Mr.SLIM

MITSUBISHI ELECTRIC

Commercial Air Conditioning Systems

Functionality, Versatility and Comfort for Every Environment

R32

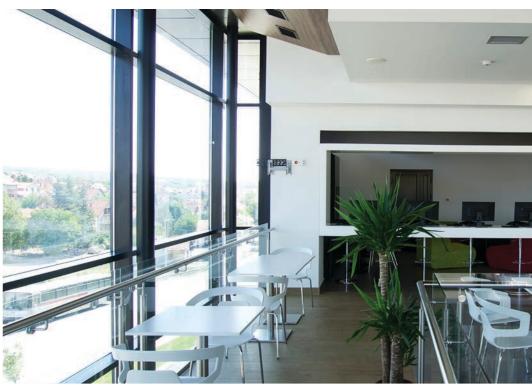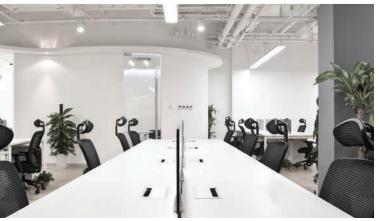The Next Generation of R32 Solutions is Here

The next generation of R32 Mr Slim Range is here!

Our extended Mr Slim Range now offers a wide selection of market leading R32 solutions in addition to a base range of R410A models. The new R32 range additions feature the latest in super-efficient and more environmentally friendly R32 refrigerant, enabling the integration of more cost savings into any HVAC design. Featuring a GWP of just 675, R32 refrigerant is highly energy efficient and with a volumetric capacity that is around 20% higher compared to R410A, system refrigerant volumes are significantly lower.

Furthermore the new R32 models blend a host of outstanding features with a premium quality, sophisticated design. Offering high efficiencies, advanced control options and extended pipe runs, the range is extremely flexible and cost effective.

Benefits of R32 compared to R410A

4 66% lower GWP of 675

4 More environmentally friendly

4 20% less refrigerant volume requirement

4 Overall higher system efficiency

MITSUBISHI ELECTRIC

Comfort takes on new meaning with Mitsubishi Electric Power Inverter Systems. Adopted the world over for their space-saving design, quiet operation, energy efficiency and durability, there is a wide variety of indoor unit designs and outdoor unit capacities ensuring the flexibility to meet the most challenging of heating and cooling needs, whether domestic or commercial.

Mr.SLIM Product Line-up

Refrigerant		R410A				
		2.5kW	3.5kW	5.0kW	6.0kW	7.1kW
Ducted	PEAD Series					PEAD-M71JAA
	PEA Series					
Ceiling Concealed	SEZ Series		SEZ-KD35VAQ	SEZ-KD50VAQ	SEZ-KD60VAQ	SEZ-KD71VAQ
High Wall	PKA Series					
Ceiling Cassette	SLZ Series	SLZ-KF25VA	SLZ-KF35VA	SLZ-KF50VA	SLZ-KF60VA	
	PLA Series					PLA-M71EA
Under-Ceiling	PCA Series			PCA-M50KAQ	PCA-M60KAQ	PCA-M71KA
Outdoor Unit		SUZ-KA25VAD2	SUZ-KA35VAD2	SUZ-KA50VAD2	SUZ-KA60VAD2	SUZ-KA71VAD2

R32				R410A		
7.1kW	10.0kW	12.5kW	14.0kW	16.0kW	18.9kW	22.0kW
PEAD-M71JAA	PEAD-M100JAA	PEAD-M125JAA	PEAD-M140JAA			
	PEA-M100GAA	PEA-M125GAA	PEA-M140GAA	PEA-RP170WJA	PEA-RP200WJA	PEA-RP250WHA
PKA-M71KAL	PKA-M100KAL					
PLA-M71EA	PLA-M100EA	PLA-M125EA	PLA-M140EA			
PCA-M71KA	PCA-M100KA	PCA-M125KA	PCA-M140KA			
PUZ-ZM71VHA	PUZ-ZM100VKA	PUZ-ZM125VKA	PUZ-ZM140VKA	PUZ-RP170VKA	PUZ-RP200YKA	PUHZ-RP250YKM

PEAD Series

R410A R32 OPTIONAL Wi-Fi CONTROL

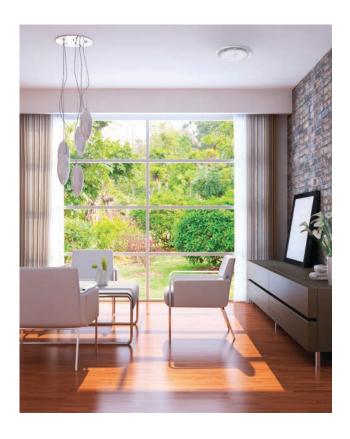## Ducted Systems

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.

Compact Indoor Units

The height of the PEAD (7.1kW~14.0kW) models 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.

Zone Controller (Optional)

The optional Zone Controller brings intuitive yet simple control to a whole new level, with the ability to control up to 8 zones, automatic unloading/ramping and energy saving sensor functions.

