PLA SERIES

PLA-SM71/100/125/140

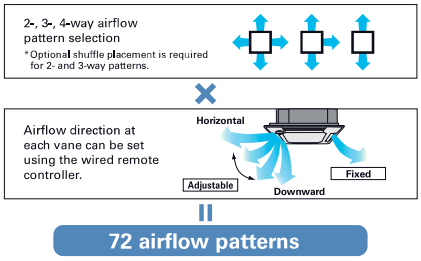
A complete line-up including deluxe units that offer added energy savings. The synergy of higher energy efficiency and more comfortable room environment results in the utmost user satisfaction.

Optimum Airflow

Individual Vane Settings

Optimum airflow settings provide maximum comfort throughout the room.

In addition to the selection of variable airflow patterns (i.e., 2-, 3- or 4-way), this function allows the independent selection of vertical airflow levels for each vane, thereby maintaining a comfortable room environment with even temperature distribution.



Wide Airflow

Wide-angle outlets distribute airflow to all corners of the room.

The outlets are larger than those of previous models and the shape has been improved for better wide-angle ventilation.

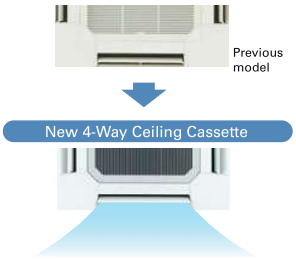
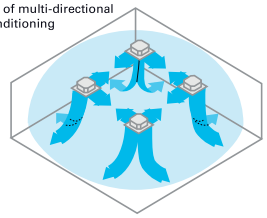


Image of multi-directional air conditioning



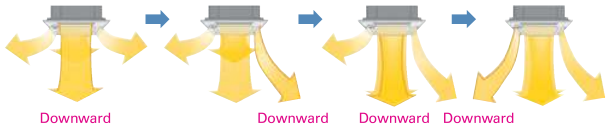
Individual Vane Setting + Wide Airflow

The combination of individual vane setting, which enables the optimal outlet setting for each room layout, and the wide airflow function works to ensure even temperature distribution throughout each room. The result is uniformly comfortable air conditioning.

Wave Airflow –Thoroughly warming all corners of the room!

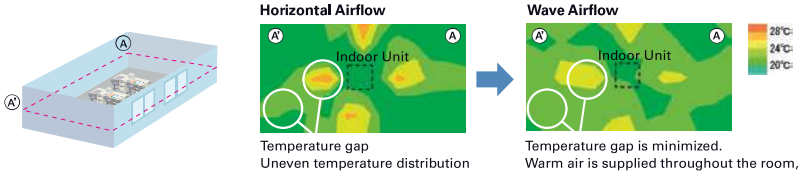
Wave Airflow Operation

"Wave Airflow" is essentially the advanced control of the vanes directing the airflow from the unit. Blown-air is repeated dispersed from the unit in horizontal and downward directions at time-lagged intervals to provide uniform heating throughout the room.



] Wave Airflow is possible only when using the heating mode

Thermograph of Wave Control Effect



Temperature distribution comparison approximately 20min after turning on a PLA-SP71BA 4-Way ceiling cassette. The measurement point for comparison is a plane 1.2m above the floor.

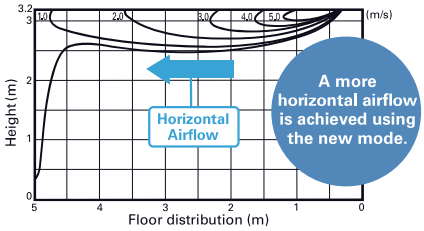
Horizontal Airflow

A "Horizontal Airflow" function has been added to reduce drafty-feeling distribution. Horizontal Airflow prevents cold drafts from striking the body directly, thereby keeping the body from becoming over-chilled.

[Airflow Distribution]

PLA-SM125EA

Flow angle, cooling at 20°C (ceiling height 3.2m)



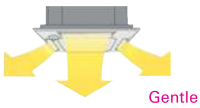
✻ Smudge spots on the ceiling may form where the airflow is not evenly distributed.

Automatic Air-speed Adjustment

An automatic air-speed mode that adjusts airflow speed automatically is adopted to maintain comfortable room conditions at all times. This setting automatically adjusts the air-speed to conditions that match the room environment.

