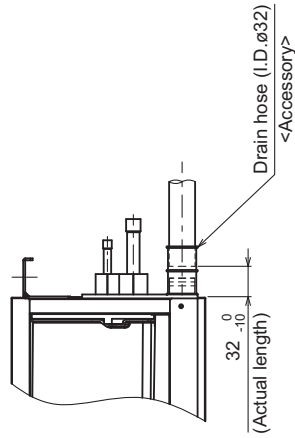
## 2. EXTERNAL DIMENSIONS

Ceiling concealed (Medium static pressure type)

PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-E3

Unit: mm

- Note 1. Use M10 screw for the Suspension bolt (field supply).  
 2. Keep the service space for the maintenance at the bottom.  
 3. This chart indicates for PEFY-P71-80VMAL-E3 models, which have 2 fans. PEFY-P20-25-32VMAL-E3 models have 1 fan. PEFY-P40-50-63VMAL-E3 models have 2 fans. PEFY-P100-125-140VMAL-E3 models have 3 fans.  
 4. In case of the inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.



| Model                 | A    | B    | C    | D    | E  | F    | G    | ① Gas pipe | ② Liquid pipe |
|-----------------------|------|------|------|------|----|------|------|------------|---------------|
| PEFY-P20,25,32VMAL-E3 | 700  | 754  | 800  | 660  | 7  | 600  | 658  | ø12.7      | ø6.35         |
| PEFY-P40,50VMAL-E3    | 900  | 954  | 1000 | 860  | 9  | 800  | 858  |            |               |
| PEFY-P63VMAL-E3       | 900  | 954  | 1000 | 860  | 9  | 800  | 858  |            |               |
| PEFY-P71,80VMAL-E3    | 1100 | 1154 | 1200 | 1060 | 11 | 1000 | 1058 | ø15.88     | ø9.52         |
| PEFY-P100,125VMAL-E3  | 1400 | 1454 | 1500 | 1360 | 14 | 1300 | 1358 |            |               |
| PEFY-P140VMAL-E3      | 1600 | 1654 | 1700 | 1560 | 16 | 1500 | 1558 |            |               |

PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-E3

Unit: mm

[Maintenance access space]  
 Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, heat exchanger, and control box in one of the following ways.  
 Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.  
 (1) When a space of 300mm or more is available below the unit between the unit and the ceiling. (Fig.1)  
 · Create access door 1 and 2 (450x450mm each) as shown in Fig.2.  
 (Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in.)

(2) When a space of less than 300mm is available below the unit between the unit and the ceiling.

(At least 20mm of space should be left below the unit as shown in Fig.3.)

· Create access door 1 diagonally below the control box and access door 3 below the unit as shown in Fig.4.

or

· Create access door 4 below the control box and the unit as shown in Fig.5.

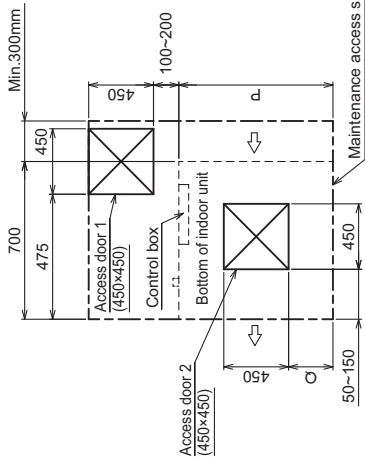
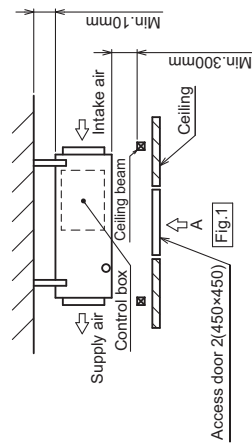


Fig.2 (Viewed from the direction of the arrow A)

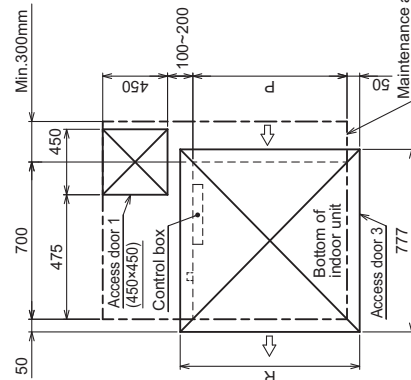


Fig.4 (Viewed from the direction of the arrow B)

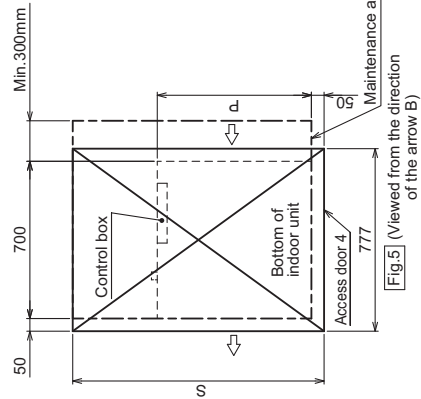
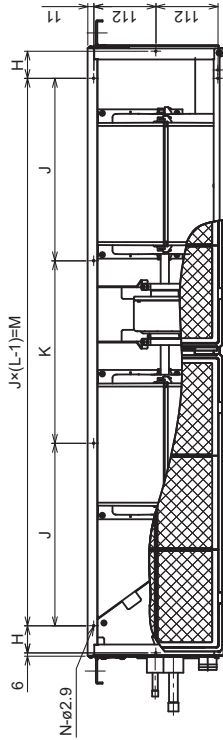


Fig.5 (Viewed from the direction of the arrow B)

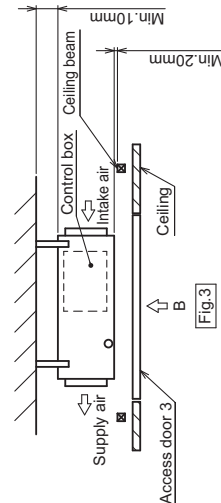


Fig.3

| Model                 | H  | J   | K   | L  | M    | N      | P    | Q       | R    | S    |
|-----------------------|----|-----|-----|----|------|--------|------|---------|------|------|
| PEFY-P20,25,32VMAL-E3 | 44 | 150 | 300 | 10 | 700  | 50~150 | 800  | 1300    |      |      |
| PEFY-P40,50,63VMAL-E3 | 54 | 260 |     | 4  | 780  | 10     | 900  | 150~250 | 1000 | 1500 |
| PEFY-P71,80VMAL-E3    | 49 | 330 |     | 4  | 990  | 10     | 1100 | 250~350 | 1200 | 1700 |
| PEFY-P100,125VMAL-E3  | 54 | 320 |     | 5  | 1280 | 12     | 1400 | 400~500 | 1500 | 2000 |
| PEFY-P140VMAL-E3      | 54 | 370 |     | 5  | 1480 | 12     | 1600 | 500~600 | 1700 | 2200 |

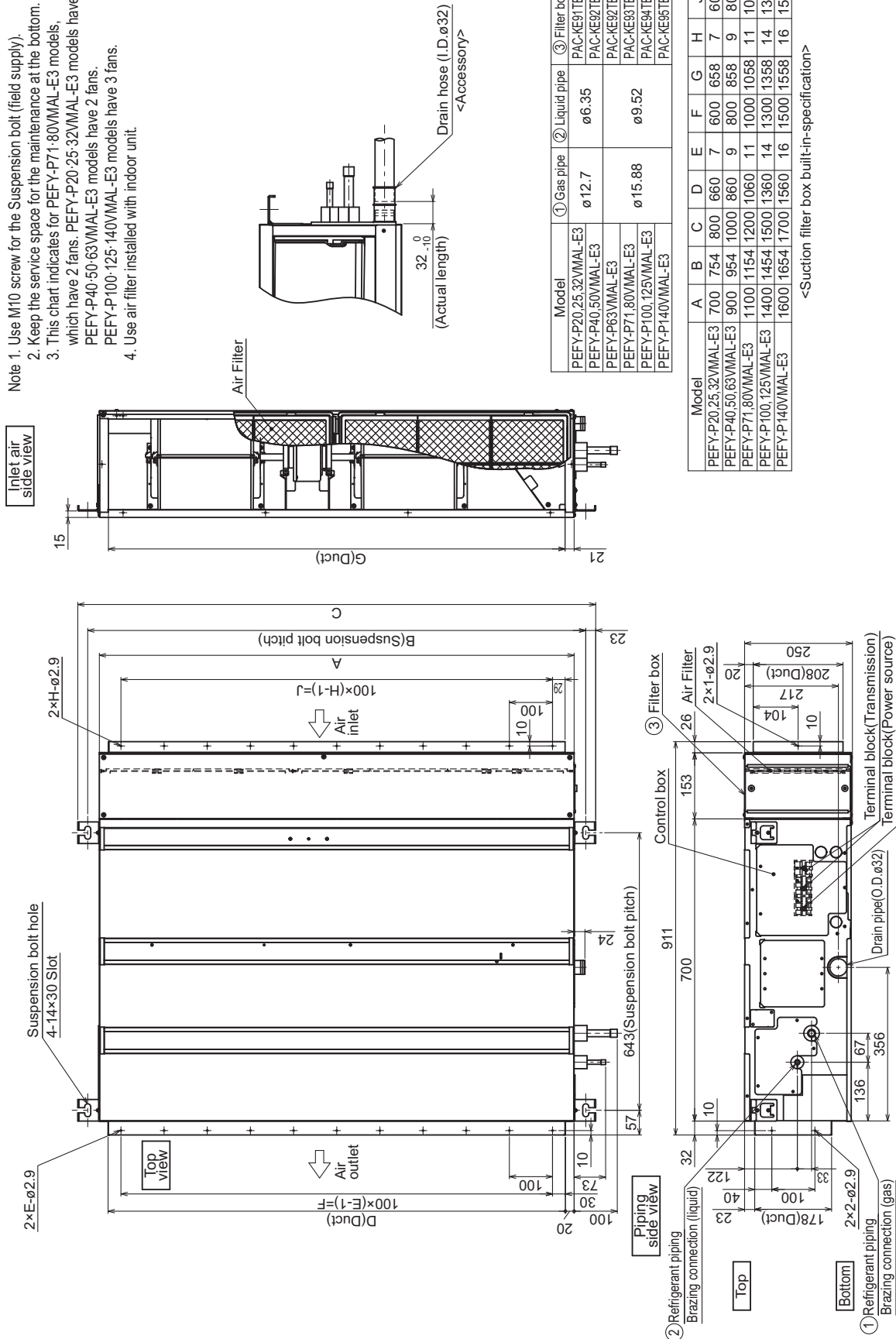
## 2. EXTERNAL DIMENSIONS

Ceiling concealed (Medium static pressure type)

### PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMAL-E3 Suction filter box built-in-specification

Unit: mm

- Note 1. Use M10 screw for the Suspension bolt (field supply).  
 2. Keep the service space for the maintenance at the bottom.  
 3. This chart indicates for PEFY-P71-80VMAL-E3 models, which have 2 fans. PEFY-P20-25-32VMAL-E3 models have 1 fan. PEFY-P40-50-63VMAL-E3 models have 2 fans. PEFY-P100-125-140VMAL-E3 models have 3 fans.  
 4. Use air filter installed with indoor unit.

