# PEAD Series

## DUCTED SYSTEM

The thin, low-profile, ceiling-concealed PEAD indoor units are the perfect answer for air conditioning requirements of buildings with minimum ceiling installation space and wide-ranging external static pressure. Energy-saving efficiency has been improved, thereby reducing electricity consumption, and contributing to further reductions in operating cost.

## Key Features

### Next-Generation R32 Technology

PEAD Ducted Systems feature the latest in super-efficient and more environmentally friendly R32 refrigerant. With a global warming potential that is 30% lower compared to older refrigerants such as R410A, next generation R32 refrigerant has a much lower environmental impact. Furthermore, zero ozone depleting R32 is easier to reuse and recycle.

### Compact Indoor Units

The height of the PEAD Range has been unified to 250mm making installation possible in low ceilings with minimal clearance space. It has variable airflow settings to ensure the best operation to match virtually all room layouts.

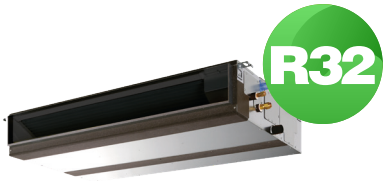
### Wide Selection of Fan Speeds and External Static Pressure

All PEAD models incorporate five-stage external static pressure conversions and three fan speed selections, offering the ultimate in comfort diversity. With a wide range of adjustable static pressures (35-125Pa), PEAD Series units are applicable to a wide range of building types and applications.

### Standard or Deluxe Outdoor Units

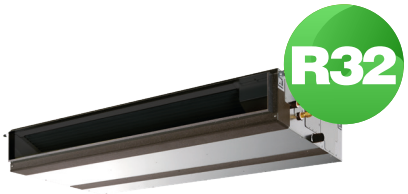
The Standard Range of our ducted systems are the ideal economical solution for buildings or homes where extended pipe runs are not necessary. The Deluxe Outdoor Unit offers longer pipe runs, slightly lower Sound Pressure Levels and extended guaranteed heating down to -20°C.

Mr.SLIM



PEAD-M50

Heating Capacity: 6.0 kW | Cooling Capacity: 5.0 kW



PEAD-M60

Heating Capacity: 7.0 kW | Cooling Capacity: 6.0 kW

PEAD-M71

Heating Capacity: 8.0 kW | Cooling Capacity: 7.1 kW

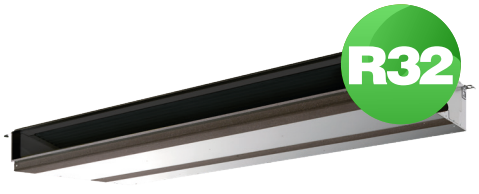
PEAD-M100

Heating Capacity: 11.2 kW | Cooling Capacity: 10.0 kW*

PEAD-M125

Heating Capacity: 14.0 kW | Cooling Capacity: 12.5 kW*

*Deluxe Outdoor Unit Values



PEAD-M140

Heating Capacity: 16.0 kW | Cooling Capacity: 14.0 kW

### Optional Lossnay Fresh Air Ventilation

The Mitsubishi Electric Lossnay System is an energy recovery ventilation solution that can be integrated with a Ducted Heat Pump System. The two systems will work together to further increase energy savings while ventilating your home to remove stale air and help control moisture. The Lossnay System will recover the energy from stale air to pre-heat or pre-cool incoming fresh air, reducing the amount of additional heating or cooling required. Both systems can be controlled from one central wall mounted controller for optimum ease of use.

### Optional Plasma Quad Connect for Cleaner, Healthier Air

Designed to integrate with your existing PEAD Ducted Heat Pump*, this high-performance two-stage advanced air filtration module, cleans and minimises dust and other allergens for better indoor air quality, all year round.

This advanced filtration system works to clean away viruses including Covid-19** as well as smells, dust, mould and other common allergens – providing the ultimate in peace of mind and ensuring a healthier and cleaner environment.

