MITSUBISHI ELECTRIC

AIR CONDITIONING SYSTEMS

Changes for the Better

Mitsubishi Electric Quality

Natural Comfort for Everybody

Mr.SLIM

R410A

COMFORT TAKES ON NEW MEANING WITH THE POWER OF TECHNOLOGY

Our technologically advanced Mr. Slim Power Inverter systems improve comfort, operate with significantly less noise, ... and provide increased energy savings.

Mr.SLIM

NEW REFRIGERANT

R410A Our air conditioners use R410A, HFC refrigerant.

Advanced Power Inverter

Mitsubishi Electric's new Power Inverter systems drastically reduce power consumption

To better meet the needs of shops and offices, our outdoor units are now offered in three-phase power supply models in addition to the existing line-up of single-phase models. Select the model to best match your needs from our expanded model range.

Outdoor Line-up (PUHZ-RP series)							
	71	100	125	140	170	200	250
Single-phase	●	●	●	●	●		
Three-phase		●	●	●	●	●	●

Silent Operation

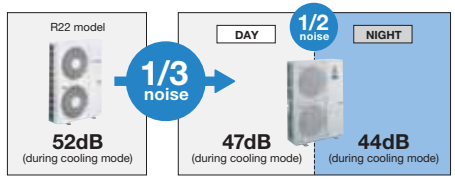
Technological Improvements for Super Quiet Operation

Exceptionally Quiet Operation: Top Class in the Industry

Newly designed fan blades and grille shape realise ultra-quiet operation. In low-noise mode, which activates automatically when the outside temperature drops, Power Inverter units are even quieter, with operating noise reduced by 3dB.

Low-noise Priority Function

A low-noise priority function is available when a commercially available timer or selection switch is connected. When a signal is received from the timer or switch, the unit begins running in the low-noise priority mode. (The switch must be set when installed.)



	R22	R410A	
	Non-inverter units	Inverter units (PUHZ-RP)	
		Normal	Low-noise Mode
71class	52	47	44
100class	54	49	46
125class	55	50	47
140class	56	50	48

*Sound pressure level (dBA)

Longer Maximum Piping Length

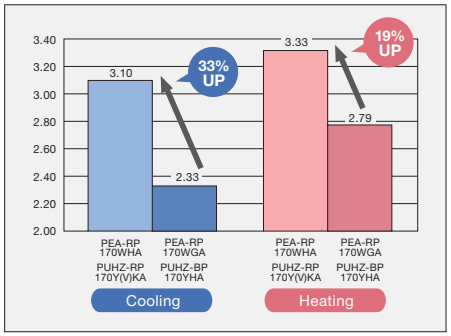
As a result of increasing the volume of refrigerant, piping length has been increased to a maximum of 75m, expanding the range of layout possibilities for unit installation.

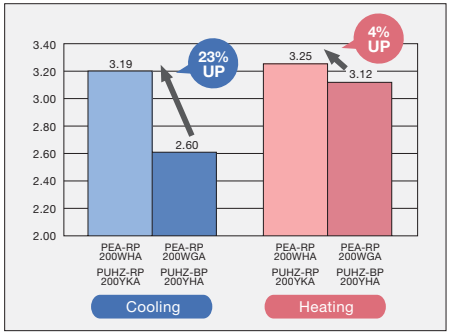
Max.piping length	can be stretched to **75m**	
	Max.height difference	Max.piping length
PUHZ-RP71	30m	50m
PUHZ-RP 100/125/140/ 170/200/250	30m	75m

High Energy Efficiency

Improved EER/COP

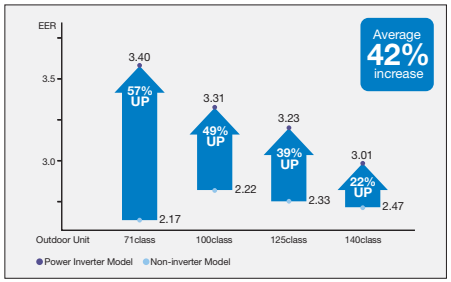
The latest inverter technology improves the energy efficiency of heating/cooling operation from the previous model, realising further reductions in power consumption.





Comparison of EER(cooling mode)

Comparison of EER between non-inverter and Power Inverter (4-way cassette) models.



High Power

More Power for Faster Cooling/Heating

Improved Cooling/Heating Performance

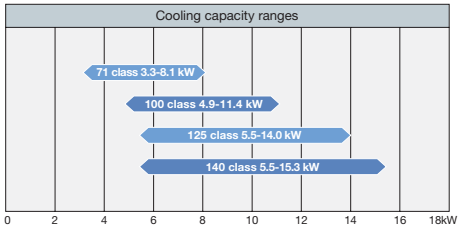
The maximum operating speed and cooling/heating capacity of the new Mr. Slim Power Inverter units have been improved by as much as 33% (compared to conventional non-inverter models) when operating in either low or high outdoor temperatures.

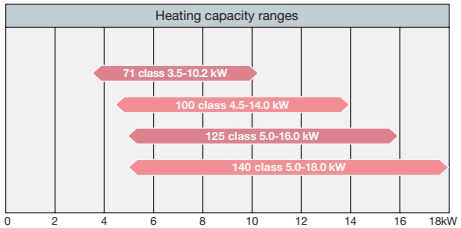
Cooling capacity			4way cassette
	R22 Non-inverter	R410A Power inverter max. (PUHZ-RP)	
71	7.7	8.1	105%
100	9.7	11.4	118%
125	12.4	14.0	113%
140	14.0	15.3	109%

Heating capacity			
	R22 Non-inverter	R410A Power inverter max. (PUHZ-RP)	
71	8.4	10.2	121%
100	10.4	14.0	135%
125	14.0	16.0	114%
140	16.1	18.0	112%

Wider Performance Range

Operation is now possible at lower speeds, thus cutting energy losses produced by the repeated On/Off operation of non-inverter models. Comfort is improved while power consumption is reduced.





Advanced Energy-saving Technologies

Highly efficient fan and grille for outdoor unit

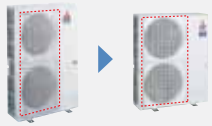
The shapes of the fan and grille of the outdoor unit were redesigned, realising an increase in blowing capacity and more efficient heat exchange while maintaining the same operating noise level.

Outdoor unit fan opening increased <PUHZ–RP170/200>

The diameter of the opening for the fan in the outdoor unit has been increased from 490 to 550mm. Blowing capacity has been increased while maintaining the same fan rotation speed.

Grille shape changed <PUHZ–RP170/200>

The shape of the air outlet grille has been changed to reduce pressure loss. This has helped improve heat exchange performance.



Inflexed fan <PUHZ–RP170/200>

Adoption of a fan with improved ventilation characteristics and a newly designed rear edge that suppresses wind turbulence raises fan operation efficiency.

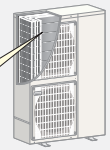
Highly efficient heat exchanger

A high density and increase in surface area have improved the heat-exchange efficiency of the heat exchanger.

High-density heat exchanger <PUHZ–RP170/200>

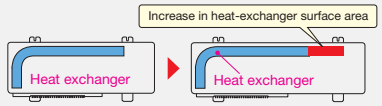
The pipe diameter has been changed from 9.52 to 7.94mm, resulting in a high-density heat exchanger.

2 lines, 52 columns
↓
2 lines, 64 columns (RP170)



Heat-exchange surface area increased <PUHZ–RP170/200>

Heat exchanger size extended horizontally, increasing the surface area.

