Changes for the Better



SEMI-COMMERCIAL RANGE OF PACKAGED AIR CONDITIONERS

Mitsubishi Electric in INDIA

Mitsubishi Electric is a well-known brand and Global Leader in Electric and Electronic Equipment for Residential, Commercial and Industrial use. Mitsubishi Electric has presence across India with a large distribution channel which is expanding to more cities.

Mitsubishi Electric India offers complete solution for factory automation and industrial products, residential, commercial and industrial air conditioning, video and imaging products and provision for technical and marketing support for power semiconductors, photovoltaic modules, transportation, power systems and CNC solutions.

Mitsubishi Electric is a world leader in air conditioning systems for residential, commercial and industrial use. Challenged to create air conditioning systems that provide exemplary performance in the wide-ranging climatic conditions found throughout Japan, our engineers develop amazingly sophisticated yet durable units and systems capable of constant use under virtually any natural climatic condition on earth. Each product is an amazing feat in its own, delivering years of quiet operation, energy-efficient performance and minimum impact on the environment.

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MITSUBISHI ELECTRIC

Semi-Commercial Range of Packaged Air Conditioners(PAC)

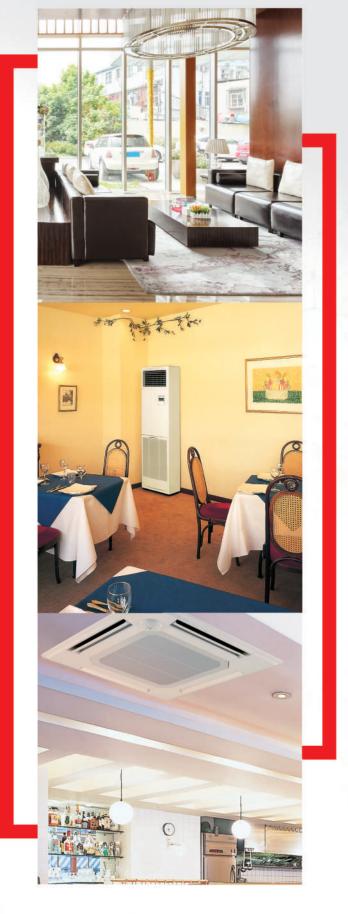
	<u>Page No.</u>
Inverter PAC Series	
PLY-SP Series (Ceiling Cassette AC)	(14-22)
PEY-SP Series (Ceiling Concealed AC)	(23-24)
PSY-SP Series (Floor Standing AC)	(25-26)
Inverter Heat Pump PAC Series	
PLA Series (Ceiling Cassette AC)	(39-44)
SEZ/PEAD Series (Ceiling Concealed AC)	(45-46)
Non-Inverter PAC Series	47-51
PL-P Series (Cassette AC)	(48-50)
PE-P Series (Ceiling Concealed AC)	(51-51)



Inverter Series MISUM R410A



Beat the Heat even at **High Temperatures**



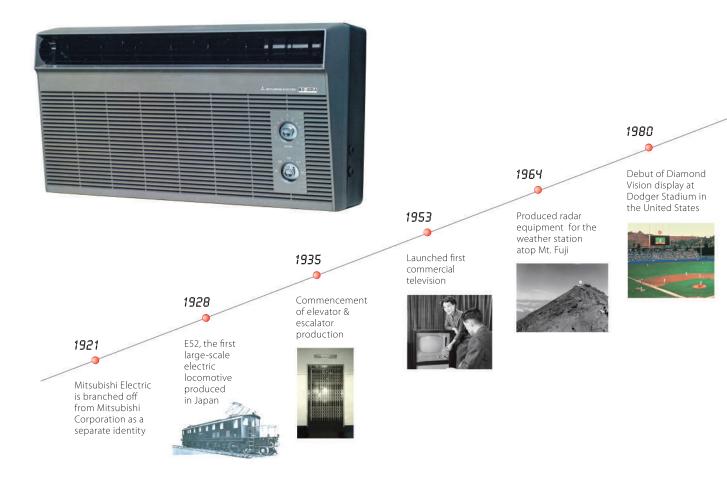






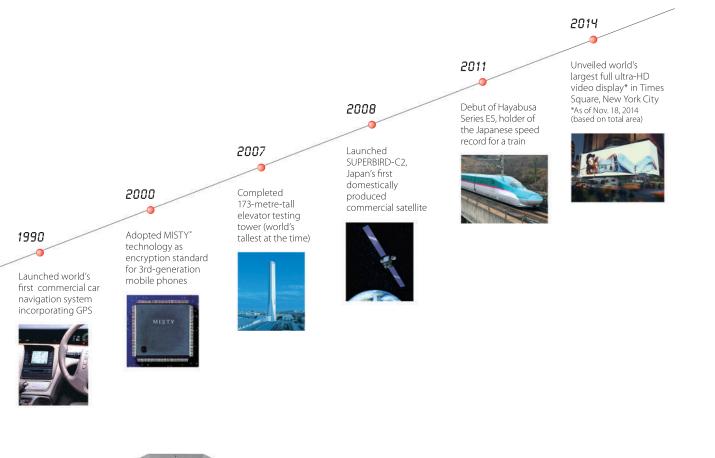
Leading the world in every field with advanced technological prowess and assured quality

Technologies are forever changing society and the way people live. Applying innovative ideas and advanced technological prowess, Mitsubishi Electric delivers various products and services that improve daily life and the social infrastructure. From residential-use products to those for commercial- and industrial-use, semiconductors, social infrastructure systems, and products and services for the development of outer space, we have not only led in Japan, but throughout the world. We maintained our commitment to the pursuit of better technologies and higher quality throughout a history nearly 100 years long. Our detailed craftsmanship in all products has resulted in global recognition as a reliable brand. Not only with advanced air conditioning products and systems, but also superior product development power, Mitsubishi Electric will continue to support lifestyles and society for generations to come.



Air conditioner product history

1954	1967	1968	1978	1984
Room air conditioners production started.	Introduced Japan's first wall-mounted split-type air conditioners.	Introduced Japan's first ceiling-suspended, split-type air conditioners.	Introduced Mr. Slim air conditioners for commercial use.	Introduced inverter air conditioners with wireless remote control and automatic vane.





1993

Accumulated room air conditioners production of 10 million units. 1994

Introduced i-see Sensor (built-in sensor). First in industry to develop a sensor that detects the location of people. Solved the problem of wide spaces with the release of the 3D i-see Sensor.

2008



Mr.SLIM PRODUCT LINE-UP

	18,000 BTU/h	24,000 BTU/h	30,000 BTU/h	36,000 BTU/h
Ceiling- cassette (PLY-SP-EA SERIES)	PLY-SP18EA	PLY-SP24EA	PLY-	PLY-SP36EA
(PLY-SP-BA SERIES)	PLY-SP18BA	PLY-SP24BA	PLY-SP30BA	PLY-SP36BA
Ceiling- concealed (PEY-SP SERIES)	PEY-SP18JA(L)2	PEY-SP24JA(L)2	PEY-SP30JA(L)2	PEY-SP36JA(L)2
Floor- standing (PSY-SP SERIES)			PSY-SP30KA	PSY-SP36KA
Outdoor Unit	SUY-SA18VA2	SUY-SA24VA2	SUY-SA30VA2	PUY-SP36YKA2
	SUY-SA18VA*	SUY-SA24VA*	SUY-SA30VA*	PUY-SP36YKA*

*Applicable for PLY-SP-BA models



	42,000 BTU/h	48,000 BTU/h	Remote Controller	Contents
Ceiling- cassette (PLY-SP-EA SERIES)	PLY-SP42EA	PLY-SP48EA	PAR-SL100A-E For details of panel and controller, please refer to P.17	P. 15-23
(PLY-SP-BA SERIES)	PLY-SP42BA	PLY-SP48BA	PAR-SL97A-E	
Ceiling- concealed (PEY-SP SERIES)	PEY-SP42JA(L)2	PEY-SP48JA(L)2	PEY-SP.JA2wired remote controller PEY-SP.JAL2 wireless remote controller	P. 24-25
Floor- standing (PSY-SP SERIES)	PSY-SP42KA	PSY-SP48KA	Built-in controller	P. 26-27
Outdoor Unit	PUY-SP42YKA2	PUY-SP48YKA2		
	PUY-SP42YKA*	PUY-SP48YKA*		

*Applicable for PLY-SP-BA models

INVERTER TECHNOLOGIES

Mitsubishi Electric inverters ensure superior performance, including the optimum control of operation frequency. As a result, optimum power is applied in all heating/cooling ranges and maximum comfort is achieved while consuming minimal energy. Fast, comfortable operation and amazingly low running cost — That's the Mitsubishi Electric promise.

INVERTERS – HOW THEY WORK

Inverters electronically control the electrical voltage, current and frequency of electrical devices such as the compressor motor in an air conditioner. They receive information from sensors monitoring operating conditions and adjust the rotation speed of the compressor, which directly regulates air conditioner output. Optimum control of operation frequency results in eliminating the consumption of excessive electricity and providing the most comfortable room environment.

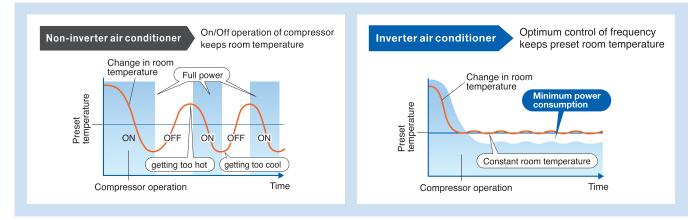
ECONOMIC OPERATION

Impressively low operating cost is a key advantage of inverter-equipped air conditioners. We have combined advanced inverter technologies with cutting- edge electronic and mechanical technologies to achieve a synergistic effect that enables improvements in heating/cooling performance efficiency. As a result, better performance and lower energy consumption are achieved.

TRUE COMFORT

Below is a simple comparison of air conditioner operation control with and without an inverter.

Inverter operation comparison



The compressors of air conditioners without an inverter start and stop repeatedly in order to maintain the preset room temperature. This repetitive on/off operation uses excessive electricity and compromises room comfort. The compressors of air conditioners equipped with an inverter run continuously; the inverter quickly optimizing the operating frequency according to changes in room temperature. This ensures energy-efficient operation and a more comfortable room.

int 1 Quick & Powerful

Increasing the compressor motor speed by controlling the operation frequency ensures powerful output at start-up, and brings the room temperature to the comfort zone faster than units not equipped with an inverter. Hot rooms are cooled, and cold rooms are heated, faster and more efficiently.

Point 2 Room Temperature Maintained

The compressor motor operating frequency and the change in room temperature are monitored to calculate the most efficient waveform to maintain the room temperature in the comfort zone. This eliminates the large temperature swings common with non-inverter systems and guarantees a pleasant, comfortable environment.

R410A refrigerant

As scientific evidence points to man-made chemicals for the damage caused to the ozone layer, we only use chlorine-free refrigerants that are safe and rated zero ozone depletion potential (ODP). Accordingly, our systems require less energy to run and have significantly lower indirect global warming potential. In short, we produce the most efficient equipment possible, while helping to protect the environment.

The Montreal Protocol calls for the complete abolishment of HCFC refrigerant consumption in Article 5 countries (such as R22) by the year 2030.

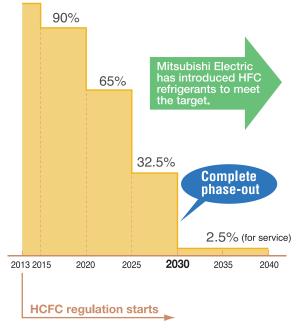
Mitsubishi Electric is committed to shifting overto HFC models from HCFC models.

Montreal Protocol

Montreal Protocol regulates HCFCs

HCFC consumption in Article 5 countries will be regulated from 2013.

100% Based on consumption in 2009 and 2010 of 100%.



MITSUBISHI ELECTRIC Compressor

The compressor is the heart of the air conditioner. Employing MITSUBISHI ELECTRIC's proprietary technology, we are able to achieve both high efficiency and high power.



Poki-Poki Motor

Dramatically enhanced motor efficiency utilising original dense winding technology. 28% more wire on compared to conventional motor



Heat Caulking

Original heat caulking method minimizes cylinder distortion for even greater efficiency.