### Optional Wi-Fi Control: Elevate Comfort, Maximise Efficiency

Upgrade your system with optional Wi-Fi Control. Make real-time adjustments on-the-go, no matter where you are via remote access. Optimise energy efficiency with smart scheduling and customisable zone/room control.

### Optional Zone Controller

The optional Zone Controller brings intuitive yet simple control to a whole new level, with the ability to control up to eight zones, automatic unloading/ramping and energy saving sensor functions.










* Requires additional attachments.
**PQC Electrode Collection Plate, Test Chamber Lab – Test No. 20KB070569, Microbial Testing Laboratory Kobe Testing Center Japan Textile Products Quality and Technology Center.

# Specifications: PEAD Ducted Series

| REFRIGERANT | | | R32 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| INDOOR UNIT | | | PEAD-M50 | | PEAD-M60 | | PEAD-M71 | | | |
| OUTDOOR UNIT | | | SUZ-M50VAD | | SUZ-M60VAD | | SUZ-M71VAD | | PUZ-ZM71VHA | |
| Function | | | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Capacity (min.–max.) | | (kW) | 5.0 (2.3-6.2) | 6.0 (1.7-7.4) | 6.0 (2.3-6.5) | 7.0 (2.8-8.0) | 7.1 (2.8-8.1) | 8.0 (2.6-10.2) | 7.1 (3.3-8.1) | 8.0 (3.5-10.2) |
| Power Input | | (kW) | 1.33 | 1.44 | 1.72 | 1.85 | 1.98 | 2.00 | 1.85 | 1.93 |
| Rated EER/COP | | | 3.75 | 4.16 | 3.48 | 3.78 | 3.58 | 4.00 | 3.83 | 4.14 |
| Rated AEER/ACOP | | | 3.70 | 4.09 | 3.43 | 3.72 | 3.53 | 3.93 | 3.63 | 3.93 |
| Power Supply | | | Single-Phase, 50Hz, 230V | | | | | | | |
| Airflow | | $m^3$/min | 12 - 14.5 - 17 | | 14.5 - 18 - 21 | | 17.5 - 21 - 25 | | 17.5 - 21 - 25 | |
| | | L/S | 200 - 242 - 283 | | 242 - 300 - 350 | | 292 - 350 - 417 | | 292 - 350 - 417 | |
| Indoor Sound Pressure Level | | (dB) | 30 - 35 - 39 | | 30 - 32 - 36 | | 30 - 33 - 38 | | 30 - 33 - 38 | |
| External Static Pressure | | (Pa) | 35 / 50 / 70 / 100 / 125 | | | | | | | |
| Dimensions (indoor) | Height | (mm) | 250 | | 250 | | 250 | | | |
| | Width | (mm) | 900 | | 1,100 | | 1,100 | | | |
| | Depth | (mm) | 732 | | 732 | | 732 | | | |
| Weight (indoor) | | (kg) | 26 | | 29 | | 30 | | | |
| Refrigerant Piping | Max. Length/Height | | 30 / 30 | | | | | | 50 / 30 | |
| Operation Range Outdoor | Cooling | (°C) | -15 ~ 52 | | | | -5(-15*) ~ 52 | | | |
| | Heating | (°C) | -15 ~ 24 | | | | -20 ~ 21 | | | |

| INDOOR UNIT | | | PEAD-M100 | | | | PEAD-M125 | | | | PEAD-M140 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OUTDOOR UNIT | | | PUZ-M100VKA | | PUZ-ZM100VKA | | PUZ-M125VKA | | PUZ-ZM125VKA | | PUZ-M140VKA | | PUZ-ZM140VKA | |
| Function | | | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Capacity (min.–max.) | | (kW) | 10.0 (4.0-10.6) | 12.5 (2.8-12.5) | 10.0 (4.9-11.4) | 11.2 (4.5-14.0) | 12.0 (6.0-13.5) | 14.0 (4.1-15.5) | 12.5 (5.5-14.0) | 14.0 (5.0-16.0) | 14.0 (6.2-15.3) | 16.0 (5.7-18.0) | 14.0 (6.2-15.3) | 16.0 (5.7-18.0) |
| Power Input | | (kW) | 3.06 | 3.35 | 2.67 | 2.80 | 3.83 | 3.68 | 3.66 | 3.52 | 4.40 | 4.30 | 4.37 | 4.18 |
| Rated EER/COP | | | 3.26 | 3.73 | 3.74 | 4.00 | 3.13 | 3.80 | 3.41 | 3.97 | 3.18 | 3.72 | 3.20 | 3.82 |
| Rated AEER/ACOP | | | 3.13 | 3.59 | 3.60 | 3.86 | 3.03 | 3.67 | 3.32 | 3.86 | 3.09 | 3.61 | 3.13 | 3.73 |
| Power Supply | | | Single-Phase, 50Hz, 230V | | | | | | | | | | | |
| Airflow | | $m^3$/min | 24 - 29 - 34 | | | | 29.5 - 35.5 - 42 | | | | 32 - 39 - 46 | | | |
| | | L/S | 400 - 483 - 567 | | | | 492 - 592 - 700 | | | | 533 - 650 - 767 | | | |
| Indoor Sound Pressure Level | | (dB) | 33 - 38 - 42 | | | | 36 - 40 - 44 | | | | 40 - 44 - 49 | | | |
| External Static Pressure | | (Pa) | 35 / 50 / 70 / 100 / 125 | | | | | | | | | | | |
| Dimensions (indoor) | Height | (mm) | 250 | | | | | | | | 250 | | | |
| | Width | (mm) | 1,400 | | | | | | | | 1,600 | | | |
| | Depth | (mm) | 732 | | | | | | | | 732 | | | |
| Weight (indoor) | | (kg) | 39 | | | | 40 | | | | 44 | | | |
| Refrigerant Piping | Max. Length/Height | | 55 / 30 | | 75 / 30 | | 55 / 30 | | 75 / 30 | | 55 / 30 | | 75 / 30 | |
| Operation Range Outdoor | Cooling | (°C) | -15 ~ 46 | | -5(-15*) ~ 52 | | -15 ~ 46 | | -5(-15*) ~ 52 | | -15 ~ 46 | | -5(-15*) ~ 52 | |
| | Heating | (°C) | -15 ~ 21 | | -20 ~ 21 | | -15 ~ 21 | | -20 ~ 21 | | -15 ~ 21 | | -20 ~ 21 | |

## Outdoor Unit Specifications

| OUTDOOR UNIT | | SUZ-M50VAD | SUZ-M60VAD | SUZ-M71VAD | PUZ-ZM71VHA | PUZ-M100VKA | PUZ-M125VKA | PUZ-M140VKA | PUZ-ZM100VKA | PUZ-ZM125VKA | PUZ-ZM140VKA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| External Finish | | Munsell 3.0Y 7.8 / 1.1 | | | | | | | | | |
| Power Supply | | Single-phase, 50Hz, 230V | | | | | | | | | |
| Compressor Output | (kW) | 0.90 | 0.90 | 1.20 | 1.30 | 1.5 | 2.5 | | | | |
| Airflow (Cooling/Heating) | $m^3$/min(L/S) | 45.8 (763) / 43.7(728) | 50.1 (835) / 50.1 (835) | 50.1 (835) / 50.1 (835) | 55 (915) | 79 (1317) | 86 (1433) | 120 (1996) | 110 (1831) | 120 (1996) | |
| Sound Pressure Level (Cooling/Heating) | (dB)*2 | 48 / 49 | 49 / 51 | 49 / 51 | 47 / 51 | 52 / 54 | 54 / 56 | 53 / 54 | 49 / 51 | 50 / 52 | |
| Sound Power Level | (dB) | 66 | 68 | 68 | 67 | 71 / 72 | 72 / 74 | 71 / 72 | 69 / 69 | 70 / 70 | 70 / 71 |
| Dimensions (H x W x D) | (mm) | 714x800 x285 | 880x840 x330 | 880x840 x330 | 943x950 x330 | 981x1050x330+40 | | 1338x1050 x330+40 | 1338x1050x330 | | |
| Weight | (kg) | 41 | 54 | 55 | 70 | 76 | 84 | 99 | 111 | | |
| Piping Length (Chargeless/ Max.) | (m) | 7 / 30 | 7 / 30 | 7 / 30 | 30 / 50 | 30 / 55 | | | 30 / 75 | | |
| Protection Device | | - | - | - | - | Comp. surface thermo, HP Switch | | | Discharge thermo, HP switch | | |
| Breaker Size | (A) | 20 | 20 | 20 | 25 | 32 | | 40 | 32 | | 40 |

* With optional air protection guide.

*2 Sound pressure measurements were conducted in an anechoic chamber. The actual noise level depends on the distance from the unit and the acoustic environment.

## Amount of Required Refrigerant (R32:kg)

| PIPING LENGTH | FACTORY CHARGED (kg) | ADDITIONAL CHARGE (kg) | | | | |
|---|---|---|---|---|---|---|
| | 7m | 10m | 15m | 20m | 25m | 30m |
| SUZ-M50 | 1.2 | 0.06 | 0.16 | 0.26 | 0.36 | 0.46 |
| SUZ-M60 | 1.25 | 0.06 | 0.16 | 0.26 | 0.36 | 0.46 |
| SUZ-M71 | 1.45 | 0.12 | 0.32 | 0.52 | 0.72 | 0.92 |

| PIPING LENGTH | FACTORY CHARGED (kg) | ADDITIONAL CHARGE (kg) | | | |
|---|---|---|---|---|---|
| | 30m | 40m | 50m | 60m | 75m |
| PUZ-ZM71 | 2.80 | 0.40 | 0.80 | - | - |
| PUZ-ZM100/125/140 | 4.00 | 0.40 | 0.80 | 1.20 | 1.80 |
| PUZ-M100 | 3.10 | 0.40 | 0.80 | - | - |
| PUZ-M125 | 3.60 | 0.40 | 0.80 | - | - |
| PUZ-M140 | 3.90 | 0.00 | 0.00 | - | - |

## Refrigerant Piping

| CAPACITY | BETWEEN INDOOR AND OUTDOOR UNITS | | PIPE SIZE OD (mm – in.) | THICKNESS (mm) |
|---|---|---|---|---|
| | MAX. HEIGHT DIFFERENCE (m) | MAX. PIPING LENGTH (m) | | |
| SUZ-M50 | 30 | 30 | Liquid: Ø 6.35 – 1/4" | t 0.8 |
| | | | Gas: Ø 12.7 – 1/2" | t 0.8 |
| SUZ-M60 | 30 | 30 | Liquid: Ø 6.35 – 1/4" | t 0.8 |
| | | | Gas: Ø 15.88 – 5/8" | t 1.0 |
| SUZ-M71 | 30 | 30 | Liquid: Ø 9.52 – 3/8" | t 0.8 |
| | | | Gas: Ø 15.88 – 5/8" | t 1.0 |
| PUZ-ZM71 | 30 | 50 | Liquid: Ø 9.52 – 3/8" | t 0.8 |
| | | | Gas: Ø 15.88 – 5/8" | t 1.0 |
| PUZ-M100/125/140 | 30 | 55 | Liquid: Ø 9.52 – 3/8" | t 0.8 |
| | | | Gas: Ø 15.88 – 5/8" | t 1.0 |
| PUZ-ZM100/125/140 | 30 | 75 | Liquid: Ø 9.52 – 3/8" | t 0.8 |
| | | | Gas: Ø 15.88 – 5/8" | t 1.0 |

For more information please visit our website
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