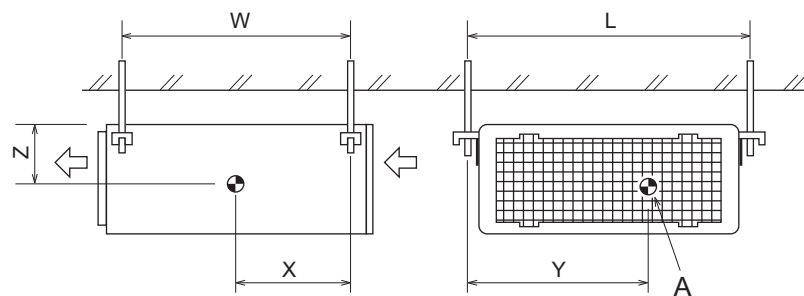






PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA(L)-E3

PEFY-P-VMA(L)-E3

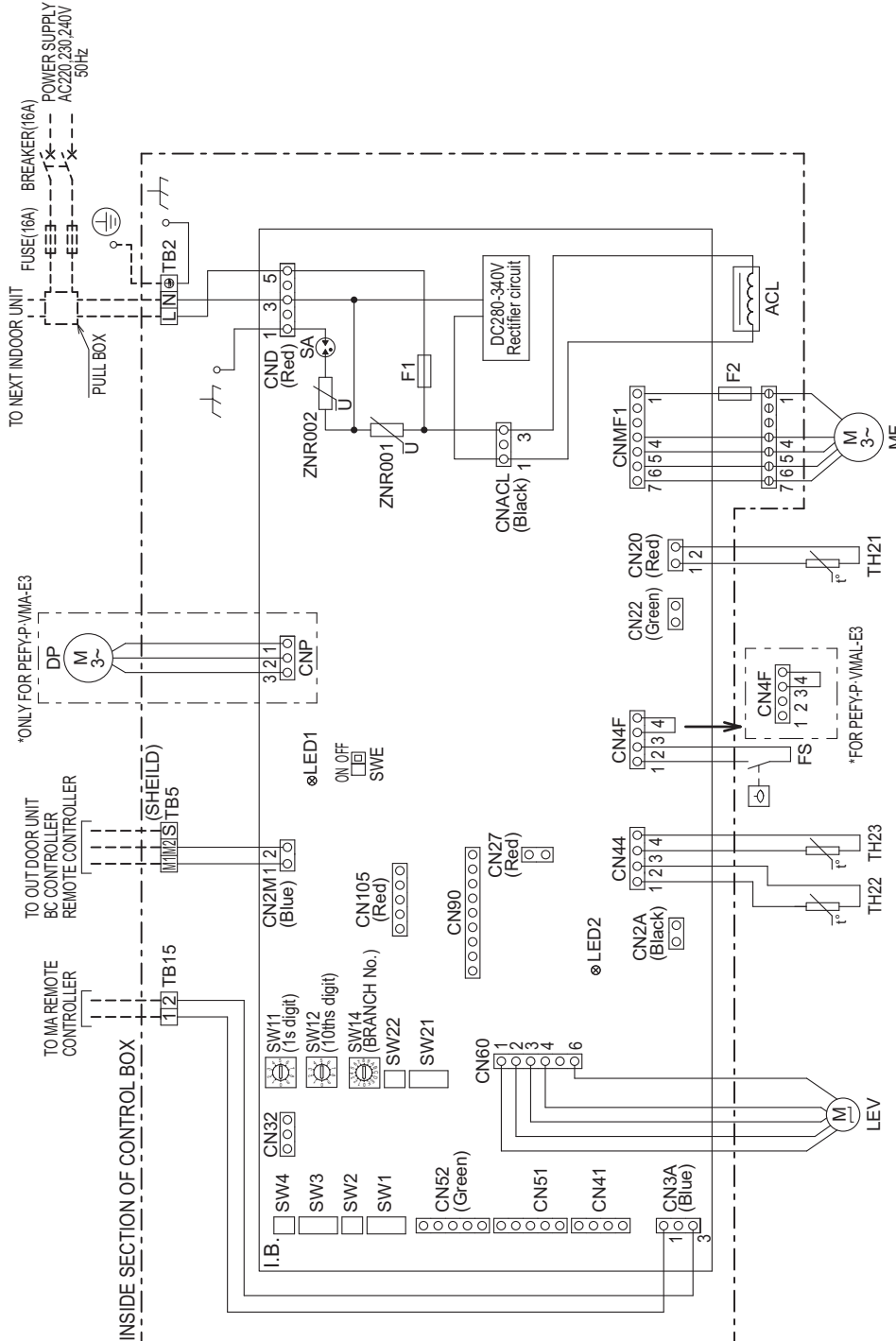


A : Center of gravity

(mm) [in]

| Model name         | W               | L                | X                | Y                | Z              |
|--------------------|-----------------|------------------|------------------|------------------|----------------|
| PEFY-P20VMA(L)-E3  | 643 [25 - 6/16] | 754 [29 - 11/16] | 330 [13]         | 300 [11 - 13/16] | 130 [5 - 2/16] |
| PEFY-P25VMA(L)-E3  | 643 [25 - 6/16] | 754 [29 - 11/16] | 330 [13]         | 300 [11 - 13/16] | 130 [5 - 2/16] |
| PEFY-P32VMA(L)-E3  | 643 [25 - 6/16] | 754 [29 - 11/16] | 330 [13]         | 300 [11 - 13/16] | 130 [5 - 2/16] |
| PEFY-P40VMA(L)-E3  | 643 [25 - 6/16] | 954 [37 - 9/16]  | 340 [13 - 7/16]  | 375 [14 - 13/16] | 130 [5 - 2/16] |
| PEFY-P50VMA(L)-E3  | 643 [25 - 6/16] | 954 [37 - 9/16]  | 340 [13 - 7/16]  | 375 [14 - 13/16] | 130 [5 - 2/16] |
| PEFY-P63VMA(L)-E3  | 643 [25 - 6/16] | 954 [37 - 9/16]  | 340 [13 - 7/16]  | 375 [14 - 13/16] | 130 [5 - 2/16] |
| PEFY-P71VMA(L)-E3  | 643 [25 - 6/16] | 1154 [45 - 7/16] | 325 [12 - 13/16] | 525 [20 - 11/16] | 130 [5 - 2/16] |
| PEFY-P80VMA(L)-E3  | 643 [25 - 6/16] | 1154 [45 - 7/16] | 325 [12 - 13/16] | 525 [20 - 11/16] | 130 [5 - 2/16] |
| PEFY-P100VMA(L)-E3 | 643 [25 - 6/16] | 1454 [57 - 4/16] | 330 [13]         | 675 [26 - 10/16] | 130 [5 - 2/16] |
| PEFY-P125VMA(L)-E3 | 643 [25 - 6/16] | 1454 [57 - 4/16] | 330 [13]         | 675 [26 - 10/16] | 130 [5 - 2/16] |
| PEFY-P140VMA(L)-E3 | 643 [25 - 6/16] | 1654 [65 - 2/16] | 332 [13 - 2/16]  | 725 [28 - 9/16]  | 130 [5 - 2/16] |

PEFY-P20, 25, 32, 40, 50, 63, 71, 80, 100, 125, 140VMA(L)-E3



NOTE1. Symbols used in wiring diagram are  
 ○ ○ ○ ○ : Connector, □ : Terminal,  
 --- (Heavy dotted line): Field wiring,  
 2. Have all electric work done by a licensed electrician according to the local regulations.  
 3. Earth leakage circuit breaker should be set up on the wiring of the power supply.  
 4. To perform a drainage test for the drain pump turn on the SWE on the control board while the indoor unit is being powered.  
 \*Be sure to turn off the SWE after completing a drainage test or test run.

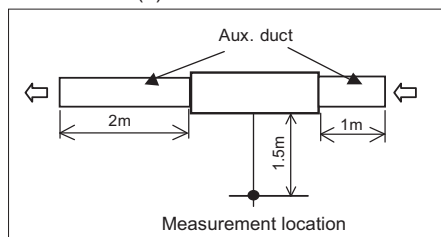
SYMBOL EXPLANATION

| SYMBOL | NAME                                       | SYMBOL     | NAME                            | SYMBOL | NAME                                   |
|--------|--------------------------------------------|------------|---------------------------------|--------|----------------------------------------|
| ACL    | AC reactor(Power factor improvement)       | I.B.       | Indoor controller board         | SW1    | Switch (for mode selection)            |
| DP     | Drain Pump                                 | SA         | Arrester                        | SW2    | Switch (for capacity code)             |
| F2     | Fuse DC400V 3A                             | F1         | Fuse AC250V 6.3A                | SW3    | Switch (for mode selection)            |
| FS     | Float switch                               | ZNR001,002 | Varistor                        | SW4    | Switch (for model selection)           |
| MF     | Fan Motor                                  | CN2A       | Connector (0-10V Analog input)  | SW11   | Switch (10ths digit address set)       |
| LEV    | Linear expansion valve                     | CN27       | Connector (Optional Thermistor) | SW12   | Switch (10ths digit address set)       |
| TB2    | Power source terminal block                | CN32       | Connector (Damper)              | SW14   | Switch (BRANCH No.)                    |
| TB5    | Transmission terminal block                | CN41       | Connector (Remote switch)       | SW21   | Switch (for static pressure selection) |
| TB15   | Transmission terminal block                | CN51       | Connector (HA terminal-A)       | SW22   | Switch (Wireless pair No.)             |
| TH21   | Thermistor (inlet air temp. detection)     | CN60       | Connector (Centrally control)   | SW1    | LED(Power supply)                      |
| TH22   | Thermistor (piping temp. detection/liquid) | CN90       | Connector (Remote indication)   | LED2   | LED(Remote controller supply)          |
| TH23   | Thermistor (piping temp. detection/gas)    | CN105      | Connector (IT terminal)         |        |                                        |

## 5-1. Sound levels

## 5-1-1. Sound levels (Measured point: With 1m air inlet duct and 2m air outlet duct)

PEFY-P-VMA(L)-E3



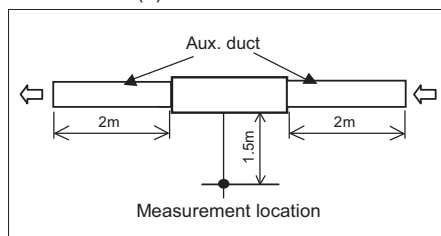
\* Measured in anechoic room.

Sound level at anechoic room: Low-Mid-High

| Model                 | Sound level dB(A) |          |          |          |          |          |
|-----------------------|-------------------|----------|----------|----------|----------|----------|
|                       | 35Pa              | 40Pa     | 50Pa     | 70Pa     | 100Pa    | 150Pa    |
| PEFY-P20, 25VMA(L)-E3 | 21-25-27          | -        | 23-26-29 | 22-27-30 | 24-30-33 | 28-34-38 |
| PEFY-P32VMA(L)-E3     | 23-27-30          | -        | 24-28-33 | 25-30-34 | 27-32-35 | 31-35-39 |
| PEFY-P40VMA(L)-E3     | 23-28-31          | -        | 24-31-33 | 27-31-35 | 29-33-37 | 32-37-41 |
| PEFY-P50VMA(L)-E3     | 24-31-34          | -        | 28-32-36 | 28-33-38 | 31-36-40 | 33-38-42 |
| PEFY-P63VMA(L)-E3     | 27-31-35          | -        | 30-33-38 | 30-35-39 | 32-37-41 | 35-40-44 |
| PEFY-P71, 80VMA(L)-E3 | -                 | 25-31-34 | 29-32-35 | 29-33-37 | 30-35-39 | 33-39-42 |
| PEFY-P100VMA(L)-E3    | -                 | 30-35-38 | 31-36-39 | 33-38-41 | 35-40-43 | 37-43-46 |
| PEFY-P125VMA(L)-E3    | -                 | 33-37-39 | 34-38-40 | 34-39-41 | 35-40-42 | 38-43-45 |
| PEFY-P140VMA(L)-E3    | -                 | 33-37-39 | 33-37-40 | 34-38-40 | 35-39-42 | 37-41-45 |

## 5-1-2. Sound levels (Measured point: With 2m air inlet duct and 2m air outlet duct)

PEFY-P-VMA(L)-E3



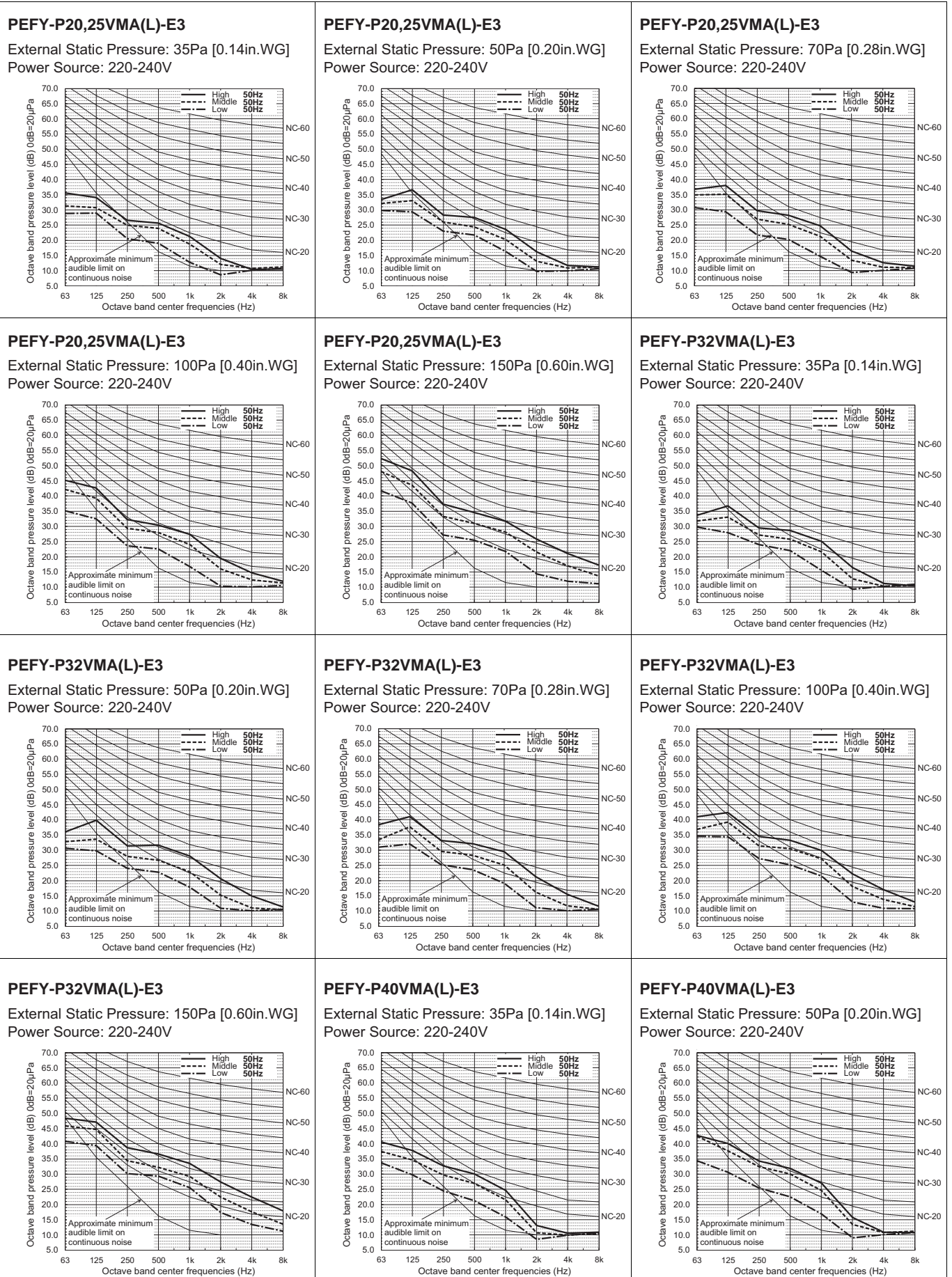
\* Measured in anechoic room.

