MITSUBISHI ELECTRIC

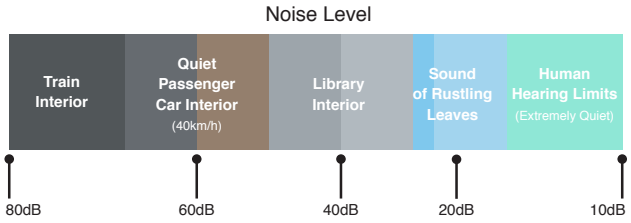
Ducted Air Conditioning

Why Choose Mitsubishi Electric?

Whether it is consistent heating and cooling for the home or office, Mitsubishi Electric offers you state-of-the-art technology that is quiet, simple to use, energy efficient, and above all, reliable.

Quiet Operation

We recognise that noise affects comfort, so we constantly work to make our air conditioners as quiet as possible. With improvements to our fan blades combined with a new grille shape to our outdoor unit, it's even quieter when in low noise mode. We want you to feel it, not hear it.



Unassuming Design

Mitsubishi Electric ducted systems allow for a range of diffuser designs to best suit your home decor. Talk to your installer about what is right for you.

Precise Control

Making the most of your air conditioner all starts with the controls, these allow you to create the comfort levels that match your demands. As air conditioners are becoming more advanced, so are the controls, to allow accuracy and ease of use to maximise the functionality of your air conditioner.

Peace of Mind

Mitsubishi Electric air conditioners used in residential applications are covered by a full 5 year parts and labour warranty. Delivering optimum performance year in year out.

See website for terms & conditions.

Our commitment to quality, service, research and development has helped us gain a leading position in today's marketplace in heating, cooling and air conditioning for the home or office.

#**works**for**me**

Live in Ultimate Comfort

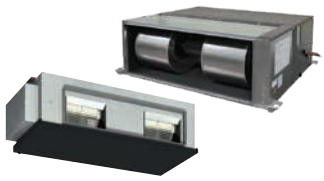
With Mitsubishi Electric Ducted Inverter Systems, climate control is at the touch of a button. Our ducted units are ideal for multiple room applications and can incorporate zone control for complete control. Cool or warm air is ducted quietly throughout the home through slim diffusers positioned in the ceiling, wall or floor.

SEZ Series

- Designed for homes, offices, restaurants or shops.
- At only 200mm height its design guarantees ease of installation.
- Provides optimum air conditioning efficiency and comfort.

PEAD Series

- A wide range of static pressures allow airflow to be directed to different areas of your home or office with ease.
- Ideal for heating or cooling multiple rooms.
- The solution for buildings with low ceiling space (as low as 250mm).