FUNCTIONS & TECHNOLOGIES

Category	,	Icon			P-Series							
				Indoor unit	PLY-SP18/24/3	30/36/42/48EA	PLY-SP-BA18/24	1/30/36/42/48BA)/36/42/48JA(L)2	PSY-SP30/	36/42/48KA
			Combination	Outdoor	SUY-SA18/	PUY-SP36/	SUY-SA18/	PUY-SP	SUY-SA18/	PUY-SP36/	SUY-	PUY-SP36/
				unit	24/30VA2	42/48YKA2	24/30VA	36/42/48YKA	24/30VA2	42/48YKA2	SA30VA2	42/48YKA2
Technolog	gу	DC Inverter			•	•	•	•	•	•	•	٠
		Joint Lap DC Motor			•		•		•		•	
		Magnetic Flux Vector	or Sine Wave Dri	ive		•		•		•		•
		Heating Caulking (C	Compressor)		٠		•		•		٠	
		DC Fan Motor			•	٠	•	•	•	•	•	•
		Vector-Wave Eco Ir	nverter			•		•		•		٠
		Pulse Amplitude Mo	odulation (PAM)		•	•	•	•	•	•	•	٠
		Grooved Piping			٠	•	•	•	•	•	•	٠
Enerç Savir		3D i-see sensor			Opt	Opt						
	5	Area Temperature I	Monitor				Opt	Opt				
		Demand Function				Opt		Opt		Opt		Opt
Air Q	Quality	High-efficiency Filte	er		Opt	Opt	Opt	Opt				
		Long-life Filter			٠	٠	•	•			٠	٠
		Filter Check Signal			•	•	•	•	•	•	•	•
Air Distri	ibution	Auto Vane			•	٠	٠	•			•	•
		Horizontal Vane			•	•	•	•			•	•
		Vertical Vane									•	•
		High Ceiling Mode			•	•	•	•				
		Low Ceiling Mode			٠	•	•	•				
		Auto Fan Speed Mo	ode		٠	•	•	•			•	٠
		Direct/Indirect Airflo	ow (for Each Van	e)	Opt	Opt						
5	venience	On/Off Operation T	imer		٠	•	•	•	•	•	٠	٠
Functio		Auto Restart			٠	٠	•	•	•	٠	٠	٠
		Low-noise Operatio	on (outdoor unit)			•		•		•		٠
		Rotation, Back-up and	d 2nd Stage Cut-in	Functions		Opt				Opt		
Syste Contr		PAR-32MAA Contro	bl		Opt	Opt			Opt	Opt		
		Centralised On/Off	Control		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		System Group Con	trol		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		M-NET Connection			Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Insta	llation	Cleaning-free Pipe	Reuse		•	•	•*	•	•*	•	•*	•
		Reuse of Existing V	Viring			Opt		Opt		Opt		Opt
		Drain Pump			٠	•	•	•	Opt	Opt		
		Pump Down Switch	1			•		•		•		٠
		Flare Connection			٠	•	•	•	•	•	•	•
Maint	itenance	Self-Diagnotic Fund	tion (Check Cod	e Disp l ay)	٠	٠	•	•	•	•	٠	٠
		Failure Recall Func	tion		٠	٠	•	•	•	•	٠	٠

Opt: Separate parts must be purchased.
 *Not available for different diameter joints.



Joint Lap DC Motor

Mitsubishi Electric has developed a unique motor, called the "Poki-Poki Motor" in Japan, which is manufactured using a joint lapping technique. This innovative motor operates based on a high-density, high-magnetic force, leading to extremely high efficiency and reliability.





Magnetic Flux Vector Sine Wave Drive

This drive device is actually a microprocessor that converts the compressor motor's electrical current waveform from a conventional waveform to a sine wave (180° conductance) to achieve higher efficiency by raising the motor winding utilisation ratio and reducing energy loss.



Heat Caulking Fixing Method Heat Caulking Fixing Method



DC Fan Motor

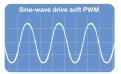
A highly efficient DC motor drives the fan of the outdoor unit. Efficiency is much higher than an equivalent AC motor.

$\mathbf{W}\mathbf{W}$ **Vector-Wave Eco Inverter**

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

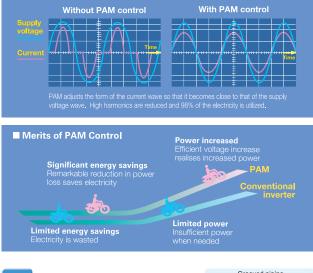
Smooth wave pattern

Inverter size has been reduced using insertmolding, where the circuit pattern is molded into the synthetic resin. To ensure quiet operation, soft PWM control is used to prevent the metallic whine associated with conventional inverters.



PAM PAM (Pulse Amplitude Modulation)

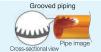
PAM is a technology that controls the current waveform so that it resembles the supply voltage wave, thereby reducing loss and realising more efficient use of electricity. Using PAM control, 98% of the input power supply is used effectively.





Grooved Piping

High-performance grooved piping is used in heat exchangers to increase the heat exchange area.



Pure White

Pure white is adopted for the unit colour; white expressing the essence of cleanliness and easily matching virtually all interior décor.

Horizontal Vane

The air outlet vane swings up and down so that the airflow is spread evenly throughout the room.



*Condition apply

The air outlet fin swings from side to side so that the airflow reaches every part of the room.



Use the remote controller to set the times of turning the air- conditioner On/Off.

Auto Restart

Especially useful at the time of power outages, the unit turns back on automatically when power is restored.

Demand Function (Onsite Adjustment)

The demand function can be activated when the unit is equipped with a commercially available timer or an On/Off switch is added to the CNDM connector (option) on the control board of the outdoor unit. Energy consumption can be reduced up to 100% of the normal consumption according to the signal input from outside.

[Example: PUY Series]

Limit energy consumption by changing the settings of SW7-1, SW2 and SW3 on the control board of the outdoor unit. The following settings are possible.

SW7-1	SW2	SW3	Energy consumption
ON	OFF	OFF	100%
	ON	OFF	75%
	ON	ON	50%
	OFF	ON	0% (Stop)

*PUY outdoor only

Long-life Filter

A special process for the entrapment surface improves the filtering effect, making the maintenance cycle longer than that of units equipped with conventional filters.

Filter Check Signal

Air conditioner operating time is monitored, and the user is notified when filter maintenance is necessary.

🖊 High Ceiling Mode

In the case of rooms with high ceilings, the outlet-air volume can be increased to ensure that air is circulated all the way to the floor.

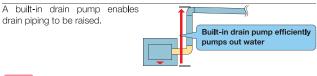


If the room has a low ceiling, the airflow volume can be reduced for less draft.

SAUTO Auto Fan Speed Mode

The airflow speed mode adjusts the fan speed of the indoor unit automatically according to the present room conditions.

Drain Pump



Self-Diagnostic Function (Check Code Display)

Check codes are displayed on the remote controller or the operation indicator to inform the user of malfunctions detected

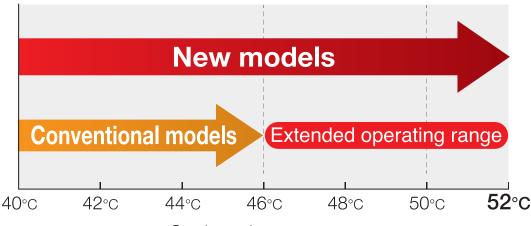
Failure Recall Function

Operation failures are recorded, allowing confirmation when needed.

MAJOR FEATURES

■ Operating at high temperatures (52°C)

Operating range



Outdoor-air temperature



New inverter technology

New inverter technology has made it possible for units to operate at outdoor-air temperatures as high as **52°C.** Tropical Specification series units are perfect for cooling homes and offices in tropical regions.

High dehumidifying capacity

Prevent the decrease of dehumidifying capacity even when the room temperature approaches the preset temperature since outdoor units detect and control evaporating temperature.

New R410A lineup

From low-capacity 18,000Btu to high-capacity 48,000Btu units available, the new models in the R410A Series have highest I SEER in industry compared with conventional non-inverter models. All models contribute to reducing energy consumption over a wide range of operating capacities.

4-way Ceilingcassette

(PLY-SP-EA SERIES)



PLY-SP18/24/30/36/42/48EA (3D i-see Sensor: optional)





A sophisticated design that matches a variety of rooms and a high level of convenience enhancing your quality of life are combined in this compact, multi-functional indoor unit.

Beautiful square design

The beautiful design harmonizes with any interior, making it ideal for facilities such as offices and retail stores.



"Pure White" Colour Matches Interior Décor

The colour "Pure White" has been introduced for the decoration panel and wired remote controller so as to blend in with any interior decor

3D Turbo Fan ~ Quiet operation

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



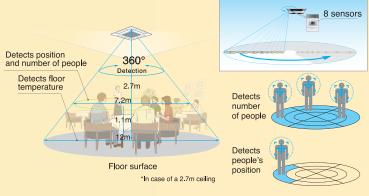
3D i-see Sensor (optional)



The "3D i-see Sensor" built into the optional corner panel eliminates uneven temperature distribution and reduces electricity consumption.

Highly accurate motion detection

A total of eight sensors rotate a full 360° in 3-minute intervals. In addition to detecting body temperature, our original algorithm also detects the number of occupants in the room and their positions.



"3D i-see Sensor" temperature-sensing technology improves energy efficiency and enhances room comfort

The "3D i-see Sensor" is an innovative Mitsubishi Electric technology that uses a radiation-based sensor to monitor temperature throughout an entire room. When connected to the air conditioner control panel, the "3D i-see Sensor" works to maximize room comfort. Sensible temperature control prevents excessive cooling through

pioneering control technology By measuring the inlet temperature and floor

By measuring the inlet temperature and hoor temperature, lemperatures felt by the human body (sensible temperature) are computed. This allows the proper sensible temperature to always be maintained through the suppression of excessive cooling.

Detects number of people

Room occupancy energy-saving mode

The 3D i-see Sensor detects the number of people in the room. It then calculates the occupancy rate based on the maximum number of people in the room up to that point in time in order to save airconditioning power. When the occupancy rate is approximately 30%, air-conditioning power equivalent to 1°C during cooling operation is saved. The temperature is controlled according to the number of people.

No occupancy energy-saving mode

When 3D i-see Sensor detects that no one is in the room, the system is switched to a pre-set power-saving mode. If the room remains unoccupied for more than 60min, air-conditioning power equivalent to 2°C during cooling operation is saved. This contributes to preventing waste in terms of cooling.

No occupancy Auto-OFF mode

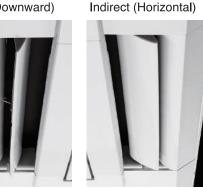
When the room remains unoccupied for a pre-set period of time, the air conditioner turns off automatically, thereby providing even greater power savings. The time until operation is stopped can be set in intervals of 10min, ranging from 60 to 180 min.

Detect people's position

Direct/Indirect settings*

Some people do not like the feel of wind, some want to be warm from head to toe. People's likes and dislikes vary. With the 3D i-see Sensor, it is possible to choose to block or not block to the wind for each vane. *PAR-32MAA or PAR-SL100A-E is required for each setting.

Direct (Downward)



Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the air conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping a comfortable coolness.



Room occupancy energy save mode

No occupancy energy save mode

No occupancy Auto-Off mode

100

100

*Only available for models equipped with 3D i-see Sensor.

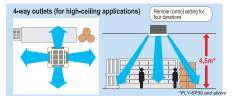
	Vanes	setting
	Direct	Indirect
Cooling	horizontal \rightarrow swing	keep horizontal

Vane Control Applications

For Shopping Malls

Wide airflow coverage down to the floor even in expansive spaces like large factory-outlet centers or shopping malls with high ceilings.

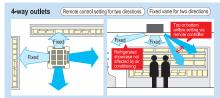
The unique airflow design of the powerful ceiling-cassette models reduces pressure loss and provides wide cool-air coverage from high ceilings to the floor even in expansive spaces like shopping malls with ceilings over 4 metres in height.