At the start of heating/cooling operation, the airflow is set to high-speed to quickly heat/cool the room.

When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable comfortable heating/cooling operation.



New Outdoor Units

Mitsubishi Electric introduces a new model of outdoor units for PUHZ-SP, less than one meter high. The unit is available in sizes 12,5/14 kW 1-phase and 10/12,5/14 kW 3-phase.
This new one-fan chassis allows for great flexibility and reduced impact of the unit on sight.

Dispite reduced dimensions capacity and **piping lenght is the same:**

- Max piping length: 40m (30m for 100)
- Max vertical difference: 30m

PUHZ-SP125/140VKA
PUHZ-SP100/125/140YKA

Also, model PUHZ-SP140V/YKA allows for Free Compo Twin connection:

Only PUHZ-SP140V/YKA

PLA-SM71

2x

PEAD-SM71

Joints:
Twin: MSDD-50TR2-E NEW

OU Capacity	Twin
	50:50
140	71:2

PLA SERIES SERIES SELECTION

Indoor Unit

PLA-SM71/100/125/140EA

Outdoor Unit

SUZ-SA71VA3
SUZ-SA100VA2

PUHZ-SP125/140VKA
PUHZ-SP100/125/140YKA

Optional

PLP-6EA - Panel only
PLP-6EAL - Panel with signal receiver
PLP-6EALM - Panel with signal receiver and wireless remote controller

PAR-40MAA
DELUXE

PAC-YT52CRA

PAR-SL100A*

*Enclosed with PLP-6EALM

PLA SERIES

Type				Inverter Heat Pump						
Indoor Unit				PLA-SM71EA	PLA-SM100EA		PLA-SM125EA		PLA-SM140EA	
Outdoor Unit				SUZ-SA71VA3	SUZ-SA100VA2	PUHZ-SP100YKA	PUHZ-SP125VKA	PUHZ-SP125YKA	PUHZ-SP140VKA	PUHZ-SP140YKA
Refrigerant				R410A(*1)						
Power Supply	Source			Outdoor unit power supply						
	Outdoor (V / Phase / Hz)			VA · VKA:230 / Single / 50, YKA:400 / Three / 50						
Cooling	Capacity	Rated	kW	7,1	9,4	9,4	12,1		13,6	
		Min-Max	kW	3,2-8,1	5-9,9	3.7-10.6	5.6-13.0		5.8-14.1	
	Total Input	Rated	kW	2,218	3,122	3,29	4,24		5,64	
	EER			3,20	3,01	2,85	2,85		2,41	
	EEL Rank			-	-	-	-		-	
	Design load		kW	7,1	9,4	9,4	12,1		13,6	
	Annual electricity consumption (*2)		kWh/a	421	576	576	1360		1531	
	SEER			5,9	5,7	5,7	210,6%		210,1%	
	Energy efficiency class			A+	A+	A+	-		-	
Heating (Average Season)	Capacity	Rated	kW	8,0	11,2	11,2	13,5		15	
		Min-Max	kW	3,5-8,9	5,1-11,5	2,8-12,5	4.8-15.0		4.9-15.8	