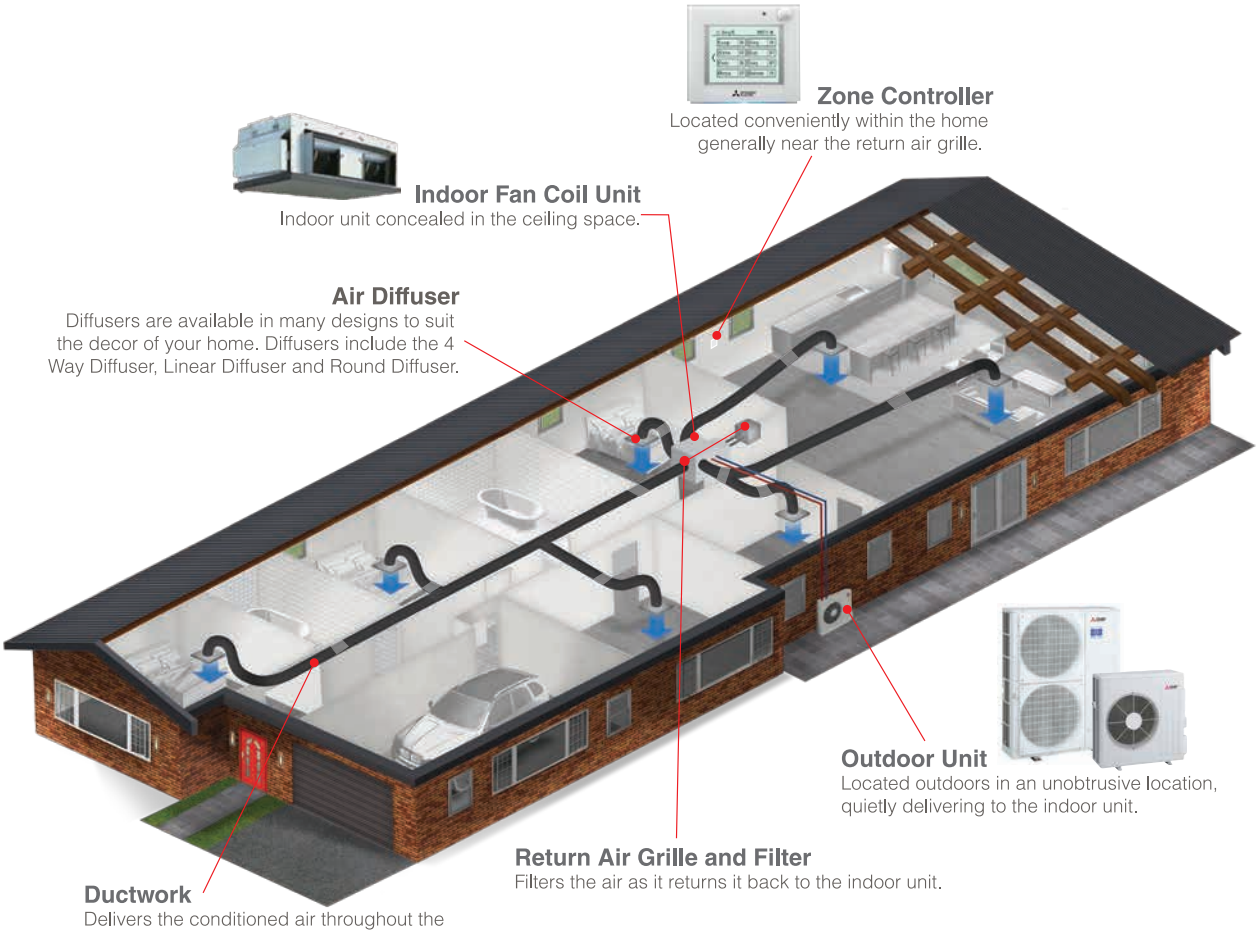


PEA Series

- To increase the efficiency of dehumidification the fan speed is effectively controlled electronically in this mode.
- For easier handling on roof space the new ducted fan coil unit has a two-piece construction.
- Increased variation in airflow to ensure operation that suits most room layouts. (PEA-RP170/200/250)

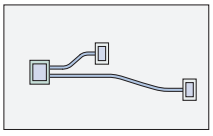
Outdoor Units

Mitsubishi Electric's Inverters meet the needs of homes, shops and offices with the ability to select the model to best match your requirements. The maximum operating heating/cooling capacity of the Mr. Slim Power Inverter units has improved (compared to conventional non-inverter models) when operating in either low or high outdoor temperatures. With a wider performance range operation now possible at lower speeds, comfort is improved while power consumption is reduced.

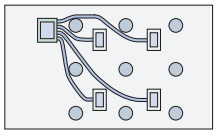


Freedom in Installation

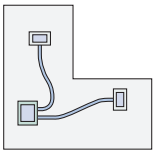
Versatile and easy installation is possible, for example, it is possible to adjust the distance between the air intake and the air outlet vents to create the optimal airflow configuration.



Long rectangular room



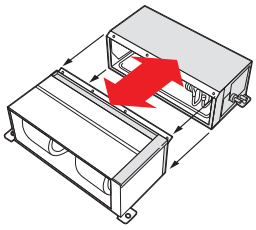
Room with fixed ceiling fixtures



L-shaped room

Easier Handling

The ducted fan coil unit (PEA-RP170/200/250) has a two-piece construction. This allows separation of the indoor unit heat exchanger and the fan deck assembly for easier handling into the roof space.



Must be reassembled and installed prior to using the system.

Flexible Duct Design

A flexible duct design and 150Pa external static high-pressure are incorporated. The increased variation in airflow options ensures operation that best matches virtually all room layouts.