For Retail Outlets (e.g. grocery stores)

These units are ideal for maintaining constant temperatures in environments that have equipment such as refrigerated showcases.

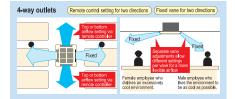
Individual vane angle adjustment enables precise airflow control to specific areas of the store to reduce unnecessary air conditioning of areas such as refrigerated showcases.



For Offices

Flexible and pleasant airflow eliminates annoying drafts within the office environment.

In office environments, annoying drafts can be bothersome, leading to discomfort and reduced productivity. Precise vane control helps to eliminate this problem.



power savings



power savings

30

1C°

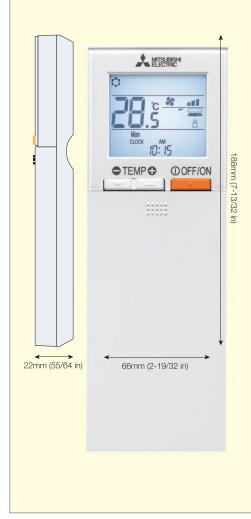


*PAR-32MAA is required for each setting **% is room occupancy rate.

Indirect Airflow

Remote controller for PLY-SP-EA

Wireless Remote Controller PAR-SL100A-E



3D i-see Sensor (Optional) (Direct/Indirect Airflow)

Pressing the i-see button enables direct or indirect setting of all vanes.



easy to read in the dark. Even in dimly lit rooms, the screen can be

remote controller operation.

seen clearly for trouble-free

Note : PAR-SL100A-E can be used with only PLY-SP-EA series.

Panel and remote controller

		Included parts						
Part model name	Description	Standard panel	Wireless signal receiver	3D i-see sensor	Wired contro ll er (PAR-21MAA)	Wired controller (PAR-32MAA)	Wireless controller (PAR-SL97A-E)	Wireless controller (PAR-SL100A-E)
PLP-6EA	Standard panel only	~						
PLP-6EALCM	Panel with receiver and wireless remote controller (SL97)	v	 ✓ 				✓	
PLP-6EALM	Panel with receiver and wireless remote controller (SL100)	 ✓ 	 ✓ 					v
PAC-SE1ME-E	3D i-see sensor corner panel			~				
PAR-SE9FA-E	Wireless signal receiver only		~					
PAR-SL97A-E	Wireless remote controller only						V	
PAR-SL100A-E	Wireless remote controller only							~
PAR-21MAA	Wired remote controller only				~			
PAR-32MAA	Wired remote controller only					~		

Features (PAR-SL100A-E)



Battery Replacement Indicator

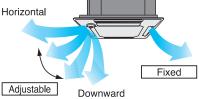
Previous wireless remote controllers were not able to check when the battery was low. Beginning with the PAR-SL100A-E, a battery charge indicator that shows the charge status is included in the LCD so it can be seen when the battery is low and needs to be changed.





The airflow directions of the four vanes can each be adjusted independently. Easily set the optimum airflow according to the room setting.





Easy Installation and Maintainance

Electrical box wiring

After reviewing the power supply terminal position in the electrical box, the structure was redesigned to improve connectivity. This has made previously complex wiring work easier.









Increased space for plumbing work

The top and bottom positions of the liquid and gas pipes have been reversed to allow the gas pipe work, which requires more effort, to be completed first. Further, through structural innovations related to the space around the pipes, the area where the spanner can be moved has been increased, thus improving liquid pipe work and enabling it to be completed smoothly.

Previous model (B Series)



New model (E Series)



Temporary hanging hook

The structure of the panel has been revised and is now equipped with a temporary hanging hook. This has improved work efficiency during panel installation.

No need to remove screws

Installation is possible without removing the screws for the corner panel and the control box, simply loosen them. This lowers the risk of losing screws.





After reviewing the structure and materials, weight has been reduced approximately 20% compared to the previous model, reducing the burden of installation.



Handy Corner Pocket Design Simplifies Maintenance

By using the handy pockets equipped on the four corners of the grille, maintenance work such as drain pan cleaning and height adjustments can be accomplished without removing the grille.

Drain Water Lifting Mechanism

A high-performance drain pump on the drain water lifting mechanism allows the drain water pipe to be routed as high as 850mm from the ceiling surface.



850

Bacteria-resistant Filters

Mitsubishi Electric filters are bacteria-resistant and designed for fresh and pleasant air conditioning at all times.

Features at a glance

Installation & Maintenance	Comfort	Others
 Chargeless system 	 3D i-see Sensor 	 System control
 Compact design 	Auto fan speed	 Auto vane shutter
Drain water lifting (850mm)	 Wide vane 	Auto restart
 Handy corner pocket 	 Smudge/draft-free 	Outdoor unit max.
 Long-life filter (2500hr)* 	 High-ceiling application 	operating temp. of 52°C
 Self-diagnostic function 	Computerized dehumidifier	
Filter indicator	Quiet operation	
(for wired remote controller)	Bacteria-and	
 Flockless vanes 	mold-resistant filter	

*May vary according to operating conditions.

SPECIFICATIONS

4-way Ceiling Cassette (50Hz) PLY-SP-EA Series

Models				PLY-SP18EA	PLY-SP24EA	PLY-SP30EA	PLY-SP36EA	PLY-SP42EA	PLY-SP48EA
Cooling c	apacity (Min-Max)		kW	5.3 (2.8-5.3)	7.1 (2.9-7.1)	8.8 (4.1-8.8)	10.6 (4.0-10.6)	12.3 (6.1-12.3)	14.1 (7.0-14.1)
Cooling c	apacity		BTU/h	18,000	24,000	30,000	36,000	42,000	48,000
Total inpu	ut		kW	1.60	2.17	2.48	3.52	4.30	6.02
EER			W/W	3.31	3.27	3.54	3.01	2.86	2.34
ISEER			W/W	4.50	4.50	4.50	4.30	3.92	3.54
	Model name			PLY-SP18EA	PLY-SP24EA	PLY-SP30EA	PLY-SP36EA	PLY-SP42EA	PLY-SP48EA
	Power supply				1ph 220-240V 50Hz		1ph 220-240V 50Hz	1ph 220-240V 50Hz	1ph 220-240V 50Hz
	External finish				Munsell 1.0Y 0.2/9.2		Munsell 1.0Y 0.2/9.2	Munsell 1.0Y 0.2/9.2	Munsell 1.0
			CMM	16-17-19-21	16-18-21-23	19-23-26-29	21-25-28-31	21-25-28-32	24-26-29-32
	Airflow (low-med2-med1-hig	gn) –	CFM	565-600-670-740	565-635-740-810	670-810-920-1025	740-885-990-1095	740-885-990-1130	850-920-1025-1130
Indoor	External static pressure		Ра		0 (direct blow)		0 (direct blow)	0 (direct blow)	0 (direct blow)
unit	Opearation control and ther	mos	tat	F	Remote-controll & Built-i	'n	Remote-control & Built-in	Remote-controll & Built-in	
	Noise level (low-med2-med1-h	igh)	dB (A)	28-30-32-35	28-31-34-37	31-34-37-41	32-37-41-43	32-37-41-44	36-39-42-44
	Unit drain pipe (outer diame	ter)	mm		32		32	32	32
		W	mm		840 (950)		840 (950)	840 (950)	840 (950)
	Dimensions (panel)	D	mm		840 (950)		840 (950)	840 (950)	840 (950)
		н	mm	258	(40)	298 (40)	298 (40)	298 (40)	298 (40)
	Weight (panel)		kg	21	21 (5) 24 (5)		27 (5)	27 (5)	27 (5)
	Model name			SUY-SA18VA2	SUY-SA24VA2	SUY-SA30VA2	PUY-SP36YKA2	PUY-SP42YKA2	PUY-SP48YKA2
	Power supply			1ph 220-240V 50Hz		3ph 380-415V 50Hz	3ph 380-415V 50Hz	3ph 380-415V 50Hz	
	External finish				Munsell 3.0Y 7.8/1.1		Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1
	Refrigerant (R410A) control				Linear expansion valve		Linear expansion valve	Linear expansion valve	Linear expansion valve
			CMM	27	46	51	75	75	87
	Airflow	F	CFM	953	1625	1800	2648	2648	3071
Outdoor	Noise level		dB (A)	47	52	54	52	53	56
unit		W	mm	800	8	40	1050	1050	1050
Gint	Dimensions	D	mm	285	3	30	330	330	330
		н	mm	550	8	80	981	981	981
	Weight		kg	32	49	50	65	73	73
	Max. height difference		m	12	15	15	30	30	30
	Max. piping length		m	20	30	30	50	50	50
	Pipe size (outer diameter) mm		mm	Liquid: 6.35 Gas: 12.7 Gas: 15.88			Liquid: 9.52 Gas: 15.88	Liquid: 9.52 Gas: 15.88	Liquid: 9.52 Gas: 15.88
		Line	or limit (DD)		50			50	52
Guara	Guaranteed Opearating Range		er limit (DB) er limit (DB)	52			52	52	
		LOW	er limit (DB)		18		18	18	18
BEE S	tar Rating				POWER SATINGS		_		

Refrigerant piping length (one-way): 7.5m(25ft)

• Rating conditions Cooling - Indoor: 27°C (80°F)DB, 19°C (66°F)WB, Outdoor: 35°C (95°F)DB

4-way Ceilingcassette

(PLY-SP-BA SERIES)





PLY-SP18/24/30/36/42/48BA





A sophisticated design that matches a variety of rooms and a high level of convenience enhancing your quality of life are combined in this compact, multi-functional indoor unit.

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 keepig the body at an appropate temprature.

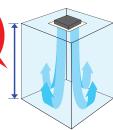


Horizontal airflow prevents drafty feeling

Wide-flow Air Outlet

The high-power ceiling cassettes offer a wide-flow air outlet that enables effective air conditioning of rooms with atrium ceilings up to 4.5m in height. The demands





PLY-SP18/24BA PLY-SP30/36/42/48BA Low ceiling* Standard High ceiling Low ceiling* Standard High 4-way 2.5 2.7 3.5 2.7 3.2 4	n Specification according to ceiling height (Unit: n								
4 1101 2.5 2.7 2.5 2.7 2.0 4									
4-way 2.0 2.1 3.5 2.1 3.2 4	4-way								
3-way 2.7 3.0 3.5 3.0 3.6 4	3-way								

deal for hig

51

If required to use Low Ceiling mode under high humidity conditions, please consult with your Mitsubishi Electric dealership since there is some risk of condensation.

Automatic Air-speed Adjustment

An automatic air-speed adjustment mode is provided in addition to the four air-speed stages, of High, Medium 1, Medium 2, and Low. Air speed can be changed freely according to the difference between set temperature and room temperature. The automatic air-speed adjustment mode offers quick cooling of a room in High mode, such as when starting cooling operation. After the room temperature is stabilized, the system switches to Low mode automatically to maintain comfort.

Low \Rightarrow Medium 2 \Rightarrow Medium 1 \Rightarrow High \Rightarrow speed adjustment (When using the wireless remote controller, an extra setting is required.)

Automatic Vane Shutter*

When the air conditioner is not operating, the vane shutter closes automatically to conceal the air outlet and create an aesthetically appealing flat surface.



*This feature will not activate when the vane is set at a fixed position.

Unit Height of Only 258mm (PLY-SP18/24BA)

Ceiling cassette models boast a slim body height for smooth and aesthetic installation, even in narrow spaces.



"Pure White" Colour Matches Interior Décor

The colour "Pure White" has been introduced for the decoration panel and wired remote controller so as to blend in with any interior décor.

Quiet Operation

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

Power flow fan

Other Features

- Maximum upward draining of 850mm
- Wireless remote controller available
- Duct flange for fresh-air intake
- Branch duct

Auto-up-down Grille Function (Optional)

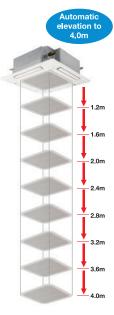
Easy to use/Simple maintenance

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



Elevating (up-down) controller

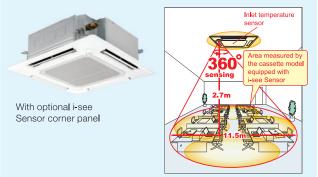
(comes with the automatic elevation panel)



Ä-see Sensor

(optional corner panel)

The "i-see Sensor" built into the optional corner panel eliminates uneven temperature distribution and reduces electricity consumption.



