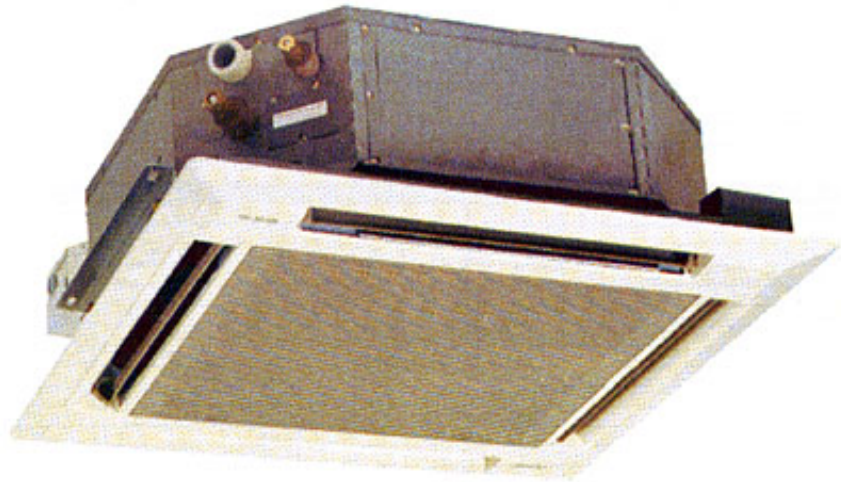


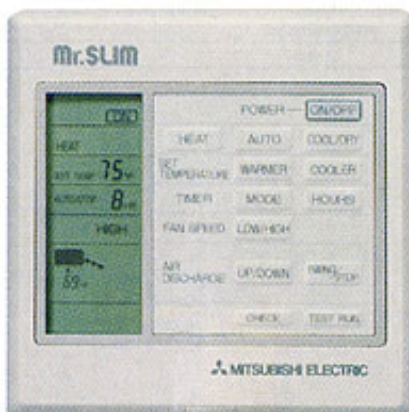
Mr.SLIM™ PLH Ceiling Suspended Series



- **More compact.**
- **Superior air diffusion.**
- **Auto/swing vane operation.**
- **Standard ambient operation down to -18°C (0°F).**

- Ease of maintenance filter system.
- Enhanced noise suppression.
- Simplified installation.
- Computerized dehumidification.

- Computerized self-diagnostics.
- Cold-air prevention mode during heating.
- Comfort booster heater.
- Computer controlled defrost operation.
- All units pretested at factory.
- 4-way sweep louvers
- Supply and return ductability



"Intelligent" remote control

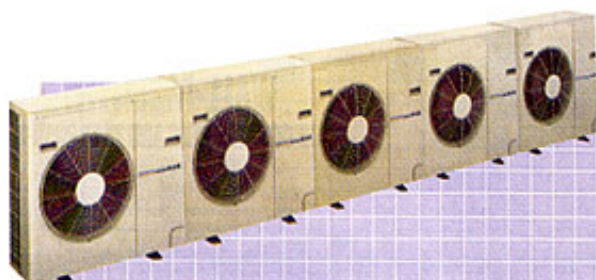
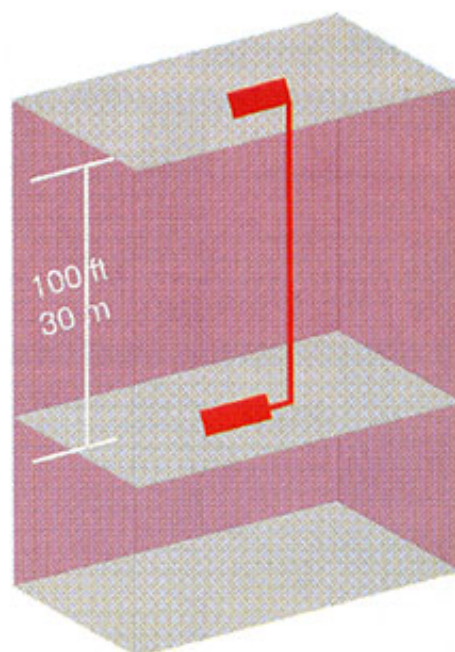
- May be located up to 167 M (550 ft) away.
- Does not have to be located in zone.
- May control up to 50 units.
- May be interfaced to full energy management systems (See Data Sheet 97APP03).
- May be used with status panel/alarm system (See Engineering Manual).
- Optional solid state 7 day timer control