Longer Maximum Piping Length

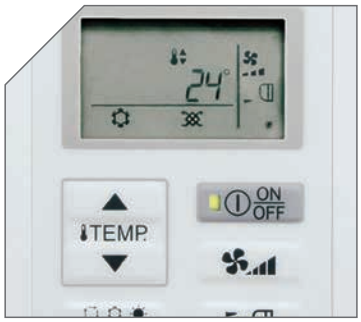
It is now possible to pipe refrigerant up to 75 metres to the concealed ceiling unit, therefore creating a wide range of layout possibilities for unit installation.

Controls

Making the most out of your air conditioner all starts with the controls, helping you to create comfort levels that suit your needs. The availability of a wide variety of controls by Mitsubishi Electric Australia, not only provides you with a selection to personalise your air conditioning system, but also allows optimised programming efficiency.

7 Day Wired Controller

The wall mounted 7 Day Controller is an optional upgrade with the ability to connect to all Mitsubishi Electric systems listed in this brochure. The PAR-33MAA-J Controller allows you to program up to 8 stop/start patterns per day for up to 7 days at a time. Other features include a variety of operation control functions, error information, temperature range restriction, operation lock and multi-language display. The PAR-33MAA-J also offers the following at the touch of a button: LCD backlit screen, large, easy to read display and mode view for both icon and word display.



PAC-YT52CRA Controller

To simplify operation of the system, the range of controls has been limited to On/Off, mode, room temperature, fan speed and additional vane control for high walls, cassettes, and under ceiling units.
The controller has the ability to sense the room ambient via the inbuilt thermostat. This means you are sensing the actual space temperature where the end user is.

PAR-CT01MAA Bluetooth* Touch Screen Controller

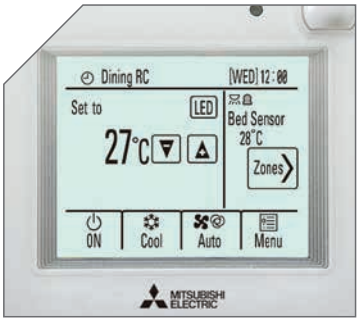
The full colour touch controller PAR-CT01MAA enables the control of both residential and commercial air conditioning applications. It has a customisable 3.5 inch colour LCD touch panel that makes it easy to use.

Available in white or premium black finishes, suitable for any decor.
Operation panels are easier to see and simple to use with big visible-sized icons.
Logo images can also be displayed on the initial screen for more customisation.

Available in White and Premium Black.

*Available for PAR-CT01MAA-SB and PAR-CT01MAA-PB.

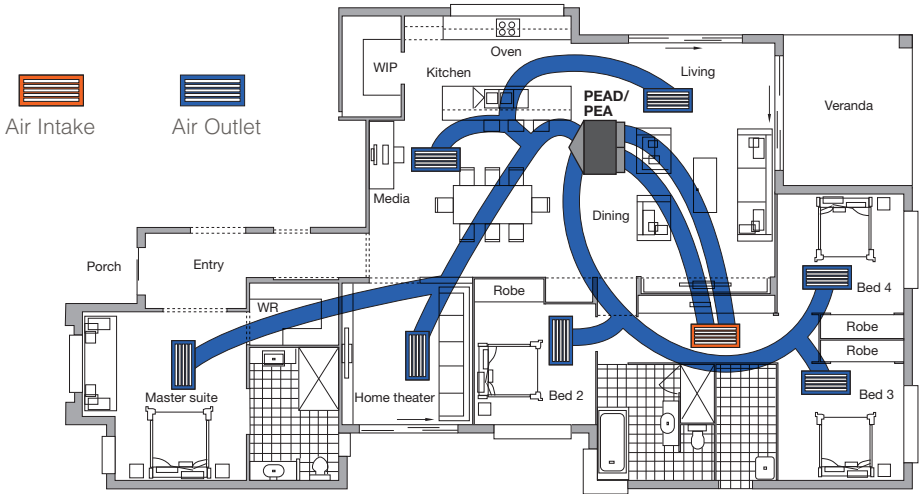
ZONE CONTROLLER



Mitsubishi Electric's Zone Controller has the ability to control up to 4 or 8 zones.
The Zone Remote Controller allows monitoring and operating of the air conditioning unit and zones, schedule operation of unit and zones is also available. It is equipped with three built-in sensors (temperature, brightness and occupancy) which allows for comfortable air environment and also helps to reduce energy consumption.