"i-see Sensor" temperature-sensing technology 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 an entire room. When connected to the air conditioner control panel, the "i-see Sensor" works to maximize room comfort.

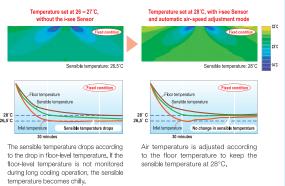


Sensible temperature control prevents excessive cooling through pioneering control technology

By measuring the inlet temperature and floor temperature, temperatures felt by the human body (sensible temperature) are computed. This allows the proper sensible temperature to always be maintained through the suppression of excessive cooling.

"i-see Sensor" automatically controls over-cooling by detecting the optimum temperatures

Example When you want a sensible temperature of 28°C.

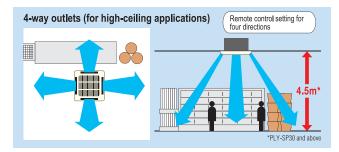


Vane Control



Wide airflow coverage down to the floor even in expansive spaces like large factory-outlet centers or shopping malls with high ceilings.

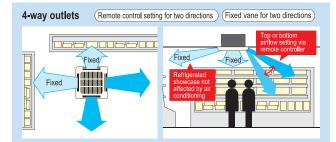
The unique airflow design of the powerful ceiling-cassette models reduces pressure loss and provides wide cool-air coverage from high ceilings to the floor even in expansive spaces like shopping malls with ceilings over 4 metres in height.





These units are ideal for maintaining constant temperatures in environments that have equipment such as refrigerated showcases.

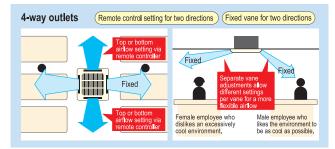
Individual vane angle adjustment enables precise airflow control to specific areas of the store to reduce unnecessary air conditioning of areas such as refrigerated showcases.



For Offices

Flexible and pleasant airflow eliminates annoying drafts within the office environment.

In office environments, annoying drafts can be bothersome, leading to discomfort and reduced productivity. Precise vane control helps to eliminate this problem.



Drain Water Lifting Mechanism

A high-performance drain pump on the drain water lifting mechanism allows the drain water pipe to be routed as high as 850mm from the ceiling surface.



Handy Corner Pocket Design Simplifies Maintenance

By using the handy pockets equipped on the four corners of the grille, maintenance work such as drain pan cleaning and height adjustments can be accomplished without removing the grille.



Bacteria- and Mold-resistant Specifications

Mitsubishi Electric filters are bacteria-resistant, and the drain pans are designed to prevent the growth of mold for fresh and pleasant air conditioning at all times.

Features at a glance

Installation & Maintenance	Comfort	Others
 Chargeless system 	 i-see Sensor 	 System control
 Compact design 	 Auto fan speed 	 Auto vane shutter
 Drain water lifting (850mm) 	 Wide vane 	 Auto restart
 Handy corner pocket 	 Smudge/draft-free 	 Outdoor unit max.
 Long-life filter (2500hr)* 	 High-ceiling application 	operating temp. of 52°C
 Self-diagnostic function 	 Computerized dehumidifier 	
 Flockless vanes 	 Quiet operation 	
 Elevation grille 	Bacteria-and mold-resistant filter	

*May vary according to operating conditions.

SPECIFICATIONS

4-way Ceiling-Cassette (50Hz) PLY-SP-BA SERIES

Models			PLY-SP18BA	PLY-SP24BA	PLY-SP30BA	PLY-SP36BA	PLY-SP42BA	PLY-SP48BA	
Cooling a	capacity	kW	5.3	7.1	8.8	10.6	12.3	14.1	
Cooling o	ling capacity BTU/h 18,000 24,000 30,000 36,000 42,000							48,000	
Total inpu	ut	Rated kW	1.73	2.22	2.94	3.34	4.37	6.07	
SEER		W/W	4.23	4.3	4.25	4.28	3.82	3.47	
	Power supply				1ph 220-2	240V 50Hz			
	External finish					4Y 8.9/0.4			
	Airflow (low-Med2-Med1-high)	CFM	425-460-495-565	495-565-635-705	705-775-885-990	8	350-920-1025-113	0	
	Operation control					e control			
	Noise level (low-med2-med1-high)	dB (A)	28-29-30-32	28-30-32-34	33-35-38-41		37-39-41-44		
ndoor	Unit drain pipe (outer diameter)	mm				32			
unit	W N	mm				(950)			
	Dimensions (panel) D	mm	050	(05)	840	(950)			
	H	mm		(35)	04.(0)	298	298 (35)		
	Weight (panel) Control wiring (Copper)	kg Sq.mm	19 (6) 3C x 1.5	22 (6) 3C x 1.5	24 (6) 3C x 1.5		26 (6)		
	Remote control cable size					3C x 1.5			
	(copper)	Sq.mm	2C x 0.3	2C x 0.3	2C x 0.3	2C x 0.3			
	Model name	SUY-SA18VA	SUY-SA24VA	SUY-SA30VA	PUY-SP36YKA	PUY-SP42YKA	PUY-SP48YK/		
	Power supply	1ph 220-240V 50Hz 3ph 380-415V 50Hz							
	External finish		Munsell 3.0Y 7.8/1.1						
	Refrigerant (R410A) control		Linear expansion valve						
	Airflow (low-Med2-Med2- Med1-high)	CFM	953	16	25	2648 307			
	Noise level	dB (A)	47	52	54	52	53	56	
Outdoor	W	mm	800	84	40	1050			
unit	Dimensions D	mm	285	33		330			
unit	H	mm	550		30		981		
	Weight	kg	32	49	47		73		
	Max. height difference	m	12		5		30		
	Max. piping length	m	20	-	0	50			
	Pipe size (outer diameter)	mm	Liquid: 6.35 Gas: 12.7	Liquid Gas:	l: 9.52 15.88	Liquid: 9.52 Gas: 15.88			
	Power Cable (Copper)	Sq.mm	3C x 2.0	3C >	< 2.5		5C x 1.5		
	ODU breaker size		16				16		
0	Upp	er limit (DB)			5	52			
Juarante	ed Operating Range	er limit (DB)			1	8			
BEE Star Rating				POWER ANNRES		_	_		

Ceilingconcealed

(PEY-SP SERIES)



PEY-SP18/24/30/36/42/48JA(L)2

PEY-SP.JA2 wired remote contoroller PEY-SP.JAL2 wireless remote contoroller

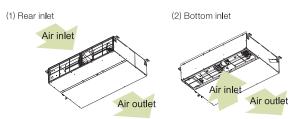


The thin, ceiling-concealed indoor units of the PEY series are the perfect answer for the air-conditioning requirements of buildings with minimum ceiling installation space and wide-ranging external static pressure. Energy-saving efficiency has been improved, thereby reducing electricity consumption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

Compact Indoor Units

For all models, unit height is unified to 250mm. Compared to the previous model, height has been reduced, allowing installation in tight spaces such as ceiling cavities or drop-ceilings.

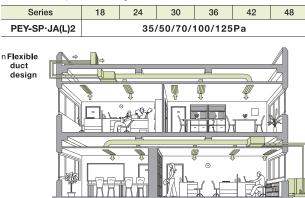




Wide Selection of Fan Speeds and External Static Pressure

Five-stage external static pressure conversions and three fan speed selections are available. Capable of being set to a maximum of 125Pa, units are applicable to a wide range of building types.

n External static pressure setting



Features at a glance

Installation & Maintenance	Comfort	Others
 Chargeless system 	 Computerized dehumidifier 	 System control
 Smooth installation 	 Quiet operation 	Auto restart
 Self-diagnostic function 		 Outdoor unit max. operating temp. of 52°C
Drain numn (ontional)		

Drain pump (optional)

SPECIFICATIONS

Ceiling Concealed (50Hz) PEY-SP SERIES

Models				PEY-SP18JA(L)2	PEY-SP24JA(L)2	PEY-SP30JA(L)2	PEY-SP36JA(L)2	PEY-SP42JA(L)2	PEY-SP48JA(L)2
Cooling of	zapacity (Min-Max) kW 5.3 (2.8-5.3) 7.1 (2.9-7.1) 8.8 (3.8-8.8)				10.6 (4.0-10.6)	12.3 (6.1 -12.3)	14.1 (7.0 -14.1)		
Cooling of	capacity		BTU/h	18,000	24,000	30,000	36,000	42,000	48,000
Total inp	ut		kW	1.72	2.16	2.50	3.66	4.59	5.73
EER			W/W	3.08	3.28	3.52	2.90	2.67	2.46
	Model name			PEY-SP18JA(L)	PEY-SP24JA(L)	PEY-SP30JA(L)	PEY-SP36JA(L)	PEY-SP42JA(L)	PEY-SP48JA(L)
	Power supply				1ph 220-240V 50Hz		1ph 220-240V 50Hz	1ph 220-240V 50Hz	1ph 220-240V 50Hz
	External finish			Galvanized sheet	Galvanized sheet	Galvanized sheet	Galvanized sheet	Galvanized sheet	Galvanized sheet
	A laff and (lane and all high)		CMM	12-14.5-17	17.5-21-25	24-29-34	29.5-35.5-42	29.5-35.5-42	29.5-35.5-42
	Airflow (low-mid-high)	ľ	CFM	425-510-600	620-740-885	850-1025-1200	1040-1225-1485	1040-1225-1485	1040-1225-1485
Indoor	External static pressure		Pa		35-50-70-100-125		35-50-70-100-125	35-50-70-100-125	35-50-70-100-125
unit	Opearation control and the	rmos	tat	R	emote control and Built	-in	Remote control and Built-in	Remote control and Built-in	Remote control and Built-in
	Noise level (low-med-high)		dB (A)	30-35-39	30-34-39	33-38-42	36-40-44	36-40-44	36-40-44
	Unit drain pipe (outer diam	eter)	mm		32		32	32	32
		W	mm	900	1100	1400	1400	1400	1400
	Dimensions	D	mm	732	732	732	732	732	732
		н	mm	250	250	250	250	250	250
	Weight (panel)		kg	27	29	38	39	39	39
	Model name			SUY-SA18VA2	SUY-SA24VA2	SUY-SA30VA2	PUY-SP36YKA2	PUY-SP42YKA2	PUY-SP48YKA2
	Power supply	Power supply			1ph 220-240V 50Hz			3ph 380-415V 50Hz	3ph 380-415V 50Hz
	External finish				Munsell 3.0Y 7.8/1.1		Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1
	Refrigerant (R410A) contro	b		Linear expansion valve			Linear expansion valve	Linear expansion valve	Linear expansion valve
	Airflow		CMM	27	46	51	75	75	87
	AIMOW	Ī	CFM	953	1625	1800	2648	2648	3071
Outdoor	Noise level		dB (A)	47	52	54	52	53	56
unit		W	mm	800	84	40	1050	1050	1050
	Dimensions	D	mm	285	33	30	330	330	330
		н	mm	550	88	30	981	981	981
	Weight		kg	32	49	50	65	73	73
	Max. height difference		m	12	15	15	30	30	30
	Max. piping length		m	20	30	30	50	50	50
			mm	Liquid: 6.35		: 9.52 15.88	Liquid: 9.52 Gas: 15.88	Liquid: 9.52 Gas: 15.88	Liquid: 9.52 Gas: 15.88
	Fipe size (outer diameter)			Gas: 12.7 Gas: 15.88					
	nteed Opearating Range	Upn	er limit (DB)	043. 12.7	52	10.00	52	52	52

• Rating conditions Cooling - Indoor: 27°C(80°F)DB, 19°C(66°F)WB, Outdoor: 35°C(95°F)DB • Refrigerant piping length (one-way): 7.5m(25ft)

Floorstanding

(PSY SERIES)





PSY-SP30/36/42/48KA



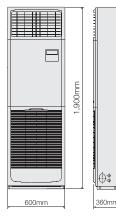


Installation of this floor-standing series is easy and quick. An excellent choice when there is a sudden need for an air conditioner to be installed.