	Total Input	Rated	kW	2,49	3,48	3,48	3,95		4,82	
	COP			3,21	3,21	3,21	3,41		3,11	
	EEL Rank			-	-	-	-		-	
	Design load		kW	6,0	8,0	8,0	8,5		9,4	
	Declared Capacity	at reference design temperature	kW	5,2(-10°C)	5,9(-10°C)	6.3(-10°C)	8.5(-10°C)		9.4(-10°C)	
		at bivalent temperature	kW	5,4(-7°C)	7,1(-7°C)	7.0(-7°C)	8.5(-10°C)		9.4(-10°C)	
		at operation limit temperature	kW	5,2(-10°C)	5,9(-10°C)	4.5(-15°C)	6.0(-15°C)		7.0(-15°C)	
	Back up heating capacity		kW	0,8	2,1	1,7	0		0	
	Annual electricity consumption (*2)		kWh/a	2081	2685	2727	3110		3436	
	SCOP			3,9	4,1	4,1	150,1%		150,2%	
	Energy efficiency class			A	A+	A+	-		-	
	Operating Current (Max)		A	16,4	16,6	12,0	27,2	12,2	30,7	12,2
Indoor Unit	Input	Rated	kW	0,04	0,07	0,07	0,10	0,10	0,10	0,10
	Operating Current(Max)		A	0,27	0,46	0,46	0,66	0,66	0,66	0,66
	Dimensions <Panel>	H*W*D	mm	258x840x840<40x950x950>			298x840x840<40x950x950>			
	Weight <Panel>		kg	21<5>	24<5>		26<5>			
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min	14-17-19-21	19-23-26-29		21-25-28-31		24-26-29-32	
	Sound Level (SPL) (Lo-Mi2-Mi1-Hi)		dB(A)	28-30-32-34	31-34-37-40		33-37-41-44		36-39-42-44	
	Sound Level (PWL)		dB(A)	56	61		65		65	
Outdoor Unit	Dimensions	H*W*D	mm	880x840x330			981x1050x330			
	Weight		kg	52	56	78	84	85	84	85
	Air Volume	Cooling	m³/min	50,1	53,57	79	86		86	
		Heating	m³/min	48,2	53,71	-	-		-	
	Sound Level (SPL)	Cooling	dB(A)	55	55	51	54		56	
		Heating	dB(A)	55	55	54	56		57	
	Sound Level (PWL)	Cooling	dB(A)	69	69	70	72		75	
	Operating Current(Max)		A	16,1	16,1	11,5	26,5	11,5	30	11,5
	Breaker Size		A	20	20	16	32	16	40	16
Ext. Piping	Diameter	Liquid/Gas	mm	9.52 / 15.88						
	Max.Length	Out-In	m	30			40			
	Max.Height	Out-In	m	30						
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46			-15 ~ +46			
		Heating	°C	-10 ~ +24			-15 ~ +24			
Refrigerant/GWP				R410A/2088(*4)						
Pre-Charged quantity		Weight	kg	1,8	2,2	3,3	3,8	3,8	3,8	3,8
		CO_2 equivalent	t	3,76	4,59	6,89	7,93	7,93	7,93	7,93
Max added quantity		Weight	kg	2,95	3.35	3,9	4,4	4,4	4,4	4,4
		CO_2 equivalent	t	6,16	6,99	8,14	9,19	9,19	9,19	9,19