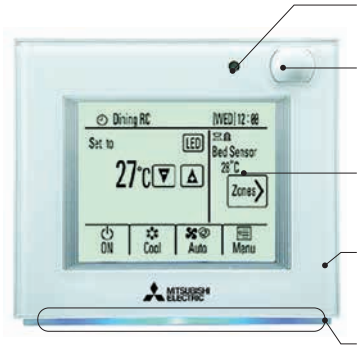
Control Operation of up to 8 Dampers

By controlling the operation of up to eight dampers, excessive power consumption to condition unoccupied areas and areas where air conditioning is not needed can be prevented. Detailed control makes it possible to set operation to suit the user's needs.



LED Indicator

The LED indicator in the lower part of the controller clearly shows the operation mode. Easily confirm if the air conditioning is On or Off from a distance.
*Set to all green display before shipping.



Brightness sensor: If room light is on, energy-saving control is deactivated.

Occupancy Sensor: Judges whether or not someone is in the room by detecting human motion. If the room is unoccupied, air conditioning is switched to energy-saving mode.

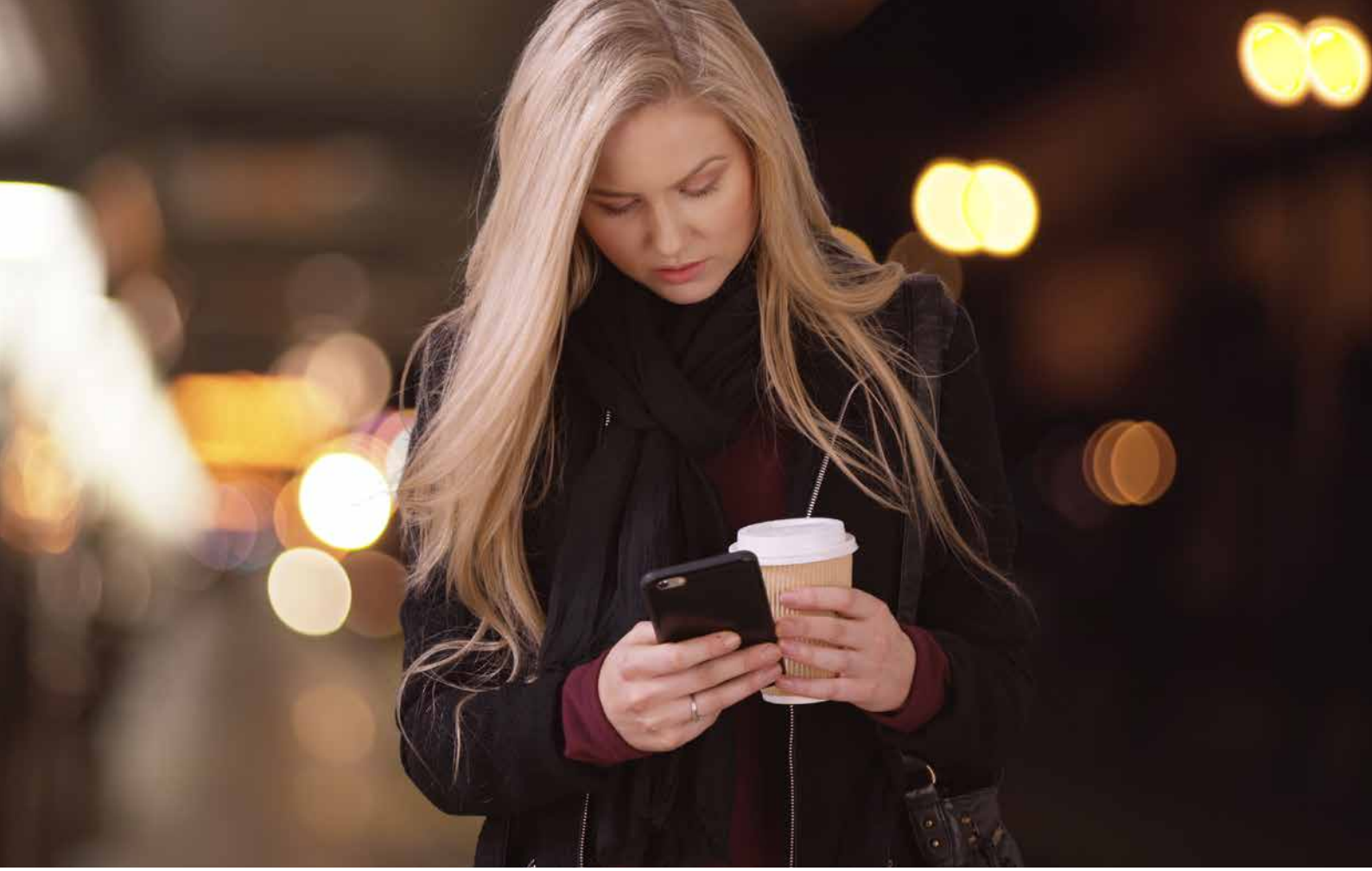
Touch panel with backlight: A 4.3-inch touch-panel liquid-crystal screen with a backlight has been incorporated.