Quick and Easy Installation, Space-saving and **Design That Compliments Any Interior**

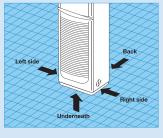
The floor-standing indoor unit is mounted on the floor, enabling quick installation. Its compact body requires only minimal space.

PSY-SP30/36/42/48KA



4-way pipe work connections enable greater freedom in installation

Remarkable freedom in choosing installation sites is allowed by providing piping connection to the indoor unit in four places: left side, back, from underneath and on the right side of the unit. Even installation in the corner of a room is easy.



Streamlined, lightweight design

The PSY Series has a streamlined design and takes up very little floor space. Adding to this appeal, the unit weight has been significantly reduced for easier handling.

Long-life filter as standard equipment

Indoor units are equipped with a long-life filter that has a maximum service life of 2,500 hours* (based on use under average office conditions). Filter cleaning is drastically reduced. Furthermore, the adoption of an "open-and-close grille" makes it easy to take the filter out to clean off dust and particulates.

Adoption of "open-and-close grille" simplifies removal of filter D for cleaning. *May vary according to operating conditions.

Flockless vanes

With the adoption of new flockless vanes, dirt and other impurities can be cleaned off easily.

Features at a glance

Installation & Maintenance	Comfort	Others
 Chargeless system 	Auto-louver	 System control
 Lightweight design 	 Computerized dehumidifier 	 Auto restart
 4-way multi-directional piping 	 Quiet operation 	Outdoor unit max. operating
 Easily removable filter 		temp. of 52°C
 Long-life filter (2500hrs.)* 		
 Self-diagnostic function 		
 Flockless vanes 	1	

May vary according to operating conditions.

SPECIFICATIONS

Floor-standing PSY SERIES

Models			PSY-SP30KA	PSY-SP36KA	PSY-SP42KA	PSY-SP48KA				
Cooling	capacity (Min-Max)	kW	8.8 (3.8-8.8)	10.6 (4.0-10.6)	12.3 (6.1-12.3)	13.4 (6.7-13.4)				
		BTU/h	30,000	36,000	42,000	45,700				
otal inp	ut	kW	2.56	3.65	4.06 5.86					
ER		W/W	3.44	2.90	3.02	2.28				
SEER		W/W	4.36	3.83	3.81	3.34				
	Model name		PSY-SP30KA	PSY-SP36KA	PSY-SP42KA	PSY-SP48KA				
	Power supply			1phase 220	240V 50Hz					
	External finish			Munsell 0.7	Y 8.59/0.97					
	Airflow	CMM	25-28-30	25-2	8-31					
	(low-med2-med1-high)	CFM	885-990-1060	885-99	0-1090					
	External static pressure	Ра		0 (direc	t blow)					
ndoor Init	Opearation control and thermosta			Buil						
aritt	Noise level (low-mid2-mid1-high)			45-49	9-51					
	Unit drain pipe (outer diameter)	mm		20	6					
	Ŵ	mm		60	0					
	Dimensions D	mm	360							
	Н	mm		1,900						
	Weight	kg	46 48							
	Model name		SUY-SA30VA2	PUY-SP36YKA2	PUY-SP42YKA2	PUY-SP48YKA2				
	Power supply		1ph 220-240V 50Hz	1ph 220-240V 50Hz 3phase 380-415V 50Hz						
	External finish		Munsell 3.0Y 7.8/1.1							
	Refrigerant (R410A) control		Linear expansion valve							
	Airflow	CMM	51	7	5	87				
	Ainlow	CFM	1,800	2,6	48	3,071				
	Noise level	dB (A)	54	52	53	56				
Dutdoor	W	mm	840		1,050					
unit	Dimensions D	mm	330		330					
	Н	mm	880	880						
	Weight	kg	50	65	7:	73				
	Max. height difference	m	15							
	Max. piping length	m	30 50							
	Pipe size (outer diameter)	mm		Liquid: 9.52 Gas: 15.88						
	Linn	er limit (DB)		5	2					
Suarante		er limit (DB)		11						
Star Rating			Power and the second	_	_	_				

Rating conditions Cooling - Indoor: 27°C (80°F) DB, 19°C (66°F) WB, Outdoor: 35°C (95°F)
Refrigerant piping length (one-way): 7.5m(25ft)
Total input based on the indicated voltage (indoor/outdoor): 1phase 230V 50Hz, 3phase 400V 50Hz

CONTROL TECHNOLOGIES

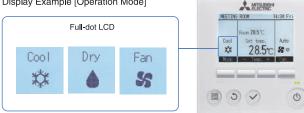
User-friendly Deluxe Remote Controller with Excellent

Operability and Visibility

Full-dot Liquid-crystal Display Adopted

Easier to read thanks to use of a full-dot liquid-crystal display with backlight, and easier to use owing to the adoption of a menu format that enabled the number of operating buttons to be reduced. PAR-31MAA

Display Example [Operation Mode]



Energy-efficient Control

Operation Control Functions

Prevents wasteful operation by automatically returning to the preset Auto-return temperature after specified operating time

After adjusting the initial temperature on a hot day, it is easy to forget to return the temperature setting to its original value. The Auto-return function automatically resets the temperature back to the original setting after a specified period of time, thereby preventing overcooling. The Auto-return activation time can be set in 10-minute units, in a range between 30 and 120 minutes.

*Auto-return cannot be used when Temperature Range Restriction is in use.

Night Setback

Keep desired room temperatures automatically

This function monitors the room temperature and automatically activates the cooling mode when the temperature rises above the preset maximum temperature setting.



Temperature Range Restriction prevents overcooling

Using a temperature that is 1°C higher for cooling results in a 10% reduction in power consumption.* Temperature Range Restriction limits the maximum and minimum temperature settings, contributing to the prevention of overcooling. *In-house calculations

Cooling/Dry (Setting example of minimum temp. at 25°C) 19(°c 30 (°C) Possible temperature range setting 30(°C) 25 (°C) Lower temperature limit To prevent excessive cooling Lower temperatures cannot be selected Recommended for Office Restaurant



When using Auto-off Timer, even if one forgets to turn off the unit, operation stops automatically after the preset time elapses, thereby preventing wasteful operation. Auto-off Timer can be set in 10-minute units, in a range between 30 minutes and 4 hours. Eliminates all anxiety about forgetting to turn off the unit.

Recommended for Meeting room Changing room



Easy-to-Read & Easy-to-Use



Multi-language Display **Control panel operation in eight** different languages Choose the desired language from among the following.

[English]	[Spanish]	[Italian]	[German]	[French]	[Russian]	[Portuguese]	[Swedish]
Cool	Frio	Raffred	Kühlen	Froid	Охлажд.	Frio	Kyla
**	**	**	**	**	**	**	**
***	why.	274 m	w.	alk a	ayku.	w.K.w	

Operation Lock

Fixed temperature setting promotes energy savings

In addition to operation start/stop, the operation mode, temperature setting and airflow direction can be locked. Unwanted adjustment of temperature settings is prevented and an appropriate temperature is constantly maintained. leading to energy savings. This feature is also useful in preventing erroneous operation or tampering. Recommended for Office School Public hall

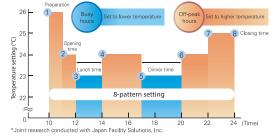
Hospital Computer server facility

Weekly Timer

Set up to 8 patterns per day including temperature control

The Weekly Timer enables the setting of operation start and stop times and adjusting the temperature as standard features. Up to 8 patterns per day can be set, providing operation that matches the varying conditions of each period, such as the number of customers in the store *Weekly Timer cannot be used when On/Off Timer is in use.

Setting Example (restaurant in summer time)

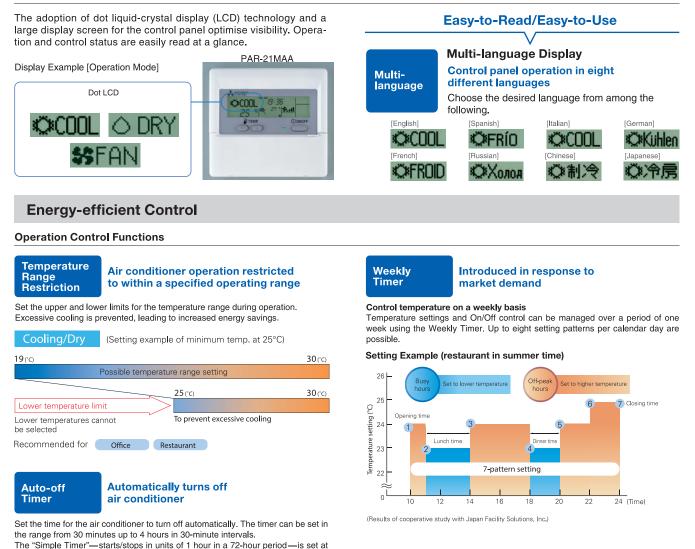




PSY Series Built in)

Advanced MA Remote Controller – A Progressive Step in the Evolution of Air Conditioning Control

Dot Liquid-crystal Display Adopted



function using the remote controller. Recommended for Meeting room Changing room





the time of shipment from the factory. It can be changed to the "Auto-off Timer"

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/ mischievous operation. Only the administrator can change settings when using the Operation Lock mode.

Recommended for Office School Public hall Hospital Computer server facility

NOTE & OUTDOOR UNIT

Notes for All Specifications

Rating conditions Cooling - Indoor: 27°C (80°F) DB, 19°C (66°F) WB Outdoor: 35°C (95°F) DB Refrigerant piping length (one-way): 7.5m (25ft) Total input based on the indicated voltage (indoor/outdoor)

		Outdoor				
	Indoor	18/24/30V	36/42/48Y			
50Hz	Single-phase, 220-240V	Single-phase, 220-240V	Three-phase, 380-415V			

Guaranteed Operating Range

		SUY-SA	PUY-SP
Onalian	Upper limit (DB)	52°C	52°C
Cooling	Lower limit (DB)	18°C	18°C

Sound Pressure Level

Sound pressure measurements were conducted in an anechoic chamber.

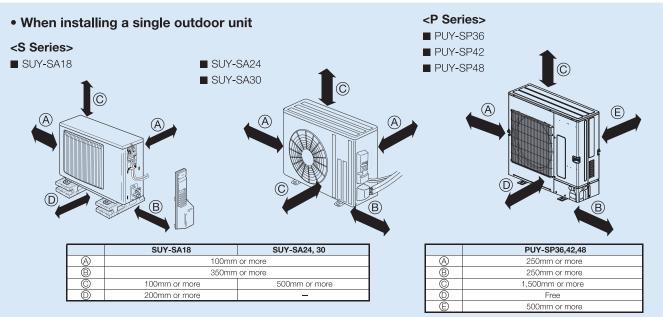
• The actual noise level depends on the distance from the unit and the acoustic environment.

Refrigerant Piping

Canaaitu	Between indoor	and outdoor units	Dina siza (mm. autor dia)	Thickness (mm)	
Capacity	Max. height difference (m)	Max. piping length (m)	Pipe size (mm, outer dia.)		
	10	00	Liquid:ø6.35	t 0.8	
SUY-SA18	12	20	Gas: ø12.7	t 0.8	
	15	20	Liquid: ø9.52	t 0.8	
SUY-SA24/30	15	30	Gas: ø15.88	t 1.0	
PUY-SP36	30	50	Liquid: ø9.52	t 0.8	
PUY-SP42 PUY-SP48	30	50	Gas: ø15.88	t 1.0	

Refrigerant Requirements (R410A: kg)

Diving length	Factory charged	Additional charge								Calculation	
Piping length	7m	10m	15m	20m	25m	30m	35m	40m	45m	50m	Calculation
SUY-SA18	1.2	0.05	0.12	0.2	—	—	—	—		—	$Xg = 15g/m \times (length-7)m$
SUY-SA24	2.0	0.06	0.16	0.26	0.36	0.46	—	—	—	—	
SUY-SA30	2.1	0.06	0.16	0.26	0.36	0.46	—	—		—	Xg=20g/m×(length-7)m
PUY-SP36 PUY-SP42 PUY-SP48	2.8	0	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	Xg=30g/m x (length-10)m



[Notice] If there is any obstruction around the unit, check the condition details in the Data Book.