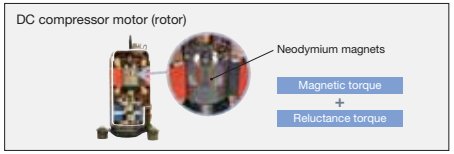


Advanced Technology for High Efficiency

Numerous Leading-edge Technologies Assure High Efficiency

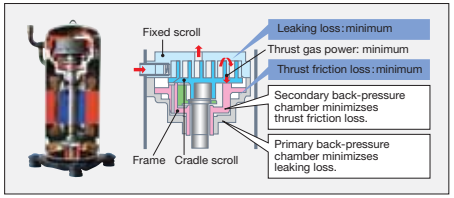
Reluctance DC Rotary Compressor (PUHZ-RP71)

The reluctance DC motor has a rotor equipped with powerful neodymium magnets. The magnetic torque produced by the neodymium magnets and reluctance torque results in more efficient operation.



Highly Efficient Scroll Compressor (PUHZ-RP100/125/140/170/200)

Higher efficiency has been achieved by adding a frame compliance mechanism to the DC scroll compressor. The mechanism allows movement in the axial direction of the frame supporting the cradle scroll, thereby greatly reducing the leakage and friction loss, and ensuring extremely high efficiency at all speeds.



DC Fan Motor (PUHZ-RP71/100/125/140/170/200)

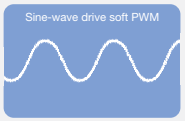
A highly efficient DC motor has been installed to drive the fan of outdoor units, realising up to 60% higher efficiency when compared to an equivalent AC motor.

Vector-Wave Eco Inverter

This inverter monitors the varying compressor motor frequency and creates the most efficient waveform for the motor speed. As a result, operating efficiency in all speed ranges is improved, less power is used and annual electricity costs are reduced.

Smooth AC wave pattern

The inverter has been made more compact by inserting the circuitry inside a synthetic resin molding.
To ensure quiet operation, soft PWM control is used to prevent the metallic whine associated with conventional inverters.



Power Receiver and Twin LEV Control (PUHZ-RP71/100/125/140/170/200)

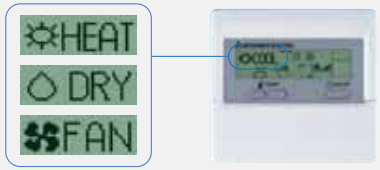
Mitsubishi Electric has developed a power receiver and twin linear expansion valves (LEVs) that optimise the performance of the compressor. By ensuring optimum control in response to the operating waveform and outdoor temperature, this technology is tailored to the characteristics of the new refrigerant to enhance operating efficiency.

Dot Liquid-crystal Display Adopted

The adoption of dot liquid-crystal display (LCD) technology and a large display screen for the control panel optimises visibility. Operation and control status are easily read at a glance.

Display example [operation mode]

Dot liquid crystal display section



Easy to Read/Easy to Use

Industry First! Multi-language Display

Multi-language

Operations can be shown in eight languages.

The display can be switched easily to any of the compatible languages.

1st in the Industry!

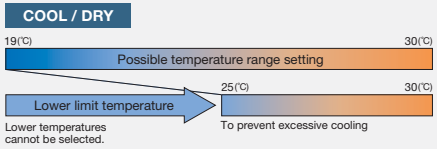
Energy-efficient Control

Operation Control Function

Limited Temperature Range Settings

Air conditioner operation restricted to within a specified operating range

The upper and lower limits for the temperature range during operation can be set. This prevents excessive heating or cooling, leading to increased energy savings.



Recommend for use in: Office, Restaurant

Auto-off Timer

Automatically turns off air conditioner

Set the time for the air conditioner to turn off automatically. The timer can be set in the range from 30 minutes up to 4 hours in 30-minute intervals.

* The "Simple Timer," which can be set at one-hour intervals, is set at the time of shipment from the factory. It can be changed to the "Auto-off Timer" function using the remote controller.

Recommend for use in: Meeting room

Operation Lock

Prevent operation settings from being changed

Units can be set so that the operation mode cannot be changed. When "Operation Lock" is activated, new temperature setting commands are not accepted, thereby ensuring that the unit runs in the specified (locked in) temperature range. This promotes energy savings and prevents erroneous or mischievous operation.

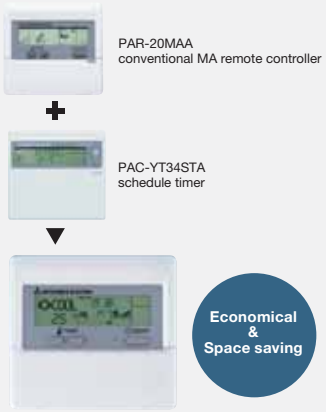
* Only the administrator can change settings when using the Operation Lock mode.

Recommend for use in: Office, School / Private school, Public facility like public hall, Hospital, Server room

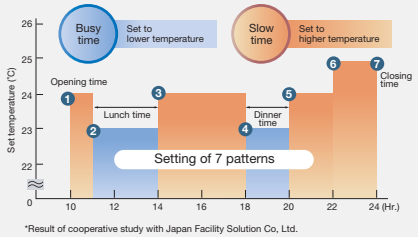
Weekly Timer – Introduced in Response to Market Demand

Control temperature on a weekly basis

Temperature settings and On/Off control can be managed over a period of one week using the Weekly Timer. Up to eight setting patterns per calendar day are possible.



Setting example (restaurant in summer time)



*Result of cooperative study with Japan Facility Solution Co, Ltd.

Setting the temperature 1°C higher for cooling and 1°C lower for heating results in an energy savings of approximately 10%.

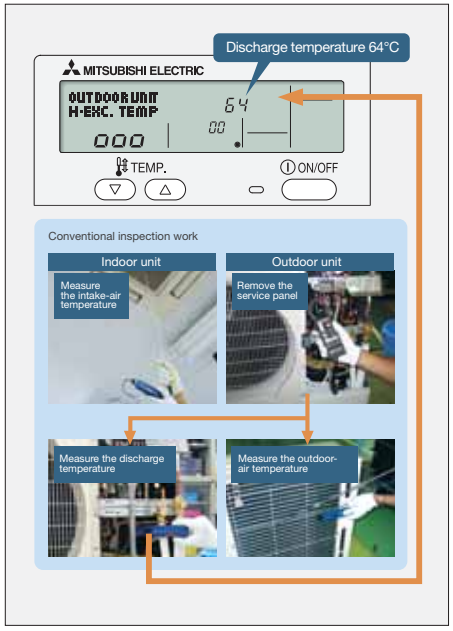
Approximate 10%* Energy Savings

*Based on in-house calculations.

Easy Maintenance Function (Mr. SLIM Power Inverter only)

- Nearly maintenance-free operation
- Monitor operation data of the indoor and outdoor units via the remote controller. The remote controller also lets you set the operating frequency, allowing easier inspection.

POWER INVERTER



Easy maintenance information

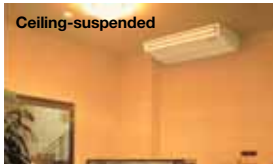
Compressor		Outdoor unit		Indoor unit	
	Accumulated operating time (×10hours)	④	Heat exchanger temperature (℃)	⑦	Intake-air temperature (℃)
	Number of On/Off times (×100 times)	⑤	Discharge temperature (℃)	⑧	Heat exchanger temperature (℃)
	Operating current (A)	⑥	Outdoor-air temperature (℃)	⑨	Filter operating time* (hr)

*The filter operating time is the time elapsed since the filter was reset.

Refrigerant Leakage Check (Mr. SLIM Power Inverter only)

Mr. Slim Power Inverter units come equipped with a useful new "Refrigerant Leakage Check" function. Using a wired remote controller, it is easy to check if refrigerant has been lost over a long period of use. This reduces service time and gives an added sense of safety.