Sound level at anechoic room: Low-Mid-High

| Model                 | Sound level dB(A) |          |          |          |          |          |
|-----------------------|-------------------|----------|----------|----------|----------|----------|
|                       | 35Pa              | 40Pa     | 50Pa     | 70Pa     | 100Pa    | 150Pa    |
| PEFY-P20, 25VMA(L)-E3 | 18-22-24          | -        | 20-23-26 | 19-24-27 | 21-27-30 | 25-31-35 |
| PEFY-P32VMA(L)-E3     | 20-24-27          | -        | 21-25-30 | 22-27-31 | 24-29-32 | 28-32-36 |
| PEFY-P40VMA(L)-E3     | 20-25-28          | -        | 21-28-30 | 24-28-32 | 26-30-34 | 29-34-38 |
| PEFY-P50VMA(L)-E3     | 21-28-31          | -        | 25-29-33 | 25-30-35 | 28-33-37 | 30-35-39 |
| PEFY-P63VMA(L)-E3     | 24-28-32          | -        | 27-30-35 | 27-32-36 | 29-34-38 | 32-37-41 |
| PEFY-P71, 80VMA(L)-E3 | -                 | 22-28-31 | 26-29-32 | 26-30-34 | 27-32-36 | 30-36-39 |
| PEFY-P100VMA(L)-E3    | -                 | 27-32-35 | 28-33-36 | 30-35-38 | 32-37-40 | 34-40-43 |
| PEFY-P125VMA(L)-E3    | -                 | 30-34-36 | 31-35-37 | 31-36-38 | 32-37-39 | 35-40-42 |
| PEFY-P140VMA(L)-E3    | -                 | 30-34-36 | 30-34-37 | 31-35-37 | 32-36-39 | 34-38-42 |

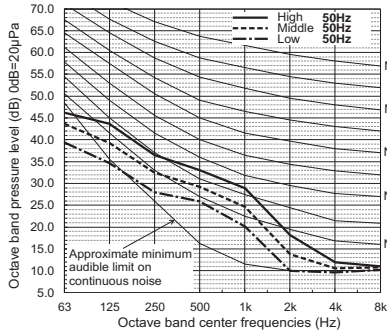
5-2. NC curves

5-2-1. NC curves (Sound level measured point: With 1m air inlet duct and 2m air outlet duct)



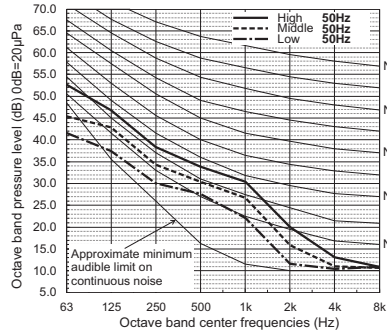
**PEFY-P40VMA(L)-E3**

External Static Pressure: 70Pa [0.28in.WG]  
Power Source: 220-240V



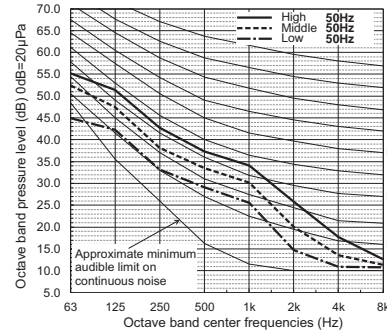
**PEFY-P40VMA(L)-E3**

External Static Pressure: 100Pa [0.40in.WG]  
Power Source: 220-240V



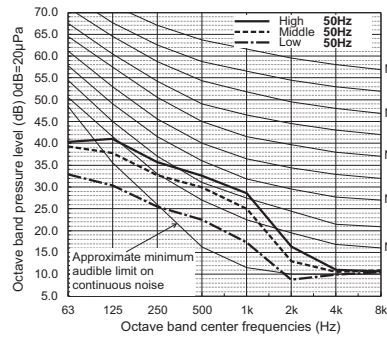
**PEFY-P40VMA(L)-E3**

External Static Pressure: 150Pa [0.60in.WG]  
Power Source: 220-240V



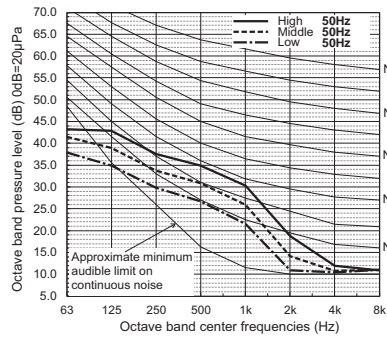
**PEFY-P50VMA(L)-E3**

External Static Pressure: 35Pa [0.14in.WG]  
Power Source: 220-240V



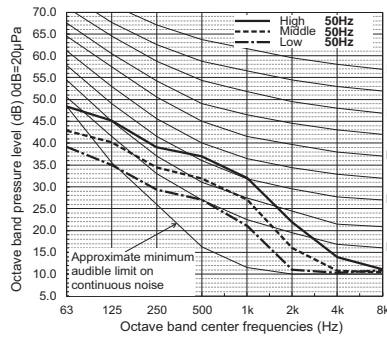
**PEFY-P50VMA(L)-E3**

External Static Pressure: 50Pa [0.20in.WG]  
Power Source: 220-240V



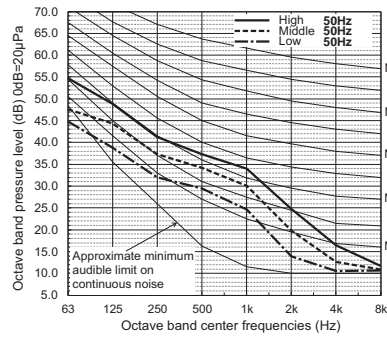
**PEFY-P50VMA(L)-E3**

External Static Pressure: 70Pa [0.28in.WG]  
Power Source: 220-240V



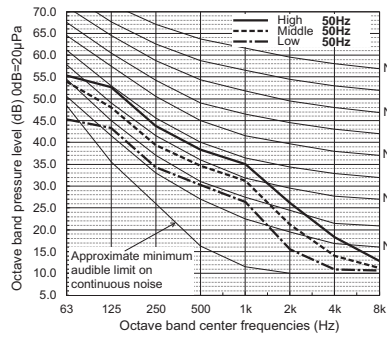
**PEFY-P50VMA(L)-E3**

External Static Pressure: 100Pa [0.40in.WG]  
Power Source: 220-240V



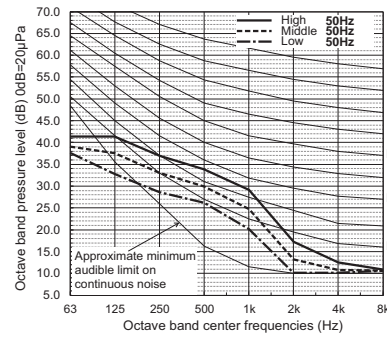
**PEFY-P50VMA(L)-E3**

External Static Pressure: 150Pa [0.60in.WG]  
Power Source: 220-240V



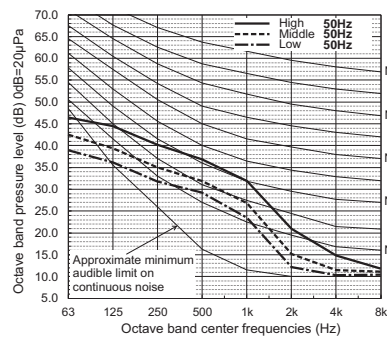
**PEFY-P63VMA(L)-E3**

External Static Pressure: 35Pa [0.14in.WG]  
Power Source: 220-240V



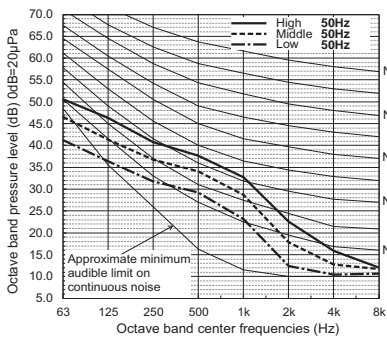
**PEFY-P63VMA(L)-E3**

External Static Pressure: 50Pa [0.20in.WG]  
Power Source: 220-240V



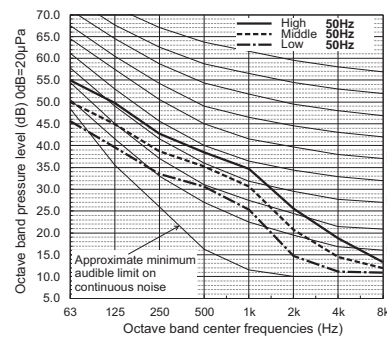
**PEFY-P63VMA(L)-E3**

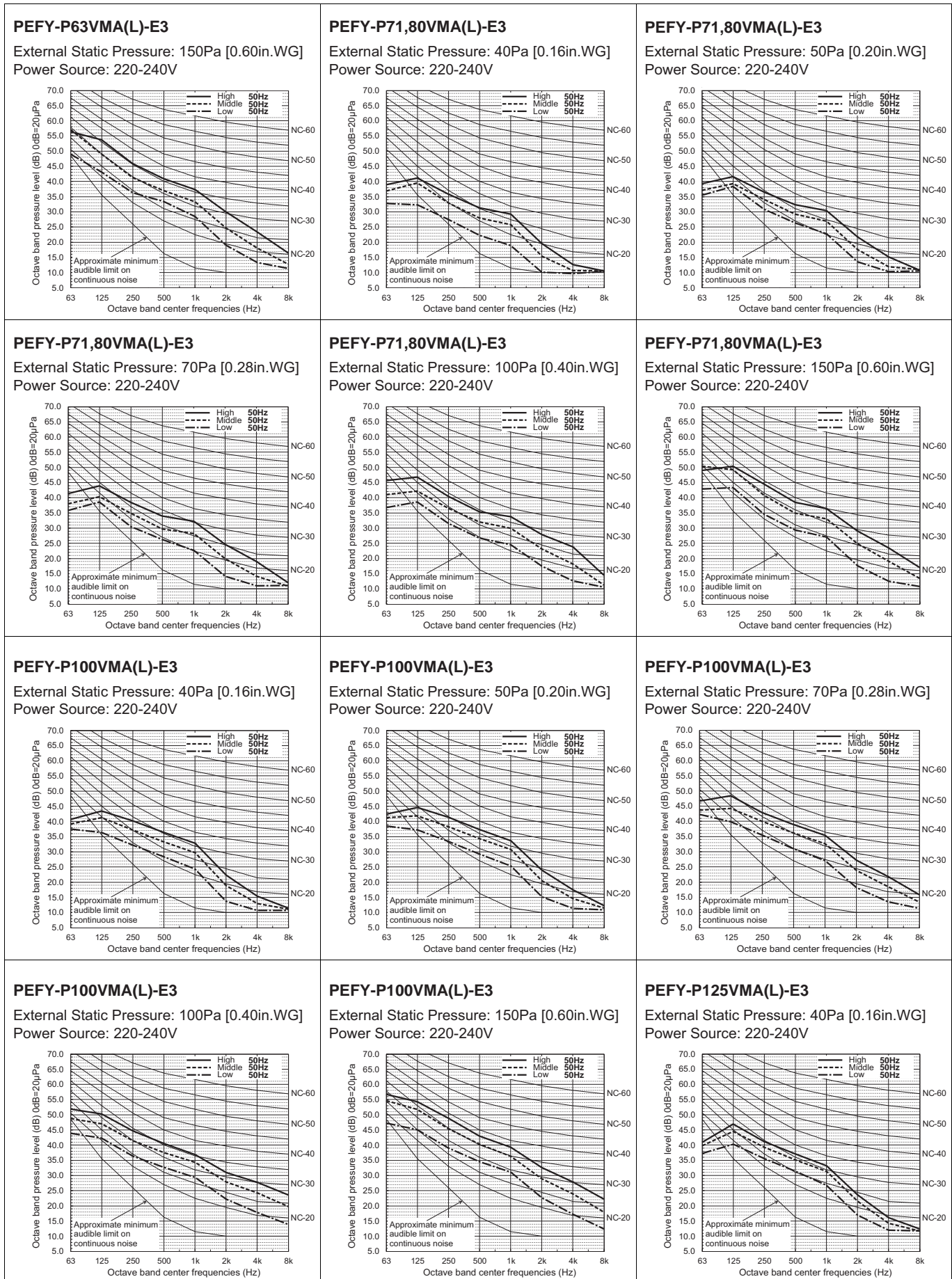
External Static Pressure: 70Pa [0.28in.WG]  
Power Source: 220-240V



