MITSUBISHI ELECTRIC

LIVING ENVIRONMENTAL SYSTEMS

Changes for the Better

Mitsubishi Electric Quality

Wrap Yourself in Comfort and Quiet
Eco-conscious Technologies from Japan

Product Line Catalogue 2015 Addendum

for a greener tomorrow eco Changes

M

SERIES

MSH-GF SERIES

MSH-GF25/35VA

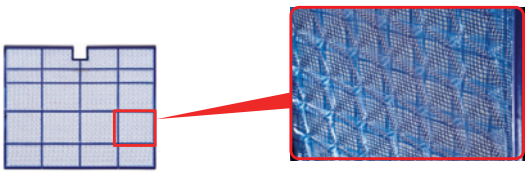
MSH-GF50/60/80VA

The unique product series: The perfect combination of cooling and heating capability. MSH-GF series, featuring Easy Clean Design and a highly effective Nano Platinum air purifying system, brings the most comfort to your room. Furthermore, the perfect combination of cooling and heating capability in a deluxe unit so much saves your investment expense.

Nano Platinum Filter

Nano Platinum

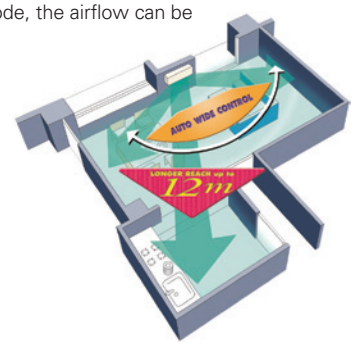
The filter incorporates nanometre-sized platinum-ceramic particles that generate stable antibacterial and deodourising effects.
The size of the three-dimensional surface has been increased as well, enlarging the filter capture area.
These features give the Nano Platinum Filter better dust collection performance than conventional filters. The superior air-cleaning effectiveness raises room comfort yet another level.



✻ It is okay to wash the filter with water

Wide & Long Airflow (50-80)

Bringing extra comfort to your life, left-right vane can be automatically controlled by remote controller. Simply use of Wide-vane mode, you can easily adjust direction of airflow to reach any corner of the room.
The high-power motor combines with a new designed "Long mode" to push air out further, provinding an extended airflow that can reach the far end of the long living rooms or reach the kitchen in open-concept living areas and studios.
When operating in Long mode, the airflow can be extended as far as 12 m.



Air flow reaches up to 12m.

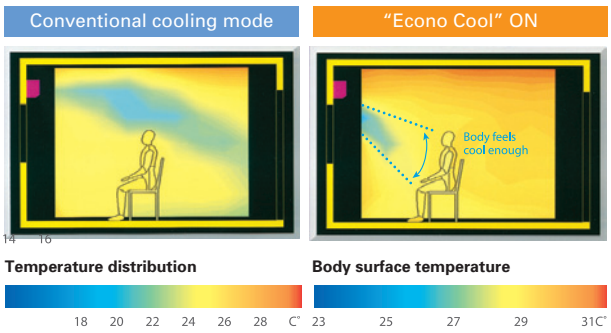
Temperature range Mitsubishi environmental laboratory test results

14 16 18 20 22 24 26 28

Econo Cool - smart save

Econo Cool

The Econo Cool one touch operation automatically adjusts the direction of airflow based on the temperature at the air outlet. The set temperature can therefore be 2 °C above conventional temperature settings without loss of comfort and with a 20% increase in energy efficiency.
Ensures greater comfort even when the temperature setting is 2 °C above conventional settings.



Ensures more comfort even when the set temperature is 2°C higher than the conventional cooling mode.

	Conventional	Econo Cool
Ambient temperature	35°C	35°C
Set temperature	25°C	27°C
Perceived temperature	30°C	29.3°C

Heat Down to -10°C

The granted heating operation range has -10 °C as lower limit.

Cool up to +46°C

Cooling operation up to +46°C for all MSH-GF serie.

MSH-GF SERIES SERIES SELECTION

Indoor Unit

MSH-GF25/35VA

MSH-GF50/60/80VA

Outdoor Unit

MUH-GF25/35/50VA

MUH-GF60/80VA

Remote Controller

MSH-GF SERIES

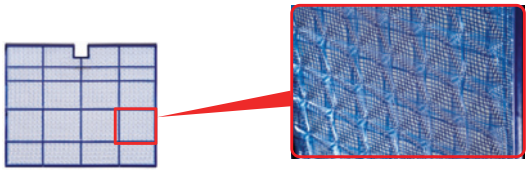
Type				Fixed-Speed - Heat Pump				
Indoor Unit				MSH-GF25VA	MSH-GF35VA	MSH-GF50VA	MSH-GF60VA	MSH-GF80VA
Outdoor Unit				MUH-GF25VA	MUH-GF35VA	MUH-GF50VA	MUH-GF60VA	MUH-GF80VA
Refrigerant				R410A				
Power Supply	Source			Outdoor Power Supply				
	Outdoor (V / Phase / Hz)			230 V/ Single / 50				
Cooling	Capacity	Rated	kW	2,65	3,40	4,90	6,20	7,70
		Min-Max	kW	-	-	-	-	-
	Total Input	Rated	kW	0,82	1,07	1,77	2,00	2,80
	EER			3,23	3,18	2,77	3,10	2,75
	SPL	Indoor Unit (Low/High)	dBA	25 - 36	26 - 40	34 - 42	37 - 45	39 - 47
Heating	Capacity	Rated	kW	3,00	3,70	5,10	6,70	8,50
		Min-Max	kW	-	-	-	-	-
	Total Input	Rated	kW	0,82	1,08	1,50	2,10	2,82
	COP			3,66	3,43	3,40	3,19	3,01
	SPL	Indoor Unit (Low/High)	dBA	25 - 36	26 - 40	37 - 45	34 - 45	37 - 47
Operating Current (Cool)			A	3,9	4,8	8,1	9,1	12,6
Operating Current (Heat)			A	3,9	5,0	6,9	9,5	12,7
Indoor Unit	Dimensions	HxWxD	mm	295 - 798 - 232	295 - 798 - 232	325 - 1100 - 238	325 - 1100 - 238	325 - 1100 - 238
	Weight		kg	9	9	16	16	16
	Air Volume	Indoor Unit (High)	m^3/min	7,9	8,8	14,1	16,7	18,7
Outdoor Unit	Dimensions	HxWxD	mm	550 - 800 - 285	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330	880 - 840 - 330
	Weight		kg	33	39	40	67	76
Ext. Piping	Diameter	Liquid/Gas	mm	6,35 / 9,52	6,35 / 9,52	6,35 / 12,7	6,35 / 15,88	9,52 / 15,88
	Max. Length	Out-In	m	20	25	30	30	30
	Max. Height	Out-In	m	10	10	10	10	15
Guaranteed Operating Range (Outdoor DryBulb)		Cooling	°C	21 ~ 46	21 ~ 46	21 ~ 46	21 ~ 46	21 ~ 46
		Heating	°C	-10 ~ 24	-10 ~ 24	-10 ~ 24	-10 ~ 24	-10 ~ 24

MS-GF SERIES

Expanded comfort: Benefical wide swing and long air-flow modes.
The new line-up available from Mitsubishi Electric, featuring a highly effective nano platinum air purifying system. Wide & Long operates very silently, fashionable interiors, making it the sensible choice for any room in the house. In addition, these models allow for comfortable airflow to extend to every corner of the room.