POWER INVERTER

Product Line-up		2.5kW	3.5kW	5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW	17.0kW	20.0kW	25.0kW	Remote controller	See page
 4-way ceiling cassette	**SLZ** Compact cassette	 SLZ-KA25VA(L)	 SLZ-KA35VA(L)	 SLZ-KA50VA(L)									 for SLZ-VAL	15
	PLA Wide Power cassette				 PLA-RP60BA	 PLA-RP71BA	 PLA-RP100BA	 PLA-RP125BA	 PLA-RP140BA					9 / 10
 Compact bulkhead	**SEZ**	 SEZ-KD25VA(L)	 SEZ-KD35VA(L)	 SEZ-KD50VA(L)	 SEZ-KD60VA(L)	 SEZ-KD71VA(L)							 for SEZ-VAL	15
 Ceiling-concealed	**PEA**					 PEA-RP71EA	 PEA-RP100EA2	 PEA-RP125EA	 PEA-RP140EA2	NEW  PEA-RP170WHA	NEW  PEA-RP200WHA	NEW  PEA-RP250WHA		11
 Ceiling-suspended	**PCA**			 PCA-RP50KA	 PCA-RP60KA	Combination only with PUHZ-RP71  PCA-RP71HA  PCA-RP71KA	 PCA-RP100KA	 PCA-RP125HA  PCA-RP125KA	 PCA-RP140KA				 Optional	12 / 13
 Wall-mounted	**PKA**					Combination only with PUHZ-RP71  PKA-RP71FAL	 PKA-RP100FAL					Optional	14
	Outdoor unit	NEW SUZ-KA25VA2	NEW SUZ-KA35VA2	NEW SUZ-KA50VA2	NEW SUZ-KA60VA2	NEW NEW SUZ-KA71VA2 NEW PUHZ-RP71VHA3	PUHZ-RP100V/YHA2	PUHZ-RP125V/YHA2	PUHZ-RP140V/YHA2	NEW PUHZ-RP170V/YKA	NEW PUHZ-RP200YKA	NEW PUHZ-RP250YHM-A		

*SEZ/SLZ indoor units should be connected to an SUZ outdoor unit.
*PKA-RP71 and PCA-RP71HA: only for PUHZ-RP outdoor connection.

PLA SERIES

(i-see Sensor: optional)

PLA-RP60/71
100/125/140BA

Advancements in PLA Series improve style and performance for ensured indoor comfort

Wide Airflow

Wide-angle outlets distribute airflow to all corners of the room, ensuring the room is sufficiently cooled/heated. Horizontal airflow and a fan speed reduced by 20% compared to conventional models also contribute to increased comfort for occupants.

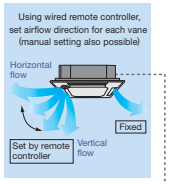
Less Cold Draft

The “Horizontal Airflow” function prevents cold drafts from striking the body directly, thereby keeping the body from becoming over-chilled.

Horizontal Airflow
prevents drafty feeling

Independent Vane Direction Setting

Use the wired remote controller to set the airflow pattern of each vane independently. Easily adjust airflow to the interior layout and seasonal conditions, and ensure an even temperature distribution all the time.

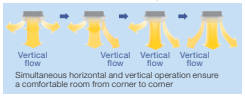


Settings can be changed anytime using a wired remote controller.

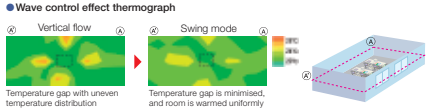
Wave Airflow Mode for Heating

The airflow direction at each outlet changes intermittently, providing a consistent temperature throughout the room.

● “Wave Airflow” operation image



● Wave control effect thermograph



Auto Fan Speed Mode

The fan speed is adjusted automatically, thereby maintaining a comfortable room environment at all times. At the start of operation, a high fan speed realises quick heating/cooling of the room. Once the desired temperature is reached, the fan speed is reduced for stable heating/cooling and greater comfort.

Fan speed setting by remote controller (four levels)

Lo ➡ Mi1 ➡ Mi2 ➡ Hi ➡ Auto

*Special setting is required for wireless remote controller.

Quiet Operation

An improved airflow path and powerful high-capacity flow fan contribute to the realisation of quieter operation.

Power flow fan

“Pure White” Colour

Stylish, pure white-coloured panels and wired remote controller express a clean, streamlined image that is a suitable match for any interior.

Other Features

- Stylish indoor-unit vane covers (when unit is turned off)
- Maximum upward draining of 850mm
- Wireless remote controller available
- Duct flange for Fresh-air Intake
- Branch duct

Automatic Grille Lowering Function (Option)

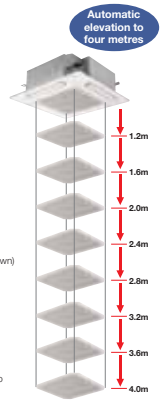
Easy to use/Simple maintenance

An automatic grille lowering function capable of stopping at eight different heights is available to simplify filter maintenance.

Elevating (up-down) controller

Wired remote controller (optional for Auto Elevating Panel)

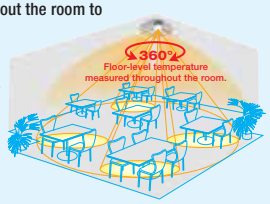
* A receiver on the elevated panel detects commands from the wireless remote controller.



Specifications: 4-way ceiling cassette (PLA)															
Indoor unit			PLA-RP60BA		PLA-RP71BA		PLA-RP71BA		PLA-RP100BA		PLA-RP125BA		PLA-RP140BA	
Outdoor unit			SUZ-KA60VA2		SUZ-KA71VA2		PUHZ-RP71VHA3		PUHZ-RP100V/YHA2		PUHZ-RP125V/YHA2		PUHZ-RP140V/YHA2	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)		(kW)	6.1 (1.1-6.3)	6.9 (0.9-8.0)	7.1 (0.9-8.1)	8.0 (0.9-10.2)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	14.0 (5.5-15.3)	16.0 (5.0-18.0)
Input		(kW)	1.87	1.97	2.07	2.19	2.09	2.17	3.02	3.10	3.87	3.88	4.65	4.43
Rated EER/COP			3.26	3.50	3.43	3.65	3.40	3.69	3.31	3.61	3.23	3.61	3.01	3.61
Indoor unit			PLA-RP60BA		PLA-RP71BA		PLA-RP71BA		PLA-RP100BA		PLA-RP125BA		PLA-RP140BA	
Power supply			V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V											
Airflow (Lo-Mi2-Mid-Hi)		CMM	12-14-16-18		14-16-18-21		14-16-18-21		20-23-26-30		22-25-28-31		24-26-29-32	
		L/S	200-233-267-300		233-267-300-350		233-267-300-350		334-384-434-501		367-417-467-517		400-434-484-534	
Sound pressure level		(dB)	28-29-31-32		28-30-32-34		28-30-32-34		32-34-37-40		34-36-39-41		36-39-42-44	
Dimensions	Height	(mm)	Unit: 258, Panel: 35						Unit: 298, Panel: 35					
	Width	(mm)	Unit: 840, Panel: 950				Unit: 840, Panel: 950							
	Depth	(mm)	Unit: 840, Panel: 950				Unit: 840, Panel: 950							
Weight		(kg)	Unit: 23, Panel: 6				Unit: 25, Panel: 6						Unit: 27, Panel: 6	

4-way cassettes can be equipped with the i-see Sensor, a radiation-based sensor that monitors floor-level temperatures throughout the room to ensure room comfort.

i-see Sensor works to ensure even temperature distribution and save energy (requires optional corner panel)

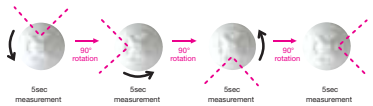


i-see Sensor improves energy efficiency and enhances room comfort

The i-see Sensor is an innovative Mitsubishi Electric technology that uses a radiation-based sensor to monitor temperature throughout the entire room. When connected to the air conditioner control panel, i-see Sensor works to maximise room comfort through 360° sensing that covers the whole floor space.