Temperature sensor: Monitors the temperature near the remote controller.

LED indicator: Indicates the operation mode or room temperature using colours.
*Setting is required.

ZONE CONTROLLER FEATURES

- » Fan Speed Control
- » Averaging Sensor Control
- » Energy Save Control
- » Easy Operation
- » Wi-Fi Control (Optional upgrade adapter required per unit)
- » 4.3" User Friendly Touch Panel



Wi-Fi Control*

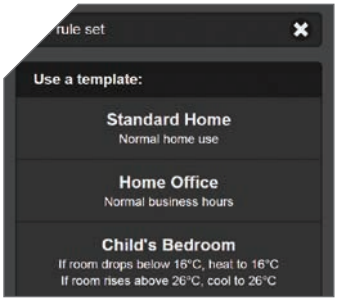
Introducing Wi-Fi Control for Split and Ducted systems. Unlock the door to smarter heating and cooling, for total home comfort. This innovative technology connects your Mitsubishi Electric air conditioner to your smartphone, tablet or online account, giving you the freedom to fully control each unit on-the-go via an Internet connection from anywhere in the world.

*Optional upgrade adapter required per unit.

Wi-Fi CONTROL

Superior Customisation

This innovative technology places multiple functions of your air conditioner at your fingertips. Turning the unit On/Off, adjusting set temperature, changing mode, fan speed and airflow direction are all possible.



Develop Operating Rules

Tailor your system to meet your needs. Unlock the full potential of your air conditioner, program your system to automatically turn On/Off at specific times, change settings, and develop temperature rules to ensure comfort day after day.

Control Multiple Units

Customise the settings of each air conditioner in your home. Purchase multiple adapters to manage all air conditioners independently on the same account to ensure complete control over your system. The result is a tailored system to your needs.

SPECIFICATIONS

COMPACT CEILING-CONCEALED (SEZ)											
Indoor Unit Model		SEZ-KD25VAQ(L)		SEZ-KD35VAQ(L)		SEZ-KD50VAQ(L)		SEZ-KD60VAQ(L)		SEZ-KD71VAQ(L)	
Outdoor Unit Model		SUZ-KA25VAD2		SUZ-KA35VAD2		SUZ-KA50VAD2		SUZ-KA60VAD2		SUZ-KA71VAD2	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	2.5 (1.5-3.2)	3.0 (1.3-4.5)	3.7 (1.4-3.9)	4.2 (1.7-5.0)	5.1 (2.3-5.6)	6.4 (1.7-7.2)	5.6 (2.3-6.3)	7.4 (2.5-8.0)	6.5 (2.8-8.3)	8.1(2.6-10.4)
Input	(kW)	0.75	0.83	1.09	1.13	1.64	1.81	1.77	2.05	2.06	2.18
Rated EER/COP		3.33	3.61	3.39	3.72	3.11	3.54	3.16	3.61	3.16	3.72
Rated AEER/ACOP		3.21	3.49	3.31	3.62	3.05	3.48	3.11	3.55	3.10	3.66
AEER/ACOP (part-load %)][1]						3.72					
Power Supply		V: Single-phase, 50Hz, 230V									
Airflow (Low-Mid-High)	CMM	5.5-7-9		7-9-11		10-12.5-15		12-15-18		12-16-20	
	L/S	92-117-150		117-150-183		167-208-250		200-250-300		200-267-333	
External Static Pressure Pa		5/15/35/50									
Sound Pressure Level	(dB)	23-26-30		23-28-33		30-34-37		30-34-38		30-35-40	
Supply Air Spigot Size	(mm)	660×150		860×150				1,060×150			
Dimensions Height	(mm)	200		200				200			
Dimensions Width	(mm)	790		990				1,190			
Dimensions Depth	(mm)	700		700				700			
Weight	(kg)	18		21		23		27			