OPTIONAL PARTS

Optional Parts

Part Nam	ie	Model name	Applicable models		
Drain pump		PAC-DRP06SL-E	PEY-SP		
M-NET and Terminal interface		MAC-334IF-E	All indoor units		
Manager and the second second second		PAR-SL100A-E	PLY-SP-EA		
Wireless remote controller		PAR-SL97A-E	PLY-SP / PEY-SP		
Wireless remote controller		PAR-SA9CA-E	PEY-SP		
signal receiver		PAR-SE9FA-E	PLY-SP-EA		
		PAR-SA9FA	PLY-SP-BA		
High-efficiency filter element		PAC-SH59KF-E	PLY-SP		
		PAC-KE92TB-E	PEY-SP18		
Filter box		PAC-KE93TB-E	PEY-SP24		
		PAC-KE94TB-E	PEY-SP30/36/42/48		
3D i-see sensor corner panel		PAC-SE1ME-E	PLY-SP-EA		
i-see sensor corner panel		PAC-SA1ME-E	PLY-SP-BA		
or		PAC-SJ37SP-E	PLY-SP-EA		
Shutter plate		PAC-SH51SP-E	PLY-SP-BA		
Remote On/Off adaptor		PAC-SE55RA-E	All indoor units		
Remote operation adaptor		PAC-SF40RM-E	All indoor units		
Remote sensor		PAC-SE41TS-E	All indoor units		
Space panel		PAC-SJ65AS-E	PLY-SP-EA		
Space panel		PAC-SH48AS-E	PLY-SP-BA		
Connector cable for remote display		PAC-SH48AS-E	All indoor units		
Wired remote contro ll er		PAR-32MAA	All indoor units		
		PAR-21MAA	All indoor units		
Multiple remote controller adaptor		PAC-725AD	All indoor units		
		MAC-881SG	SUY-SA18		
Air outlet guide		MAC-886SG-E	SUY-SA24/30		
		PAC-SH96SG-E	PUY-SP36/42/48		
Joint pipe	(Unit ø9.52 → Pipe ø12.7)	PAC-SG73RJ-E	PUY-SP36/42/48		
Joint pipe	(Unit ø15.88 → Pipe ø19.05)	PAC-SG75RJ-E	PUY-SP36/42/48		
Filter dryer for liquid pipe		PAC-SG82DR-E	PUY-SP36/42/48		
Air protection guide		PAC-SH95AG-E	PUY-SP36/42/48		
Drain socket		PAC-SG61DS-E	PUY-SP36/42/48		
Centralized drain pan		PAC-SH97DP-E	PUY-SP36/42/48		
M-Net converter		PAC-SJ95MA-E	PUY-SP36/42/48		
Control/Service tool		PAC-SK52ST	PUY-SP36/42/48		
External/Input adapter		PAC-SC36NA-E	PUY-SP36/42/48		
Power supply terminal kit		PAC-SJ39HR-E	PLY-SP36/42/48-EA		

▲ CAUTION

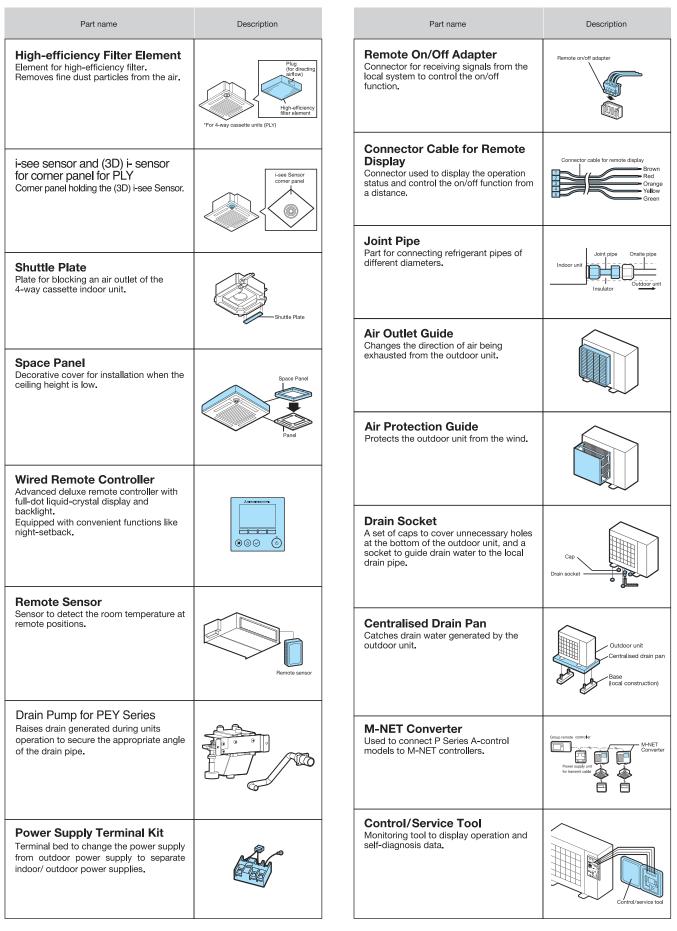
Do not install indoor units in areas where the emission of VOCs such as phthalate compounds and formaldehyde is known to be high (e.g., mobile phone base stations) as this may result in a chemical reaction.

When installing, relocating or servicing air conditioners, use only the specified refrigerant (R410A) to charge the refrigerant lines. Do not mix R410A with any other refrigerant and do not allow air to remain in the lines. If air is mixed with the refrigerant, this may cause abnormal high pressure in the refrigerant lines and possibly result in an explosion or other hazard.

The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction or unit breakdown. In the worst case, it could lead to a serious impediment to securing product safety.

OPTIONAL PARTS

Main Optional Parts



The MEQ Difference



Simply meeting industry standards, however stringent, is not enough. Our aim is to exceed them. When it comes to comfort, efficiency and durability, Mitsubishi Electric offers you a distinctive advantage. We call it MEQ — Mitsubishi Electric Quality. It results in benchmark leading-edge products like our air conditioners, which consume minimal power, protect your investment through a long service life, offer superior reliability and are built to take the punishment of extreme weather conditions year in and year out.

Mitsubishi Electric Offers Three Important Advantages

Comfort

Clean air, optimum temperature distribution and silent operation...

MEQ has led to the development of state-of-the-art air purification and deodorization filters that remove unwanted odors and impurities in the air. Original airflow technologies and specially designed components provide even temperature distribution even in remote regions of a room. At Mitsubishi Electric, comfort doesn't simply mean cool or warm, it means clean and quiet too.

Efficiency

Optimum cost performance and energy savings...

MEQ results in air conditioners that are rated among the best in the industry in terms of quality and energy efficiency. We strive for a perfect balance of performance, reliability, low power consumption and long service life. This is complemented by continuously introducing new technologies and components that further reduce energy requirements and negative environmental impact.

Durability

Rugged construction, rigorous testing, long-lasting operation...

MEQ is behind a mindset that goes to extremes to ensure higher quality products that protect the initial investment over years of reliable service. We subject our indoor and outdoor units to rigorous durability testing, including harsher temperature extremes than likely found anywhere in the world.

Changes for the Better







INVERTER HEAT PUMP FOR THE HOTTEST SUMMERS AND THE COLDEST WINTERS

Heat Pump Inverter Package Air Conditioner Line Up





SUZ-KA



PUHZ-P



SUZ-KA



PUHZ-P

Leading the world in every field with advanced technology and assured quality

Technologies are forever changing society and the way people live. Applying innovative ideas and advanced technological prowess, Mitsubishi Electric delivers various products and services that improve daily life and the social infrastructure. From residential-use products to those for commercial and industrial-use, semiconductors, social infrastructure systems, and products and services for the development of outer space, we are not only the leading manufacturer in Japan, but throughout the world.

We have maintained our commitment to the pursuit of better technologies and higherquality throughout a history nearly Spanning over 100 years. Our detailed craftsmanshipin all products has resulted in global recognition as a reliable brand. Not only with advancedair conditioning products and systems, but also with superior product development power, **Mitsubishi Electric** will continue to support lifestyles and societies for generations to come.

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1921

Mitsubishi Electric is branched off from Mitsubishi Corporation as a separate identity

1928

E52, the first large-scale electric locomotive produced in Japan





1935



1953

Produced radar equipment for the weather station atop Mt. Fuji

1964



1980 Debut of Di

Debut of Diamond Vision display at Dodger Stadium in the United States







2000 Adopted MISTY® technology as encryption standard for 3rd-generation mobile phones







2011 Debut of Hayabusa Series E5, holder of the Japanese speed record for a train



2014 Unveiled world's largest full ultra-HD video display" in Times Square, New York City"As of Nov. 18, 2014 (based on total area)



Air Conditioner product history

1954 Room Air Conditioners production started.



1968 Introduced Japan's first ceiling-suspended, split-type Air Conditioners. **1978** Introduced Mr. Slim Air Conditioners for commercial use. 1984 Introduced

Introduced inverter Air Conditioners with wireless remote control and automatic vane.

1993

Accumulated room Air Conditioners production of 10 million units.

1994

Introduced i-see Sensor (built-in sensor). First in industry to develop a sensor that detects the location of people.

2008

Solved the problem of wide spaces with the release of the 3D i-see Sensor.

3D i-see Sensor

Inverter Technologies

Mitsubishi Electric inverters ensure superior performance, including the optimum control of operational frequency. As a result, optimum power is applied in all heating/cooling ranges and maximum comfort is achieved while consuming minimal energy. Fast, comfortable operation and amazingly low running cost

- that's the Mitsubishi Electric promise.

INVERTERS – HOW THEY WORK

Inverters electronically control the electrical voltage, current and frequency of electrical devices such as the compressor motor in an Air Conditioner. They receive information from sensors monitoring operating conditions and adjust the rotation speed of the compressor, which directly regulates Air Conditioner output. Optimum control of operation frequency results in eliminating the consumption of excessive electricity and providing the most comfortable room environment.

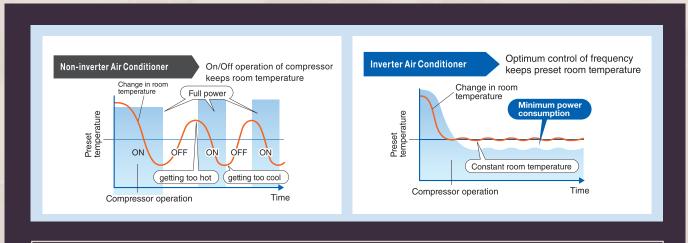
ECONOMICAL OPERATION

Impressively low operating cost is a key advantageof inverter-equipped Air Conditioners. We have combined advanced inverter technologies with cutting-edge electronic and mechanical technologies to achieve a synergistic effect that enables improvements in heating/cooling performance efficiency. As a result, better performance and lower energy consumption is achieved.

TRUE COMFORT

Below is a simple comparison of Air Conditioner operation control with and without an inverter.

Inverter operation comparison



The compressors of Air Conditioners without an inverter start and stop repeatedly in order to maintain the preset room temperature. This repetitive on/off operation uses excessive electricity and compromises room comfort. The compressors of Air Conditioners equipped with an inverter run continuously; the inverter quickly optimizing the operating frequency according to changes in room temperature. This ensures energy-efficient operation and a more comfortable room.

Quick & Powerful

Increasing the compressor motor speed by controlling the operation frequency ensures powerful output at start-up, and brings the room temperature to the comfort zone faster than units not equipped with an inverter. Hot rooms are cooled, and cold rooms are heated, faster and more efficiently.

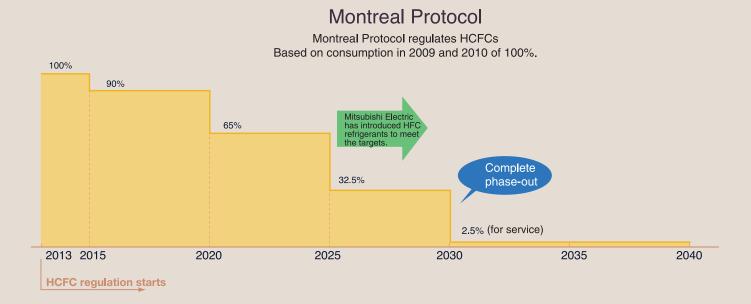
Room Temperature Maintained

The compressor motor operating frequency and the change in room temperature are monitored to calculate the most efficient waveform to maintain the room temperature in the comfort zone. This eliminates large temperature swings common with non-inverter systems and guarantees a pleasant, comfortable environment.