Nano Platinum Filter

The filter incorporates nanometre-sized platinum-ceramic particles that generate stable antibacterial and deodourising effects.
The size of the three-dimensional surface has been increased as well, enlarging the filter capture area.
These features give the Nano Platinum Filter better dust collection performance than conventional filters. The superior air-cleaning effectiveness raises room comfort yet another level.

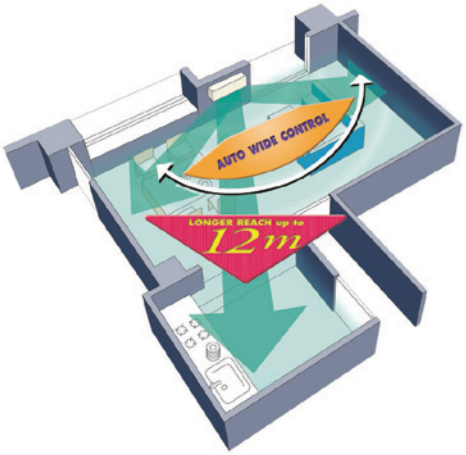


✻ It is okay to wash the filter with water (air-cleaning effect is maintained)

3D surface (Waved surface)

Wide & Long Airflow (24-30)

Bringing extra comfort to your life, left-right vane can be automatically controlled by remote controller. Simply use of Wide-vane mode, you can easily adjust direction of airflow to reach any corner of the room.
The high-power motor combines with a newly designed "Long mode" to push air out further, provinding an extended airflow that can reach the far end of the long living rooms or reach the kitchen in open-concept living areas and studios.
When operating in Long mode, the airflow can be extended as far as 12 m.



Extended Operating Range

As a result of an extended operating range when cooling, these models accommodate a wider range of usage environments and applications than previous models.

● **Operating Range** (Cooling)

MS-GF (24-30)	+21 [°C]	+52 [°C]

Air flow reaches up to 12m.

Temperature range Mitsubishi environmental laboratory test results

14 16 18 20 22 24 26 28

R22 COOLING

MS-GF SERIES SERIES SELECTION

Indoor Unit

MS-GF10/13/18VC

MS-GF24/30VC

Outdoor Unit

MU-GF10/13/18VC

MU-GF24VC

MU-GF30VC

Remote Controller

MS-GF 10/13/18

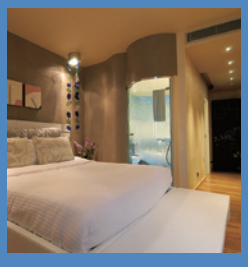
MS-GF 24/30

MS-GF SERIES

Type				Fixed - Speed				
Indoor Unit				MS-GF10VC	MS-GF13VC	MS-GF18VC	MS-GF24VC	MS-GF30VC
Outdoor Unit				MU-GF10VC	MU-GF13VC	MU-GF18VC	MU-GF24VC	MU-GF30VC
Refrigerant				R22				
Power Supply	**Source**			Indoor Power supply		Outdoor Power supply		
	V / Phase / Hz			230/Single/50				
Cooling	**Capacity**	Rated	kW	2,75	3,65	5,2	6,9	8,4
		Min-Max	kW	-	-	-	-	-
	Total Input	Rated	kW	0,85	1,24	1,79	2,64	3,1
	EER			3,24	2,94	2,91	2,61	2,71
	SPL	Indoor Unit [Lo-High]	dB(A)	26 - 39	29 - 42	33 - 48	37 - 45	37 - 45
Operating Current (Max)			A	3,9	5,7	8,6	11,7	14
Indoor Unit	**Dimensions**	HxWxD	mm	295 - 798 - 232	295 - 798 - 232	295 - 798 - 232	325 - 1100 - 238	325 - 1100 - 238
	Weight		kg	9	9	10	16	16
	Air Volume	Indoor Unit (High)	m^3/min	9,1	9,6	13,7	17,1	17,1
Outdoor Unit	**Dimensions**	HxWxD	mm	525 - 718 - 255	525 - 718 - 255	525 - 718 - 255	605 - 850 - 290	880 - 840 - 330
	Weight		kg	24	28,5	34	51	71
Ext. Piping	**Diameter**	Liquid/Gas	mm	6,35 / 9,52	6,35 / 12,7	6,35 / 12,7	6,35 / 15,88	9,52 / 15,88
	Max.Length	Out-In	m	20	20	30	30	30
	Max.Height	Out-In	m	10	10	10	10	15
Guaranteed Operating Range (Outdoor)		Cooling	°C	+21 ~ +43	+21 ~ +43	+21 ~ +43	+21 ~ +52	+21 ~ +52

P

SERIES



PLA SERIES

PLA-SP71/100/125/140

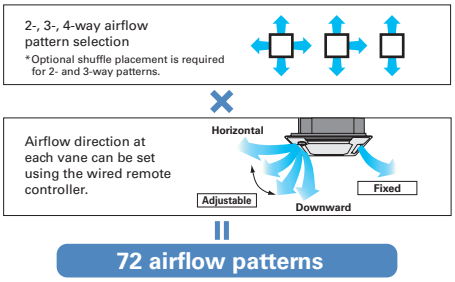
The incorporation of wide air-outlet and the "i-see Sensor" enhances airflow distribution control, achieving an enhanced level of comfort throughout the room. The synergy of higher energy efficiency and more comfortable room environment results in the utmost user satisfaction.

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.

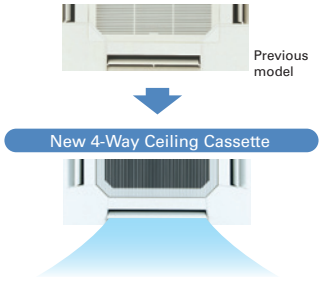
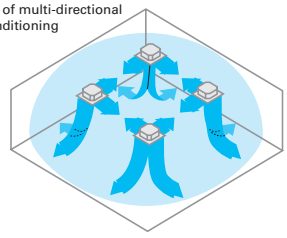


Image of multi-directional air conditioning



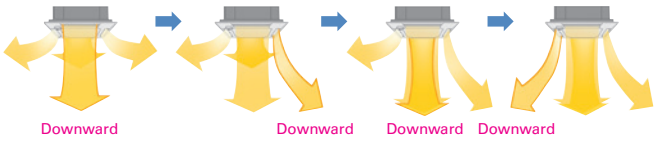
Individual Vane Setting + Wide Airflow

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!

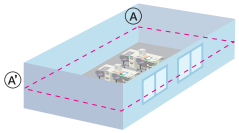
Wave Airflow Operation

"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

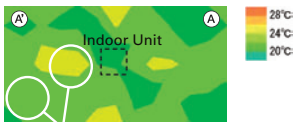
Thermograph of Wave Control Effect



Horizontal Airflow

Temperature gap
Uneven temperature distribution

Wave Airflow



Temperature gap is minimized.
Warm air is supplied throughout the room, minimizing uneven temperature distribution.

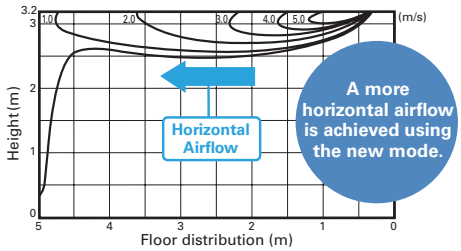
Temperature distribution comparison approximately 20min after turning on a PLA-SP71BA 4-Way ceiling cassette. The measurement point for comparison is a plane 1.2m above the floor.

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-SP125BA
Flow angle, cooling at 20°C (ceiling height 3.2m)

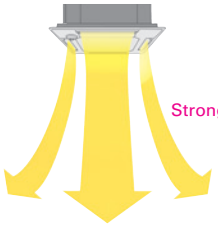


✻ Smudge spots on the ceiling may form where the airflow is not evenly distributed.

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.

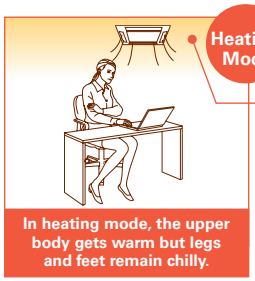
At the start of heating/cooling operation, the airflow is set to high-speed to quickly heat/cool the room.



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

DOES HAVING COLD FEET BOTHER YOU?

The "i-see Sensor" is the answer to your problems!



Even though the temperature on the remote controller is at a preset temperature, the temperature at floor level remains cold. As a result, there's no feeling of getting warmer.

At the beginning of operation, the room is nice and cool; but before long the temperature at floor level drops, causing the feeling of being too cold.

"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, i-see Sensor works to maximize room comfort.

■ i-see Sensor Panel

PLP-6BALME

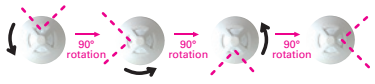
or

■ Corner Panel Only (Option)

PAC-SA1 ME-E

■ i-see Sensor Operation

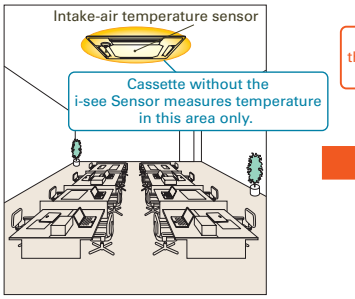
The i-see Sensor rotates 90° at intervals of 5 sec, accurately measuring the temperature throughout the room (covering entire floor space).

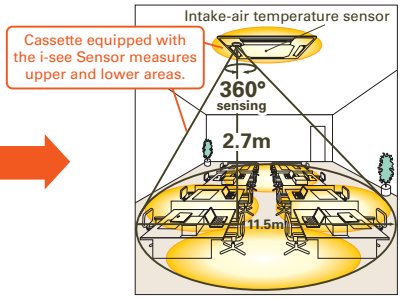


A comfortable room environment cannot be maintained by monitoring only the temperature at the ceiling.

Without "i-see Sensor"

Only intake-air temperature at the ceiling was measured, tending to overlook uneven temperature distribution at floor level.



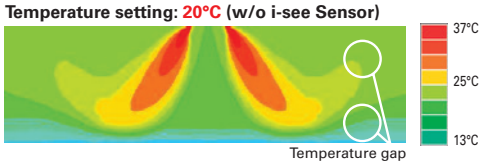


Equipped with 4-Way Ceiling "i-see Sensor"

Both the floor temperature and intake-air temperature are measured to provide operation that creates a comfortable room environment from ceiling to floor.

In Heating Mode — When you want the temperature felt to be 20°

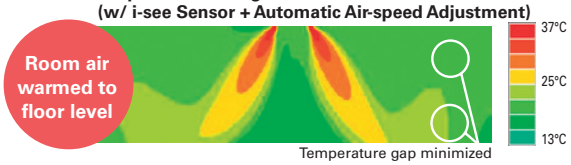
Temperature setting: 20°C (w/o i-see Sensor)



Temperature felt: 17°C (floor level 14°C)

Warm air rises to the ceiling. This causes poor heating at floor level, leaving legs and feet feeling cold.

Temperature setting: 20°C (w/ i-see Sensor + Automatic Air-speed Adjustment)



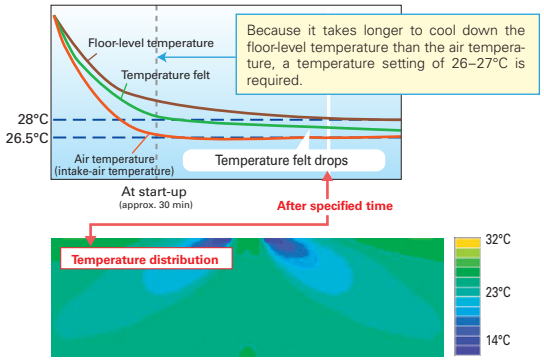
Temperature felt: 20°C (floor level 20°C)

The i-see Sensor detects the temperature at the floor while the Automatic Air-speed Adjustment eliminates uneven temperature distribution by thoroughly warming the air down to the floor.

