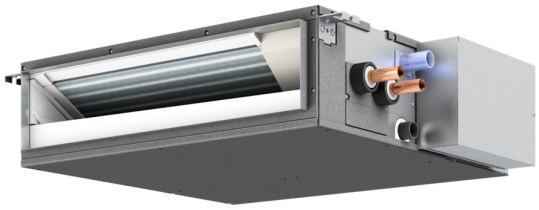
# Submittal Data: PEFY-WL18NMSU-A

MITSUBISHI ELECTRIC
Heating and Cooling

| | | | |
|---|---|---|---|
| Job Name: | | Location: | |
| Purchaser: | | Submitted By: | |
| Submitted To: | | Engineer: | |
| Date: | | Application: | |

☐ Reference ☐ Approval ☐ Construction



Reference Image

## GENERAL FEATURE:

- Compatible with CityMulti Heat Recovery Outdoor Unit and Hybrid Branch Box
- HVRF Indoor Unit with hydronic coil
- A built-in condensate lift mechanism (pump)
- Dual set point

| Model | PEFY-WL18NMSU-A |
|---|---|
| Power Source | 1-phase 208/230 V, 60 Hz |
| Cooling Capacity Nominal (Btu/h) | 18,000 |
| Cooling Capacity Nominal (kW) | 5.3 |
| Cooling Power Input (kW) | 0.082 |
| Cooling Current Input (A, 208/230V) | 0.75/0.71 |
| Heating Capacity Nominal (Btu/h) | 20,000 |
| Heating Capacity Nominal (kW) | 5.9 |
| Heating Power Input (kW) | 0.08 |
| Heating Current Input (A) | 0.70/0.66 |
| Indoor Fan Motor FLA (A) | 1.08 |
| Minimum Circuit Ampacity (A) | 1.35 |
| External finish | Galvanized steel plate |
| External Dimensions (mm) | 200 x 990 x 700 |
| External Dimensions (in) | 7-7/8 x 39 x 27-9/16 |
| Net Weight (lb/kg) | 51 (23) |
| Heat Exchanger | Cross fin (Aluminum fin and copper tube) |
| Water Volume (L) | 1.2 |
| Fan Type × Quantity | Sirocco fan x 3 |
| Airflow, Low-Mid-High (cfm) | 353 - 441 - 530 |
| Airflow, Low-Mid-High (m³/min) | 10.0 - 12.5 - 15.0 |
| Airflow, Low-Mid-High (L/s) | 167 - 208 - 250 |
| Sound Pressure Level (dB<A>) Low-Mid-High measured in anechoic room | 30-34-37 |
| Fan Motor Type | DC motor |
| Fan Motor Output (kW) | 0.096 |
| External Static Pressure (in. WG) | <0.02> - 0.06 - <0.14> - <0.20> |
| External Static Pressure (Pa) | <5> - 15 - <35> - <50> |
| Insulation material | Polystyrene foam, Polyethylene foam, Urethane foam |
| Air Filter | PP honeycomb fabric. |
| Water piping diameter Connection Size Inlet (mm O.D.) | 22 |
| Water piping diameter Connection Size Outlet (mm O.D.) | 22 |
| Water piping diameter Filed Pipe Size Inlet (mm I.D.) | 20 |
| Water piping diameter Filed Pipe Size Outlet (mm I.D.) | 20 |
| Field drain pipe size (inch/mm) | O.D.1-1/4 (32) |
| Optional External Heater Adapter | PAC-YU25HT |

Notes:

1. Nominal cooling conditions
   Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.),
   Outdoor: 95°F D.B. (35°C D.B.)
   Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)
2. The values are measured at the factory setting of external static pressure.
3. Nominal heating conditions
   Indoor: 70°F D.B. (21.1°C D.B.),
   Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)
   Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)
4. The factory setting of external static pressure is shown without <>.
5. Refer to 'Fan characteristics curves', according to the external static pressure, in DATA BOOK for the usable range of air flow rate.
6. Be sure to install a valve on the water inlet/outlet.
7. Install a strainer (40 mesh or more) on the pipe next to the valve to remove the foreign matters.
8. The water circuit must be a closed circuit (water is not exposed to the atmosphere).
9. All electrical work shall comply with Nation (CEC) and local codes and regulations
10. Should this document be altered or changed without MESCA's permission, it becomes null and void. MESCA assumes no responsibility for any consequences in such cases.
11. Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved accessories. Use of non-MESCA supported accessories will affect warranty coverage.