Notes:

*1 MEPS compliant at part load.
SUZ-KA•VAD is potentially demand response capable unit.

CEILING-CONCEALED (PEAD)											
Indoor Unit Model		PEAD-RP71JAAD		PEAD-RP71JAAD		PEAD-RP100JAAD		PEAD-RP125JAAD		PEAD-RP140JAAD	
Outdoor Unit Model		SUZ-KA71VAD2		PUHZ-RP71VHA5		PUHZ-RP100V/YKA2		PUHZ-RP125V/YKA2		PUHZ-RP140V/YKA2	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	7.1 (2.8-8.1)	8.0 (2.6-10.2)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.0 (5.5-14.0)	14.0 (5.0-16.0)	13.0 (6.2-15.3)	16.0 (5.7-18.0)
Input	(kW)	2.10	2.04	2.03	2.00	2.77	2.72	3.60	3.50	3.91	4.04
Rated EER/COP		3.38	3.92	3.50	4.00	3.61	4.12	3.33	4.00	3.32	3.96
Rated AEER/ACOP		3.33	3.86	3.31	3.78	3.34/3.31	3.81/3.78	3.14/3.11	3.76/3.74	3.09/3.07	3.76/3.73
AEER/ACOP (part-load %)][1]										3.68/3.63	
Power Supply		V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V									
Airflow (Low-Mid-High)	CMM	17.5-21-25				24-29-34		29.5-35.5-42		32-39-46	
	L/S	292-350-417				400-483-567		492-592-700		533-650-767	
External Static Pressure Pa		35/50/70/100/125									
Sound Pressure Level	(dB)	30-34-39				33-38-42		36-40-44		40-44-49	
Return Air Spigot Size	(mm)	1,058×210				1,358×210		1,358×210		1,558×210	
Supply Air Spigot Size	(mm)	1,060×178				1,360×178		1,360×178		1,560×178	
Dimensions Height	(mm)	250									
Dimensions Width	(mm)	1,100				1,400				1,600	
Dimensions Depth	(mm)	732									
Weight	(kg)	30				39		40		44	

Notes:

*1 MEPS compliant at part load.
SUZ-KA•VAD is potentially demand response capable unit.

CEILING-CONCEALED (PEA)													
Indoor Unit Model		PEA-RP100GAA		PEA-RP125GAA		PEA-RP140GAA		PEA-RP170WJA		PEA-RP200WJA		PEA-RP250WHA	
Outdoor Unit Model		PUHZ-RP100V/YKA2		PUHZ-RP125V/YKA2		PUHZ-RP140V/YKA2		PUHZ-RP170V/YKA2		PUHZ-RP200YKA2		PUHZ-RP250YKM	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	13.5 (6.2-15.3)	16.0 (5.7-18.0)	16.0 (9.0-20.0)	20.0 (9.5-22.4)	18.9 (9.0-22.4)	22.4 (9.5-25.0)	22.0 (11.2-27.0)	25.0 (12.5-29.0)
Input	(kW)	2.60	2.51	3.97	3.27	4.19	3.90	5.00	6.00	5.92	6.89	6.11	6.89
Rated EER/COP][1]		3.85	4.46	3.15	4.28	3.22	4.10	3.20	3.33	3.19	3.25	3.60	3.62
Rated AEER/ACOP		3.54/3.51	4.11/4.07	2.98/2.96	4.01/3.98	3.06/3.04	3.88/3.86	3.16/3.11	3.22/3.18	3.04	3.12	3.27	3.37
AEER/ACOP (part-load %)][2]				3.69/3.63		3.67/3.61				3.71			
Power Supply		V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V											
Airflow (Low-Mid-High)	CMM	34-42		50Pa: 48-60, 100Pa: 43-54, 150Pa: 41-52				50-61-72				58-71-84	
	L/S	560-700		50Pa: 800-1,000, 100Pa: 716-900, 150Pa: 683-866				833-1,017-1,200				967-1,183-1,400	
External Static Pressure Pa		50/100/150						60/75/100/150					
Sound Pressure Level][3]	(dB)	39-42		42-45				38-41-44				40-43-46	
Return Air Spigot Size	(mm)	1,102×330						1,100×420					
Supply Air Spigot Size	(mm)	921×250						1,100×340					
Dimensions Height	(mm)	400						470					
Dimensions Width	(mm)	1,400						1,370					
Dimensions Depth	(mm)	634						1,120					
Weight	(kg)	63						108					