**PEFY-P63VMA(L)-E3**

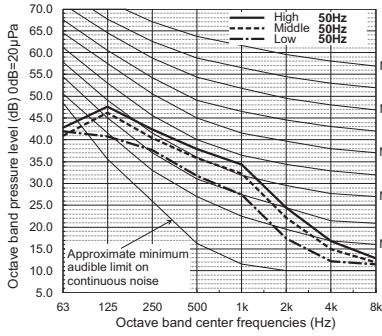
External Static Pressure: 100Pa [0.40in.WG]  
Power Source: 220-240V





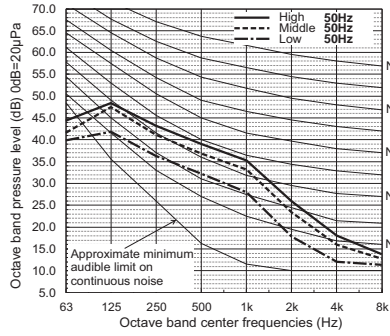
**PEFY-P125VMA(L)-E3**

External Static Pressure: 50Pa [0.20in.WG]  
Power Source: 220-240V



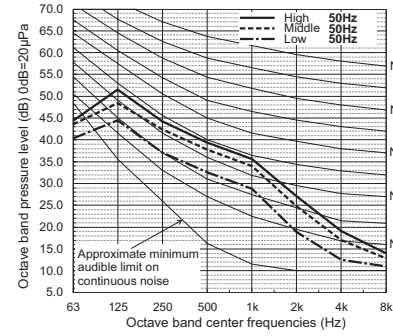
**PEFY-P125VMA(L)-E3**

External Static Pressure: 70Pa [0.28in.WG]  
Power Source: 220-240V



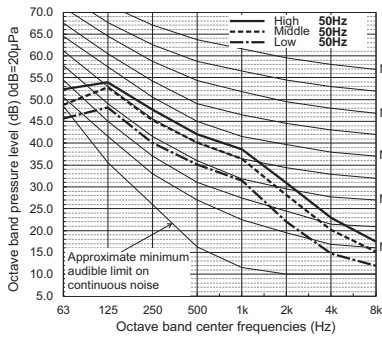
**PEFY-P125VMA(L)-E3**

External Static Pressure: 100Pa [0.40in.WG]  
Power Source: 220-240V



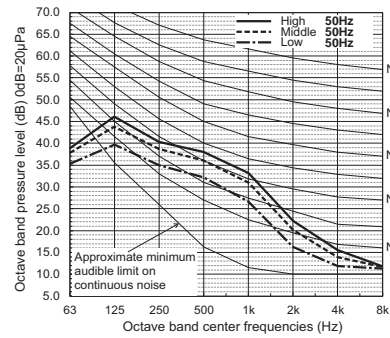
**PEFY-P125VMA(L)-E3**

External Static Pressure: 150Pa [0.60in.WG]  
Power Source: 220-240V



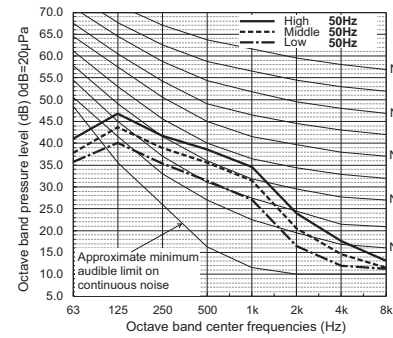
**PEFY-P140VMA(L)-E3**

External Static Pressure: 40Pa [0.16in.WG]  
Power Source: 220-240V



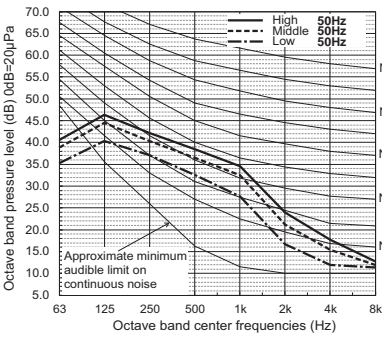
**PEFY-P140VMA(L)-E3**

External Static Pressure: 50Pa [0.20in.WG]  
Power Source: 220-240V



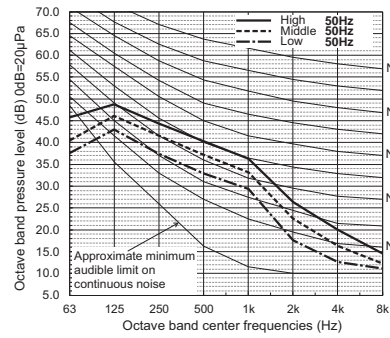
**PEFY-P140VMA(L)-E3**

External Static Pressure: 70Pa [0.28in.WG]  
Power Source: 220-240V



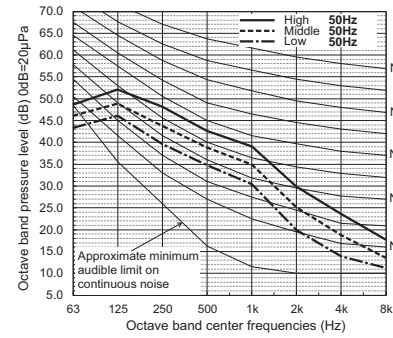
**PEFY-P140VMA(L)-E3**

External Static Pressure: 100Pa [0.40in.WG]  
Power Source: 220-240V



**PEFY-P140VMA(L)-E3**

External Static Pressure: 150Pa [0.60in.WG]  
Power Source: 220-240V



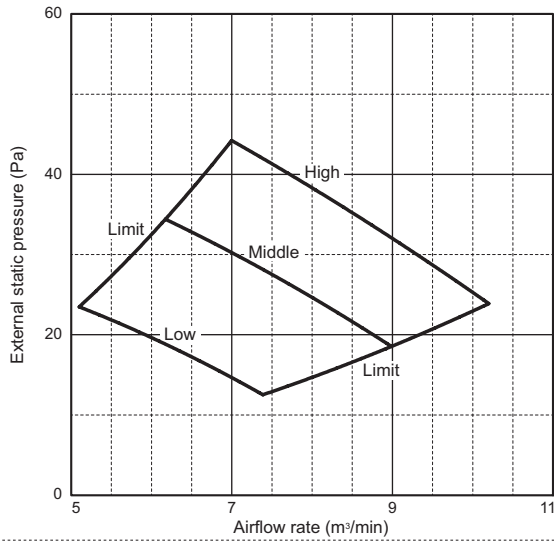
## 6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Medium static pressure type)

PEFY-P-VMA(L)-E3

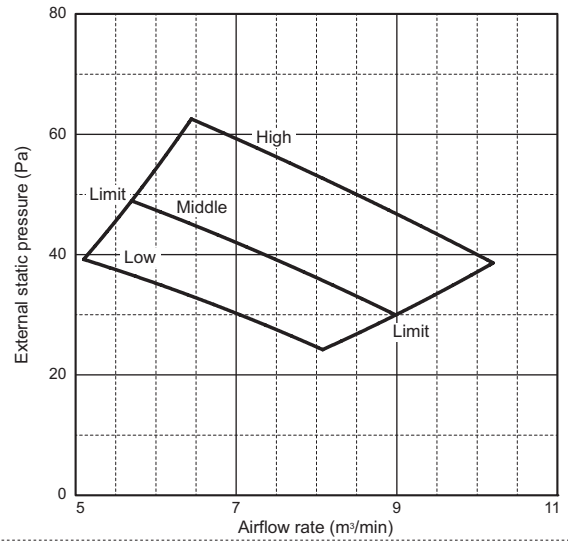
### PEFY-P20, 25VMA(L)-E3

External static pressure : 35Pa  
Power source : 220-240V



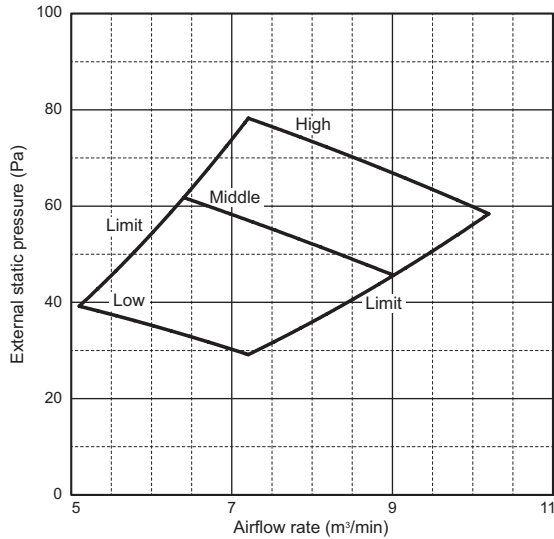
### PEFY-P20, 25VMA(L)-E3

External static pressure : 50Pa  
Power source : 220-240V



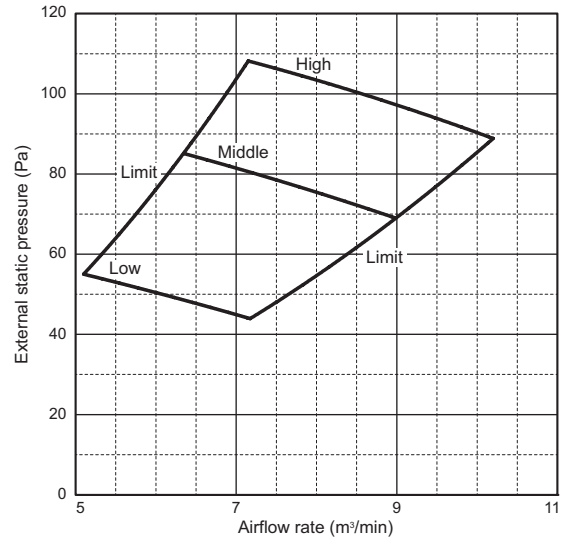
### PEFY-P20, 25VMA(L)-E3

External static pressure : 70Pa  
Power source : 220-240V



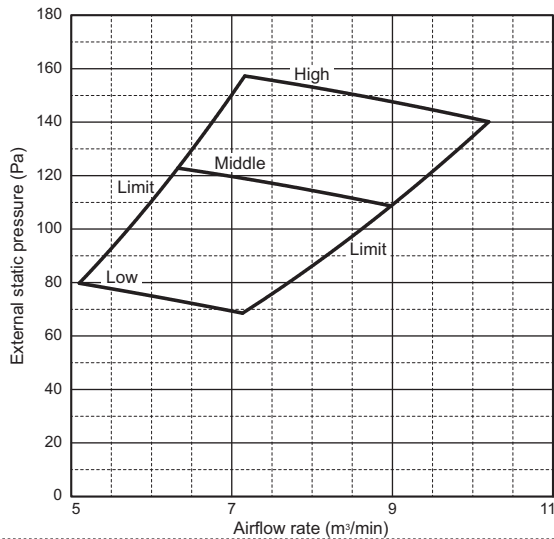
### PEFY-P20, 25VMA(L)-E3

External static pressure : 100Pa  
Power source : 220-240V



### PEFY-P20, 25VMA(L)-E3

External static pressure : 150Pa  
Power source : 220-240V





## 6. FAN CHARACTERISTICS CURVES

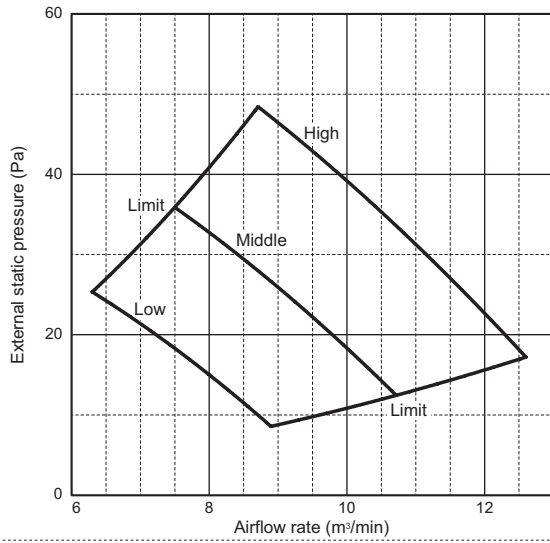
Ceiling concealed (Medium static pressure type)