In Cooling Mode — When you want the temperature felt to be 28°C

Comfortable without excess chilliness

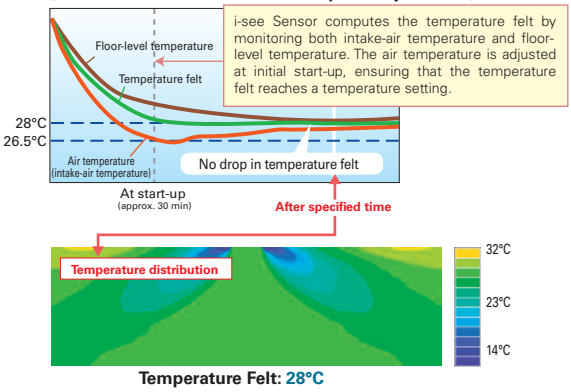
Temperature setting: 26–27°C (w/o i-see Sensor)



Temperature felt: 26.5°C

The temperature felt drops according to the drop in floor-level temperature. If the floor-level temperature is not monitored during long cooling operation, the temperature felt becomes chilly.

Temperature setting: 28°C (w/ i-see Sensor + Automatic Air-speed Adjustment)



Temperature Felt: 28°C

Air temperature is adjusted according to the floor temperature to keep the temperature felt at 28°C.

PLA SERIES SERIES SELECTION

Indoor Unit

PLA-SP71/100/125/140

Outdoor Unit

SUZ-SA71VA2
SUZ-SA100VA

PUHZ-SP100YHA

PUHZ-SP125/140VHA/YHA

Optional

PLP-6BA - Panel only
PLP-6BALM - Panel with wireless remote controller
PLP-6BALME - Panel with i-see Sensor + wireless remote controller

PAR-31MAA
DELUXE

PAC-YT52CRA

PAR-SL97A-E

PLA SERIES

Type				Inverter Heat Pump				
Indoor Unit				PLA-SP71BA	PLA-SP100BA	PLA-SP100BA	PLA-SP125BA	PLA-SP140BA
Outdoor Unit				SUZ-SA71VA2	SUZ-SA100VA	PUHZ-SP100YHA	PUHZ-SP125VHA (YHA)	PUHZ-SP140VHA (YHA)
Refrigerant				R410A *1				
Power Supply	Source			Outdoor power supply				
	Outdoor (V / Phase / Hz)			V: 230 / Single / 50 / (Y: 400/Three/50)				
Cooling	Capacity	Rated	kW	7,1	9,4	9,4	12,3	13,0
		Min-Max	kW	2.8 - 8.1	-	4.9 - 9.9	5.5 - 13.0	5.5 - 14.0
	Total Input	Rated	kW	2.21	3,12	3,12	4,08	4,98
	EER			3,19	3,01	3,01	3,01	2,61
	Design load		kW	7,1	9,4	9,4	-	-
	Annual electricity consumption *2		kWh/a	443	641	644	-	-
	SEER			5,6	5,1	5,1	-	-
		Energy efficiency class		A+	A	A	-	-
Heating (Average Season)	Capacity	Rated	kW	8,0	11,2	11,2	13,5	15,5
		Min-Max	kW	2.6 - 8.9	-	4.5 -11.5	5.0 - 15.0	5.0 - 17.0
	Total Input	Rated	kW	2,49	3,49	3,49	4,0	4,0
	COP			3,21	3,21	3,21	3,4	3,2
	Design load		kW	5,8	8,0	8	-	-
	Declared Capacity	at reference design temperature	kW	4.7 (-10°C)	5,9 (-10°C)	6.3 (-10°C)	-	-
		at bivalent temperature	kW	5.2 (-7°C)	7,1 (-7°C)	7.1 (-7°C)	-	-
		at operation limit temperature	kW	4.7 (-10°C)	5,9 (-10°C)	5.0 (-15°C)	-	-
	Back up heating capacity		kW	1,1	2,1	1,7	-	-
	Annual electricity consumption *2		kWh/a	2073	2930	2945	-	-
	SCOP			3,9	3,8	3,8	-	-
		Energy efficiency class		A	A	A	-	-
Operating Current (Max)			A	16,6	nd	13,9	29 (14)	30,5 (14)
Indoor Unit	Input	Rated	kW	0,07	0,14		0,15	0,2
	Operating Current (Max)		A	0,51	0,94		1	1,0
	Dimensions (Panel)	HxWxD	mm	258-840-840 <35-950-950>		298-840-840 <35-950-950>		298-840-840 <35-950-950>
	Weight		kg	23 <6>		25 <6>	25 <6>	27 <6>
	Air Volume (Lo-Mi2-Mi1-HI)		m^3/min	14-16-18-21	20-23-26-30		22-25-28-31	24-26-29-32
	Sound Level (SPL) (Lo-Mi2-Mi1-Hi)		dB(A)	28-30-32-34	32-34-37-40		34-36-39-41	36-39-42-44
	Sound Level (PWL)		dB(A)	56	62		63	70,0
Outdoor Unit	Dimensions	HxWxD	mm	880 - 840 - 330		943-950-330(+30)	1350-950-330(+30)	1350-950-330(+30)
	Weight		kg	53	53	77	99 (101)	99 (101)
	Air Volume	Cooling	m^3/min	50,1	nd	60,0	100	100
		Heating	m^3/min	48,2	nd	60,0	100	100
	Sound Level (SPL)	Cooling	dB(A)	55	nd	50,0	51	52
		Heating	dB(A)	55	nd	54,0	55	56
	Sound Level (PWL)	Cooling	dB(A)	69	69	70,0	71	73
	Operating Current (Max)		A	16,1	nd	13,0	28 (13)	29,5 (13)
	Breaker Size		A	20	nd	16	32 (16)	40 (16)
Ext. Piping	Diameter	Liquid/Gas	mm	9.52 / 15.88		9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max.Length	Out-In	m	30	30	30	40	40
	Max.Height	Out-In	m	30	30	30	30	30
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46		-15 ~ +46
		Heating	°C	-10 ~ +24	-10 ~ +24	-15 ~ +21		-15 ~ +21

*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.

PL SERIES

PL-2/2.5/3/4/5/6 BAK

The incorporation of wide air-outlet 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 the utmost user satisfaction.

Design uniformity improves installation flexibility

From the smallest 2HP unit to the largest 6HP model, ceiling cassettes offer a uniformly square 950 x 950 mm width and depth design. Thanks to the uniformity of the panel size, planning for the unit positioning in any room is enhanced and the installation of different capacity models within the same floor space is made possible.