R410A Refrigerant

As scientific evidence points to man-made chemicals causing damage to ozone layer, Mitsubishi Electric only use chlorine-free refrigerants that are safe and rated zero ozone depletion potential ODP. Accordingly, our systems require less energy to run and have significantly lower indirect global warming potential. In short, we produce the most efficient equipment possible, while helping to protect the environment.

The Montreal Protocol calls for the complete abolishment of HCFC refrigerant consumption in Article 5 countries (such as R22) by the year 2030. Mitsubishi Electric is committed to shifting over to HFC models from HCFC models.



MITSUBISHI ELECTRIC Compressor

The compressor is the heart of the Air Conditioner. Employing Mitsubishi Electric's proprietary technology, we are able to achieve both high efficiency and high power.



PLA SERIES

A complete line-up including deluxe units that offer added energy savings. The incorporation of wide air-outlet and the "3D i-see Sensor"enhances airflow distribution control, achieving an enhanced level of comfort throughout the room. The synergy of higher energy efficiency and more comfortable room environment results in optimum user satisfaction.

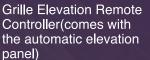
An automatic grille lowering function is available for easy filter maintenance. Special wired and wireless remote controllers can be used to lower the intake grille for maintenance.

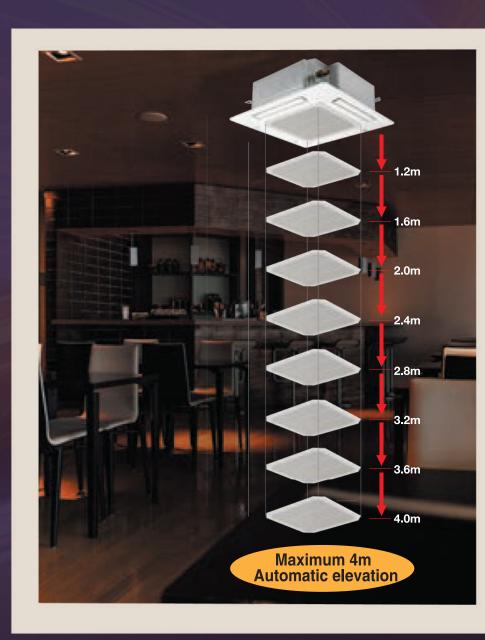




Automatic Grille Lowering Function¹ (PLP-6EAJ)







¹Optional *Available in PLA-RP50/71

3D *i-see Sensor*¹ for PLA series

Detects number of people

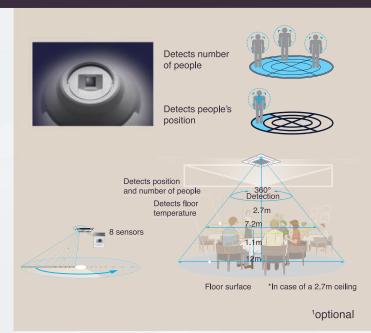
3D i-see Sensor detects the number of people in the room and sets the Air-Conditioning power accordingly. This makes automatic power-saving operation possible in places where the number of people entering and exiting is large.

Additionally, when the area is continuously unoccupied, the system switches to a more enhanced power-saving mode.

Depending on the setting, it will save additional capacity or stop operation altogether.

Detects people's position

Once the position of a person is detected, the duct angle of the vane is automatically adjusted in that direction. Each vane can be independently set to "block wind" or "not block wind" according to taste.



Room occupancy energy-saving mode



No occupancy Auto-OFF mode



No occupancy energy-saving mode





*PAR-32MAA is required for each setting

When cooling

Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling.When a pre-set temperature is reached, the Air Conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping a comfortable coolness.

When heating

The Air Conditioning unit automatically switches between circulator and heating.Wasted heat that accumulates near the ceiling is reused via circulation. When a pre-set temperature is reached the Air Conditioner switches from heating to circulator and blows air in the horizontal direction. It pushes down the warm air that has gathered near the ceiling to people's height, thereby providing smart heating.

Seasonal airflow*



*PAR-32MAA is required for each setting.

Direct/Indirect settings*

Some people do not like the feel of wind, some want to be warm from head to toe. People's likes and dislikes vary. With the 3D i-see Sensor, it is possible to choose to block or not block the wind for each vane.



*PAR-32MAA or PAR-SL100A-E is required for each setting.

Easy Installation

Electrical box wiring

After reviewing the power supply terminal position in the electrical box, the structure was redesigned to improve connectivity. This has made previously complex wiring work easier.

Increased space for plumbing work

The top and bottom positions of the liquid and gas pipes havebeen reversed to allow the gas pipe work, which requires more effort, to be completed first. Further, through structural innovations related to the space around the pipes, the area where the spanner can be moved has increased, thus improvingliquid pipe work and enabling smooth completion.



Temporary hanging hook

The structure of the panel has been revised and is now equipped with a temporary hanging hook. This has improved work efficiency during panel installation.





No need to remove screws

Installation is possible without removing the screws for the corner panel and the control box, simply by loosening them. This lowers the risk of losing screws.

Corner panel

Control box cover



Lightweight decorative panel



R410A Heatpump Inverter Ceiling Cassette PLA Specifications

Models					PLA-RP50EA-DA	PLA-RP71EA-DA	PLA-RP100EA-DA	PLA-RP140EA-DA		
	Capacity (Min - Max)			kW						
Cooling					5.5(2.3-5.6)	7.1(2.8-8.1)	9.4(3.7-10.6)	13.6 (5.8-14.1)		
	Capacity			BTU/h	18,800	24,000	32,100	46,400		
	Total Input			kW	1.61	2.10	3.18	5.41		
	EER			W/W	3.41	3.38	2.95	2.51		
	ISEER Capacity (Min - Max)				4.50	4,51	-	-		
Heating	Heating Capacity (Min - Max)			kW	5.8(1.7-7.2)	8.0 (2.6-10.2)	11.2 (2.8-12.5)	15.0(4.9-15.8)		
пеашу	Capacity		BTU/h	19,800	27,300	38,200	51,200			
	Total Input			kW	1.69	2,24	3.26	4.67		
	COP			W/W	3.43	3.56	3.43	3.21		
	Model name				PLA-RP50EA-DA	PLA-RP71EA-DA	PLA-RP100EA-DA	PLA-RP140EA-DA		
	Power supply					1ph 220-2	40V 50Hz			
Indoor Unit	External finish					Munsell 1.	0Y 9.2/0.2			
	Airflow (low-med2-med1-high)			CMM	14-16-17-18	16-17-19-21	19-23-26-29	24-26-29-32		
				CFM	495-565-600-635	565-600-670-740	670-810-920-1025	850-920-1025-1130		
	External static pressure Pa					0 (dire	ct blow)			
	Operation control and thermo	ostat			Remote control & Built-in					
	Noise level (low-med2-med1	-high)		dB (A)	27-29-31-32	28-30-32-34	31-34-37-40	36-39-42-44		
	Unit drain pipe (outer diamet	Unit drain pipe (outer diameter)		mm	32					
			W	mm	840(950) 840(950)					
	Dimensions (panel)		D H	mm mm	258	(40)				
	Weight (panel)			kg	19(5)	21(5)	24(5)	27(5)		
	Model name			0	SUZ-KA50VA-DA	SUZ-KA71VA-DA	PUHZ-P100YKA	PUHZ-P140YKA		
	Power supply				1ph 220-240V 50Hz 3ph 380-415V 50Hz					
	External finish				Munsell 3.0Y 7.8/1.1 Linear Expansion Valve					
	Refrigerant (R410A) control			0104						
	Airflow			CMM	44.6	50.1	79	86		
				CFM	1575	1770	2792	3039		
	Noise Level			dB (A)	52 55		51 56			
			W	mm	84	40	1050			
Outdoor Unit	Dimensions		D	mm	33	30	330	(+40)		
01m			Н	mm	88	30	98	:1		
	Weight			kg	54	53	78	85		
	Max. height difference			m	30	30	30	30		
	Max, piping length			m	3	0	5	0		
	Pipe size (outer diameter)			mm	Liquid:6,35/Gas:12,7 Liquid:9.52/Gas:15.88			3		
	Chargeless piping length			m	7 30					
		Linne	r limit	(°CDB)			.6			
Cooling O	perating Range			(°CDB)						
							15			
Heating O	perating Range			(°CDB)		4		-		
		Lowe	r limit	(°CDB)	-1	0	-1	5		

• Rating conditions 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): 7.5m(25ft)

 Total input based on the indicated voltage (indoor/outdoor): 1ph 220-240V 50Hz, 3ph 380-415V 50Hz

* Operation air protection guide is required where ambient temperature is lower than -5°C.

SEZ/PEAD SERIES

Ultra thin Ceiling Concealed indoor units of this series are the perfect answer for the air conditioning needs of modern buildings with minimum ceiling installation space requirements and wide-ranging external static pressure. Energy-saving efficiency has been improved, reducing electricity consumption and contributing to a further reduction in operating costs.

Temperature Range : -10°C to 46°C







External Static Pressure

External static pressure conversion can be set up to five stages. Capable of being set to a maximum of 150 Pa, units are applicable to a wide range of building types.

External static pressure setting

Series	External Static Pressure Settings
SEZ-KD-VA	5/15/35/5 Pa
PEAD-RP JA	35/50/70/100/150 Pa

R410A Heatpump Inverter Ceiling Concealed SEZ / PEAD Specifications

Models				SEZ-KD50VAL	PEAD-RP71JALQ	PEAD-RP100JALQ	PEAD-RP140JALQ		
Cooling	Capacity (Min - Max)						13.6 (5.8-14.1)		
	Capacity		BTU/h	17,400	24,000	32,000	46,400		
	Total Input		kW	1.580	2.08	2.98	5.21		
	EER		W/W	3.22	3.41	3,15	2.61		
Heating	Capacity (Min - Max)		kW	6.4 (1.7-7.2)	8.0(2.6-10.2)	11.2(2.8-12.5)	15.0 (4.9 - 15.8)		
	Capacity	BTU/h	21,800	27,300	38,200	51,200			
	Total Input	kW	1.800	2.04	2.94	4.27			
	COP		W/W	3.55	3.92	3.80	3.51		
	Model name			SEZ-KD50VAL	PEAD-RP71JALQ	PEAD-RP100JALQ-PA	PEAD-RP140JALQ-PA		
	Power supply			1ph 220-240V 50Hz		1ph 220V-240V 50Hz			
	External finish			Galvanized sheets		Galvanized steel plate			
	Airflow (low-mid-high)		CMM	10.0-12.5-15.0	17.5-21-25	24-29-34	32-39-46		
		CFM	353-441-530	618-742-883	848-1024-1200	1130-1377-1624			
Indoor Unit	External static pressure Pa			5 / 15 / 35 / 50	35/50/70/100/150	35/50/70/100/150	35/50/70/100/150		
	Operation control and therm	ostat		Remote Control Built in	Built in				
	Noise level (low-med-high) dE			30-34-37	26-30-34	29-34-38	34-38-43		
	Unit drain pipe (outer diame	ter)	mm	32	32	32	32		
			mm	990	1100	1400	1600		
	Dimensions	D	mm	700	732				
		н	mm	200		250			
	Weight (panel)		kg	22	29	38	43		
	Model name			SUZ-KA50VA-DA	SUZ-KA71VA-DA	PUHZ-P100YKA	PUHZ-P140YKA		
	Power supply			1ph 220-240V 50Hz	1ph 220-240V 50Hz	3ph 380-415V 50Hz			
	External finish				Munsell 3.	0Y 7.8/1.1			
	Refrigerant (R410A) control				Linear Expa	nsion Valve			
	Airflow		CMM	44.6	50.1	79	86		
	AITIOW		CFM	1574	1770	2792	3039		
	Noise level		dB (A)	52	55	51	56		
Outdoor — Unit		W	mm	840	840	10	1		
	Dimensions	D	mm	330	330	330	(+40)		
		н	mm	880	880	9	81		
	Weight		kg	54	53	78	85		
	Max. height difference		m			0			
	Max. piping length		m	30	30 50		50		
	Pipe size (outer diameter)			Liquid:6.35/Gas:12.7	Liquid:9.52/Gas:15.88				
	Chargeless piping length m			7	7 30				
		Upper limi	t (°CDB)	46		46			
Cooling Op	arating Danga			-15		-15			
		Lower limit (°CDE		24					
	erating Range	Upper limit (°CDB)			<u>- 24</u> 21 -10 -15				

Rating conditions 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): 7.5m(25ft)
Total input based on the indicated voltage (indoor/outdoor): 1ph 220-240V 50Hz, 3ph 380-415V 50Hz

*Operation air protection guide is required where ambient temperature is lower than -5 °C.