■ i-see Sensor Operation

The i-see Sensor rotates 90° and takes 5-second measurements to accurately determine floor-level temperatures on all sides of the room.



- The i-see Sensor calculates the temperature by measuring the infrared rays emanating from the walls and floors, and measuring the floor-level temperature.
- The sensor rotates 360-degrees once every two minutes when there is significant temperature disparity and once every five minutes when a stable, even temperature has been reached.

“I Feel” Temperature Control

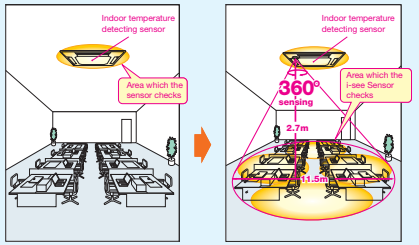
The sensory temperature is calculated by measuring the air-intake temperature and the floor temperature. This technology makes it possible to avoid overcooling or overheating.

Without i-see Sensor

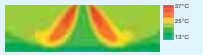
Only intake-air temperature at the ceiling is measured, resulting in uneven temperature distribution.

With i-see Sensor

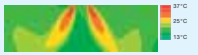
Both floor-level and intake-air temperatures are measured, providing operation that creates a comfortable room environment from ceiling to floor.



Heating
Set temperature: 23°C
without i-see Sensor



Heating
Set temperature: 20°C
with i-see Sensor + Auto Fan Speed



PEA SERIES

PEA-RP71EA/100EA2

PEA-RP125EA/140EA2

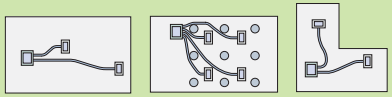
NEW

PEA-RP170/ 200/250WHA

For elegance and style, the PEA Series compliments the room environment with aesthetically pleasing ceiling installation and a vast line-up of performance functions.

Freedom in Installation

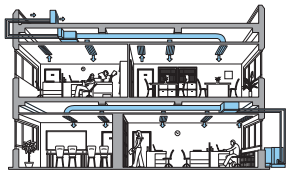
Versatile and easy installation is possible; for example, it is possible to adjust the distance between the air-intake and air-outlet vents to create the optimal airflow configuration.



■ Long rectangular room ■ Room with fixed ceiling fixtures ■ L-shaped room

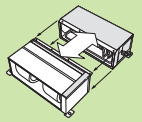
Flexible Duct Design Enables Use of High-pressure Static Fan

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.



Easier Handling

The new ducted fan coil unit (PEA-RP170/200/250WHA) now 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.

Computerised Dehumidification

The fan speed is controlled electronically in dehumidifying mode, increasing the range and efficiency of dehumidification.

Specifications: Ceiling-concealed (PEA)

Indoor unit		PEA-RP71EA		PEA-RP100EA2		PEA-RP125EA		PEA-RP140EA2		PEA-RP170WHA		PEA-RP200WHA		PEA-RP250WHA	
Outdoor unit		PUHZ-RP71VHA3		PUHZ-RP100V/YHA2		PUHZ-RP125V/YHA2		PUHZ-RP140V/YHA2		PUHZ-RP170V/YKA		PUHZ-RP200YKA		PUHZ-RP250YHM-A	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	7.1 (3.3-8.1)	8.4 (3.5-10.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	14.0 (5.5-15.3)	16.0 (5.0-18.0)	17.0 (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)	2.48	2.51	3.25	3.20	4.42	4.22	5.03	4.51	5.48	6.00	5.92	6.89	7.21	8.06
Rated EER/COP*		2.86	3.35	3.08	3.50	2.83	3.32	2.78	3.55	3.10	3.33	3.19	3.25	3.05	3.10
Indoor unit		PEA-RP71EA		PEA-RP100EA2		PEA-RP125EA		PEA-RP140EA2		PEA-RP170WHA		PEA-RP200WHA		PEA-RP250WHA	
Power supply		V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V													
Airflow (Lo-Hi)	CMM	22-27		27-34		34-42		48-60		50-61-72 (Lo-Mid-Hi)				58-71-84 (Lo-Mid-Hi)	
	L/S	367-450		450-567		567-700		800-1000		833-1017-1200				967-1183-1400	
External static pressure Pa		125								60-75-100-150					
Sound pressure level	(dB)	52-55		54-58				51-55		35-38-41				37-40-43	
Dimensions Height	(mm)	428								470					
Dimensions Width	(mm)	785		1,055		1,255		1,415		1,370					
Dimensions Depth	(mm)	690								1,120					
Weight	(kg)	46		59		72		76		108					

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

PC SERIES

PCA-RP71/125HA

optional

High-performance, easy-to-maintain stainless-steel units perfect for use in kitchens and modern shops

Tough on Oily Smoke

A durable stainless-steel casing that is resistant to oil and grease is provided to protect the surface of the body. Grimy dirt and stains are removed easily, enabling the unit to be kept clean at all times.

High-performance Oil Mist Filter

A high-performance heavy-duty oil mist filter is included as standard equipment. The filtering system is 1.5-times more efficient than conventional filters, thereby effectively reducing the oily smoke entering the air conditioner. The filter is disposable to further simplify trouble-free cleaning and maintenance.

■ Oil mist filter ■ Pull the handle to easily slide the filter out

Easy Maintenance – Even for Cleaning the Fan

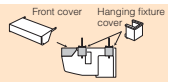
A separate fan casing that can be disassembled in sections is adopted to ensure easy fan cleaning. Drain pan cleaning onsite is also easy owing to the use of a pipe connector that can be quickly removed.

Bring in Outside Air for Fresher Air Conditioning (Option)

The rear panel has a knock-out opening that can be used to bring fresh air into the unit. This helps to improve ventilation in the kitchen for more comfort.

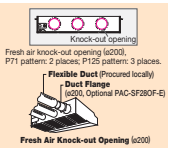
Cosmetic Front and Hanging Fixture Covers (Option)

Cosmetic covers are available to prevent the collection of dust and grime on the main body and hanging fixture sections.



Fresh Outside-air Intake

There is a knock-out opening on the rear panel of the unit that can be used to bring fresh air into the unit. This helps to improve ventilation and make the kitchen comfortable.



Notes:
1) A fresh-air duct flange is required (sold separately)
2) All fresh Outdoor-air Intake option is not available.

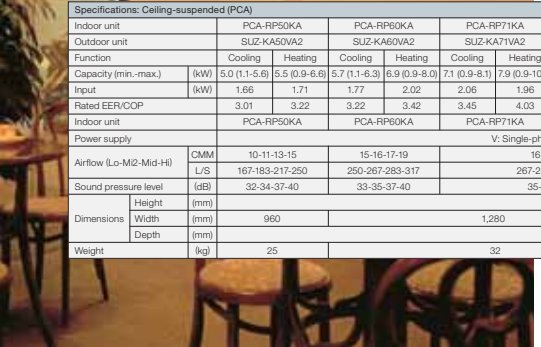
Specifications: Ceiling-suspended (PC)

Indoor unit		PCA-RP71HA		PCA-RP125HA	
Outdoor unit		PUHZ-RP71VHA3		PUHZ-RP125V/YHA2	
Function		Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	7.1 (3.3-8.1)	7.6 (3.5-10.2)	12.5 (5.5-14.0)	13.8 (5.0-16.0)
Input	(kW)	2.30	2.23	4.10	4.16
Rated EER/COP		3.09	3.41	3.05	3.32
Indoor unit		PCA-RP71HA		PCA-RP125HA	
Power supply		V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V			
Airflow (Lo-Hi)	CMM	17-19		30-38	
	L/S	283-317		500-633	
Sound pressure level	(dB)	34-38		44-50	
Dimensions Height	(mm)	280			
Dimensions Width	(mm)	1,136		1,520	
Dimensions Depth	(mm)	650			
Weight	(kg)	41		56	

PCA SERIES

PCA-RP50/60/71/100/125/140KA

optional



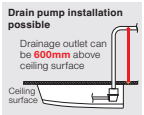
A stylish indoor unit design and airflow settings for both high- and low-ceiling interiors expand installation possibilities

Stylish Indoor Unit Design

A stylish square-like design is adopted for the indoor units of all models. As a result, the units blend in better with the ceiling.