Specifications: PEAD Ducted Series

Refrigerant		R410A		R32						
Indoor Unit		PEAD-M71JAA		PEAD-M71JAA		PEAD-M100JAA		PEAD-M125JAA		PEAD-M140JAA
Outdoor Unit		SUZ-KA71VAD2		PUZ-ZM71VHA		PUZ-ZM100VKA		PUZ-ZM125VKA		PUZ-ZM140VKA
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)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	14.0 (6.2-15.3)	16.0 (5.7-18.0)
Power Input	(kW)	2.10	2.04	1.85	1.93	2.67	2.80	3.66	3.52	4.37	4.18
Rated EER/COP		3.38	3.92	3.83	4.14	3.74	4.00	3.41	3.97	3.20	3.82
Rated AEER/ACOP		3.34	3.87	3.63	3.93	3.60	3.86	3.32	3.86	3.13	3.73
Power Supply		Single-Phase, 50Hz, 230V									
Airflow (Lo-Hi)	m³/min	17.5-21-25		17.5-21-25		24-29-34		29.5-35.5-42		32-39-46	
	L/S	292-350-417		292-350-417		400-483-567		492-592-700		533-650-767	
Sound Pressure Level	(dB)	30-34-39		30-34-39		33-38-42		36-40-44		40-44-49	
External Static Pressure Pa		35/50/70/100/125									
Dimensions	Height (mm)	250				250				250	
	Width (mm)	1,100				1,400				1,600	
	Depth (mm)	732				732				732	
Weight	(kg)	30				39		40		44	

Refer to page 18 for outdoor specifications.

PEA Series

R410A R32 **OPTIONAL** Wi-Fi CONTROL

Ducted Systems

The PEA Series' high static airflow allows air to be directed to different areas of your home or office with ease, ideal for heating or cooling a number of rooms at once. With an aesthetically pleasing ceiling installation and vast line-up of performance functions, the PEA Series provides the ultimate in comfort.
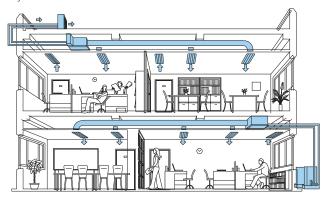
PEA-M100~140GAA

PEA-RP170-200WJA
PEA-RP250WHA

Flexible Duct Design Enables Use of High-Pressure Static Fan

With a maximum 150Pa external static high-pressure setting, PEA Series models offer complete flexibility in duct design. The increased variation in airflow options ensures operation that best matches virtually all room layouts.
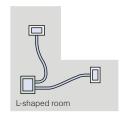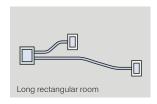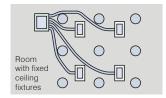
New PEA-RP170/200/250

For greater room capacities, these units provide easier handling with two-piece construction and increased variation in airflow; ensuring operation that suits most room layouts.

Versatile and Easy Installation Options

PEA Series models offer both versatility and ease of installation/application; for example, it is possible to adjust the distance between the air-intake and air-outlet vents to create the optimal airflow configuration.

L-shaped room

Long rectangular room

Room with fixed ceiling fixtures

Zone Controller (Optional)

The optional Zone Controller brings intuitive yet simple control to a whole new level, with the ability to control up to 8 zones, automatic unloading/ramping and energy saving sensor functions.

Find out more about this controller on page 16.

Specifications: PEA Ducted Series

Refrigerant			R32					R410A				
Indoor Unit			PEA-M100GAA		PEA-M125GAA		PEA-M140GAA		PEA-RP170WJA		PEA-RP200WJA		PEA-RP250WHA
Outdoor Unit			PUZ-ZM100VKA		PUZ-ZM125VKA		PUZ-ZM140VKA		PUZ-RP170VKA		PUZ-RP200YKA		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)	14.0 (6.2-15.3)	16.0 (5.7-18.0)	16.0 (9.0-19.5)	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)
Power Input		(kW)	2.39	2.51	3.52	3.27	4.10	3.90	4.94	6.00	5.92	6.89	6.11	6.89
Rated EER/COP *1			4.18	4.46	3.55	4.28	3.41	4.10	3.23	3.33	3.19	3.25	3.60	3.62
Rated AEER/ACOP			4.01	4.28	3.45	4.15	3.33	3.99	3.16	3.26	3.11	3.18	3.27	3.37
Power Supply			Single-Phase, 50Hz, 230V						Three-phase, 50Hz, 400V				
Airflow (Lo-Hi)		m³/min	34-42		48-60				50-61-72				58-71-84	
		L/S	567-700		800-1000				833-1017-1200				967-1183-1400	
Sound Pressure Level *2		(dB)	39-42		42-45				38-41-44		40-43-46		40-43-46	
External Static Pressure Pa			50/100/150						60/75/100/150					
Dimensions	Height	(mm)	400						470					
	Width	(mm)	1,400						1370					
	Depth	(mm)	634						1120					
Weight		(kg)	63						108					

*1 Rated EER/COP for PEA-RP170WJA are measured at ESP 75 Pa   *2 Sound pressure level are measured in anechoic chamber at ESP 150 Pa

Refer to page 18 for outdoor specifications.

SEZ Series

R410A

OPTIONAL Wi-Fi CONTROL
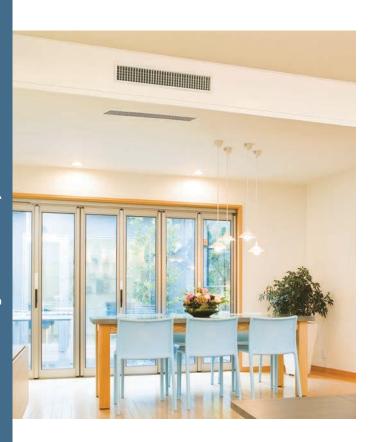
Ceiling Concealed Systems

The SEZ Series is conveniently hidden in the ceiling cavity with only the grilles visible. Compact, whisper quiet and highly efficient, these concealed units fit easily and discreetly into rooms with lowered or bulkhead ceilings.

Compact Design

Ceiling concealed and a slim 200mm in height, the SEZ Series is ideal for tight installation spaces.

Quiet Comfort

The SEZ Series offers whisper quiet operation, starting at a hushed 23dBA.

Air Cleaning Filter

This built-in filter removes dust and other irritating particles, keeping the air clean at all times. Maintenance is as simple as vacuuming. The long-life filter in the SEZ Series indoor units can be used for approximately 2,500 hours before requiring replacement.

Easy Installation

The SEZ Series' lightweight design and low unit height makes for an easier and more convenient installation.

Specifications: SEZ Ceiling-Concealed Series

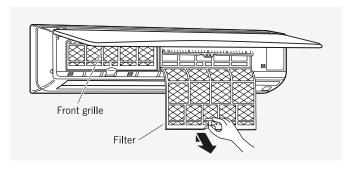| Refrigerant			R410A						
Indoor Unit			SEZ-KD35VAQ		SEZ-KD50VAQ		SEZ-KD60VAQ		SEZ-KD71VAQ
Outdoor Unit			SUZ-KA35VAD2		SUZ-KA50VAD2		SUZ-KA60VAD2		SUZ-KA71VAD2
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)		(kW)	3.5 (1.4-3.9)	4.0 (1.7-5.0)	5.0 (2.3-5.6)	6.0 (1.7-7.2)	6.0 (2.3-6.3)	7.0 (2.5-8.0)	7.1 (2.8-8.3)	8.0 (2.6-10.4)
Power Input		(kW)	1.04	1.14	1.40	1.78	1.77	2.07	2.29	2.30
Rated EER/COP			3.37	3.51	3.57	3.37	3.39	3.38	3.10	3.48
Rated AEER/ACOP			3.30	3.45	3.50	3.32	3.34	3.34	3.06	3.44
Power Supply			V: Single-phase, 50Hz, 230V							
Airflow (Lo-Mid-Hi)		m³/min	7-9-11		10-12.5-15		12-15-18		12-16-20	
		L/S	117-150-183		167-208-250		200-250-300		200-267-333	
External Static Pressure Pa			5/15/35/50		5/15/35/50		5/15/35/50		5/15/35/50	
Sound Pressure Level		(dB)	23-28-33		30-34-37		30-34-38		30-35-40	
Dimensions	Height	(mm)	200				200			
	Width	(mm)	990				1,190			
	Depth	(mm)	700				700			
Weight		(kg)	21		23		27			

Refer to page 18 for outdoor specifications.

PKA Series

High Wall Systems

The large capacity PKA Series is both elegant and compact. With greater placement options and high airflow, PKA Series units are ideal for light commercial use (i.e. offices, stores, and server rooms).

Quick Clean Grille

The intake grille can easily slide out completely, allowing simple cleaning without any special tools; making it easy to clean in minutes by washing in water.

Front grille

Filter

Wired Remote Controller Available (Optional)

A separately sold wired remote controller and terminal block are available to suit various installation sites. When connecting a wired remote controller the MAC-334IF-E interface is not required.

Auto-Vane Shutter

The vane closes automatically when the unit is not running, creating a sleek flat finish that is aesthetically pleasing.

Suitable for Server Room Applications

The PKA Series provides an economical split system solution for high sensible applications due to their larger coil size. As a result they are ideal for applications such as server rooms and laboratories where there is a need for sensible cooling.

Drain Pump Option

Installation of a 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: PKA High Wall Series

Refrigerant		R32			
Indoor Unit		PKA-M71KAL		PKA-M100KAL	
Outdoor Unit		PUZ-ZM71VHA		PUZ-ZM100VKA	
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)
Power Input	(kW)	1.86	2.12	2.81	3.10
Rated EER/COP		3.81	3.77	3.55	3.61
Rated AEER/ACOP		3.61	3.60	3.43	3.49
Power Supply		V: Single-phase, 50Hz, 230V			
Airflow (Lo-Mid-Hi)	m³/min	18-20-22		20-23-26	
	L/S	300-333-367		333-383-433	
Sound Pressure Level	(dB)	39-42-45		41-45-49	
Dimensions	Height (mm)	365			
	Width (mm)	1,170			
	Depth (mm)	295			
Weight	(kg)	21			

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SLZ Series

Compact Ceiling Cassette Systems

The SLZ Series provides a smart solution to comfortable and efficient heating and cooling. Combining a stylish square design with the latest energy-saving technologies, it is designed to fit flush into ceilings – making it ideal in both homes and commercial spaces.