Notes:

*1 Rated EER/COP for PEA-RP170/200WJA/250WHA are measured at ESP 75 Pa.

*2 MEPS compliant at part load.

*3 Sound pressure level for PEA-RP125/140GAA are measured in anechoic chamber at ESP 50 Pa.
Sound pressure level for PEA-RP170/200WJA/250WHA are measured in anechoic chamber at ESP 150 Pa.

SPECIFICATIONS

OUTDOOR UNIT							
Model			SUZ-KA25VAD2	SUZ-KA35VAD2	SUZ-KA50VAD2	SUZ-KA60VAD2	SUZ-KA71VAD2
External Finish			Munsell 3.0Y 7.8/1.1				
Power Supply			Single-phase, 50Hz, 230V				
Compressor Output		(kW)	0.55	0.65	0.9	0.9	1.2
Airflow (Cooling / Heating)		CMM (L/S)	34 (568)/32 (534)	33 (551)	49 (817)	58 (960)/49 (816)	57 (950)/48 (800)
Sound Pressure Level (dB)	Cooling Mode		46	47	53	55	
	Heating Mode		46	48	55	55	
Sound Power Level		(dB)	59	61	68	69	
Dimensions	Height	(mm)	550		850	880	
	Width	(mm)	800		840	840	
	Depth	(mm)	285		330	330	
Weight		(kg)	30	33	53	50	53
Chargeless Piping Length		(m)	7				
Max. Piping Length		(m)	20		30		
Max. Height Difference		(m)	12		30		
Pipe Size OD		(mm)	Liquid: ø6.35		Liquid: ø6.35	Liquid: ø6.35	Liquid: ø9.52
			Gas: ø9.52		Gas: ø12.7	Gas: ø15.88	Gas: ø15.88
Thickness		(mm)	Liquid: t 0.8			Liquid: t 0.8	
			Gas: t 0.8			Gas: t 1.0	
Breaker Size		(A)	10		20		

OUTDOOR UNIT						
Model			PUHZ-RP71VHA5	PUHZ-RP100V/YKA2	PUHZ-RP125V/YKA2	PUHZ-RP140V/YKA2
External Finish			Munsell 3.0Y 7.8/1.1			
Power Supply			V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V			
Compressor Output		(kW)	1.6	1.9	2.4	2.9
Airflow (Cooling / Heating)		CMM (L/S)	60 (1,000)	110 (1,830)	120 (2,000)	
Sound Pressure Level (dB)	Cooling Mode		47	49	50	50
	Silent Mode		44	46	47	47
	Heating Mode		48	51	52	52
Sound Pressure Level		(dB)	66	69	70	70
Dimensions	Height	(mm)	943	1,338		
	Width	(mm)	950	1,050		
	Depth	(mm)	330	330		
Weight		(kg)	67	V: 118 Y: 119		V: 120 Y: 121
Chargeless Piping Length		(m)	30	30		
Max. Piping Length		(m)	50	75		
Max. Height Difference		(m)	30			
Pipe Size OD		(mm)	Liquid: ø9.52			
			Gas: ø15.88			
Thickness		(mm)	Liquid: t 0.8			
			Gas: t 1.0			
Protection Device			Discharge thermo, HP switch			
Rated Running Current (Cooling / Heating)		(A)	9.05/9.64	V: 12.64/13.58 Y: 4.42/4.75	V: 16.36/16.90 Y: 5.73/5.91	V: 17.17/19.23 Y: 6.01/6.73
Breaker Size		(A)	25	V: 32 Y: 16		V: 40 Y: 16