Industry-leading levels of noise reduction

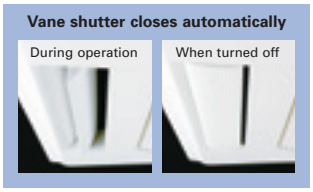
Reduced pressure loss through optimizing air passages, and use of a large-diameter Power Flow Fan realize an even higher level of silent operation.

Unit height of only 285 mm (PL-2/2.5/3)

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

Automatic vane shutter*

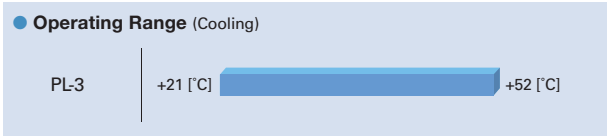
When the air conditioner is not operating, the vane shutter closes automatically to conceal the air outlet and create an aesthetically appealing flat surface.



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

Extended Operating Range (PL-3)

As a result of an extended operating range when cooling, these models accommodate a wider range of usage environments and applications than previous models.



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 in accordance with a difference between the set temperature and the room temperature. The automatic air speed adjustment mode offers quick cooling of a room in high mode, such as at the starting up of cooling operation. After the room temperature is stabilized, the low mode will be applied automatically to maintain comfort.

Low → Medium 2 → Medium 1 → High → Automatic air-speed adjustment

(When using the wireless remote controller, an extra setting is required.)

PL SERIES — SERIES SELECTION

Indoor Unit

PL-2/2.5/3/4/5/6BAK

Outdoor Unit

PU-2VAKD
PU-2.5VAKD

PU-3VAKD

PU-4V/YAKD
PU-5YAKD
PU-6YAKD

Panel Variety

PLP-6BAKLCM - Wireless remote control included (PAR-SL97A-E)
PLP-6BAKMD - Wired remore control included (PAR-21MAA)
PLP-6BAKJ - With elevation grille (without remote controller)

PAR-21MAA

PAR-SL97A-E

PL SERIES

Type				Fixed - Speed					
Indoor Unit				PL-2BAK	PL-2.5BAK	PL-3BAK	PL-4BAK	PL-5BAK	PL-6BAK
Outdoor Unit				PU-2VAKD	PU-2.5VAKD	PU-3VAKD	PU-4V/YAKD2	PU-5YAKD	PU-6YAKD
Refrigerant				R22					
Power Supply	Source			Indoor / Outdoor Separate Power Supply					
	V / Phase / Hz			230 / Single / 50	230 / Single / 50	230 / Single / 50	230 / Single / 50; 400 /Three / 50	400 / Three / 50	400 / Three / 50
Cooling	Capacity	Rated	kW	5,3	6,7	7,9	10,3	13,1	15
	Total Input	Rated	kW	1,96	2,36	3,34	(V)3,71 (Y) 3,64	4,35	5,38
	EER			2,70	2,84	2,37	(V) 2,78(Y) 2,83	3,01	2,79
Indoor Unit	Dimensions (Panel)	HxWxD	mm	258 x 840 x 840 <35 x 950 x 950>	258 x 840 x 840 <35 x 950 x 950>	258 x 840 x 840 <35 x 950 x 950>	298 x 840 x 840 <35 x 950 x 950>	298 x 840 x 840 <35 x 950 x 950>	298 x 840 x 840 <35 x 950 x 950>
	Weight (Panel)		kg	22 <6>	23 <6>	23 <6>	25 <6>	27 <6>	27 <6>
	Air Volume		m^3/min	12 - 13 -14 - 16	12 - 14 - 16 - 18	14 - 16 - 18 - 20	20 - 22 - 25 - 28	22 - 24 - 27 - 30	24 - 26 - 29 - 32
	External Static Pressure		Pa	0	0	0	0	0	0
	Sound Level		dB(A)	28-29-30-32	28-29-31-33	28-30-32-34	33-35-38-41	35-37-39-42	37-39-41-44
Outdoor Unit	Dimensions	HxWxD	mm	605 x 850 x 290	605 x 850 x 290	850 x 840 x 330	1258 x 870 x 295	1258 x 970 x 345	1258 x 970 x 345
	Weight		kg	45	52	69	83	111	112
	Air Volume	Cooling	m^3/min	38	39	49	95	100	100
	Sound Level	Cooling	dB(A)	50	52	53	54	55	56
Ext. Piping	Diameter	Liquid/Gas	mm	9,52 / 15,88	9,52 / 15,88	9,52 / 15,88	9,52 / 19,05	9,52 / 19,05	9,52 / 19,05
	Max. Length	Out-In	m	30	30	30	40	50	50
	Max. Height	Out-In	m	10	10	15	30	50	50
Guaranteed Operating Range (Outdoor)		Cooling	°C	+21 – +46	+21 – +46	+21 – +52	+21 – +46	+21 – +46	+21 – +46

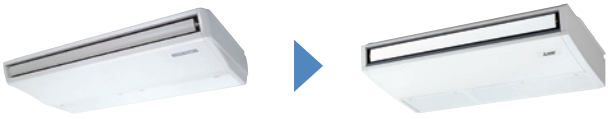
PC SERIES

A stylish new indoor unit design and airflow settings for both high and low ceiling interiors expand installation possibilities. Together with exceptional energy-saving performance, these units are the solution to diversified air conditioning needs.

PC-3/4/5/6KAK

Stylish indoor unit design

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

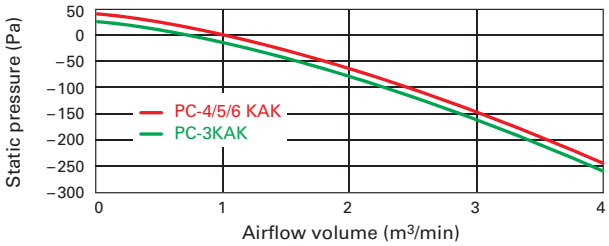


PC-GAKD　　PC-KAK

Outside-air Intake

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

● **Outside-air intake characteristics**



Quiet operation

Smoother airflow, an improved air vent design, and a slimmer fan combine to provide exceptionally quiet operation - a mere 42 dB on high and 34 dB on low (PC-3KAK).

Flockless vanes

With the adoption of flockless vanes, dirt and other impurities can be cleaned off easily with mild household detergent.

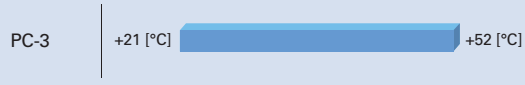
Equipped with Automatic Air-speed Adjustment

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

Extended Operating Range (PC-3)

As a result of an extended operating range when cooling, these models accommodate a wider range of usage environments and applications than previous models.