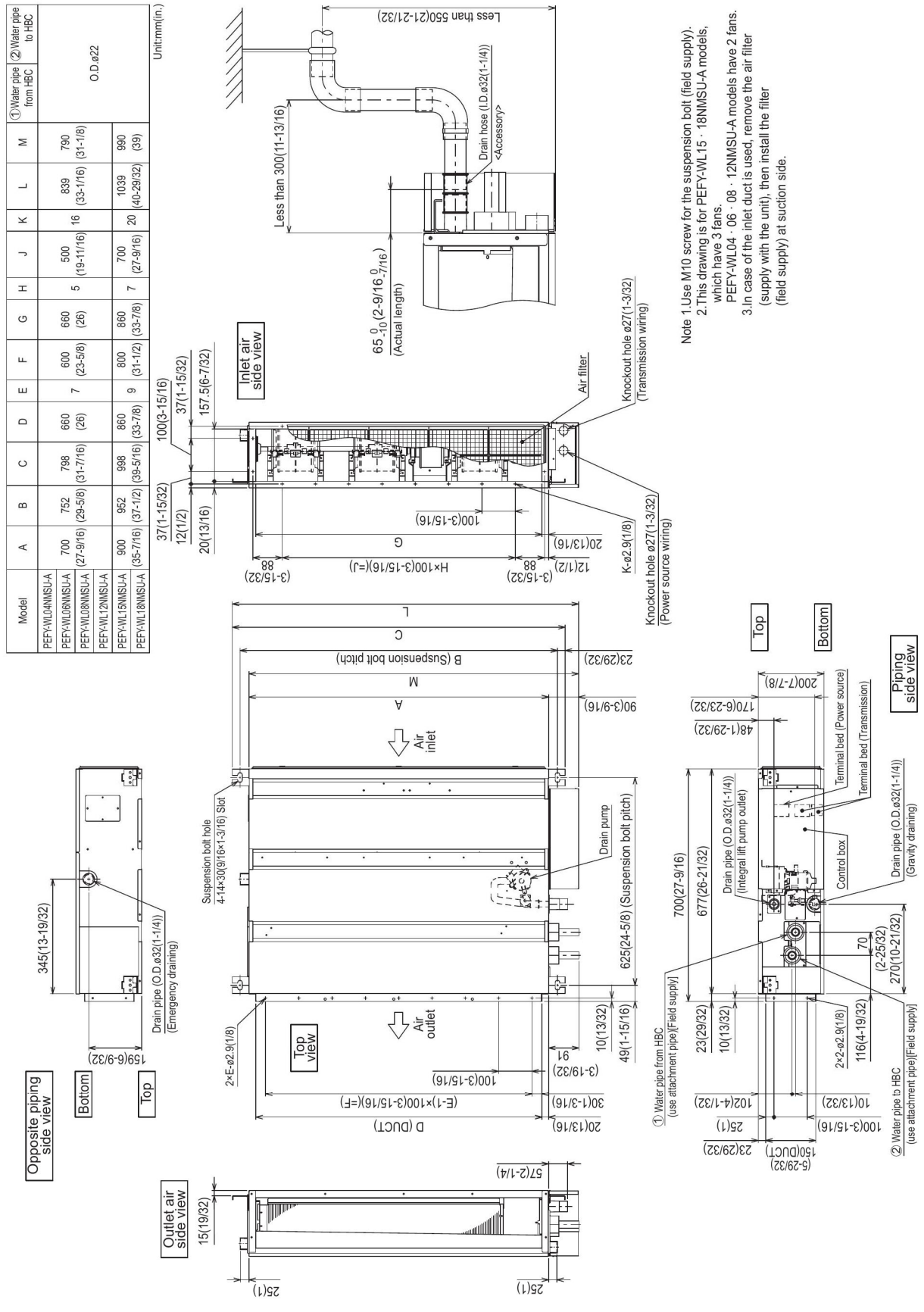
# PEFY-WL04, 06, 08, 12, 15, 18NMSU-A

Unit: mm (in.)

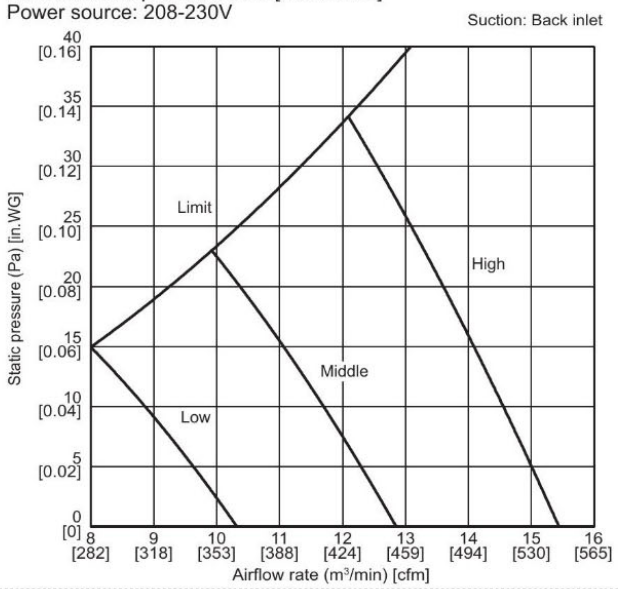
| Model | A | B | C | D | E | F | G | H | J | K | L | M | ①Water pipe from HBC | ②Water pipe to HBC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEFY-WL04NMSU-A | 700 (27-9/16) | 752 (29-5/8) | 798 (31-7/16) | 660 (26) | 7 | 600 (23-5/8) | 660 (26) | 5 | 500 (19-11/16) | 16 | 839 (33-1/16) | 790 (31-1/8) | O.D.ø22 | |
| PEFY-WL06NMSU-A | | | | | | | | | | | | | | |
| PEFY-WL08NMSU-A | | | | | | | | | | | | | | |