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO 2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
(*2) Energy consumption based on standard test results.Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) Optional air protection guide is required where ambient temperature is lower than -5°C.

PLA-SM SERIES NOVITÀ

SERIES SELECTION

Indoor Unit

PLA-SM71/100/125/140EA

Outdoor Unit

SUZ-SM71VA

PUZ-SM100/125/140VKA
PUZ-SM100/125/140YKA

Optional

PLP-6EAJ - Panel only
PLP-6EALM - Panel with signal receiver and wireless remote controller

PAR-40MAA
DELUXE

PAC-YT52CRA

PAR-SL100A*

*Enclosed with PLP-6EALM

PLA-SM SERIES

Type				Inverter Heat Pump						
Indoor Unit				PLA-SM71EA	PLA-SM100EA		PLA-SM125EA		PLA-SM140EA	
Outdoor Unit				SUZ-SM71VA	PUZ-SM100VKA	PUZ-SM100YKA	PUZ-SM125VKA	PUZ-SM125YKA	PUZ-SM140VKA	PUZ-SM140YKA
Refrigerant				R32(*1)						
Power Supply	Source			Outdoor power supply						
	Outdoor (V / Phase / Hz)			VA - VKA:230 / Single / 50, YKA:400 / Three / 50						
Cooling	Capacity	Rated	kW	7,1	9,5	9,5	12,1		13,4	
		Min-Max	kW	2,2-8,1	4,0-10,6	4,0-10,6	5,8-13,0		5,8-14,1	
	Total Input	Rated	kW	1,97	2,79	2,79	4,17		5,13	
	EER			3,6	3,4	3,4	2,9		2,61	
	EEL Rank			-	-	-	-		-	
	Design load		kW	7,1	9,5	9,5	12,1		13,4	
	Annual electricity consumption (*2)		kWh/a	410	554	554	-		-	
	SEER			6	6	6	-		-	
	Energy efficiency class			A+	A+	A+	-		-	
Heating (Average Season)	Capacity	Rated	kW	8	11,2	11,2	13,5		15	
		Min-Max	kW	2,0-10,2	2,8-12,5	2,8-12,5	4,1-15,0		4,2-15,8	
	Total Input	Rated	kW	2,28	3,1	3,1	3,73		4,54	
	COP			3,5	3,61	3,61	3,61		3,3	
	EEL Rank			-	-	-	-		-	
	Design load		kW	5,8	8	8	8,5		9,4	
	Declared Capacity	at reference design temperature	kW	5,2 (-10°C)	6,0 (-10°C)	6,0 (-10°C)	8,5 (-10°C)		9,4 (-10°C)	
		at bivalent temperature	kW	5,2 (-7°C)	7,0 (-7°C)	7,0 (-7°C)	8,5 (-10°C)		9,4 (-10°C)	
		at operation limit temperature	kW	5,2 (-10°C)	4,5 (-15°C)	4,5 (-15°C)	6,0 (-15°C)		7,0 (-15°C)	
	Back up heating capacity		kW	0,6	2	2	0		0	
	Annual electricity consumption (*2)		kWh/a	2066	2482	2482	-		-	
	SCOP			3,9	4,5	4,5	-		-	
	Energy efficiency class			A	A+	A+	-		-	
Operating Current (Max)			A	15,1	20,5	12,5	27,2	12,2	30,7	12,2
Indoor Unit	Input (cooling/heating)	Rated	kW	0,04	0,07	0,07	0,1	0,1	0,1	0,1
	Operating Current (Max)		A	0,27	0,46	0,46	0,66	0,66	0,66	0,66
	Dimensions <Panel>	HxWxD	mm	258x840x840<40x950x950>	298x840x840<40x950x950>					
	Weight <Panel>		kg	21<5>	24<5>		26<5>			
	Air Volume (Lo-Mid-Hi)		m³/min	14-17-19-21	19-23-26-29		21-25-28-31		24-26-29-32	
	Sound Level (Lo-Mid-Hi) (SPL)		dB(A)	28-30-32-34	31-34-37-40		33-37-41-44		36-39-42-44	
	Sound Level (PWL)		dB(A)	56	61		65		65	
Outdoor Unit	Dimensions	HxWxD	mm	880x840x330	981x1050x330 (+40)					
	Weight		kg	55	56	78	84	85	84	85
	Air Volume	Cooling	m³/min	50,1	53,57	79	86		86	86
		Heating	m³/min	50,1	53,71	-	-		-	-
	Sound Level (SPL)	Cooling	dB(A)	49	55	51	54		56	56
		Heating	dB(A)	51	55	54	56		57	57
	Sound Level (PWL)	Cooling	dB(A)	66	69	70	72		75	75
	Operating Current (Max)		A	14,8	16,1	11,5	26,5	11,5	30	11,5
	Breaker Size		A	20	20	16	32	16	40	16
Ext. Piping	Diameter	Liquid/Gas	mm	9,52 / 15,88						
	Max. Length	Out-In	m	30			40			
	Max. Height	Out-In	m	30						
Guaranteed Operating Range (Outdoor)		Cooling	°C	-15 ~ +46						
		Heating	°C	-10 ~ +24	-15 ~ +21					
Refrigerant/GWP				R32/675(*4)						
Pre-Charged quantity		Weight	kg	1,45	3,1	3,1	3,6	3,6	3,6	3,6
		CO_2 equivalent	t	0,98	2,09	2,09	2,43	2,43	2,43	2,43
Max added quantity		Weight	kg	2,37	4,1	4,1	5	5	5	5
		CO_2 equivalent	t	1,6	2,77	2,77	3,38	3,38	3,38	3,38

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less te global warming than a refrigerant with higher GWP, if leaked te the atmosphere. This appliance contains a refrigerant fluid with a GWP equal te 1975. This means that if 1 kg of this refrigerant fluid would be leaked te the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO 2, aver a period of 100 years. Never try to interiere with the refrigerant circuit yourself or disassemble the produci yourself and always ask a professional.
(*2) Energy consumption based on standard test results.Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) Optional air protection guide is required where ambient temperature is lower than -5°C.
(*4) This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition,