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. Optional ZoneIQ is available, enabling individual zone management for enhanced comfort.

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.

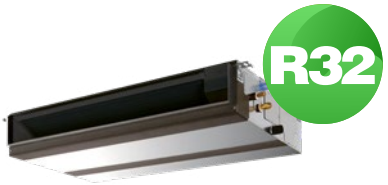
Wide Selection of Fan Speeds and External Static Pressure

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

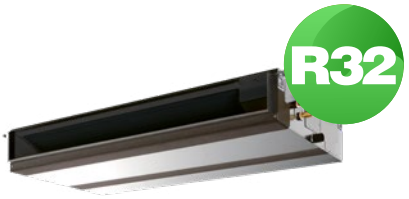
The Standard Range of our ducted systems are the ideal economical solution for buildings or homes where extended pipe runs are not necessary. The Deluxe Outdoor Unit offers longer pipe runs, slightly lower Sound Pressure Levels and extended guaranteed heating down to -20°C.

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 a heat recovery ventilation solution that can be integrated with a Ducted Heat Pump System. The two systemsl 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 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 ZoneIQ Control

Create the perfect climate in every room, with intelligent Zone Control. ZoneIQ is our next-generation zone control system, specifically designed to work with your Mitsubishi Electric Ducted System.

Instead of contending with uneven temperatures or wasting energy heating or cooling† unoccupied rooms, ZoneIQ puts precision, efficiency, and effortless control at the centre of your home's comfort. Every home is unique — that's why ZoneIQ goes beyond simply switching zones on and off. It allows each space to be set and maintained at its own ideal temperature and intelligently adjusts airflow room by room. The result is consistent comfort where you want it, when you want it, and all while maximising energy savings by only conditioning the rooms you're actually using.

† Does not heat and cool simultaneously.



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

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