(NEW!) 3D i-See Sensor

The 3D i-See Sensor works to detect the floor temperature and how many people are present in the room; automatically switching to the optimal operating mode based on this information. With a total of 8 sensors, which rotate a full 360° in three minute intervals, the 3D i-See Sensor is able to detect people's positions within the room to provide direct or indirect airflow, as preferred.

Find out more about this feature on page 17.

Stylish, Slimline Design

With an inconspicuous look that blends seamlessly into any room, the SLZ Series' pure white colour and compact, linear design is ideal for discreet heating and cooling. A recipient of the Good Design Award, the new SLZ Series fits into narrow ceiling spaces with a height of only 245mm.

Low Noise Levels

The patented 3D turbo fan with two-stage blade structure ensures low noise operation, for a quieter comfortable environment. Starting from a hushed 25dBA*, the sound level has been reduced by 2–4 dB from the previous model.

Easy Installation

The SLZ Series comes equipped with a temporary suspension hook-on grille; improving efficiency during installation. Installation is also possible without removing screws for the corner panel and control box, enabling rapid and safe installation by a single person.

Fresh Air Intake

A duct opening is provided in the main body making it possible to bring fresh air in directly, where it can then be heated to provide clean, refreshing comfort.
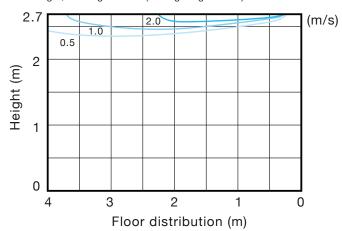
*Indoor sound level.

R410A

OPTIONAL Wi-Fi CONTROL

Horizontal Airflow

The SLZ Series eliminates uncomfortable draughts and provides improved airflow control with six different discharge angles.

The air discharge channels provide a lateral airflow advantage; ensuring users are not susceptible to airflow and air is discharged evenly across the entire space.

Flow angle, cooling at 20°C (ceiling height 2.7m)

Specifications: SLZ Compact Ceiling Cassette Series

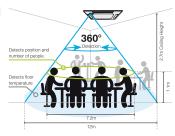| Refrigerant			R410A						
Indoor Unit			SLZ-KF25VA		SLZ-KF35VA		SLZ-KF50VA		SLZ-KF60VA
Outdoor Unit			SUZ-KA25VAD2		SUZ-KA35VAD2		SUZ-KA50VAD2		SUZ-KA60VAD2
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)		(kW)	2.5 (1.5-3.2)	3.0 (1.3-4.5)	3.5 (1.4-3.9)	4.0 (1.7-5.0)	5.0 (2.3-5.2)	5.0 (1.7-6.5)	5.6 (2.3-6.5)	6.0 (2.5-7.4)
Power Input		(kW)	0.65	0.78	0.95	1.08	1.53	1.58	1.75	1.88
Rated EER/COP			3.85	3.85	3.68	3.70	3.27	3.16	3.20	3.19
Rated AEER/ACOP			3.73	3.75	3.61	3.63	3.21	3.11	3.16	3.15
Power Supply			Single-phase, 50Hz, 230V							
Airflow		m³/min	6.5-7.5-8.5		6.5-9-11.5		7-9-11.5		7.5-11.5-13	
		L/S	108-125-142		108-150-192		117-150-192		125-192-217	
Sound Pressure Level		(dB)	25-28-31		25-33-39		27-34-39		32-40-43	
Dimensions	Height	(mm)	Unit: 245, Panel: 10							
	Width	(mm)	Unit: 570, Panel: 625							
	Depth	(mm)	Unit: 570, Panel: 625							
Weight (indoor)		(kg)	Unit: 15, Panel: 3							

Refer to page 18 for outdoor specifications.

PLA Series

Large Capacity Ceiling Cassette Systems

These large capacity cassettes, with advanced airflow features and independent vane direction control, provide indoor comfort in a sleek unobtrusive design. Perfect for larger residential rooms or office spaces, the PLA Series provides consistent temperatures throughout the space you need to heat or cool.

NEW! 3D i-See Sensor

The PLA comes standard with 3D i-See Sensor Technology.

The 3D i-See Sensor works to detect the floor temperature and how many people are present in the room automatically switching to the optimal operating mode. With a total of 8 sensors which rotate a full 360° in three minute intervals, it is able to detect people's position in the room to provide direct or indirect airflow as preferred.

360° Detection
Detects position and number of people.
Detects floor temperature
2.7m Ceiling Height
1.1m
7.2m
12m

Horizontal Airflow

The Horizontal Airflow function prevents both cold draughts and/or heating airflow from striking occupants directly, thereby keeping people from becoming over-chilled/over-heated.
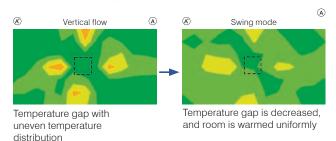

Sleek, Compact Design

The PLA features a sleek, square design with bevelled edges that provide a compact and modern finish.

Wave Airflow Mode for Heating

Advanced control of vanes, called Wave Airflow, provides even greater heat distribution by periodically moving vanes up and down to provide a consistent temperature throughout the room.