| PEFY-WL12NMSU-A | | | | | | | | | | | | | | |
| PEFY-WL15NMSU-A | 900 (35-7/16) | 952 (37-1/2) | 998 (39-5/16) | 860 (33-7/8) | 9 | 800 (31-1/2) | 860 (33-7/8) | 7 | 700 (27-9/16) | 20 | 1039 (40-29/32) | 990 (39) | | |
| PEFY-WL18NMSU-A | | | | | | | | | | | | | | |

Unit:mm(in.)

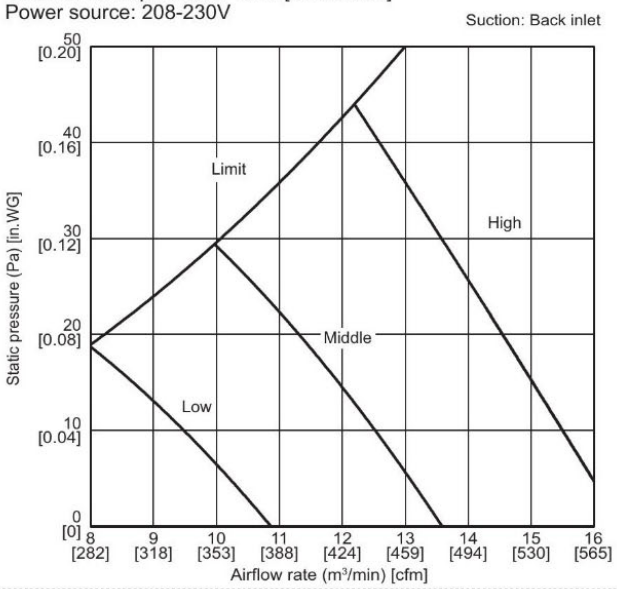
Note 1.Use M10 screw for the suspension bolt (field supply).
2.This drawing is for PEFY-WL15 · 18NMSU-A models, which have 3 fans.
PEFY-WL04 · 06 · 08 · 12NMSU-A models have 2 fans.
3.In case of the inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.