DUCTLESS-SPLIT HEAT PUMPS

HIGHLY EFFICIENT
REDI-CHARGED
REFRIGERANT SYSTEM

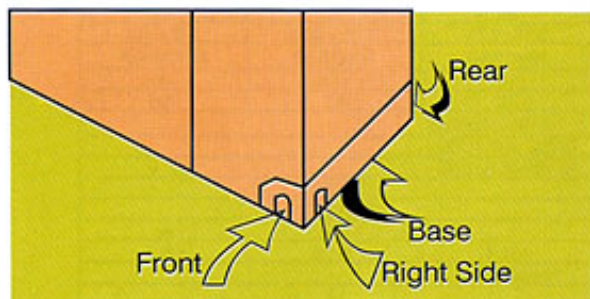
Redi-Charged!

- Units precharged to first 30 m (100 ft.), no adjustment required!
- Lines may be vertical or horizontal to maximum run length.
- Maximum run length to 40 m (130 ft.) for PUH12EK, PUH18EK, PUH24EK.
- Maximum run length to 50 m (164 ft.) for PUH30EK, PUH36EK, PUH42EK.
- No trapping required!



Superior Outdoor Design

- Totally front serviceable.
- May be rowed or racked.
- Standard wind baffle included with system.
- On-board computer diagnostics.
- Computer-controlled fan speed.
- Standard low ambient operation to -17°C (0°F).
- Special extra-low ambient machines for -40° operation.
- Oil separator and bypass valve for excellent low ambient operation



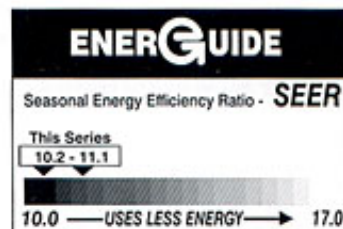
Four-way access for easy installation.



Rotary Compressor

World famous Mitsubishi Electric rotary compressor:

- High dependability.
- Low noise.
- High efficiency.



Mitsubishi Electric Sales Canada Inc.
HVAC Division
4299 - 14th Avenue, Markham, Ontario L3R 0J2
Telephone: (905) 475-7728
Fax: (905) 475-5231
E-Mail hvac@mesca.mea.com