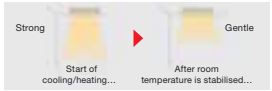
Optional Drain Pump for Full-capacity Models

The pumping height of the optional drain pump has been increased from 400mm to 600mm, expanding flexibility in choosing unit location during installation work.



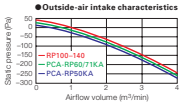
Equipped with Automatic Air-speed Adjustment

In addition to the conventional 4-speed setting, units are now equipped with an automatic air-speed adjustment mode. This setting automatically adjusts the air-speed to conditions that match the room environment. At the start of heating/cooling operation, the airflow is set to high-speed to quickly heat/cool the room. When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable comfortable heating/cooling operation.



Fresh Outside-air Intake

Units are equipped with a knock-out hole that enables the induction of fresh outside-air.



Equipped with High- /Low-ceiling Modes

Units are equipped with high- and low-ceiling operation modes that make it possible to switch the airflow volume to match room height. The ability to choose the optimum airflow volume makes it possible to optimise the breezy sensation felt throughout the room.

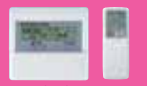
Capacity	High ceiling	Standard ceiling	Low ceiling
50	3.5m	2.7m	2.5m
60	3.5m	2.7m	2.5m
71	3.5m	2.7m	2.5m
100	4.2m	3.0m	2.6m
125	4.2m	3.0m	2.6m
140	4.2m	3.0m	2.6m

Specifications: Ceiling-suspended (PCA)

Indoor unit		PCA-RP50KA		PCA-RP60KA		PCA-RP71KA		PCA-RP71KA		PCA-RP100KA		PCA-RP125KA		PCA-RP140KA	
Outdoor unit		SUZ-KA50VA2		SUZ-KA60VA2		SUZ-KA71VA2		PUHZ-RP71VHA3		PUHZ-RP100V/YHA2		PUHZ-RP125V/YHA2		PUHZ-RP140V/YHA2	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	5.0 (1.1-5.6)	5.5 (0.9-6.6)	5.7 (1.1-6.3)	6.9 (0.9-8.0)	7.1 (0.9-8.1)	7.9 (0.9-10.2)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	14.0 (5.5-15.3)	16.0 (5.0-18.0)
Input	(kW)	1.66	1.71	1.77	2.02	2.06	1.96	1.97	2.22	2.62	3.02	3.88	3.88	4.65	4.43
Rated EER/COP		3.01	3.22	3.22	3.42	3.45	4.03	3.61	3.61	3.81	3.71	3.22	3.61	3.01	3.61
Indoor unit		PCA-RP50KA		PCA-RP60KA		PCA-RP71KA		PCA-RP71KA		PCA-RP100KA		PCA-RP125KA		PCA-RP140KA	
Power supply		V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V													
Airflow (Lo-Mi2-Mid-Hi)	CMM	10-11-13-15		15-16-17-19		16-17-18-20				22-24-26-28		23-25-27-29		24-26-29-32	
	L/S	167-183-217-250		250-267-283-317		267-283-300-333				367-400-433-467		383-417-450-483		400-433-483-533	
Sound pressure level	(dB)	32-34-37-40		33-35-37-40		35-37-39-41				37-39-41-43		39-41-43-45		41-43-45-48	
Dimensions Height	(mm)	230													
Dimensions Width	(mm)	960		1,280						1,600					
Dimensions Depth	(mm)	680													
Weight	(kg)	25		32						36		38		39	

PKA SERIES

PKA-RP71/100FAL



optional

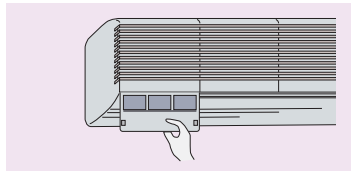
Elegant design and compact dimensions are ideal for offices, stores and residential-use

Auto-flap Shutter Enhances Good Looks

The Intake Grille Filter Can be Completely Removed Allowing Easy Cleaning

(Can be washed in water)

Filter slides out



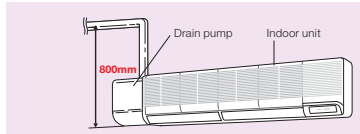
4-way Piping Provides More Flexibility in Selecting Installation Sites

Wired Remote Controller Available (Option)

A separately sold wired remote controller and a terminal block are available to suit various installation sites.

Drain Pump Option Available with All Models

Installation of the drain pump enables a drain outlet as high as 800mm above the base of the indoor unit. Drain water can be discharged easily even if the surface where the wall-mounted unit does not have direct access outside, increasing the degree of freedom for installation.



Specifications: Wall-mounted (PKA)

Indoor unit		PKA-RP71FAL		PKA-RP100FAL	
Outdoor unit		PUHZ-RP71VHA3		PUHZ-RP100V/YHA2	
Function		Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)
Input	(kW)	1.98	2.40	2.93	3.25
Rated EER/COP		3.59	3.33	3.41	3.45
Indoor unit		PKA-RP71FAL		PKA-RP100FAL	
Power supply		V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V			
Airflow (Lo-Hi)	CMM	15-20		22-28	
	L/S	250-333		367-467	
Sound pressure level	(dB)	39-45		41-46	
Dimensions Height	(mm)	340			
Dimensions Width	(mm)	1,400		1,680	
Dimensions Depth	(mm)	235			
Weight	(kg)	24		28	

SLZ SEZ SERIES

SLZ-KA25/35/50VA(L)

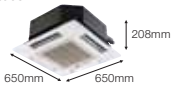
for SLZ for SEZ

SEZ-KD25/35/50/
60/71VA(L)

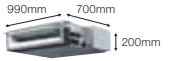
Compact, ultra-quiet concealed indoor units equipped with cutting-edge control technologies for enhanced comfort

Compact Designs

Models with capacity ranges for any room size. The dimensions of the SLZ are perfect for 2-metre-square installations, and the SEZ unit is a slim 200mm in height, making it ideal for tight installation spaces.



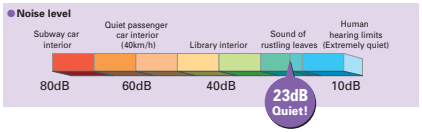
SLZ-KA25/35/50



SEZ-KD35/50

Impressively Quiet

S Series units offer whisper-quiet operation at a hushed noise level of 23dB (SEZ-KD25/35), ensuring a calm and comfortable environment. They're so quiet that you'll find yourself checking to see if they're on.



Energy-saving Operation

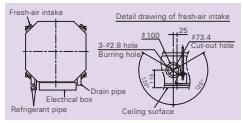
Boasting low electricity consumption, SLZ/SEZ Series air conditioners are the key to fresh, cost-effective room comfort.

Air Cleaning Filter

This built-in filter removes dust and other particulates, keeping the air clean all the time. Maintenance is as simple as vacuuming. The long-life filter in SLZ Series air conditioners can be used for approximately 2,500 hours before requiring replacement.

Fresh-air Intake

A duct hole is provided in the main body, making it possible to intake fresh air from outside.