Changes for the Better



Mr.SLIM





The MEQ Difference



Simply meeting industry standards, however stringent, is not enough. Our aim is to exceed them. When it comes to comfort, efficiency and durability, Mitsubishi Electric offers you a distinctive advantage. We call it MEQ — Mitsubishi Electric Quality. It results in benchmark leading-edge products like our air conditioners, which consume minimal power, protect your investment through a long service life, offer superior reliability and are built to take the punishment of extreme weather conditions year in and year out.

Mitsubishi Electric Offers Three Important Advantages

Comfort

Clean air, optimum temperature distribution and silent operation...

Efficiency

Optimum performance and energy savings...

Durability

Rugged construction, rigorous testing, long-lasting operation...

One of the world's most advanced ACs. Now in India



A sophisticated design that matches a variety of rooms and a high level of convenience enhancing your quality of life are combined in this compact, multi-functional indoor unit.

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.



PL-P**BAK

Automatic Air-speed Adjustment

An automatic air-speed adjustment mode is provided in addition to the four air-speed stages, of High, Medium 1, Medium 2, and Low. Air speed can be changed freely according to the difference between set temperature and room temperature. The automatic air-speed adjustment mode offers quick cooling of a room in High mode, such as when starting cooling operation. After the room temperature is stabilized, the system switches to Low mode automatically to maintain comfort.



Automatic Grille Lowering Function (Optional)

Easy to use/Simple maintenance

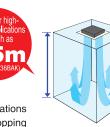
An automatic grille lowering function capable of stopping at eight different heights is available to simplify filter maintenance.



(comes with the automatic elevation panel)

Wide-flow Air Outlet

The high-power ceiling cassettes offer a wide-flow air outlet that enables effective air conditioning of rooms with atrium ceilings up to 4.5m in height. The



demands of high-ceiling applications such as halls, showrooms or shopping malls can now be fully answered thanks to this powerful, yet highly efficient airflow.

Specification	according to	ceiling	height

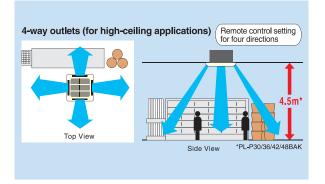
		PL-P36/P42/48BAK	
	Low ceiling*	Standard	High ceiling
4-way	2.7	3.2	4.5

Vane Control

For Shopping Malls

Wide airflow coverage down to the floor even in expansive spaces like large factory-outlet centers or shopping malls with high ceilings.

The unique airflow design of the powerful ceiling-cassette models reduces pressure loss and provides wide cool-air coverage from high ceilings to the floor even in expansive spaces like shopping malls with ceilings over 4m in height.



Energy-efficient Control



Air conditioner operation restricted to a specified operating range

Set the upper and lower limits for the temperature range during operation. Excessive cooling is prevented, leading to increased energy savings.

Slim Body Height

1.6m

2 0m

2.8m

3.2m

3.6m

4 0m

(Unit: m)

Ceiling cassette models boast a slim body height for smooth and aesthetic installation, even in narrow spaces.



Quiet Operation

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

Optional

Power flow fan

Other Features

- Automatic Vane Shutter
- Wireless remote controller available
- Automatic Grille Lowering Funtion (Optional)
- i-see Sensor (Optional Corner Panel)

Drain Water Lifting Mechanism

A high-performance drain pump on the drain water lifting mechanism allows the drain water pipe to be routed as high as 850mm from the ceiling surface.



Handy Corner Pocket Design Simplifies Maintenance

By using the handy pockets equipped on the four corners of the grille, maintenance work such as drain pan cleaning and height adjustments can be accomplished without removing the grille.



Bacteria- and Mold-resistant Specifications

Mitsubishi Electric filters are bacteria-resistant, and the drain pans are designed to prevent the growth of mold for fresh and pleasant air conditioning at all times.

Specifications

Models				PL-P36BAK	PL-P42BAK	PL-P48BAK		
Cooling	Capacity*1		kW	10.4	12.4	13.2		
Cooling	Capacity 1		BTU/h	35,500	42,300	45,000		
Total In	put*2		kW	3.37	5.54	5.25		
EER			W/W	3.59	2.24	2.51		
	Power Supply			1ph 220-240V 50Hz	1ph 220-	240V 50Hz		
	External Finish			Munsell 6.4Y 8.9/0.	6.4Y 8.9/0.4			
			CMM	20-24-27-30	24-26	5-29-32		
	(low-mid2-mid1-high)		CFM	705-850-955-1060	850-920-1025-1130	850-920-1025-1130		
Indoor unit	External Static Pressu	ire	ра	0 (directblow)	0 (dir	ectblow)		
uniit	Operation Control			Wireless Remote control	Wireless R	lemote control		
	Noise Level (low-mid2-mid1-l	nigh)	dB (A)	33-37-40-43	38-4	0-42-45		
	Unit Drain Pipe (Outer Diameter) mm				O.D.32			
	Dimensions (Panel)	W	mm	840 (950)	840 (950)	840 (950)		
		D	mm	840 (950)	840 (950)	840 (950)		
		Н	mm	298 (35)	298 (35)	298 (35)		
	Weight (panel)		kg	25 (6)	27 (6)	27 (6)		
	Model name			PU-P36YAKD	PU-P42YAKD	PU-P48YAKD		
	Power supply			3ph 380-4	3ph 380-415V 50Hz			
	External finish			Munsell 3.	Munsell 3.0Y 7.8/1.1			
	Refrigerant							
	Airflow		CMM (CFM)	95(3350)	100(3530)	90(3180)		
Dutdoor	Noise level		dB (A)	54	56	56		
unit		W	mm	870	970	970		
	Dimensions	D	mm	295	345	345		
		Н	mm	1258	1258	1258		
	Weight		kg	85	108	114		
	Max. height difference	•	m	30	30	30		
	Max. piping length		m	30	40	50		
	Pipe size (outer diame	ter)	mm	Liquid: 9.52, Gas: 15.88	Liquid: 9.52, Gas: 15.88	Liquid: 9.52, Gas: 15.88		
Guaran	teed Operating Range	Upp	er limit(DBt)		45			
Guaran	leeu Operalling hange	Low	er limit(DBt)	21	20	21		

*1 Rating conditions Colling-Indoor: 27°C (80°F) DB, 19°C (66°F) WB, Outdoor: 35°C(95°F) DB Refrigerant piping length (one-way): 7.5m (25ft)
*2 Total input based on the indicated voltage (indoor/outdoor): 1ph 230v 50Hz / 3ph 400v 50Hz

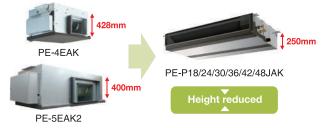


Ceiling concealed (PE-P Series)

The thin, ceiling-concealed indoor units of the PE-P series are the perfect answer for the air-conditioning requirements of buildings with minimum ceiling installation space and wide-ranging external static pressure.

Compact Indoor Units

The unit height is unified to 250mm for all models. Compared to the pre vious models, the height has been reduced, allowing easy installation in tight spaces such as ceiling cavities or drop-ceilings.



Wide Selection of External Static Pressure

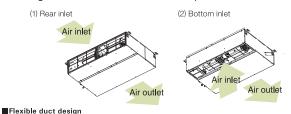
Three-stage external static pressure conversions are available. Capable of being set to a maximum of 70Pa, these units are appropriate for a wide range of building types.

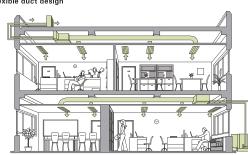
Features at a glance

Installation & Maintenance	Comfort	Others
 Chargeless system 	 Computerized dehumidifier 	 System control
 Smooth installation 	Quiet operation	Auto restart
 Self-diagnostic function 		 Outdoor unit max.
		operating temp. of 46°C

Air Inlet

Units with bottom inlets make more noise than those with rear inlets. It is recommended that the rear inlet be selected when installing a unit in a room that has to be quiet, such as a bedroom.





External static pressure setting

Series	18	24	30	36	42	48
PE-P-JAK	30/5	0Pa		30/50	/70Pa	

Specifications

/lode l s				PE-P18JAK	PE-P24JAK	PE-P30JAK	PE-P36JAK	PE-P42JAK	PE-P48JAK		
ooling o	capacity		kW	5.1	6.3	8.3	10.4	12.4	13.5		
Cooling capacity BTU/h			BTU/h	17,400	21,500	28,300	35,500	42,300	46,000		
otal input kW			kW	1.74	2.22	2.91	3.52	5.64	5.44		
ER W/W		W/W	2.93	2.84	2.85	2.95	2.2	2.48			
	Power supply			1ph 220-240V 50Hz							
	External finish				Galvanized sheets						
	Airflow (low-high)		CMM	17.5-27	17.5-27	24-34	24-34	28-42	28 - 42		
	Annow (low-nigh)		CFM	618-953	618-953	847-1,200	847-1,200	988-1,482	988-1482		
Indoor unit	External static pressure* Pa		Pa	30-50	30-50	30-50-70	30-50-70	30-50-70	30-50-70		
	Operation control				•	Remote control	•		-		
	Noise level (low-high) dB (A)			30-38	30-38	34-45	34-45	36-45	36 - 45		
	Unit drain pipe		mm	O.D. 32	O.D. 32	O.D. 32	O.D. 32	O.D. 32	O.D. 32		
	Dimensions	W	mm	1,100	1,100	1,400	1,400	1,400	1,400		
		D	mm	732	732	732	732	732	732		
		н	mm	250	250	250	250	250	250		
	Weight		kg	29	29	38	38	38	38		
	Model name			PU-P18VAKD	PU-P24VAKD	PU-P30VAKD	PU-P36YAKD	PU-P42YAKD	PU-P48YAKI		
	Power supply			1ph 220-240V 50Hz 3ph 380-415V 5							
	External finish			Munsell 3.0Y 7.8/1.1							
	Refrigerant			R410A							
	Airflow		CMM (CFM)	31(1095)	53(1871)	50(1765)	95(3350)	100(3530)	90(3,180)		
	Noise level		dB (A)	51	54	55	54	56	56		
utdoor		W	mm	800	840	840	870	970	970		
	Dimensions	D	mm	285	330	330	295	345	345		
		н	mm	550	880	880	1258	1258	1258		
	Weight		kg	36	56	72	85	108	114		
	Max. height difference		m	1	0	15	5	30 30			
	Max. piping length		m		2	24		40	50		
	Pipe size (outer diameter) mm		mm	Liquid: 6.35 Gas: 12.7	Liquid: 6.35 Gas: 15.88	Liquid: 9.52 Gas: 15.88		Liquid: 9.52 Gas: 15.88			
Suores	tood Operating Paper	Upp	er limit (DB)				45				
Guaranteed Operating Range			er limit (DB)				21				

Rating conditions Cooling - Indoor: 27°F (80°F) DB,19°F (66°F) WB, Outdoor: 35°F (95°F) DB

Refrigerant piping length (one-way): 7.5m(25ft)

Specifications subject to change without notice.



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E-waste Collection & Disposal process:

Customer can get complete details of company process on collection, disposal of e-waste product (i.e. 'Mitsubishi Electric' make Air Conditioner) and incentive / exchange scheme for returning of e-waste on Company website www.mitsubishielectric.in or call on Toll free number 1800 102 2626.