PEFY-P-VMA(L)-E3

### PEFY-P32VMA(L)-E3

External static pressure : 35Pa

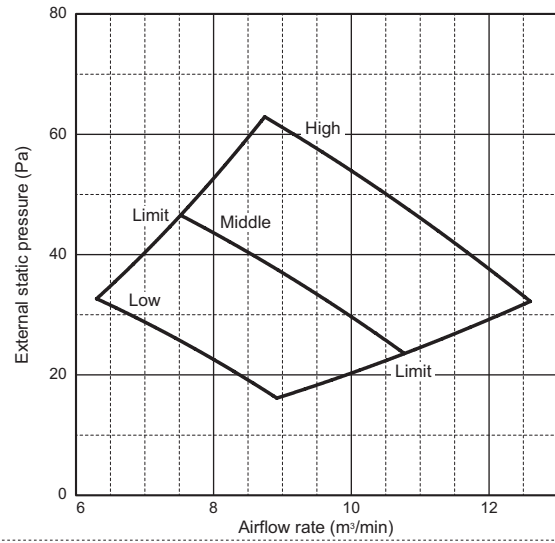
Power source : 220-240V



### PEFY-P32VMA(L)-E3

External static pressure : 50Pa

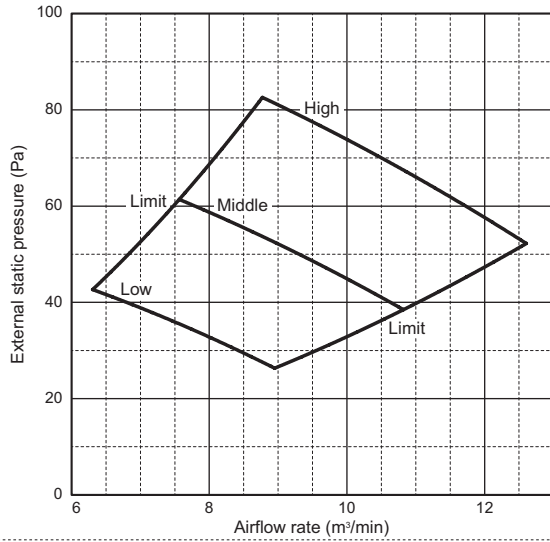
Power source : 220-240V



### PEFY-P32VMA(L)-E3

External static pressure : 70Pa

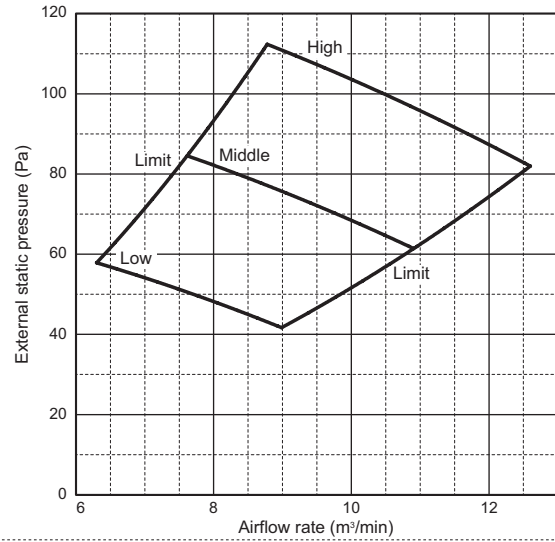
Power source : 220-240V



### PEFY-P32VMA(L)-E3

External static pressure : 100Pa

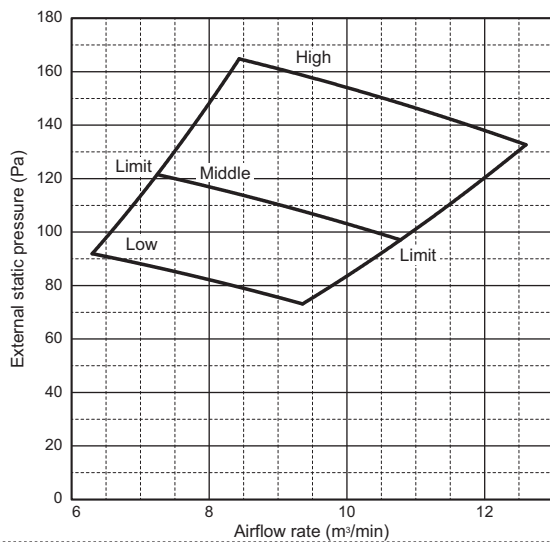
Power source : 220-240V



### PEFY-P32VMA(L)-E3

External static pressure : 150Pa

Power source : 220-240V



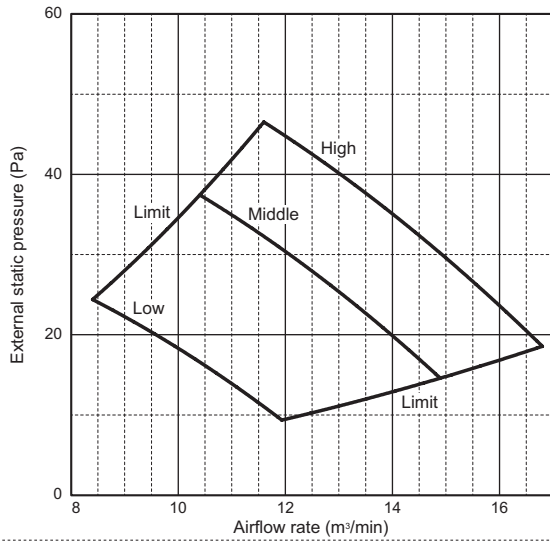
## 6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Medium static pressure type)

PEFY-P-VMA(L)-E3

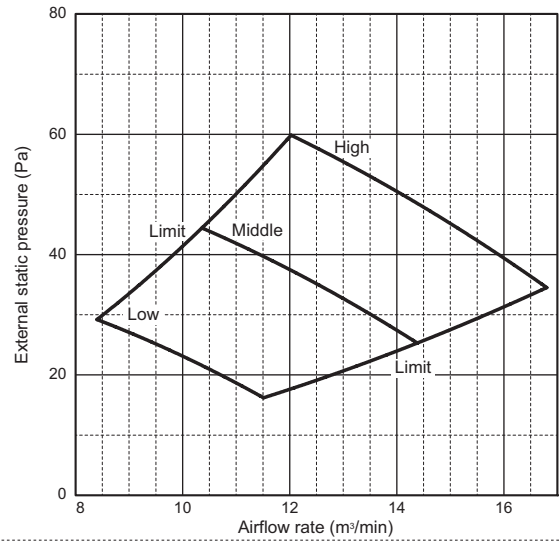
### PEFY-P40VMA(L)-E3

External static pressure : 35Pa  
Power source : 220-240V



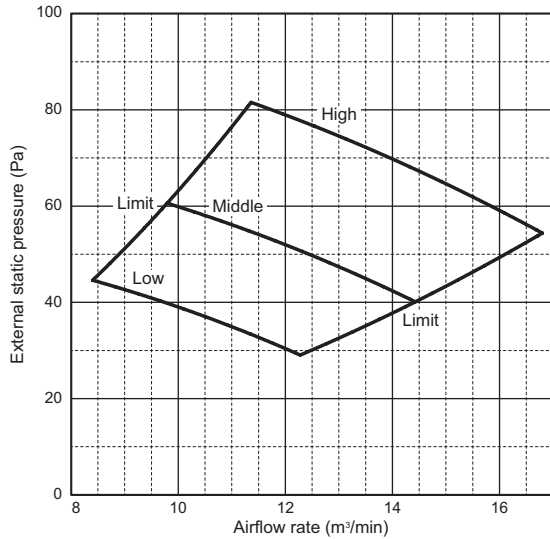
### PEFY-P40VMA(L)-E3

External static pressure : 50Pa  
Power source : 220-240V



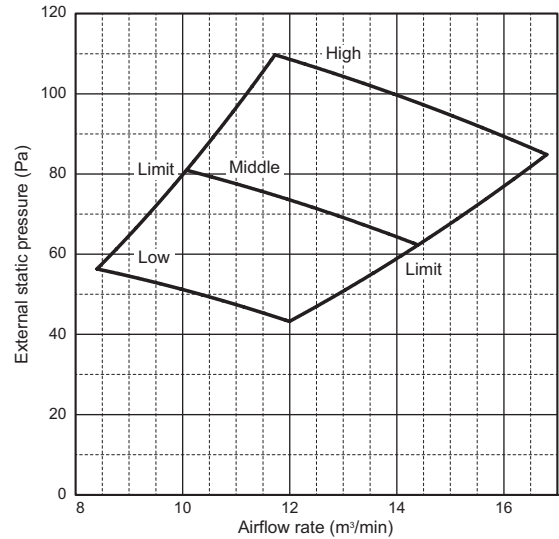
### PEFY-P40VMA(L)-E3

External static pressure : 70Pa  
Power source : 220-240V



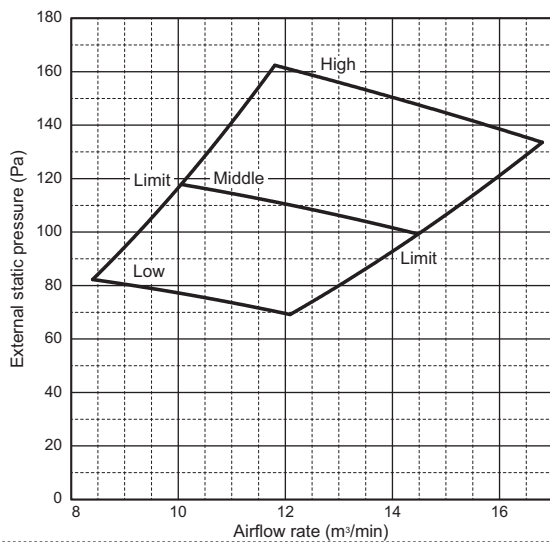
### PEFY-P40VMA(L)-E3

External static pressure : 100Pa  
Power source : 220-240V



### PEFY-P40VMA(L)-E3

External static pressure : 150Pa  
Power source : 220-240V



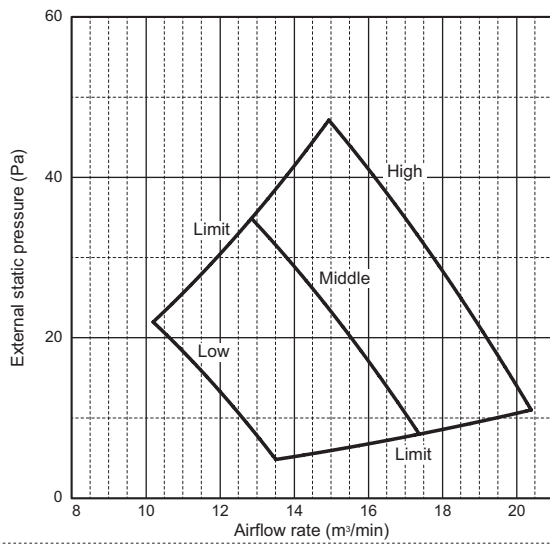
## 6. FAN CHARACTERISTICS CURVES

Ceiling concealed (Medium static pressure type)

PEFY-P-VMA(L)-E3

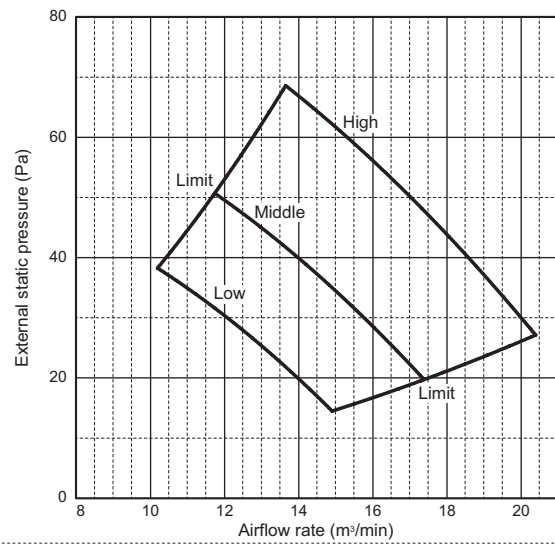
### PEFY-P50VMA(L)-E3

External static pressure : 35Pa  
Power source : 220-240V



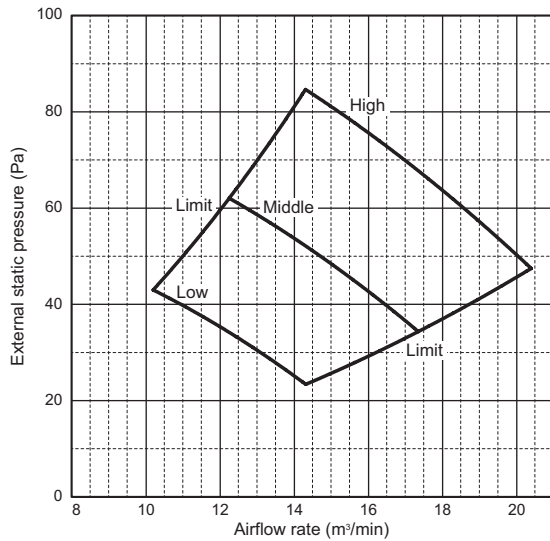
### PEFY-P50VMA(L)-E3

External static pressure : 50Pa  
Power source : 220-240V



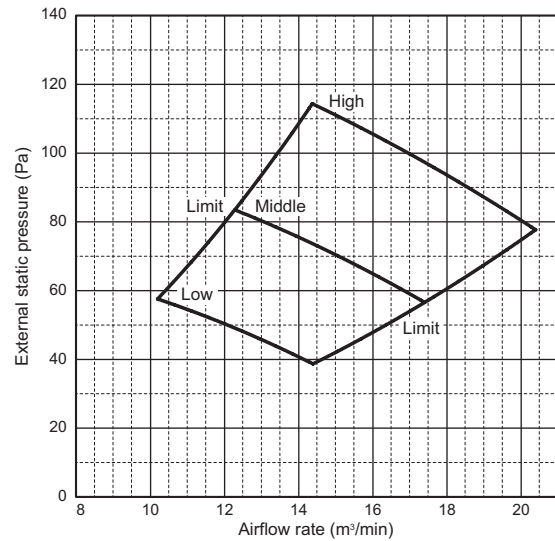
### PEFY-P50VMA(L)-E3

External static pressure : 70Pa  
Power source : 220-240V



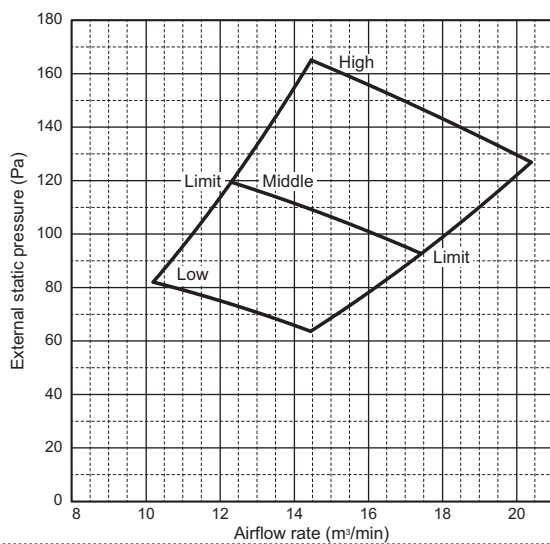
### PEFY-P50VMA(L)-E3

External static pressure : 100Pa  
Power source : 220-240V



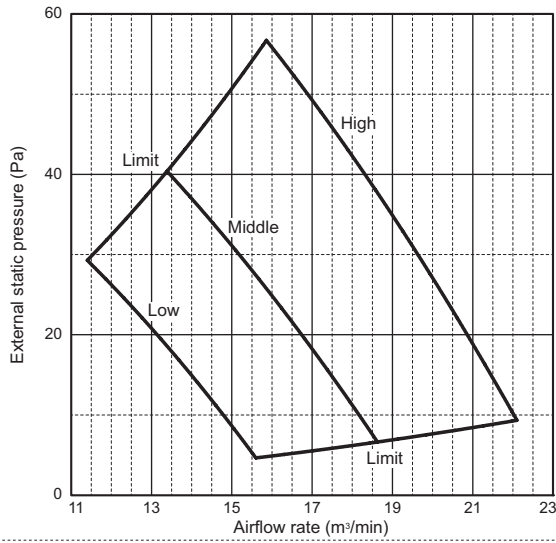
### PEFY-P50VMA(L)-E3

External static pressure : 150Pa  
Power source : 220-240V



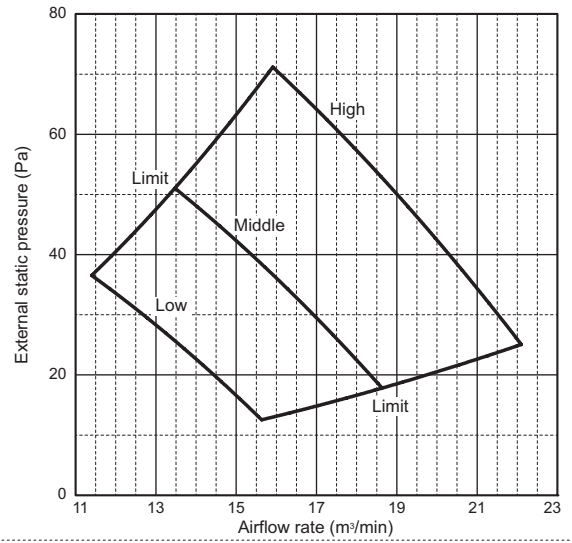
**PEFY-P63VMA(L)-E3**

External static pressure : 35Pa  
Power source : 220-240V



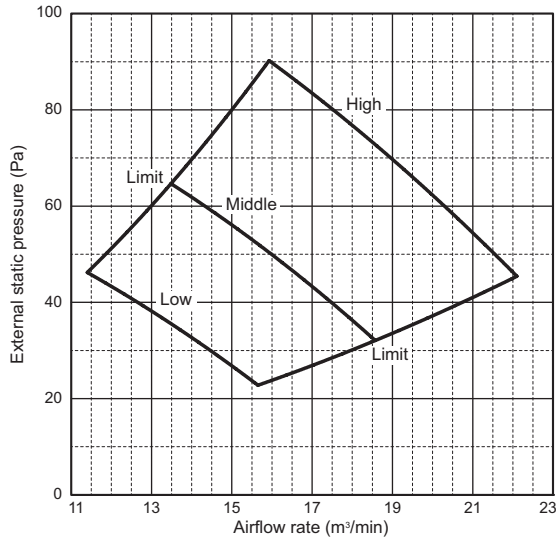
**PEFY-P63VMA(L)-E3**

External static pressure : 50Pa  
Power source : 220-240V



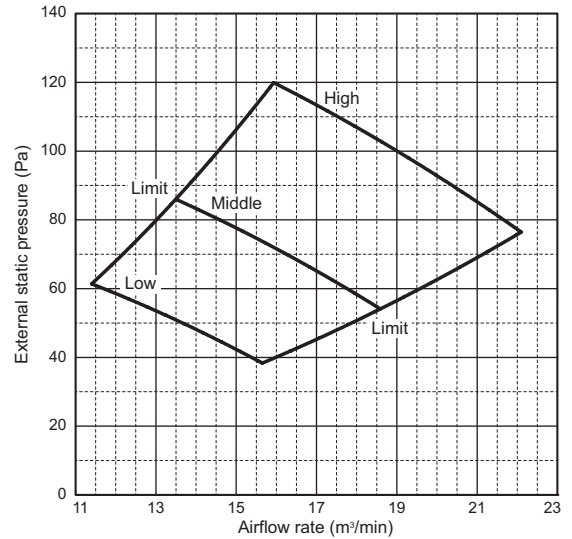
**PEFY-P63VMA(L)-E3**

External static pressure : 70Pa  
Power source : 220-240V



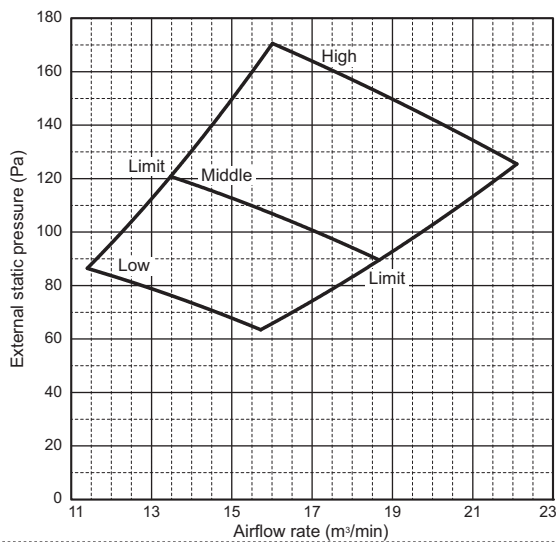
**PEFY-P63VMA(L)-E3**

External static pressure : 100Pa  
Power source : 220-240V



**PEFY-P63VMA(L)-E3**

External static pressure : 150Pa  
Power source : 220-240V

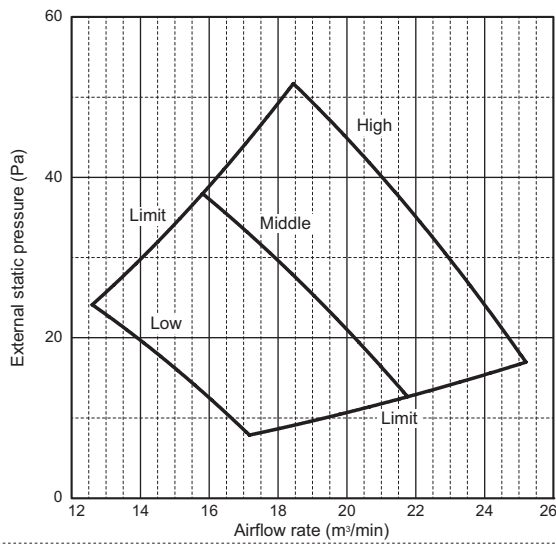


## 6. FAN CHARACTERISTICS CURVES

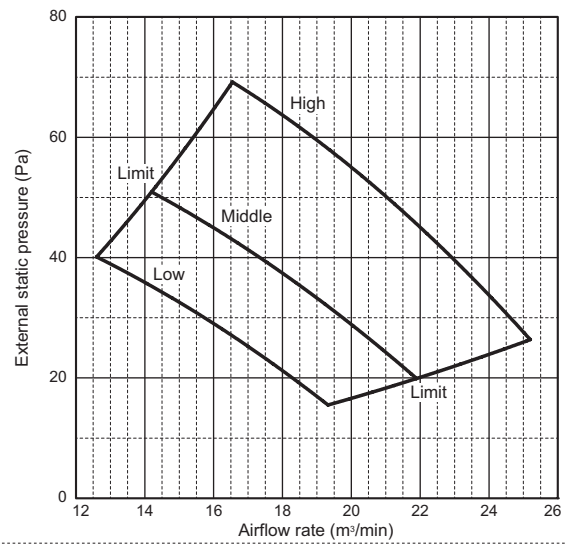
Ceiling concealed (Medium static pressure type)

PEFY-P-VMA(L)-E3

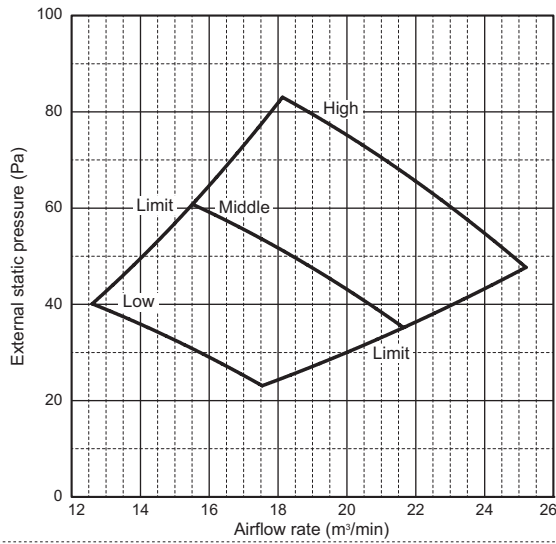
**PEFY-P71, 80VMA(L)-E3**  
 External static pressure : 40Pa  
 Power source : 220-240V



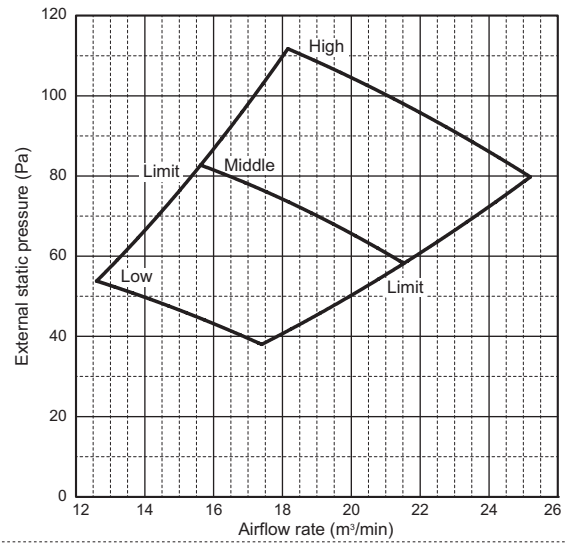
**PEFY-P71, 80VMA(L)-E3**  
 External static pressure : 50Pa  
 Power source : 220-240V



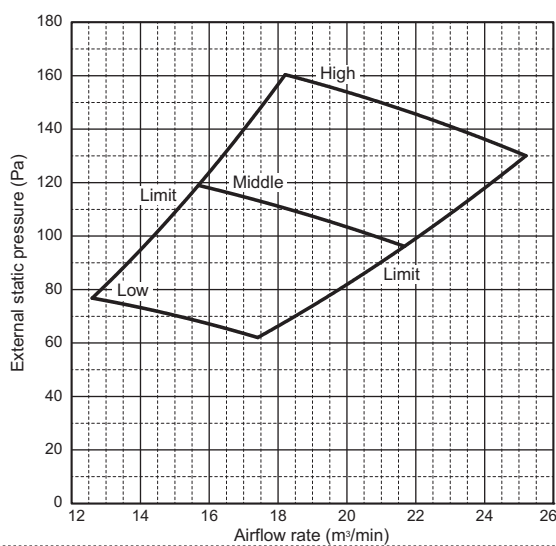
**PEFY-P71, 80VMA(L)-E3**  
 External static pressure : 70Pa  
 Power source : 220-240V



**PEFY-P71, 80VMA(L)-E3**  
 External static pressure : 100Pa  
 Power source : 220-240V

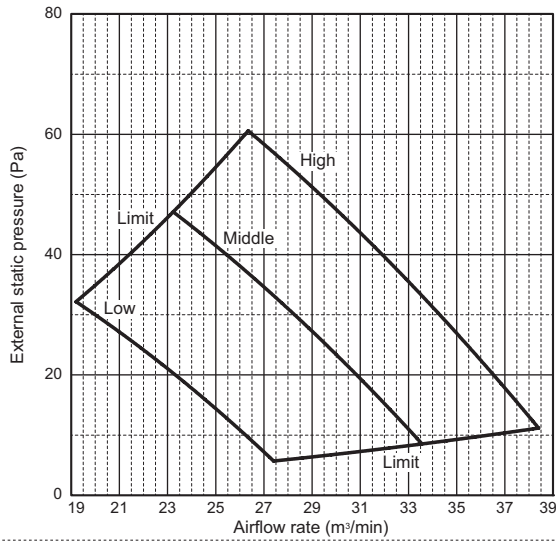


**PEFY-P71, 80VMA(L)-E3**  
 External static pressure : 150Pa  
 Power source : 220-240V



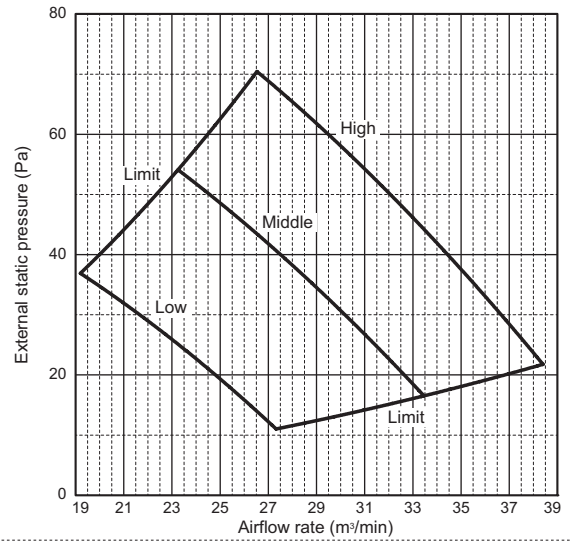
**PEFY-P100VMA(L)-E3**

External static pressure : 40Pa  
Power source : 220-240V



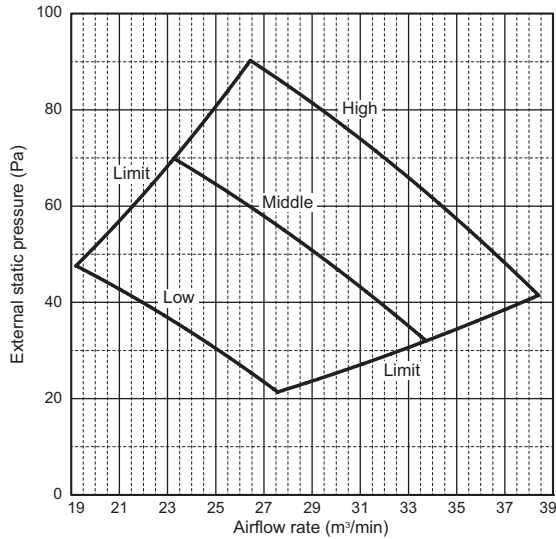
**PEFY-P100VMA(L)-E3**

External static pressure : 50Pa  
Power source : 220-240V



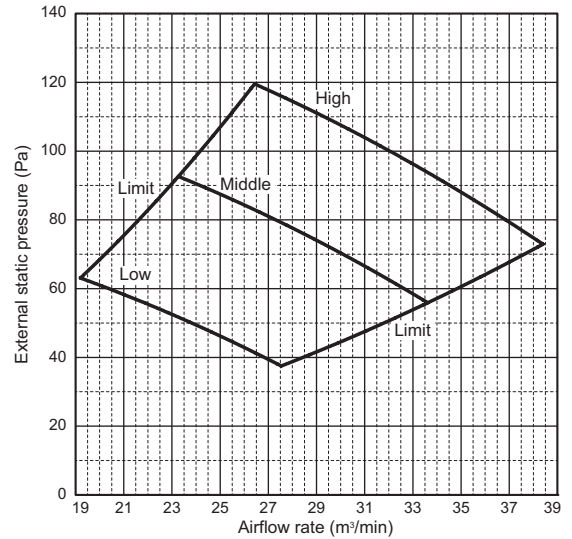
**PEFY-P100VMA(L)-E3**

External static pressure : 70Pa  
Power source : 220-240V



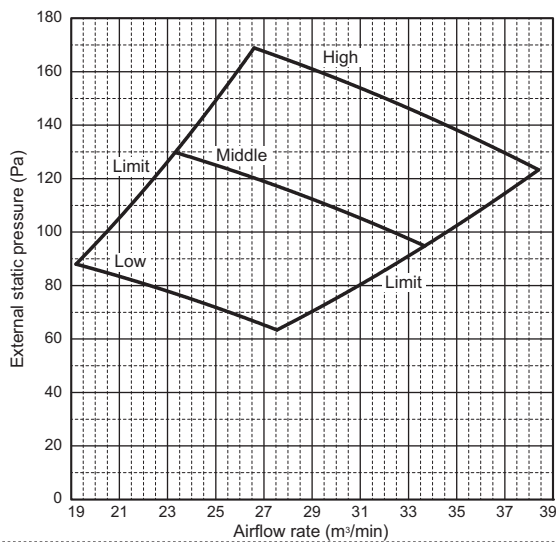
**PEFY-P100VMA(L)-E3**

External static pressure : 100Pa  
Power source : 220-240V



**PEFY-P100VMA(L)-E3**

External static pressure : 150Pa  
Power source : 220-240V



## 6. FAN CHARACTERISTICS CURVES

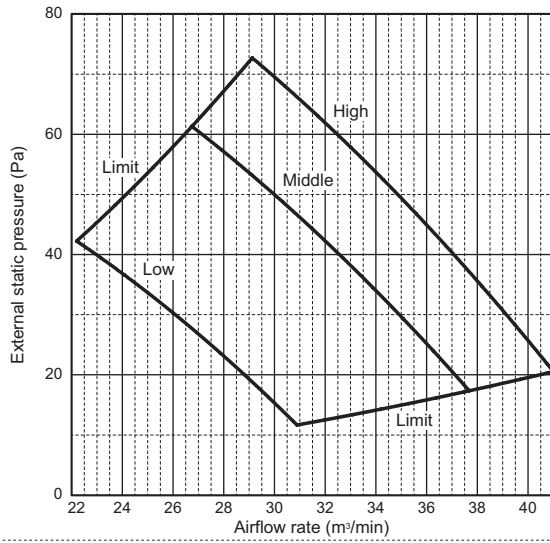
Ceiling concealed (Medium static pressure type)

PEFY-P-VMA(L)-E3

### PEFY-P125VMA(L)-E3

External static pressure : 40Pa

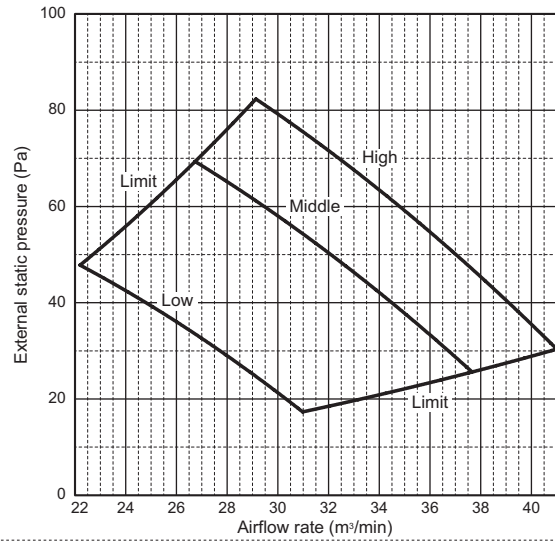
Power source : 220-240V



### PEFY-P125VMA(L)-E3

External static pressure : 50Pa

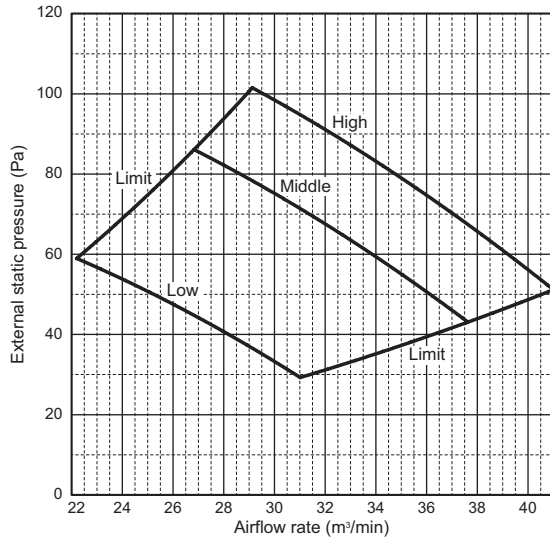
Power source : 220-240V



### PEFY-P125VMA(L)-E3

External static pressure : 70Pa

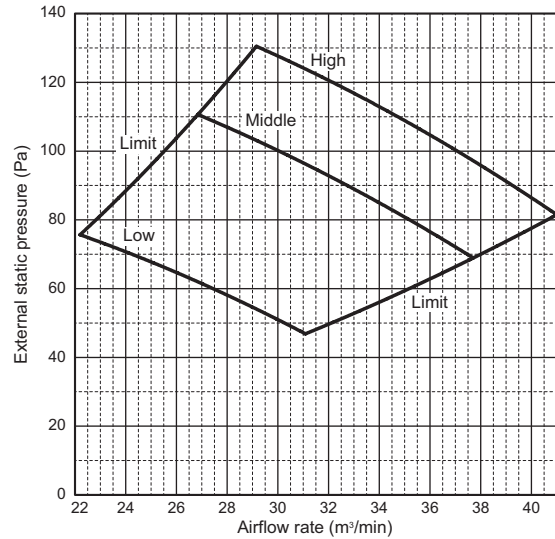
Power source : 220-240V



### PEFY-P125VMA(L)-E3

External static pressure : 100Pa

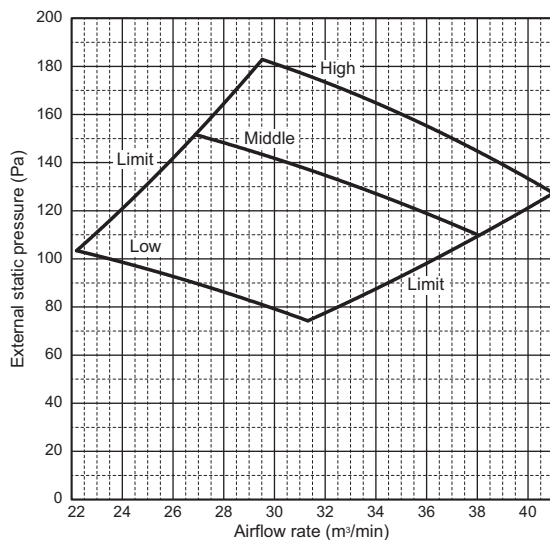
Power source : 220-240V



### PEFY-P125VMA(L)-E3

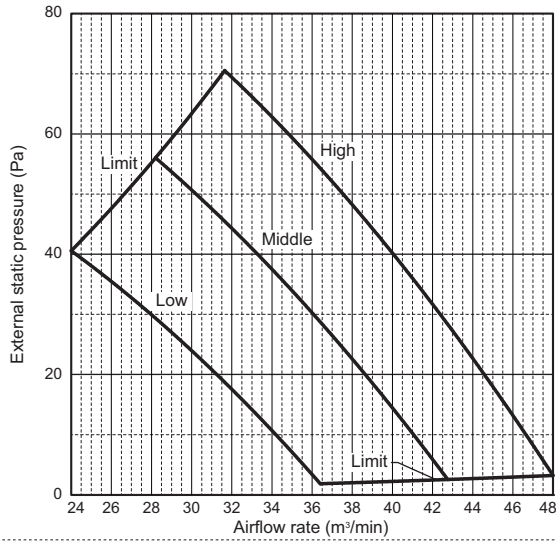
External static pressure : 150Pa

Power source : 220-240V



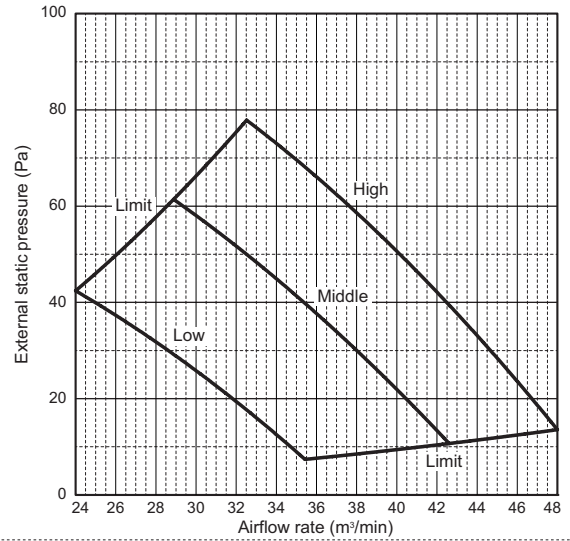
**PEFY-P140VMA(L)-E3**

External static pressure : 40Pa  
Power source : 220-240V



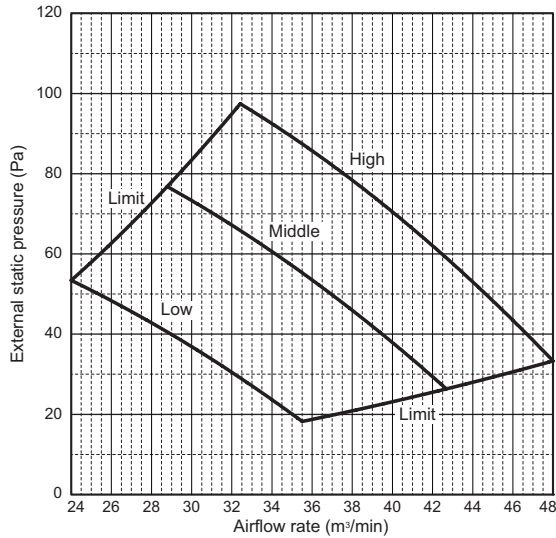
**PEFY-P140VMA(L)-E3**

External static pressure : 50Pa  
Power source : 220-240V



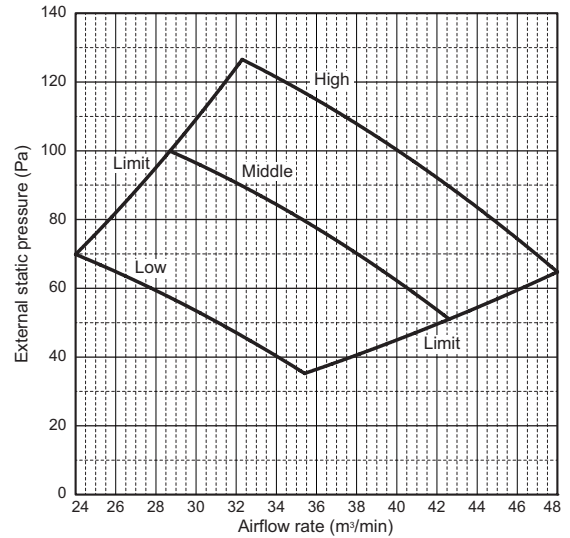
**PEFY-P140VMA(L)-E3**

External static pressure : 70Pa  
Power source : 220-240V



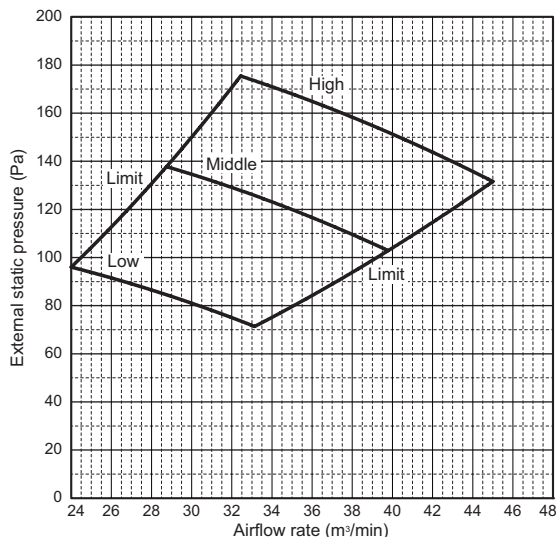
**PEFY-P140VMA(L)-E3**

External static pressure : 100Pa  
Power source : 220-240V



**PEFY-P140VMA(L)-E3**

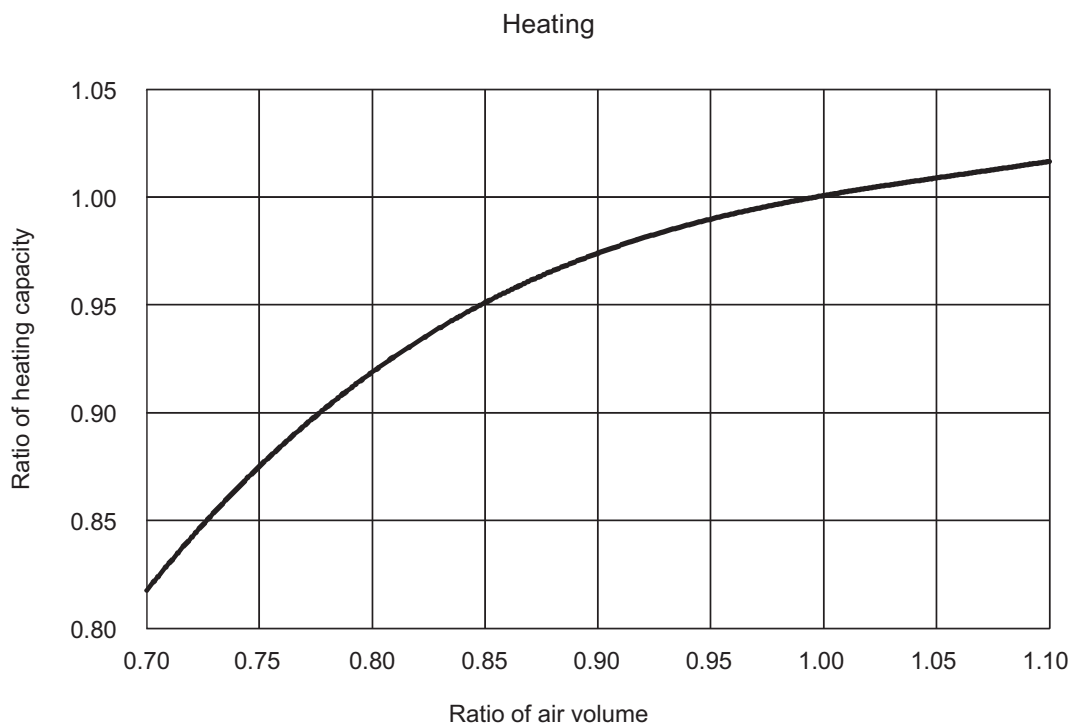
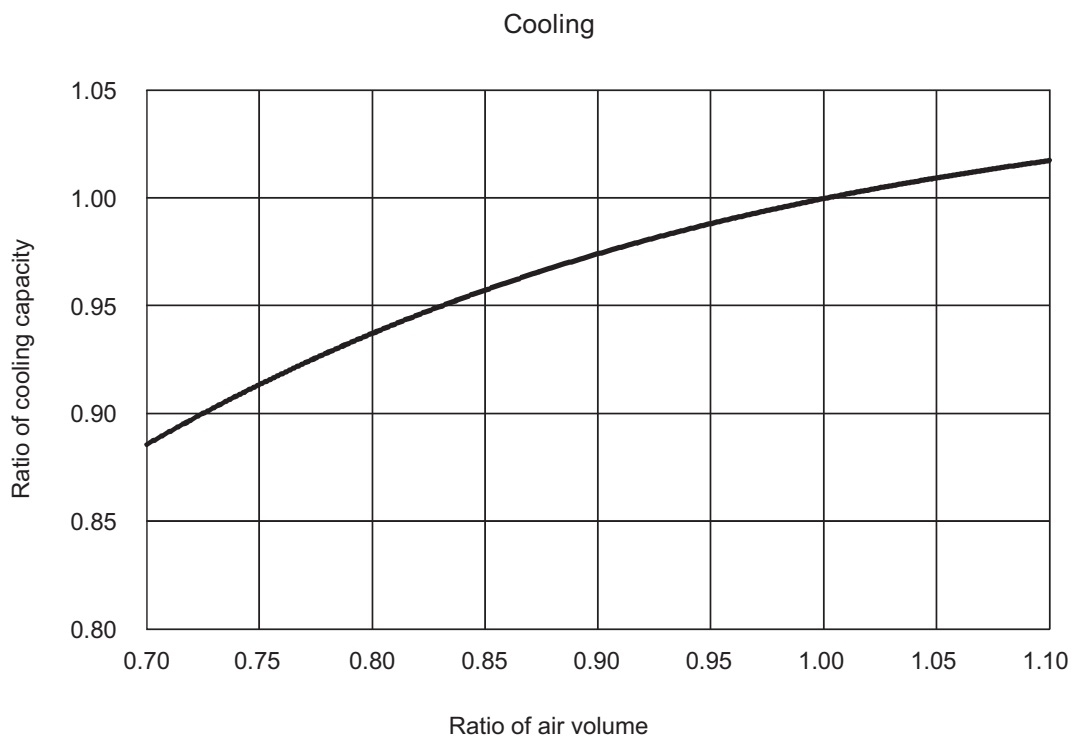
External static pressure : 150Pa  
Power source : 220-240V





7-1. Correction by fan speed

PEFY-P-VMA(L)-E3



## 8. ELECTRICAL CHARACTERISTICS

Ceiling concealed (Medium static pressure type)

Symbols: MCA (Max.Circuit Amps =1.25xFLA), FLA (Full Load Amps)  
IFM (Indoor Fan Motor), Output (Fan motor rated output)

| PEFY-P-VMA(L)-E3   | Power supply                   |                          |         | IFM         |         |
|--------------------|--------------------------------|--------------------------|---------|-------------|---------|
|                    | Volts/Hz                       | Range +-10%              | MCA (A) | Output (kW) | FLA (A) |
| PEFY-P20VMA(L)-E3  | 220-240V/50Hz<br>220-240V/60Hz | Max.: 264V<br>Min.: 198V | 0.93    | 0.085       | 0.74    |
| PEFY-P25VMA(L)-E3  |                                |                          | 0.93    | 0.085       | 0.74    |
| PEFY-P32VMA(L)-E3  |                                |                          | 1.19    | 0.085       | 0.95    |
| PEFY-P40VMA(L)-E3  |                                |                          | 1.45    | 0.121       | 1.16    |
| PEFY-P50VMA(L)-E3  |                                |                          | 1.55    | 0.121       | 1.24    |
| PEFY-P63VMA(L)-E3  |                                |                          | 1.69    | 0.121       | 1.35    |
| PEFY-P71VMA(L)-E3  |                                |                          | 2.31    | 0.121       | 1.85    |
| PEFY-P80VMA(L)-E3  |                                |                          | 2.38    | 0.121       | 1.90    |
| PEFY-P100VMA(L)-E3 |                                |                          | 2.81    | 0.300       | 2.25    |
| PEFY-P125VMA(L)-E3 |                                |                          | 2.93    | 0.300       | 2.34    |
| PEFY-P140VMA(L)-E3 |                                |                          | 3.29    | 0.300       | 2.63    |

PEFY-P-VMA(L)-E3

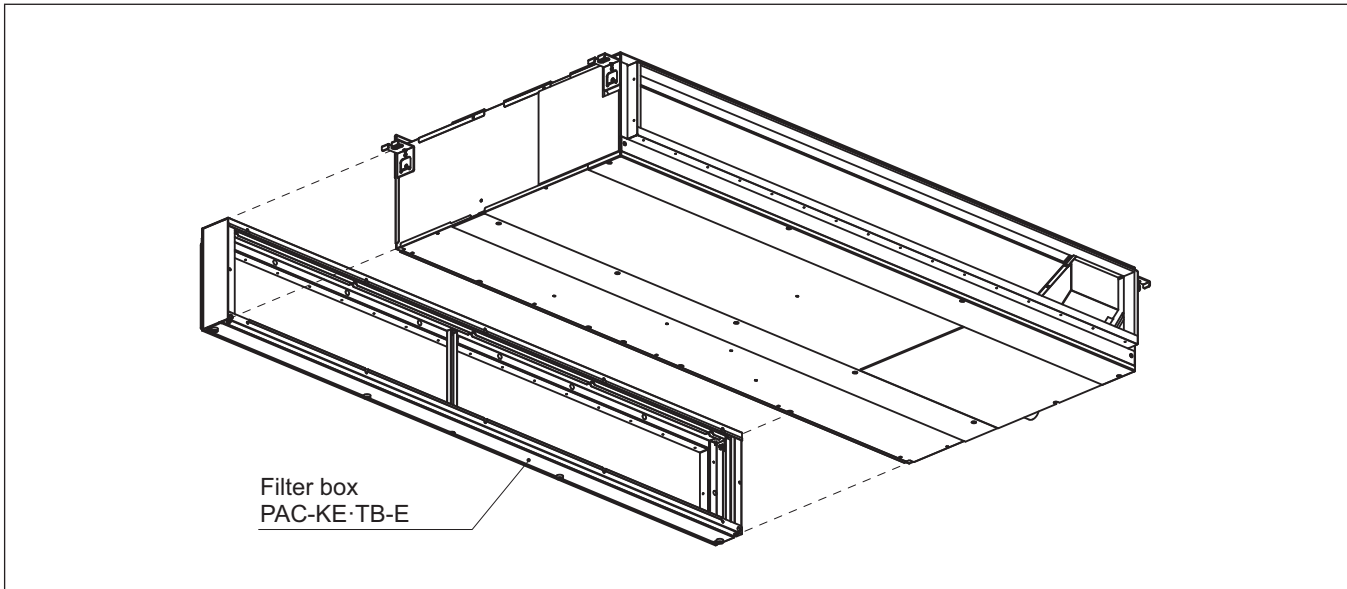
9-1. Optional parts line up for the Indoor unit

Filter box

PEFY-P20, 25, 32VMA(L)-E3  
 PEFY-P40, 50, 63VMA(L)-E3  
 PEFY-P71, 80VMA(L)-E3  
 PEFY-P100, 125VMA(L)-E3  
 PEFY-P140VMA(L)-E3


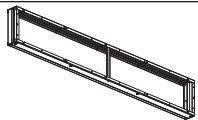
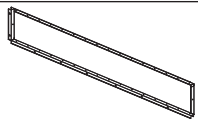
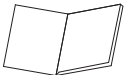
PAC-KE91TB-E  
 PAC-KE92TB-E  
 PAC-KE93TB-E  
 PAC-KE94TB-E  
 PAC-KE95TB-E

● PEFY-P-VMA(L)-E3



9-2. Filter box

PAC-KE-TB-E

|          |                                                                                     |                                                                                     |                                                                                     |                                                                                       |  |
|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
| Item     | 1 Screw                                                                             | 2 Filter box                                                                        | 3 FLANGE                                                                            | 4 Installation manual                                                                 |  |
| Quantity | 30                                                                                  | 1                                                                                   | 1                                                                                   | 1                                                                                     |  |
| Shape    |  |  |  |  |  |

Detailed installation information should be referred to its Installation Manual.



**for a greener tomorrow**

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

**⚠ Warning**

- Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
  - Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, repair, or at the time of disposal of the unit.
  - It may also be in violation of applicable laws.
  - MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.
- Our air conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R410A.

**MITSUBISHI ELECTRIC CORPORATION**