Specifications: Compact 4-way cassette/Compact bulkhead (SLZ, SEZ)

Indoor unit		SLZ-KA25VA (L)		SLZ-KA35VA (L)		SLZ-KA50VA (L)		SEZ-KD25VA (L)		SEZ-KD35VA (L)		SEZ-KD50VA (L)		SEZ-KD60VA (L)		SEZ-KD71VA (L)	
Outdoor unit		SUZ-KA25VA2		SUZ-KA35VA2		SUZ-KA50VA2		SUZ-KA25VA2		SUZ-KA35VA2		SUZ-KA50VA2		SUZ-KA60VA2		SUZ-KA71VA2	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	2.5 (0.9-3.2)	3.2 (0.9-4.5)	3.5 (1.0-3.9)	4.0 (0.9-5.0)	4.6 (1.1-5.2)	5.0 (0.9-6.5)	2.5 (0.9-3.2)	3.0 (0.9-4.5)	3.7 (1.0-3.9)	4.2 (0.9-5.0)	5.1 (1.1-5.6)	6.4 (1.1-7.2)	5.6 (1.1-6.3)	7.4 (0.9-8.0)	7.1 (0.9-8.3)	8.1 (0.9-10.4)
Input	(kW)	0.68	0.85	1.04	1.09	1.53	1.55	0.75	0.83	1.09	1.13	1.64	1.81	1.86	2.11	2.36	2.18
Rated EER/COP		3.68	3.76	3.37	3.67	3.01	3.22	3.33	3.61	3.39	3.72	3.11	3.54	3.01	3.51	3.01	3.72
Indoor unit		SLZ-KA25VA (L)		SLZ-KA35VA (L)		SLZ-KA50VA (L)		SEZ-KD25VA (L)		SEZ-KD35VA (L)		SEZ-KD50VA (L)		SEZ-KD60VA (L)		SEZ-KD71VA (L)	
Power supply		Single-phase, 50Hz, 230V															
Airflow (Lo-Mid-Hi)	CMM	8-9-10		8-9-11				5.5-7-9		7-9-11		10-12.5-15		12-15-18		12-16-20	
	L/S	133-150-167		133-150-183				92-117-150		117-150-183		167-208-250		200-250-300		200-267-333	
External static pressure Pa		0						5-15-35-50									
Sound pressure level	(dB)	28-31-37		29-33-38		30-34-39		23-26-30		23-28-33		30-34-37		30-34-38		30-35-40	
Dimensions Height	(mm)	Unit: 208, Panel: 20						200		200				200			
Dimensions Width	(mm)	Unit: 570, Panel: 650						790		990				1,190			
Dimensions Depth	(mm)	Unit: 570, Panel: 650						700		700				700			
Weight	(kg)	Unit: 16.5, Panel: 3						18		21		23		27			

*The SLZ-KA VAL and SEZ-KD VAL come equipped with a wireless remote controller.

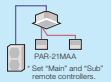
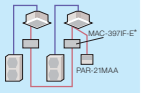
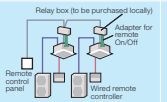
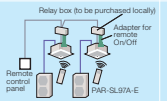
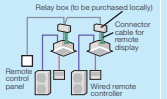
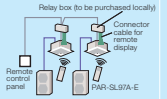
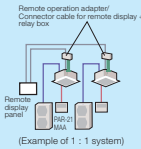
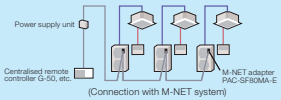
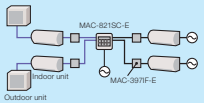
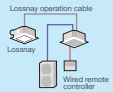
Main features of Mr. Slim Inverter Units

Combination	Indoor unit	SLZ-VA	SLZ-VAL	SEZ-VA	SEZ-VAL	PLA		PEA		PKA	PCA-KA		PCA-HA
	Outdoor unit	SUZ	SUZ	SUZ	SUZ	PUHZ	SUZ	PUHZ-HA PUHZ-KA	PUHZ-HM	PUHZ	PUHZ	SUZ	PUHZ
Energy Saving	Felt Temperature Control (i-see Sensor)	—	—	—	—	Opt	Opt	—	—	—	—	—	—
Attractive	Pure White	●	●	—	—	●	●	—	—	●	●	●	—
	Auto Vane	●	●	—	—	●	●	—	—	●	●	●	—
Air Quality	Fresh-air Intake	●	●	—	—	●	●	—	—	—	●	●	●
	High-efficiency Filter	—	—	—	—	Opt	Opt	—	—	—	Opt	Opt	—
	Oil Mist Filter	—	—	—	—	—	—	—	—	—	—	—	●
	Long-life filter	●	●	—	—	●	●	—	—	—	●	●	—
	Filter Check Signal	●	—	—	—	●	●	—	—	Opt	●	●	●
Air Distribution	Horizontal Fin (Auto Swing)	●	●	—	—	●	●	—	—	●	●	●	—
	High Ceiling Mode	—	—	—	—	●	●	—	—	—	●	●	—
	Auto Fan Speed Mode	—	—	●	●	●	●	—	—	●	●	●	—
Convenience	On/Off Operation Timer	●	●	●	●	●	●	●	●	●	●	●	●
	Auto Change Over *1	●	●	●	●	●	●	●	●	●	●	●	●
	Auto Restart	●	●	●	●	●	●	●	● *3	●	●	●	●
	Low-temperature Cooling	●	●	●	●	●	●	●	●	●	●	●	●
	Low-noise Operation (Outdoor Unit)	—	—	—	—	●	—	●	●	●	●	—	●
	Rotation, Back-up and 2nd Stage Cut-in Function	—	—	—	—	●	—	—	—	Opt	●	—	●
System Control	PAR-21MAA Control *2	●	Opt	●	Opt	●	●	●	●	Opt	●	●	●
	Centralised On/Off Control *2	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	System Group Control *2	Opt	Opt	Opt	Opt	●	Opt	●	● *4	Opt	●	Opt	●
	M-NET Connection *2	Opt	Opt	Opt	Opt	Opt	Opt	Opt	●	Opt	Opt	Opt	Opt
Installation	Reuse of Existing Wiring	—	—	—	—	Opt	—	—	—	Opt	Opt	—	Opt
	Drain Pump	●	●	Opt	Opt	●	●	—	—	Opt	Opt	Opt	—
	Pump Down Switch	—	—	—	—	●	—	●	●	●	●	—	●
	Flare Connection	●	●	●	●	●	●	● *5	—	●	●	●	●
Maintenance	Self-Diagnosis Function (Check Code Display)	●	●	●	●	●	●	●	●	●	●	●	●
	Failure Recall Function	●	●	●	●	●	●	●	●	●	●	●	●

*1 When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.
*2 Please refer "System Control" on page 17 for details.
*3 Indoor unit DIP SW1-9 must be "ON".
*4 Only available between PUHZ-HM models.
*5 Not available with PEA-RP170/200WHA models.

System Controls (SUZ and Mr. Slim Power Inverter only)

Versatile system controls can be realised by using optional parts, relay circuits, control panels, etc.

	System examples: Wired remote controller	System examples: Wireless remote controller	Details	Major optional parts required
A Single-remote controller control Standard system	 (Example of 1 : 1 system)		• Either wired or wireless remote controller can be used	None
B Dual Remote Controllers Two remote controllers, one each for local and remote control of the system	 (Example of 1 : 1 system)		• Up to two remote controllers can be connected to one group • Both wired and wireless remote controllers can be used in combination	• Wired remote controller **PAR-21MAA** • Wired remote controller kit for PKA **PAR-21MAAT-E** • Wireless remote controller **PAR-SL97A-E** • Wireless remote controller kit for PCA **PAR-SL99B-E**
C Group control One remote controller can control multiple air conditioners simultaneously using the same setting. * The setting of the refrigerant address is required for outdoor unit.	 (Example of 1 : 1 system×2)		• One remote controller can control up to 16 refrigerant systems • Outdoor unit can be started/stopped (thermostat On/Off) individually. • Up to two remote controllers can be connected	• **MAC-397 IF-E** is required for each indoor unit if the outdoor unit is SUZ or MXZ (if the outdoor unit is P Series, no optional parts are required)
D Operation Control by level signal (12VDC) Turn on/off unit from a remote location, prohibit/permit operation using a local remote controller	 (Example of 1 : 1 system×2)	 (Example of 1 : 1 system×2)	• Operation other than On/Off (adjustment of temperature, fan speed, and air direction, for example) can be performed even when remote controller operation is prohibited • Timer control is possible with an external timer	• Adapter for remote On/Off **PAC-SE55RA-E** • Relay box (to be purchased locally) • Remote control panel (to be purchased locally)
E Operation control by pulse signal	 (Example of 1 : 1 system×2)	 (Example of 1 : 1 system×2)	• The pulse signal can be turned On/Off. • Operation/Fault signal can be received at a remote location (12VDC signal)	• Connector cable for remote display **PAC-SA88HA-E/PAC-725AD (10 pcs. × PAC-SA88HA-E)** • Relay box (to be purchased locally) • Remote control panel (to be purchased locally)
F Remote display of operating status Operating status can be displayed at a remote location.	 (Example of 1 : 1 system)		• Operation/Fault signal can be received at a remote location (when channeled through the **PAC-SF40RM** → no-voltage signal, when channeled through the **PAC-SA88HA-E** → 12VDC signal)	• Remote display panel (to be purchased locally) • Connector cable for remote display **PAC-SA88HA-E/PAC-725AD (10 pcs. × PAC-SA88HA-E)** • Relay box (to be purchased locally) • Remote operation adapter **PAC-SF40RM** * Cannot be used with wireless remote controller • Remote display panel (to be purchased locally)
G Timer Operation On/Off timer enabled * For the control by external timer, refer to **D** operation control by level signal.	 (Example of 1 : 1 system)		• **Weekly Timer:** On/Off and up to eight pattern temperatures can be set for each calendar day (initial setting) • **Simple Timer:** Unit can be set to turn on/off one time each in a 72hr period; setting intervals of 1hr • **Auto-off Timer:** Unit turns on/off after a specified time elapses. Can be set in the range from 30min to 4hr at intervals of 30min. *Simple Timer and Auto-off Timer cannot be used at the same time.	Standard functions of **PAR-21MAA**
H Centralised control (for Power Inverter only) Centralised control of dispersed air conditioning equipment allows effective monitoring/controlling.	 (Connection with M-NET system)		• Mounting the adapter for M-NET connection to the outdoor unit allows MELANS (M-NET system) connection • Allows centralised control by MELANS	**PAC-SF81MA-E**
Centralised On/Off control (for All Outdoor Units) Up to eight indoor units can be switched On/Off with one remote controller.			• Centralised remote controller can be connected to each indoor unit via interface. • Units can be turned on/off independently or simultaneously using a centralised controller • On/Off statues of each unit can be confirmed viewing the LED display of the centralised controller	• **MAC-397IF-E** (Interface) • **MAC-821SC-E** (Centralised remote controller)
I Interlocking with Lossnay Lossnay can be controlled with a remote controller.	 (Example of 1 : 1 system)		• Lossnay can be connected to the indoor unit	Slim-Lossnay connection cable

Specifications: Outdoor Unit

Outdoor unit			 SUZ-KA25VA2	SUZ-KA35VA2	 SUZ-KA50VA2	SUZ-KA60VA2	 SUZ-KA71VA2
External finish			Munsell 3.0Y 7.8/1.1				
Power supply			Single-phase, 50Hz, 230V				
Compressor output		(kW)	0.55	0.65	0.85		1.2
Airflow (cooling/heating)		CMM (L/S)	34 (568)/32 (534)	33 (551)	49 (818)		50 (835)/48 (800)
Sound pressure level (dB)	Cooling mode		46	47	53		55
	Heating mode		46	48	55		55
Sound level		(dB)	59	61	68		69
Dimensions	Height	(mm)	550		850		880
	Width	(mm)	800		840		840
	Depth	(mm)	285		330		330
Weight		(kg)	33	37	53		53
Chargeless piping length		(m)	7				
Max. piping length		(m)	20		30		
Breaker size		(A)	10		20		

*Above specifications are for outdoor units only.

Outdoor unit			 PUHZ-RP71VHA3	 PUHZ-RP100V/YHA2	PUHZ-RP125V/YHA2	PUHZ-RP140V/YHA2
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)	55 (920)	100 (1670)		
Sound pressure level (dB)	Cooling mode		47	49	50	50
	Silent mode		44	46	47	48
	Heating mode		48	51	52	52
Sound level		(dB)	66	69	70	71
Dimensions	Height	(mm)	943	1350		
	Width	(mm)	950	950		
	Depth	(mm)	330+30	330+30		
Weight		(kg)	75	121	116	
Chargeless piping length		(m)	30	30		
Max. piping length		(m)	50	75		
Protection device			Discharge thermo, HP switch	Discharge thermo, HP switch		
Rated running current (cooling/heating)		(A)	8.04/9.74	V: 12.53/12.39 Y: 4.08/4.03	V: 15.53/15.98 Y: 5.04/5.20	V: 19.65/19.92 Y: 6.37/6.46
Breaker size		(A)	25	V: 32 Y: 16	V: 32 Y: 16	V: 40 Y: 16

*Above specifications are for outdoor units only.

Specifications: Outdoor Unit

Outdoor unit					
			PUHZ-RP170VKA/YKA	PUHZ-RP200YKA	PUHZ-RP250YHM-A
External finish			Munsell 3.0Y 7.8/1.1		Munsell 5Y 8/1
Power supply			V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V		Three-phase, 50Hz, 400V
Compressor output		(kW)	3.0	3.6	6.7
Airflow (cooling/heating)		CMM (L/S)	140 (2,330)		185 (3,083)
Sound pressure level (dB)	Cooling mode		58		58
	Silent mode		56		–
	Heating mode		59		58
Sound level		(dB)	76		–
Dimensions	Height	(mm)	1,338		1,650
	Width	(mm)	1,050		920
	Depth	(mm)	330+30		760
Weight		(kg)	V: 127 Y: 131	136	200
Chargeless piping length		(m)	30		7.5
Max. piping length		(m)	75		75
Protection device			Discharge thermo, HP switch		
Rated running current (cooling/heating)		(A)	V: 23.8/24.8 Y: 8.0/8.8	8.7/10.2	10.54/11.80
Breaker size		(A)	V: 40 Y: 32	32	32

*Above specifications are for outdoor units only.

Notes for All Specifications

Rating conditions (AS/NZS 3823)
Cooling - Indoor: 27°C (80°F) DB, 19°C (66°F) WB
Outdoor: 35°C (95°F) DB
Heating - Indoor: 20°C (68°F) DB
Outdoor: 7°C (45°F) DB, 6°C (43°F) WB
Refrigerant piping length (one-way): 5m (16ft.)

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

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

Guaranteed Operating Range

		SUZ-KA		PUHZ	PUHZ
		25/35	50/60/71	71/100/125/140/170/200	250
Cooling	Upper limit (DB)	46°C	43°C	46°C	43°C
	Lower limit (DB)	–10°C	–15°C	–5°C (–15°C*1)	–5°C
Heating	Upper limit (DB)	24°C	24°C	21°C	21°C
	Lower limit (DB)	–15°C	–15°C	–20°C*2	–11°C

*1 With the optional air outlet guide, the operation at –15°C outdoor temperature is possible.
*2 –11°C for PUHZ-RP71.

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.