PLH-FK Series Ceiling Recessed Ductless Heat Pumps

IP Units

| Item | | Model | | | | | |
|---|---------------|--------------|---|--------------------------|--------------------------|--------------------------|---------------------------|
| | | PLH18FK | PLH24FK | PLH30FK | PLH36FK | PLH42FK | |
| Capacity | Cooling *1 | BTU/h | 17300 | 23100 | 30000 | 34200 | 42000 |
| | Heating *1 | BTU/h | 18,600 [23,500 / 24,500] | 25,000 [30,500 / 31,500] | 33,000 [39,500 / 41,200] | 38,000 [45,900 / 47,600] | 44,300 [52,200 / 53,900] |
| Power consumption | Cooling *1 | kW | 1.77 | 2.36 | 3.20 | 3.53 | 4.27 |
| | Heating *1 | kW | 1.6 [3.2 / 3.5] | 2.48 [4.08 / 4.38] | 2.97 [4.87 / 5.37] | 3.40 [5.7 / 6.2] | 4.38 [6.68 / 7.18] |
| EER | Cooling *1 | | 9.8 | 9.5 | 9.4 | 10.0 | 9.8 |
| | SEER | | 10.3 | 10.3 | 10.0 | 10.4 | 10.0 |
| HSPF | Heating *1 | | 7.0 | 7.1 | 7.1 | 7.4 | 7.3 |
| | COP | | 3.3 | 3.0 | 3.3 | 3.3 | 3.0 |
| COP | Heating *1 | | 2.4 | 2.3 | 2.3 | 2.1 | 2.4 |
| | Heating *2 | | 2.4 | 2.3 | 2.3 | 2.1 | 2.4 |
| INDOOR UNIT | | | PLH18FK | PLH24FK | PLH30FK | PLH36FK | PLH42FK |
| External finish | | | Galvanized sheets with gray heat insulation | | | | |
| Power supply | | V, phase, Hz | 208 / 230, 1, 60 | | | | |
| Max. fuse size (time delay) | | A | 20 | 20 | 25 | 25 | 25 |
| Min. ampacity | | | 15 | | 17 | | |
| Fan motor | | F.L.A. | 0.55 | 0.6 | 0.5 + 0.5 | | 0.6 + 0.6 |
| Booster heater | | A(xW) | 7.6 / 8.4 < 1.6 / 1.9 > | | 8.4 / 11.0 < 1.9 / 2.4 > | | 10.8 / 12.0 < 2.3 / 2.8 > |
| Airflow Hi-Lo | Dry | CFM | 600-390 | 640-420 | 1,060-670 | 1,060-670 | 1,090-780 |
| | Wet | CFM | 540-350 | 580-380 | 950-600 | 950-600 | 980-700 |
| Moisture removal | | Pints/h | 5.3 | 7 | 9.14 | 10.9 | 12.3 |
| Sound pressure level Hi-Lo | | dB(A) | 45-38 | 47-39 | 49-41 | 49-41 | 49-42 |
| Cond. drain connection OD | | in. | 1-1/4 | | | | |
| Dimensions | W | in. | 32-1/4 | | 52-3/4 | | |
| | D | in. | 32-1/4 | | 32-1/4 | 32-1/4 | |
| | H | in. | 10-1/8 | | 10-1/8 | 10-1/8 | |
| Weight | | lbs. | 66 | | 104 | | |
| External finish | | | | | | | |
| Indoor Grille | | W | 36-5/8 | | 57-1/8 | | |
| Dimensions | D | in. | 36-5/8 | | | | |
| | H | in. | 2-3/8 | | | | |
| | Weight | lbs. | 22 | | 35 | | |
| OUTDOOR UNIT | | | PUH18EK | PUH24EK | PUH30EK | PUH36EK | PUH42EK |
| External finish | | | Munsell S77/1 | | | | |
| Sound pressure level | | dB(A) | 53 | 55 | | | 56 |
| Power supply | | V, phase, Hz | 208/230, 1, 60 | | | | |
| Max. fuse size (time delay) | | A | 20 | 30 | | 40 | |
| Min. ampacity | | | 16 | | 20 | 22 | 27 |
| Fan motor | | F.L.A. | 0.75 | 0.85 + 0.65 | 0.75 + 0.75 | 0.75 + 0.75 | 0.8 + 0.8 |
| Compressor | Model | | RH247NAB | NH33NBD | NH41NAD | NH47NAD | NH569NXA |
| | R.L.A. | | 12 | 11.5 | 14 | 17.5 | 20 |
| | L.R.A. | | 37 | 54 | 73 | 87 | 105 |
| Crankcase heater | | A(W) | 0.11/0.12(23/28) | | 0.16/0.17(33/39) | | |
| Refrigerant control | | | CAPILLARY TUBE | | | | |
| Defrost method | | | REVERSE CYCLE | | | | |
| Dimensions | W | in. | 34 - 1/4 | | 38 - 3/16 | | |
| | D | in. | 11 - 5/8 | | 13 - 9/16 | | |
| | H | in. | 33 - 1/2 | 49 - 9/16 | | | |
| Weight | | lbs. | 131 | 202 | 245 | 246 | 268 |
| REFRIGERANT PIPING | | | Not supplied | | | | |
| Refrigerant Tubing (Individually Insulated) | Liquid | in. | 3/8 | | 1/2 | | |
| | Gas | in. | 5/8 | | 3/4 | | |
| Connection Method | | | Flared | | | | |
| Between the indoor and Outdoor units | Height | ft. | 130 | | 164 | | |
| | Piping Length | ft. | 130 | | 164 | | |
| Refrigerant Type | | | R22 | | | | |
| REMOTE CONTROLLER | | *5 | With indoor unit | | | | |
| Control voltage | | *5 | 12 vdc | | | | |

*1 Rating conditions (cooling): Indoor: 80° F DB, 67° F WB Outdoor: 95° F DB, 75° F WB
 (heating): Indoor: 70° F DB, 60° F WB Outdoor: 47° F DB, 43° F WB

*2 Rating conditions (heating): Indoor: 70° F DB, 60° F WB Outdoor: 17° F DB, 15° F WB

*3 Heating capacity and power consumption in [] include auxiliary electric heater operation at 208/230V

*4 Comfort booster is not a full time heater

*5 Shielded wire with computer ground must be used in areas with high inductance transients