OUTDOOR UNIT					
Model			PUHZ-RP170V/YKA2	PUHZ-RP200YKA2	PUHZ-RP250YKM
External Finish			Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1	Munsell 5.0Y 8.0/1.0 or Similar
Power Supply			V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V		
Compressor Output		(kW)	3.0	3.6	6.9
Airflow (Cooling / Heating)		CMM (L/S)	140 (2,330)	140 (2,330)	175 (2,917)
Sound Pressure Level (dB)	Cooling Mode		58	58	58
	Silent Mode		56	56	48
	Heating Mode		59	59	58
Sound Power Level		(dB)	76	76	78
Dimensions	Height	(mm)	1,338	1,338	1,650
	Width	(mm)	1,050	1,050	920
	Depth	(mm)	330	330	740
Weight		(kg)	V: 127 Y: 131	136	199
Chargeless Piping Length		(m)	30	30	0
Max. Piping Length		(m)	75	75	75
Max. Height Difference		(m)	30		
Pipe Size OD		(mm)	Liquid: ø9.52		Liquid: ø9.52
			Gas: ø25.4		Gas: ø22.2
Thickness		(mm)	Liquid: t 0.8		
			Gas: t 1.0		
Protection Device			Discharge thermo, HP switch		
Rated Running Current (Cooling / Heating)		(A)	V: 19.4/23.9 Y: 6.8/8.3	8.2/9.7	9.7/11.0
Breaker Size		(A)	V: 40 Y: 32	32	32

GUARANTEED OPERATING RANGE						
		SUZ-KA			PUHZ	
		25/35	50	60/71	71/100/125/140/170/200	250
Cooling	Upper Limit (DB)	46°C	43°C	46°C	46°C	46°C
	Lower Limit (DB)	–10°C	–15°C	–15°C	–5°C (–15°C*)	–5°C
Heating	Upper Limit (DB)	24°C	24°C	24°C	21°C	15.5°C (WB)
	Lower Limit (DB)	–15°C	–15°C	–15°C	–20°C	–20°C (WB)

* With the optional air protection guide, the operation at –15°C outdoor temperature is possible.

Sound Pressure Level:

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

Notes for All Specifications:

- Rating conditions (AS/NZS 3823)
- Cooling - Indoor: 27°C DB, 19°C WB
  Outdoor: 35°C DB
- Heating - Indoor: 20°C DB
  Outdoor: 7°C DB, 6°C WB
- Refrigerant piping length (one-way): 5m

* Above specifications are for outdoor units only.

* For PUHZ-RP250YKM: 7.5m

Total input based on the indicated voltage (indoor/outdoor)

	Indoor	Outdoor
50Hz	Single-phase, 230V	Single-phase, 230V/ Three-phase, 400V

ZONE CONTROLLER

System Components

Parts	Specifications
Zone controller	Make sure the correct zone controller is selected from the following 4 models. » Maximum 4 of 24 V AC damper motor connecting type: PAC-ZC40H-E » Maximum 8 of 240 V AC damper motor connecting type: PAC-ZC80H-E » Maximum 4 of 24 V AC damper motor connecting type: PAC-ZC40L-E » Maximum 8 of 240 V AC damper motor connecting type: PAC-ZC80L-E
Zone remote controller	A maximum of 2 remote controllers can be connected. 1x remote controller is included in the Zone Controller, Additional remote part# : PAR-ZC01M-E
Temperature sensors	A maximum of 5 temperature sensors » Intake air temperature sensor in the indoor unit » Temperature sensor in the main remote controller » Temperature sensor in the sub remote controller » Optional temperature sensor 1: PAC-SE41TS-E » Optional temperature sensor 2: PAC-SE41TS-E They can be assigned to each of the zones
Damper motor (locally supplied)	Only drive open, drive close damper motor can be connected. (Spring motor damper can not be used) If 24 V AC motors are used ensure the transformer is adequately sized for the zone motors connected and ensure it's suitable for the installation conditions.

MITSUBISHI ELECTRIC

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