● **Operating Range** (Cooling)



PC SERIES SERIES SELECTION

Indoor Unit

PC-3/4/5/6KAK

Outdoor Unit

PU-3VAKD

PU-4V/YAKD2
PU-5YAKD
PU-6YAKD

Remote Controller

PAR-21MAA included

PC SERIES

Type				Fixed - Speed			
Indoor Unit				PC-3KAK	PC-4KAK	PC-5KAK	PC-6KAK
Outdoor Unit				PU-3VAKD	PU-4V/YAKD2	PU-5YAKD	PU-6YAKD
Refrigerant				R22			
Power Supply	Source			Indoor / Outdoor Separate Power Supply			
	V / Phase / Hz			230 / Single / 50	230 / Single / 50; 400 /Three / 50	400 / Three / 50	400 / Three / 50
Cooling	Capacity	Rated	kW	7,9	10,3	12,8	14,4
	Total Input	Rated	kW	3,31	(V) 3,61/ (Y) 3,54	4,2	5,22
	EER			2,39	2,85/2,91	3,05	2,76
Indoor Unit	Dimensions (Panel)	HxWxD	mm	230 x 1280 x 680	230 x 1600 x 680	230 x 1600 x 680	230 x 1600 x 680
	Weight (Panel)		kg	32	36	38	39
	Air Volume		m^3/min	16-22	24-30	25-32	27-34
	External Static Pressure		Pa	0	0	0	0
	Sound Level		dB(A)	34-42	39-45	40-46	42-48
Outdoor Unit	Dimensions	HxWxD	mm	850 x 840 x 330	1258 x 870 x 295	1258 x 970 x 345	1258 x 970 x 345
	Weight		kg	69	83	111	112
	Air Volume	Cooling	m^3/min	49	95	100	100
	Sound Level	Cooling	dB(A)	53	54	55	56
Ext. Piping	Diameter	Liquid/Gas	mm	9,52/15,88	9,52/19,05	9,52/19,05	9,52/19,05
	Max. Length	Out-In	m	30	40	50	50
	Max. Height	Out-In	m	15	30	50	50
Guaranteed Operating Range (Outdoor)		Cooling	°C	+21 – +52	+21 – +46	+21 – +46	+21 – +46

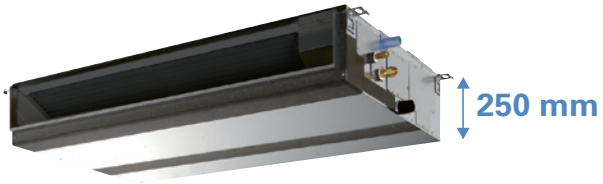
PEAD SERIES

PEAD-SP71/100/125/140JA(L)

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

Compact Indoor Units

The height of the models from 35-140 has been unified to 250 mm. Compared to the previous PEAD-EA model, the height has been reduced by as much as 75 mm (models 100-140), making installation in low ceilings with minimal clearance space possible.



PEAD-SP JA(L)

Reduction of **75mm** (models 100–140) compared to PEAD-EA

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.

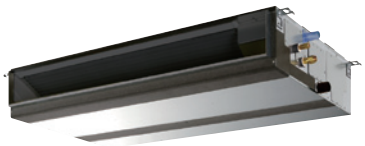
■External static pressure setting

Series	71	100	125	140
PEAD-SP JA	35/50/70/100/150 Pa			

Drain Pump Option Available with All Models

The line-up consists of two types, models with or without a built-in drain pump.

PEAD-SP JA → Drain pump built-in



PEAD-SP JAL → No drain pump

✻Units with an "L" included at the end of the model name are not equipped with a drain pump.

PEAD SERIES — SERIES SELECTION

Indoor Unit

PEAD-SP JA

Outdoor Unit

SUZ-SA71VA2
SUZ-SA100VA

PUHZ-SP100YHA

PUHZ-SP125/140VHA/YHA

Remote Controller (Optional)

PAR-31MAA
Optional

PAC-YT52CRA
Optional

PAR-FL32MA
Optional

PEAD-SP SERIES

Type				Inverter Heat Pump				
Indoor Unit				PEAD-SP71JA(L)	PEAD-SP100JA(L)	PEAD-SP100JA(L)	PEAD-SP125JA(L)	PEAD-SP140JA(L)
Outdoor Unit				SUZ-SA71VA2	SUZ-SA100VA	PUHZ-SP100YHA	PUHZ-SP125VHA (YHA)	PUHZ-SP140VHA (YHA)
Refrigerant				R410A *1				
Power Supply	Source			Outdoor power supply				
	Outdoor (V / Phase / Hz)			V: 230 / Single / 50, Y: 400/Three/50				
Cooling	Capacity	Rated	kW	7,1	9,4	9,4	12,3	13,0
		Min-Max	kW	2.8 - 8.1	-	4.9 - 9.9	5.5 - 13.0	5.5 - 14.0
	Total Input	Rated	kW	2,35	3,12	3,12	4,38	4,3
	EER			3,02	3,01	3,01	2,81	3,0
	Design load		kW	7,1	9,4	9,4	-	-
	Annual electricity consumption *2		kWh/a	477	711	713	-	-
	SEER			5,2	4,6	4,6	-	-
		Energy efficiency class		A	B	B	-	-
Heating (Average Season)	Capacity	Rated	kW	8,0	11,2	11,2	13,5	15,5
		Min-Max	kW	2.6 - 8.9	-	4.5 - 11.5	5.0 - 15.0	5.0 - 15.0
	Total Input	Rated	kW	2,21	3,10	3,10	3,7	4,6
	COP			3,61	3,61	3,6	3,6	3,4
	Design load		kW	6,0	8,0	8,0	-	-
	Declared Capacity	at reference design temperature	kW	5.2 (-10°C)	6,4 (-10°C)	6.3 (-10°C)	-	-
		at bivalent temperature	kW	5.4 (-7°C)	7,1 (-7°C)	7.1 (-7°C)	-	-
		at operation limit temperature	kW	5.2 (-10°C)	6,4 (-10°C)	5.0 (-15°C)	-	-
	Back up heating capacity		kW	0,8	1,6	1,7	-	-
	Annual electricity consumption *2		kWh/a	2189	2927	2945	-	-
	SCOP			3,8	3,8	3,8	-	-
		Energy efficiency class		A	A	A	-	-
Operating Current (Max)			A	18,1	nd	15,7	30,8 (15,8)	32,3 (15,8)
Indoor Unit	Input	Rated	kW	0.17 / 0.15	0.25 / 0.23		0.36 / 0.34	0.39 / 0.37
	Operating Current(Max)		A	1,97	2,7		2,8	2,78 (2,76)
	Dimensions	HxWxD	mm	250-1100-732	250 - 1400 - 732			250 - 1600 - 732
	Weight		kg	33(32)	41(40)		43(42)	47(46)
	Air Volume (Lo-Mi2-Mi1-HI)		m^3/min	17.5 - 21.0 - 25.0	24.0 - 29.0 - 34.0		29.5 - 35.5 - 42.0	32.0 - 39.0 - 46.0
	External Static Pressure		Pa	35 / 50 / 70 / 100 / 150			35 / 50 / 70 / 100 / 150	
	Sound Level (SPL) (Lo-Mi2-Mi1-Hi)		dB(A)	26 - 30 - 34	29 - 34 - 38		33 - 36 - 40	34 - 38 - 43
	Sound Level (PWL)		dB(A)	58	61		63,0	66
Outdoor Unit	Dimensions	HxWxD	mm	880 - 840 - 330		943-950-330(+30)	1350-950-330(+30)	1350-950-330(+30)
	Weight		kg	53	53	77	99 (101)	99 (101)
	Air Volume	Cooling	m^3/min	50,1	nd	60,0	100,0	100
		Heating	m^3/min	48	nd	60	100	100
	Sound Level (SPL)	Cooling	dB(A)	55	nd	50	51	52
		Heating	dB(A)	55	nd	54	55	56
	Sound Level (PWL)	Cooling	dB(A)	69	69	70	71	73
	Operating Current (Max)		A	16,1	nd	13,0	28 (13,0)	29,5 (13,0)
	Breaker Size		A	20	nd	16,0	32 (16)	40 (16)
Ext. Piping	Diameter	Liquid/Gas	mm	9.52 / 15.88		9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max.Length	Out-In	m	30	30	30,0	40	40
	Max.Height	Out-In	m	30	30	30,0	30	30
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46		-15 ~ +46
		Heating	°C	-10 ~ +24	-10 ~ +24	-15 ~ +21		-15 ~ +21