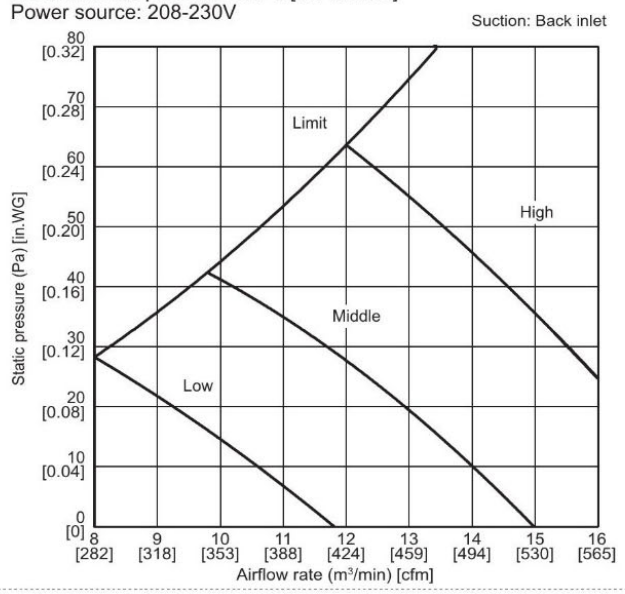
**PEFY-WL18NMSU-A**
External static pressure: 5Pa [0.02in.WG]
Power source: 208-230V



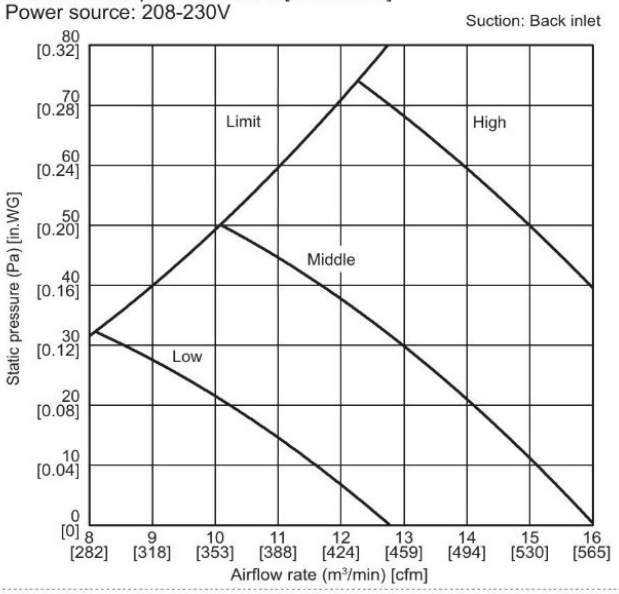

**PEFY-WL18NMSU-A**
External static pressure: 15Pa [0.06in.WG]
Power source: 208-230V




**PEFY-WL18NMSU-A**
External static pressure: 35Pa [0.14in.WG]
Power source: 208-230V




**PEFY-WL18NMSU-A**
External static pressure: 50Pa [0.20in.WG]
Power source: 208-230V




Note: Operate only within the operating range shown in the above fan characteristic curves