CITY MULTI®

# PEFY-M54NMHU-A
# 54,000 BTU/H CEILING CONCEALED INDOOR UNIT

MITSUBISHI ELECTRIC
HEATING & AIR CONDITIONING

| | | | |
|---|---|---|---|
| **Job Name:** | | | |
| **System Reference:** | | **Date:** | |

## GENERAL FEATURES

- Dual Set Point: The controller can be used to program two different set points. The unit will automatically adjust between the set points for optimum comfort.
- Condensate Lift Mechanism: Reduces the need for an additional pump to remove condensate. Units with a condensate lift mechanism also include an overflow safety switch.
- Leak Detection Sensor Built-in: Dual Compatible (R32/R454B) Refrigerant Leak Sensor built-in
- Dual Compatible Refrigerant: Indoor unit is dual compatible with both R-32 and R-454B refrigerants.

| SPECIFICATIONS | | | SYSTEM |
|---|---|---|---|
| UNIT TYPE | | | PEFY-M54NMHU-A |
| Cooling Capacity (Nominal)[1] | Cooling Capacity (Nominal) | Btu/h | 54000 |
| Heating Capacity (Nominal)[1] | Heating Capacity (Nominal) | Btu/h | 60000 |
| Electrical | Voltage, Phase, Frequency | V AC / V AC , ø , Hz | 208 / 230 , 1 , 60 |
| | Power Consumption Cooling | kW | 0.37 |
| | Power Consumption Heating | kW | 0.37 |
| | Current Cooling | A | 2.50 |
| | Current Heating | A | 2.50 |
| | MCA | A | 4.75 |
| | MOCP | A | 15 |
| Indoor Unit | External Finish Color | | Galvanized Steel |
| | Unit Dimensions (W x D x H) | inch x inch x inch [ mm x mm x mm ] | 47-1/16 x 35-7/16 x 15 [ 1195 x 900 x 380 ] |
| | Unit Weight | lbs [ kg ] | 126 [ 57 ] |
| | Heat Exchanger | | Cross fin (Aluminum fin and Copper Tube) |
| | Dual Barrier Coating on HEX | | No |
| | Dual Barrier Coating on Fan | | No |
| Refrigerant | Type | | R-32 / R-454B |
| Fan | Motor Type | | DC Motor |
| | Motor Output | W | 375 |
| | External Static Pressure | in.WG | 0.40 , 0.60 , 0.80 , 1 |
| | Factory Default Static Pressure | in.WG | 0.60 |
| | Airflow Rate | CFM | 989 , 1201 , 1413 |
| Sound Pressure Level (Measured in anechoic room) | Cooling | dB (A) | 35 , 40 , 45 |
| | Heating | dB (A) | 35 , 40 , 45 |
| Piping | Liquid Pipe Size O.D. | inch [ mm ] | 3/8 [ 9.52 ] |
| | Gas Pipe Size O.D. | inch [ mm ] | 5/8 [ 15.88 ] |
| | Drain Pipe Size O.D. | inch [ mm ] | 1.25 [ 32 ] |

**Notes**

[1]Cooling / Heating capacity indicated at operation under the following conditions: Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB; Outdoor 95° F (35° C) DBHeating | Indoor: 68° F (20° C) DB; Outdoor 45° F (7° C) DB / 43° F (6° C) WB


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# INDOOR UNIT ACCESSORIES: PEFY-M54NMHU-A