*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.

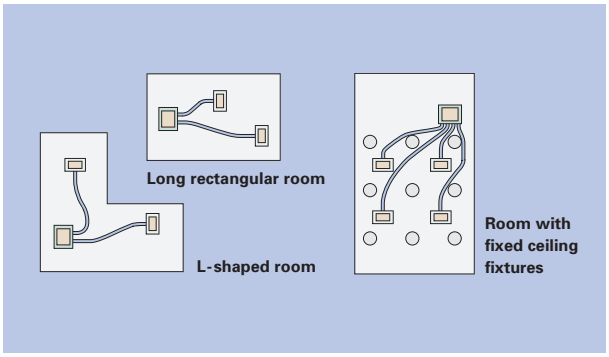
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

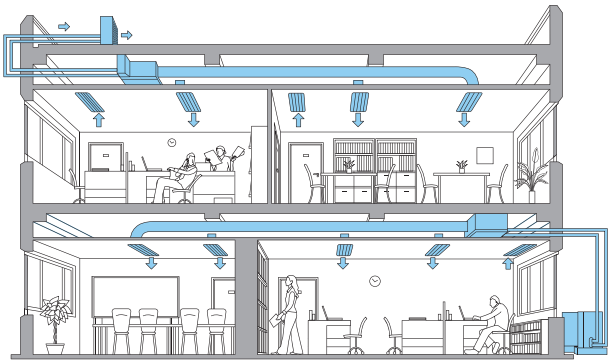
PE SERIES

For elegance and style, the PE Series compliments the room environment with an aesthetically pleasing ceiling installation and a vast line-up of performance functions. Long pipe work installation is supported, increasing freedom in the placement of indoor units.

Flexible duct design

Offering all the benefits of split-type models plus other important advantages, the PE Series is not only easy to install but also very versatile. For example, the distance between the air-intake and air-outlet vents can be varied to allow airflow to be positioned in the optimum location.





Computerized dehumidification

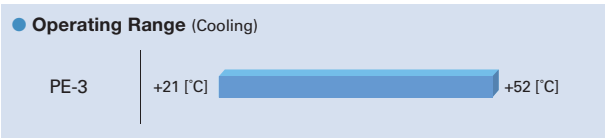
The electronic dehumidifier mode – where fan speed is controlled precisely – increases dehumidification volume while improving dehumidifying efficiency.

Quiet operation & compact unit PE-3EAK2

In the 3 HP range, the PE-3EAK2 offers quiet operation and low unit height of 200 mm, expanding application possibilities.

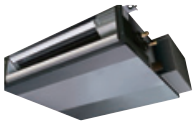
Extended Operating Range PE-3

As a result of an extended operating range when cooling, these models accommodate a wider range of usage environments and applications than previous models.

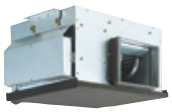


PE SERIES SERIES SELECTION

Indoor Unit



PE-3EAK2



PE-4EAK

PE-5EAK2
PE-6EAK2

Outdoor Unit

PU-3VAKD

PU-4V/YAKD
PU-5YAKD / PU-6YAKD

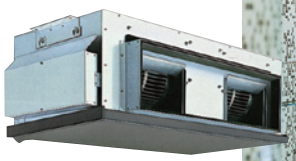
Remote Controller

PAR-21MAA

PE SERIES

Type				Fixed - Speed			
Indoor Unit				PE-3EAK2	PE-4EAK	PE-5EAK2	PE-6EAK2
Outdoor Unit				PU-3VAKD	PU-4V/YAKD2	PU-5YAKD	PU-6YAKD
Refrigerant				R22			
Power Supply	Source			Indoor / Outdoor Separate Power Supply			
	V / Phase / Hz			230 / Single / 50	230 / Single / 50; 400 /Three / 50	400 / Three / 50	400 / Three / 50
Cooling	Capacity	Rated	kW	7,3	9,8	12,1	14
	Total Input	Rated	kW	3,33	(V) 3,77/ (Y) 3,70	4,94	5,93
	EER			2,19	2,60/2,65	2,45	2,36
Indoor Unit	Dimensions (Panel)	HxWxD	mm	200 x 1190 x 700	428 x 1055 x 690	400 x 1180 x 634	400 x 1180 x 634
	Weight (Panel)		kg	27	58	56	56
	Air Volume		m^3/min	12-21	27-34	40-50	40-50
	External Static Pressure		Pa	50	63,5	100	100
	Sound Level		dB(A)	32-42	54-58	45-49	45-49
Outdoor Unit	Dimensions	HxWxD	mm	850 x 840 x 330	1258 x 870 x 295	1258 x 970 x 345	1258 x 970 x 345
	Weight		kg	69	83	111	112
	Air Volume	Cooling	m^3/min	49	95	100	100
	Sound Level	Cooling	dB(A)	53	54	55	56
Ext. Piping	Diameter	Liquid/Gas	mm	9,52/15,88	9,52/19,05	9,52/19,05	9,52/19,05
	Max. Length	Out-In	m	30	40	50	50
	Max. Height	Out-In	m	15	30	50	50
Guaranteed Operating Range (Outdoor)		Cooling	°C	+21 – +52	+21 – +46	+21 – +46	+21 – +46