Vertical flow

Swing mode

Temperature gap with uneven temperature distribution

Temperature gap is decreased, and room is warmed uniformly

Specifications: PLA Ceiling Cassette Series

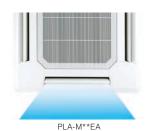| Refrigerant		R410A		R32						
Indoor Unit		PLA-M71EA		PLA-M71EA		PLA-M100EA		PLA-M125EA		PLA-M140EA	
Outdoor Unit		SUZ-KA71VAD2		PUZ-ZM71VHA		PUZ-ZM100VKA		PUZ-ZM125VKA		PUZ-ZM140VKA	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	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)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	13.5 (6.2-15.3)	16.0 (5.7-18.0)
Power Input	(kW)	2.07	2.19	1.78	2.03	2.43	2.94	3.55	3.58	3.93	4.48
Rated EER/COP		3.43	3.65	3.98	3.94	4.11	3.80	3.52	3.91	3.43	3.57
Rated AEER/ACOP		3.39	3.61	3.77	3.75	3.95	3.68	3.42	3.80	3.34	3.49
Power Supply		Single-phase, 50Hz, 230V									
Airflow	m³/min	16-17-19-21		16-17-19-21		19-23-26-29		21-25-28-31		24-26-29-32	
	L/S	267-283-317-350		267-283-317-350		317-383-433-483		350-417-467-517		400-433-483-533	
Sound Pressure Level	(dB)	28-30-32-34		28-30-32-34		31-34-37-40		33-37-41-44		36-39-42-44	
Dimensions	Height (mm)	Unit: 258, Panel: 40				Unit: 298, Panel: 40					
	Width (mm)	Unit: 840, Panel: 950				Unit: 840, Panel: 950					
	Depth (mm)	Unit: 840, Panel: 950				Unit: 840, Panel: 950					
Weight (indoor)	(kg)	Unit: 21, Panel: 5				Unit: 24, Panel: 5		Unit: 27, Panel: 5			

Refer to page 18 for outdoor specifications.

Wide Airflow

PLA Series Cassettes utilise wide-angle outlets to distribute airflow to all corners of the room, ensuring the room is cooled/heated in an even manner. Both horizontal airflow and fan speed have been reduced by 20% compared to conventional models, contributing to increased comfort for occupants.
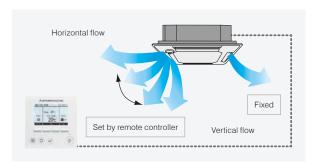
Conventional model   PLA-M**EA

Auto Fan Speed Mode

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

Independent Vane Direction Setting
(P Series Outdoor Only)

With the ability to independently control each vane's airflow pattern, PLA Series Cassettes are perfect for both residential and office/commercial environments.

Horizontal flow

Fixed

Set by remote controller   Vertical flow

Deluxe Wireless Controller

With a backlit screen for easy viewing, and advanced feature controls, the Deluxe Wireless Controller offers the ultimate in customised comfort.

Automatic Grille Lowering Function (Optional)

An Automatic Grille Lowering Function capable of stopping at eight different heights is available to simplify filter maintenance.

- The packaged elevating (up/down) controller in the grille (PLP-6EAJ) is compatible with both PUZ Series or SUZ Series Systems.

- The Wired PAR Remote Controller includes the Automatic Grille Lowering Function. This function is only available when the indoor unit is connected to the PUZ Series Outdoor.

1.2m
1.6m
2.0m
2.4m
2.8m
3.2m
3.6m
4.0m

Maximum 4m Automatic Elevation

Other Features

- Stylish indoor unit vane covers (when unit is turned off)

- Quiet operation with improved airflow path and powerful high-capacity flow fan

- Maximum upward draining of 850mm

- Deluxe Wireless Remote Controller option available

- Duct flange for fresh-air intake

- Branch duct

13

PCA Series

Under-Ceiling Systems

PCA Series high performance units are designed for style and efficiency. A stylish indoor unit design and airflow settings for both high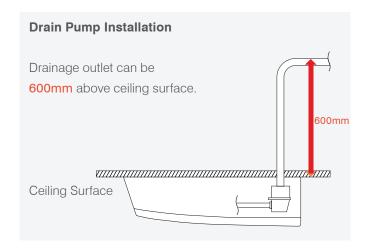 and low-ceiling interiors expand installation possibilities. With 4 fan speed settings and auto air-speed adjustment, PCA Series units provide energy efficient comfort no matter the season.

Stylish Indoor Unit Design

The stylish, sharp design of the PCA indoor unit blends in well with ceilings, for an unobtrusive installation.

Optional Drain Pump

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

Drain Pump Installation

Drainage outlet can be 600mm above ceiling surface.

600mm

Ceiling Surface

Automatic Air-Speed Adjustment

Strong

Gentle

Start of cooling/heating

After room temperature is stabilised

In addition to the conventional 4 fan speed settings, 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 comfortable heating/cooling operation.

Specifications: PCA Under Ceiling Series

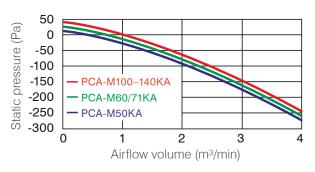| Refrigerant		R410A					
Indoor Unit		PCA-M50KA		PCA-M60KA		PCA-M71KA	
Outdoor Unit		SUZ-KA50VAD2		SUZ-KA60VAD2		SUZ-KA71VAD2	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	5.0 (2.3-5.6)	6.0 (1.7-6.6)	6.0 (2.3-6.3)	7.0 (2.5-8.0)	7.1 (2.8-8.1)	8.0 (2.6-10.2)
Power Input	(kW)	1.40	1.68	1.60	1.84	2.06	2.27
Rated EER/COP		3.57	3.57	3.75	3.80	3.45	3.52
Rated AEER/ACOP		3.50	3.51	3.69	3.76	3.40	3.48
Power Supply		V: Single-phase, 50Hz, 230V					
Airflow (Lo-Mid-Hi)	m³/min	10-11-13-15		15-16-17-19		16-17-18-20	
	L/S	167-183-217-250		250-267-283-317		267-283-300-333	
Sound Pressure Level	(dB)	32-34-37-40		33-35-37-40		35-37-39-41	
Dimensions	Height (mm)	230		230			
	Width (mm)	960		1,280			
	Depth (mm)	680		680			
Weight	(kg)	26		32			

Refer to page 18 for outdoor specifications.

Fresh Outside-Air Intake

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

Outside-air intake characteristics

Static pressure (Pa): 50, 0, -50, -100, -150, -200, -250, -300

— PCA-M100–140KA
— PCA-M60/71KA
— PCA-M50KA

Airflow volume (m³/min): 0, 1, 2, 3, 4

High/Low-Ceiling Modes

All PCA Series 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
PCA-M50	3.5m	2.7m	2.5m
PCA-M60	3.5m	2.7m	2.5m
PCA-M71	3.5m	2.7m	2.5m
PCA-M100	4.2m	3.0m	2.6m
PCA-M125	4.2m	3.0m	2.6m
PCA-M140	4.2m	3.0m	2.6m

Specifications: PCA Under-Ceiling Series

Refrigerant		R32						
Indoor Unit		PCA-M71KA		PCA-M100KA		PCA-M125KA		PCA-M140KA
Outdoor Unit		PUZ-ZM71VHA		PUZ-ZM100VKA		PUZ-ZM125VKA		PUZ-ZM140VKA
Function		Cooling	Heating	Cooling	Heating	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)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	13.5 (6.2-15.3)	16.0 (5.7-18.0)
Power Input	(kW)	1.82	2.15	2.55	3.28	3.77	4.22	4.15	4.72
Rated EER/COP		3.90	3.72	3.92	3.41	3.31	3.31	3.25	3.38
Rated AEER/ACOP		3.69	3.55	3.77	3.31	3.22	3.23	3.17	3.31
Power Supply		V: Single-phase, 50Hz, 230V							
Airflow (Lo-Mid-Hi)	m³/min	16-17-18-20		22-24-26-28		23-25-27-29		24-26-29-32	
	L/S	267-283-300-333		367-400-433-467		383-417-450-483		400-433-483-533	
Sound Pressure Level	(dB)	35-37-39-41		37-39-41-43		39-41-43-45		41-43-45-48	
Dimensions	Height (mm)	230		230					
	Width (mm)	1,280		1,600					
	Depth (mm)	680		680					
Weight	(kg)	32		37		38		40	

Refer to page 18 for outdoor specifications.

Controllers

Wall Mounted 7-Day Controller

The PAR Controller allows you to program up to 8 stop/start patterns per day for up to 7 days at a time. With an easy to read full dot LCD backlit screen, simple menu format and a variety of operation control functions, temperature monitoring and management is available at the touch of a button.

PAR-*MAA

Optional Wall Mounted Simple Controller

The PAC-YT52CRA Simple Controller provides simplified usage, with controls limited to On/Off, Mode, Room Temperature, Fan Speed and additional Vane Control for cassettes and high walls. The backlit LCD screen provides easy operation in dark conditions, and the slim flat-back shape makes for a simple installation.

PAC-YT52CRA

Optional Touch Panel Controller

The PAR-CT01 features a 3.5" HVGA Full Colour LCD touch panel screen, allowing 180 different colour patterns to be selected for control parameters or background. A simple operation panel is available to display only ON/OFF, set temperature and fan speed – ideal for hotels. Your company logo or image can be displayed on the screen and there is the ability to control two spaces and communicate with a smart phone or tablet device via Bluetooth.

PAR-CT01

Optional Wi-Fi Zone Control

With the addition of award-winning Mitsubishi Electric Wi-Fi Control, the Zone Controller's capabilities are expanded even further. Advanced temperature monitoring and management, customisable operation and expanded functionality are available in the palm of your hand with the Wi-Fi Control App.

Now you can control and monitor ducted heat pump zones in real time from absolutely anywhere via your smartphone, tablet or online account; for the ultimate in total comfort.

OPTIONAL Wi-Fi CONTROL

Optional Wall Mounted Zone Controller

The PAC-ZC40~80 Zone Controller brings expanded functionality and interaction to realise even greater energy savings. With the ability to control up to 8 zones*, equipped with automatic unloading/ramping and 3 built-in sensor functions (temperature, occupancy, brightness), the Zone Controller brings intuitive, yet simple control to a whole new level.

*8 zones available with PAC-ZC80(H/L)-E.

PAC-ZC40(H/L)-E

Temperature Sensor

Sensing the return air of the indoor ducted unit is not always ideal. With an inbuilt thermostat (PAR-ZC01ME-E Wall Controller) the Zone Controller allows the actual usable space temperature to be measured, offering a more realistic and timely temperature measurement where it is needed most.

Occupancy Sensor

Incorporating a built in Occupancy Sensor, the Zone Controller (via the PAR-ZC01ME-E Wall Controller) constantly monitors the usable area to detect vacancy. Once detected, the Zone Controller implements one of four user-defined energy-saving control options to reduce energy consumption; turn the unit on/off, lower the fan speed, temperature offset, or turn user designated zones on/off.

Brightness Sensor

Working in conjunction with the Occupancy Sensor, the Brightness Sensor can be set to maximise energy savings when it detects user defined "Light" or "Dark" conditions (lux values).

Backlit LCD Touch Screen

Featuring a backlit LCD screen for operation in dark conditions, and a user-defined LED indicator that lights up to indicate the current operation mode i.e. red for heating, blue for cooling, green for night setback, operation management is clear and simple.

Advanced Feature

i-see Sensor

3D i-See Sensor – PLA and SLZ Cassette Series

360° Temperature Monitoring

The 3D i-See Sensor is an infrared-based sensor that monitors floor-level temperatures throughout the room.

The 3D i-See Sensor works to ensure even temperature distribution and maximise room comfort through 360° sensing that covers the whole floor space; giving a more accurate and even temperature reading and improving energy efficiency.

3D i-See Sensor Operation

The 3D i-See Sensor rotates 90° every two minutes*, taking five second measurements at each position to accurately determine floor-level temperatures on all sides of the room. The 3D i-See Sensor calculates the temperature by measuring the infrared rays emanating from the walls and floors.

Detects Number of People

The 3D i-See Sensor detects the number of people in the room and adjusts the power accordingly. This makes automatic power-saving operation possible in places where the number of people changes frequently. Additionally, when the area is continuously unoccupied, the system switches to a more enhanced power-saving mode. Depending on the setting, it can also stop the operation.

Detects People's Position

Once a person is detected, the angle of the vane is automatically adjusted. Each vane can be independently set by the user to "Direct Airflow" or "Indirect Airflow".

Highly Accurate Occupancy Detection

A total of 8 sensors rotate a full 360°, in three minute intervals. In addition to detecting human body temperature, the 3D i-See Sensor detects the number of people and their positions.

Even Airflow – Airflow Only Where You Need It

With Even Airflow Mode, the 3D i-See Sensor memorises people's movements and furniture positions, efficiently distributing airflow only to where it is needed.

No Occupancy Modes – for Energy Savings

The 3D i-See Sensor detects whether or not there are people in the room, and automatically switches to one of the No Occupancy Modes, as set by the user.

In No Occupancy Energy Saving Mode, when no one is in the room, the unit automatically reduces power consumption by approximately 10% after ten minutes, and 20% after sixty minutes. In No Occupancy Auto-Off Mode, when no one is in the room, the unit turns off automatically.

5 sec measurement — 90° rotation — 5 sec measurement — 90° rotation — 5 sec measurement — 90° rotation — 5 sec measurement

* The sensor rotates 360° once every two minutes when there is significant temperature disparity and once every five minutes when a stable, even temperature has been reached.
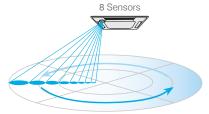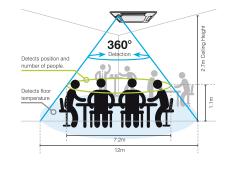
Detects number of people

Detects people's position

8 Sensors

360° Detection

Detects position and number of people.

Detects floor temperature

2.7m Ceiling Height

1.1m

7.2m

12m

R410A Outdoor Unit Specifications

Outdoor Unit		SUZ-KA25VAD2	SUZ-KA35VAD2	SUZ-KA50VAD2	SUZ-KA60VAD2	SUZ-KA71VAD2
Refrigerant		R410A				
External Finish		Munsell 3.0Y 7.8/1.1				
Power Supply		Single-phase, 50Hz, 230V				
Compressor Output	(kW)	0.65	0.65	0.9	0.9	1.2
Airflow (Cooling/Heating)	m³/min(L/S)	30.1 (501)/35.1 (585)	35.3 (588)/35.1 (585)	47.8 (796)/46.3(771)	58.2 (970)/49.2 (820)	57.1 (951)/48.2 (803)
Sound Pressure Level (Cooling/Heating)	(dB) *²	46/46	49/50	52/52	55/55	55/55
Sound Power Level	(dB)	58	62	65	65	69
Dimensions (Height x Width x Depth)	(mm)	550x800x285	550x800x285	880x840x330	880x840x330	880x840x330
Weight	(kg)	31	35	51	51	54
Piping Length (Chargeless/ Max.)	(m)	7/20	7/20	7/30	7/30	7/30
Breaker Size	(A)	10	10	20	20	20

Outdoor Unit		PUZ-RP170VKA2	PUZ-RP200YKA	PUHZ-RP250YKA
Refrigerant		R410A		
External Finish		Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1	Munsell 5.0Y 8.0/1.0
Power Supply		Single-phase, 50Hz, 230V	Three-phase, 50Hz, 400V	
Compressor Output	(kW)	3.0	3.7	6.9
Airflow (Cooling/Heating)	m³/min(L/S)	140 (2,330)	140 (2,330)	175 (2.917)
Sound Pressure Level (Cooling/Heating)	(dB)*²	58/59	58/59	58/58
Sound Power Level	(dB)	76	76	78
Dimensions (Height x Width x Depth)	(mm)	1,338x1,050x330	1,338x1,050x330	1,650x920x740
Weight	(kg)	124	135	199
Piping Length (Chargeless/ Max.)	(m)	30/75	30/75	0/75
Protection Device		Discharge thermo, HP switch		
Breaker Size	(A)	40	32	32

Amount of Required Refrigerant (R410A: kg)

Piping Length	Factory Charged (kg)	Additional Charged (kg)				
	7m	10m	15m	20m	25m	30m
SUZ-KA25	0.8	0.09	0.24	0.39	-	-
SUZ-KA35	1.15	0.09	0.24	0.39	-	-
SUZ-KA50	1.6	0.06	0.16	0.26	0.36	0.46
SUZ-KA60	1.6	0.06	0.16	0.26	0.36	0.46
SUZ-KA71	1.8	0.165	0.44	0.715	0.99	1.265

Piping Length	Factory Charged (kg)	Additional Charged (kg)				
	30m	40m	50m	60m	70m	75m
PUZ-RP170	7.7	0.9	1.8	2.7	3.6	4.5
PUZ-RP200	7.7	0.9	1.8	2.7	3.6	4.5

*Above specifications are for outdoor units only
*²Sound pressure measurements were conducted in an anechoic chamber
The actual noise level depends on the distance from the unit and the acoustic environment

R32 Outdoor Unit Specifications

Outdoor Unit		PUZ-ZM71VHA	PUZ-ZM100VKA	PUZ-ZM125VKA	PUZ-ZM140VKA
Refrigerant		R32			
External Finish		Munsell 3.0Y 7.8/1.1			
Power Supply		Single-phase, 50Hz, 230V			
Compressor Output	(kW)	1.3	2.5	2.5	2.5
Airflow (Cooling/Heating)	m³/min(L/S)	55 (915)	110 (1,831)	120 (1,996)	120 (1,996)
Sound Pressure Level (Cooling/ Heating)	(dB)*²	47/51	49/51	50/52	50/52
Sound Power Level	(dB)	67	69	70	70
Dimensions (Height x Width x Depth)	(mm)	943x950x330	1,338x1,050x330	1,338x1,050x330	1,338x1,050x330
Weight	(kg)	70	113	113	113
Piping Length (Chargeless/ Max.)	(m)	30/50	30/75	30/75	30/75
Protection Device		Discharge thermo, HP switch			
Breaker Size	(A)	25	32	32	40

Amount of Required Refrigerant (R32: kg)

Piping Length	Factory Charged (kg)	Additional Charged (kg)			
	30m	40m	50m	60m	75m
PUZ-ZM71	2.8	0.4	0.8	-	-
PUZ-ZM100/125/140	4.0	0.4	0.8	1.2	1.8

Refrigerant Piping

Capacity	Between Indoor and Outdoor Units		Pipe Size OD (mm – in.)	Thickness (mm)
	Max. Height Difference (m)	Max. Piping Length (m)		
SUZ-KA25	12	20	Liquid: Ø 6.35 – 1/4"	t 0.8
			Gas: Ø 9.52 – 3/8"	t 0.8
SUZ-KA35	12	20	Liquid: Ø 6.35 – 1/4"	t 0.8
			Gas: Ø 9.52 – 3/8"	t 0.8
SUZ-KA50	30	30	Liquid: Ø 6.35 – 1/4"	t 0.8
			Gas: Ø 12.7 – 1/2"	t 0.8
SUZ-KA60	30	30	Liquid: Ø 6.35 – 1/4"	t 0.8
			Gas: Ø 15.88 – 5/8"	t 1.0
SUZ-KA71	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-ZM100/125/140	30	75	Liquid: Ø 9.52 – 3/8"	t 0.8
			Gas: Ø 15.88 – 5/8"	t 1.0
PUZ-ZM170	30	75	Liquid: Ø 9.52 – 3/8"	t 0.8
			Gas: Ø 25.4 – 1"	t 1.0
PUZ-ZM200	30	75	Liquid: Ø 9.52 – 3/8"	t 0.8
			Gas: Ø 25.4 – 1"	t 1.0
PUHZ-RP250	30	75	Liquid: Ø 9.52 – 3/8"	t 0.8
			Gas: Ø 22.2 – 7/8"	t 1.0

*Above specifications are for outdoor units only
*²Sound pressure measurements were conducted in an anechoic chamber
The actual noise level depends on the distance from the unit and the acoustic environment

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