| | | | |
|---|---|---|---|
| Alarm Kit | Alarm kit | ☐ | PAC-SL54AL-E |
| | Power supply interface for Alarm Kit | ☐ | PAC-IF55AL-E |
| Condensate | Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h | ☐ | X88-721 |
| | Refco Condensate Pump 100-240V up to 120k BTU/h | ☐ | COMBI |
| | Blue Diamond Sensor Extension Cable 15 Ft | ☐ | C13-103 |
| | Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h | ☐ | X87-835 |
| | Sauermann Condensate Pump 120-230V up to 60k BTU/h | ☐ | SI30-230 |
| | Blue Diamond MultiTank collection tank for use with MegaBlue | ☐ | C21-014 |
| Control Interface | Procon BACnet® and Modbus® Interface | ☐ | PAC-UKPRC001-CN-1 |
| | Wireless Interface 2 for Comfrot app | ☐ | PAC-USWHS002-WF-2 |
| | kumo station® for Comfort app | ☐ | PAC-WHS01HC-E |
| | Thermostat Interface | ☐ | PAC-US446CN-1 |
| | IT Extender | ☐ | PAC-WHS01IE-E |
| Control Wire | MA Control Wire - 1,000 Feet | ☐ | CW222-1000 |
| | M-Net Control Wire - 1,000 Foot Roll | ☐ | CW162S-1000 |
| | M-Net Control Wire - 250 Foot Roll | ☐ | CW162S-250 |
| | MA Control Wire - 250Feet | ☐ | CW222-250 |
| Filter Box | Filter Box with 2" thick pleated MERV 13 Filters | ☐ | FBH2-3 |
| Lineset | 3/8 x 5/8 Lineset Twin-Tube Insulation - 100 feet | ☐ | MPLS385812T-100 |
| | 3/8 x 5/8 Lineset Twin-Tube Insulation - 50 feet | ☐ | MPLS385812T-50 |
| | 3/8 x 5/8 Lineset Twin-Tube Insulation - 15 feet | ☐ | MPLS385812T-15 |
| | 3/8 x 5/8 Lineset Twin-Tube Insulation - 10 feet | ☐ | MPLS385812T-10 |
| | 3/8 x 5/8 Lineset Twin-Tube Insulation - 30 feet | ☐ | MPLS385812T-30 |
| | 3/8 x 5/8 Lineset Twin-Tube Insulation - 65 feet | ☐ | MPLS385812T-65 |
| Remote Sensor | Wireless temperature and humidity sensor for Comfort app | ☐ | PAC-USWHS003-TH-1 |
| | Wall Mount Remote Temperature Sensor | ☐ | PAC-SE42TS-E |
| | Flush Mount Remote Temperature Sensor | ☐ | PAC-USSEN002-FM-2 |
| Terminal Signal Adapter | Connector and wire for On/Off and Fan command using CN32 | ☐ | PAC-715AD |
| | Backup Heat Relay Kit | ☐ | CN24RELAY-KIT-CM3 |
| | Connector and wire for On/Off and Error status using CN51 and CN52 | ☐ | PAC-725AD |
| Wired Remote Controller | Simple MA Remote Controller | ☐ | PAC-YT53CRAU-J |
| | Deluxe MA Remote Controller | ☐ | PAR-43MAAUB |
| | Simple Direct Wired Remote Controller | ☐ | PAC-SDW01RC-2 |
| | Touch MA Remote Controller | ☐ | PAR-CT01MAU-SB |
| | Smart ME Remote Controller | ☐ | PAR-U01MEDU-K |
| Wireless Remote Controller | Wireless MA Signal Receiver (for PAR-FL32MA-E) | ☐ | PAR-FA32MA |
| | Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E) | ☐ | PAR-FL32MA-E |
| | Wireless RedLINK™ Remote Controller | ☐ | MHK2 |