PLH-FK Series Ceiling Recessed Ductless Heat Pumps

SI Units

| | | | Model | | | | |
|---|---------|----------|---|--------------------|--------------------|--------------------|--------------------|
| Item | | | PLH18FK | PLH24FK | PLH30FK | PLH36FK | PLH42FK |
| Capacity | Cooling | *1 BTU/h | 5 | 7 | 9 | 10 | 12 |
| | Heating | *1 BTU/h | 5.4 (6.9 / 7.2) | 7.3 (8.9 / 9.2) | 9.7 (11.6 / 12.1) | 11.1 (13.5 / 14.0) | 13.0 (15.3 / 15.8) |
| | Heating | *2 BTU/h | 3.4 (5.0 / 5.3) | 4.7 (6.3 / 6.6) | 6.1 (8.0 / 8.5) | 5.7 (8.1 / 8.6) | 8.3 (10.6 / 11.1) |
| Power consumption | Cooling | *1 kW | 1.77 | 2.36 | 3.20 | 3.53 | 4.27 |
| | Heating | *1 kW | 1.6 (3.2 / 3.5) | 2.48 (4.08 / 4.38) | 2.67 (4.87 / 5.37) | 3.40 (5.7 / 6.2) | 4.38 (6.68 / 7.18) |
| | Heating | *2 kW | 1.4 (3.0 / 3.3) | 2.0 (3.6 / 3.9) | 2.6 (4.5 / 5.0) | 2.70 (5.0 / 5.5) | 3.4 (5.7 / 6.2) |
| EER | Cooling | *1 | 9.8 | 9.5 | 9.4 | 10.0 | 9.8 |
| SEER | | | 10.3 | 10.3 | 10.0 | 10.4 | 10.0 |
| HSPF | | | 7.0 | 7.1 | 7.1 | 7.4 | 7.3 |
| COP | Heating | *1 | 3.3 | 3.0 | 3.3 | 3.3 | 3.0 |
| | Heating | *2 | 2.4 | 2.3 | 2.3 | 2.1 | 2.4 |
| INDOOR UNIT | | | PLH18FK | PLH24FK | PLH30FK | PLH36FK | PLH42FK |
| External finish | | | Galvanized sheets with gray heat insulation | | | | |
| Power supply | | | V.phase,Hz | | | | |
| Max. fuse size(time delay) | | | A | | | | |
| Min.ampercity | | | A | | | | |
| Fan motor | | | F.L.A | | | | |
| Booster heater | | | A(KW) | | | | |
| Airflow Hi-Lo | | | l/s | | | | |
| Moisture removal | | | l/h | | | | |
| Sound pressure level Hi-Lo | | | dB(A) | | | | |
| Cond. drain connection OD | | | in | | | | |
| Dimensions | | | mm | | | | |
| Weight | | | kg | | | | |
| External finish | | | | | | | |
| Indoor Grille | | | W | | | | |
| Dimensions | | | in | | | | |
| Weight | | | lbs | | | | |
| OUTDOOR UNIT | | | PUH18EK | PUH24EK | PUH30EK | PUH36EK | PUH36EK |
| External finish | | | Munsell 5Y7/1 | | | | |
| Sound pressure level | | | dB(A) | | | | |
| Power supply | | | V.phase,Hz | | | | |
| Max. fuse size(time delay) | | | A | | | | |
| Min.ampercity | | | A | | | | |
| Fan motor | | | F.L.A | | | | |
| Compressor | | | Model | | | | |
| | | | R.L.A | | | | |
| | | | L.R.A | | | | |
| Crankcase heater | | | A(W) | | | | |
| Refrigerant control | | | CAPILLARY TUBE | | | | |
| Defrost method | | | REVERSE CYCLE | | | | |
| Dimensions | | | mm | | | | |
| Weight | | | kg | | | | |
| REFRIGERANT PIPING | | | Not supplied | | | | |
| Refrigerant Tubing (individually Insulated) | | | Liquid | | | | |
| Connection Method | | | Gas | | | | |
| Between the indoor and Outdoor units | | | Height | | | | |
| Refrigerant Type | | | R22 | | | | |
| REMOTE CONTROLLER | | | *5 | | | | |
| Control voltage | | | *5 | | | | |

*1 Rating conditions(cooling): Indoor: 30° C DB, 19° C WB Outdoor: 35° C DB, 24° C WB
(heating): Indoor: 21.1° C DB, 15.5° C WB Outdoor: 8.3° C DB, 6.1° C WB

*2 Rating conditions(heating): Indoor: 21.1° C DB, 15.5° C WB Outdoor: -8.3° C DB, -9.4° C WB

*3 Heating capacity and power consumption in [] include auxiliary electric heater operation at 208/230V

*4 Comfort booster is not a full time heater

*5 Shielded wire with computer ground must be used in areas with high inductance transients