Optional Parts

Part name	Model name	Application name
Air outlet guide	PAC-SG59SG-E	PUHZ-RP71/100/125/140
	PAC-SH95AG-E	PUHZ-RP170/200
Air outlet shutter plate	PAC-SH51SP-E	PLA-RP
Air protection guide	PAC-SH63AG-E	PUHZ-RP71/100/125/140
	PAC-SH96SG-E	PUHZ-RP170/200
Built-in wireless remote control receiver kit	PAR-SA9FA-E	PLA-RP
Control / service tool	PAC-SK52ST-E	PUHZ-RP71/100/125/140/170/200
Decoration cover	PAC-SF81KC-E	PCA-RP71HA
	PAC-SF82KC-E	PCA-RP125HA
Drain pan	PAC-SG64DP-E	PUHZ-RP71/100/125/140
	PAC-SH97DP-E	PUHZ-RP170/200
Drain pump	PAC-SE90DM-E	PKA-RP
	PAC-SH83DM-E	PCA-RP50KA
	PAC-SH84DM-E	PCA-RP71/100/125/140KA
	PAC-SH85DM-E	PCA-RP60KA
Drain socket	PAC-SG61DS-E MAC-851DS MAC-811DS	PUHZ-RP71/100/125/140/170/200 SUZ-KA25/35 SUZ-KA50/60/71
Duct flange for fresh air	PAC-SF28OF-E	PCA-RP71/125HA
Filter dryer ø9.52 (liquid) ø12.7 (liquid)	PAC-SG82DR-E PAC-SG85DR-E	PUHZ-RP71/100/125/140/170/200
Flange for Fresh-air Intake	PAC-SH65OF-E	PLA-RP

Part name	Model name	Application name
High efficiency filter	PAC-SH88KF-E PAC-SH89KF-E PAC-SH90KF-E	PCA-RP50KA PCA-RP60/71KA PCA-RP100/125/140KA
High efficiency filter element	PAC-SH59KF-E	PLA-RP
i-see Sensor corner panel	PAC-SA1ME-E	PLA-RP
Joint pipe ø9.52→ø12.7 ø15.88→ø19.05	PAC-SG73RJ-E PAC-SG75RJ-E	PUHZ-RP71 PUHZ-RP100/125/140/170/200
L-shape connection pipe	PAC-SC84PI-E PAC-SC86PI-E	PKA-RP71 PKA-RP100
M-NET adapter	PAC-SF81MA-E	PUHZ-RP71/100/125/140/170/200
Multi-function casement	PAC-SH53TM-E	PLA-RP
Oil mist filter element	PAC-SG38KF-E	PCA-RP71/125HA
Power supply terminal kit	PAC-SG96HR-E	All P Series (excluding PEA-RP•WHA)
Program timer	PAC-SC32PTA	All indoor units (excluding PEA-RP250WHA)
	PAC-SA89TA-EP	PEA-RP250WHA
Remote On/Off adapter	PAC-SE55RA-E	All indoor units
Remote operation adapter	PAC-SF40RM-E	All indoor units (excluding PEA-RP250WHA)
Remote sensor	PAC-SE41TS-E	All indoor units
Space panel	PAC-SH48AS-E	PLA-RP
Wired remote controller kit	PAR-21MAAT-E	PKA-RP
Wireless remote controller kit	PAR-SL94B-E	PCA-RP•KA
Wiring replace kit	PAC-SH52HR-E	PLA-RP

Refrigerant Piping

Capacity	Between indoor & outdoor units		Pipe size OD (mm) (in.)	Thickness (mm)
	Max. height difference (m)	Max. piping length (m)		
SUZ-KA25	12	20	Liquid: ø6.35	t 0.8
			Gas: ø9.52	t 0.8
SUZ-KA35	12	20	Liquid: ø6.35	t 0.8
			Gas: ø9.52	t 0.8
SUZ-KA50	30	30	Liquid: ø6.35	t 0.8
			Gas: ø12.7	t 0.8
SUZ-KA60	30	30	Liquid: ø6.35	t 0.8
			Gas: ø15.88	t 1.0
SUZ-KA71	30	30	Liquid: ø9.52	t 0.8
			Gas: ø15.88	t 1.0
PUHZ-RP71	30	50	Liquid: ø9.52 (3 / 8)	t 0.8
			Gas: ø15.88 (5 / 8)	t 1.0
PUHZ-RP100/125/140	30	75	Liquid: ø9.52 (3 / 8)	t 0.8
			Gas: ø15.88 (5 / 8)	t 1.0
PUHZ-RP170/200	30	75	Liquid: ø9.52 (3 / 8)	t 0.8
			Gas: ø25.4	t 1.0
PUHZ-RP250	30	75	Liquid: ø9.52	t 0.8
			Gas: ø22.2	t 1.0

Amount of Necessary Refrigerant (R410A: kg)

Piping length	Factory charged	Additional charged					Calculation
	7m	10m	15m	20m	25m	30m	
SUZ-KA25	0.9	0.15	0.3	0.45	—	—	Xg=30g/m×(length-5)m
SUZ-KA35	1.05	0.15	0.3	0.45	—	—	
SUZ-KA50	1.6	0.06	0.16	0.26	0.36	0.46	Xg=20g/m×(length-7)m
SUZ-KA60	1.8	0.06	0.16	0.26	0.36	0.46	
SUZ-KA71	2.0	0.165	0.44	0.715	0.99	1.265	Xg=55g/m×(length-7)m

Piping length	Factory charged	Additional charged			
	10 - 30m	31 - 40m	41 - 50m	51 - 60m	61 - 75m
PUHZ-RP71	3.5	0.6	1.2	—	—
PUHZ-RP100/125/140	5.5	0.6	1.2	1.8	2.4

Piping length	Factory charged	Additional charged			
	10 - 30m	31 - 40m	41 - 50m	51 - 60m	61 - 70m
PUHZ-RP170/200	10.5	0.9	1.8	2.7	3.6

*The above values apply in the case of 1:1 connections.
*Please refer to the service manual for PUHZ-RP250.

Please note:

Air conditioners in this brochure contain and operate with refrigerant R410A and synthetic oils.
Before attempting any installation work you must read the installation instructions.
New tools, materials and procedures are required to install these products.
Under Australian Law, only persons suitably licensed are permitted to install and service air conditioning units.
Refer to Country, Commonwealth, State or Territory legislation, regulations and industry codes of practice, before installation of these products.
Recovery and disposal of waste material must comply with Country, Commonwealth, State or Territory guidelines.

Warm, even heat in winter and cool comfort in summer is only a phone call or click away.

Simply contact your nearest Mitsubishi Electric Specialist today and you can find out all there is to know about how to enhance your living environment. Our specialists are fully qualified to give you all the right advice on which Mitsubishi Electric Air Conditioning System is right for you.

To locate your nearest Mitsubishi Electric Specialist go to our website

www.MitsubishiElectric.com.au

They will determine whether a Compact Inverter System or a Power Inverter System best suits your needs, both in comfort and efficiency. You can either visit one of our Specialist's Showrooms, or they will happily arrange for one of their Consultants to come to your home.

All Mitsubishi Electric Compact and Power Inverter Systems are MEPS (Minimum Efficiency Performance Standard) Compliant, so you can be sure that they will give you the performance and efficiency that they were designed to deliver.

NOTE FOR SOUTH AUSTRALIAN CUSTOMERS:
Certain models featured in this brochure may not be available for sale in South Australia.
For confirmation of model availability or alternatives, contact your Mitsubishi Electric Specialist Dealer.

Products in this brochure contain R410A refrigerant. Please refer to installation instructions before installation or servicing of this product.
Only licensed persons and companies qualified and experienced in the installation, service and repair of products containing refrigerants should be permitted to do so. The buyer must ensure that the person and/or company who is to install, service or repair the air conditioner has the necessary licences, qualifications and experience to perform the work. Suitable access for warranty and service is required. Refer to conditions of warranty on the Mitsubishi Electric website.
For future improvement, specifications, designs of product and availability are subject to change without notice. Please check with your dealer.

Certificate Number 49385

Certificate Number EC97J1132

Mitsubishi Electric Shizuoka Works acquired ISO9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality warranties for the production of air conditioning equipment. The plant also acquired environmental management system standard ISO 14001 certification.

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