**Notes**

[1]Requires MAC-334IF-E Interface to connect MA controller


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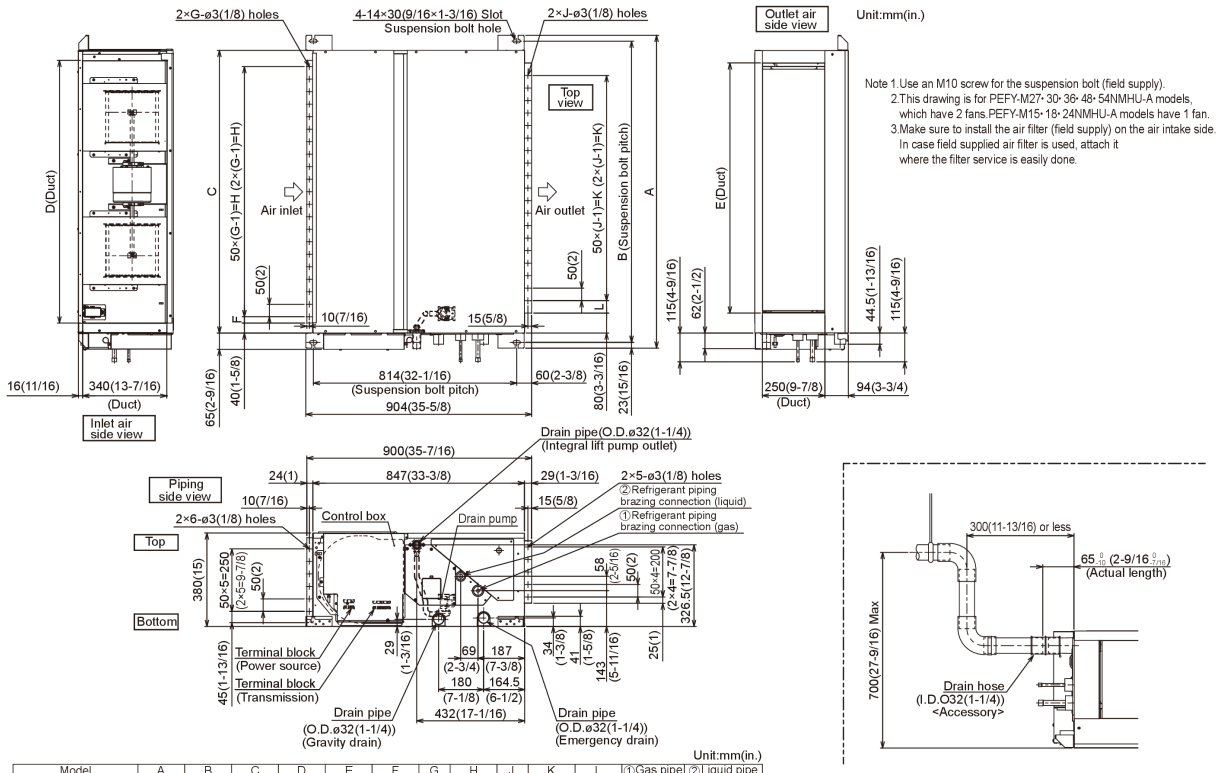
# INDOOR UNIT DIMENSIONS: PEFY-M54NMHU-A

PEFY-M15, 18, 24, 27, 30, 36, 48, 54NMHU-A




Unit:mm(in.)

| Model | A | B | C | D | E | F | G | H | J | K | L | ①Gas pipe | ②Liquid pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PEFY-M15･18NMHU-A | 800 (31-1/2) | 754 (29-11/16) | 680 (26-13/16) | 600 (23-5/8) | 550 (21-11/16) | 50 (2) | 11 | 500 (19-11/16) | 10 | 450 (17-3/4) | 50 (2) | ø12.7 (1/2) | ø6.35 (1/4) |
| PEFY-M24NMHU-A | | | | | | | | | | | | | |
| PEFY-M27･30NMHU-A | 1085 (42-3/4) | 1039 (40-15/16) | 965 (38) | 885 (34-7/8) | 835 (32-7/8) | 42.5 (1-11/16) | 17 | 800 (31-1/2) | 15 | 700 (27-9/16) | 67 (2-11/16) | ø15.88 (5/8) | ø9.52 (3/8) |
| PEFY-M36･48･54NMHU-A | 1250 (49-1/4) | 1204 (47-7/16) | 1130 (44-1/2) | 1050 (41-3/8) | 1000 (39-3/8) | 25 (1) | 21 | 1000 (39-3/8) | 19 | 900 (35-7/16) | 50 (2) | | |

Unit: mm (in.)

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