PEH SERIES

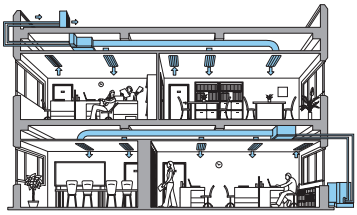


PEH-5/6/8/10/16/20GA(K)

For elegance and style, the PEH Series compliments the room environment with an aesthetically pleasing ceiling installation and a vast line-up of performance functions. Long pipe work installation is supported, increasing freedom in the placement of indoor units.

Flexible Duct Design Enables Use of High-pressure Static Fan

A flexible duct design and up to 150 Pa (PEH 16-20) external static high-pressure are incorporated. The increased variation in airflow options ensures operation that best matches virtually all room layouts.



High-functional remote controller

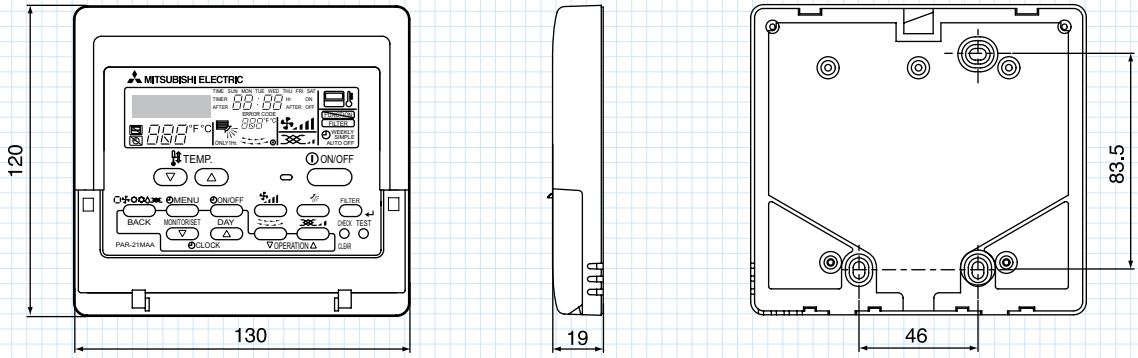
Weekly timer and Multi-language display enables Comfort control and Easy of Use.

Main Functions

- Multi-language Display.
- Limited Temperature Range Setting.
- Auto-off Timer.
- Operation Lock.
- Weekly Timer.

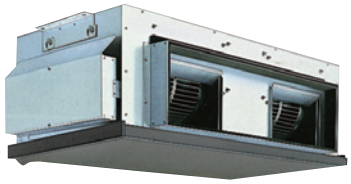
External dimension

PAR-21MAA



PEH SERIES SERIES SELECTION

Indoor Unit



PEH-5/6/8/10/16/20GA(K)

Outdoor Unit

PUH-5/6YK(S)A

PUH-8/10YK(S)A

Remote Controller

PAR-21MAA

PEH SERIES

Type				Heat Pump Fixed-Speed					
Indoor Unit				PEH-5GAK	PEH-6GAK	PEH-8GA	PEH-10GA	PEH-16GA	PEH-20GA
Outdoor Unit				PUH-5YKSA	PUH-6YKSA	PUH-8YKA	PUH-10YKA	PUH-8YKA x 2	PUH-10YKA x 2
Refrigerant				R22					
Power Supply	Source			Indoor / Outdoor Separate Power Supply					
	V / Phase / Hz			400 /Three / 50	400 /Three / 50	400 / Three / 50	400 / Three / 50	400 / Three / 50	400 / Three / 50
Cooling	Capacity	Rated	kW	12,1	15,7	21,6	26,7	43,2	53,4
	Total Input	Rated	kW	5,04	5,61	7,85	10,26	15,25	21,12
	EER			2,40	2,80	2,75	2,60	2,83	2,53
Heating	Capacity	Rated	kW	15,5	18,5	24,6	30,9	49,2	61,8
	Total Input	Rated	kW	5,22	5,56	7,68	9,64	14,91	19,88
	COP			2,97	3,33	3,20	3,21	3,30	3,11
Indoor Unit	Input (Cooling/ Heating	Rated	kW	0,87	0,87	1	1,12	1,55	2,84
	Operating Current (Max)		A	4	4	1,8	2	3,8	5,4
	Dimensions	HxWxD	mm	400 x 1180 x 634	400 x 1180 x 634	400 x 1400 x 634	400 x 1600 x 634	595 x 1947 x 764	595 x 1947 x 764
	Weight		kg	56	59	70	77	130	133
	Air Volume		m^3/min	40-50	44-55	52-65	64-80	120	160
	External Static Pressure		dB(A)	100	100	100	100	150	150
	Sound Level		Pa	42-46	45-49	45-49	46-50	52	53
Outdoor Unit	Input (Cooling/ Heating	Rated	kW	4,17/4,35	4,74/4,69	6,85/6,68	9,14/8,52	6,85x2/6,88x2	9,14x2/8,52x2
	Dimensions	HxWxD	mm	1258 x 970 x 345+24	1258 x 970 x 345+24	1480 x 1047 x 547	1480 x 1047 x 547	(1480 x 1047 x 547) x 2	(1480 x 1047 x 547) x 2
	Weight		kg	114	117	200	208	200 x 2	208 x 2
	Air Volume	Cooling	m^3/min	95	100	140	140	140 x 2	140 x 2
	Sound Level	Cooling	dB(A)	55	56	61	61	61	61
		Heating	dB(A)	55	56	63	63	63	63
	Operating Current (Max)		A	8,2	8,5	13,6	16,8	13,6 x 2	16,8 x 2
Ext. Piping	Diameter	Liquid/Gas	mm	9,52/19,05	9,52/19,05	15,88/25,4	15,88/28,6	15,88/25,4	15,88/28,6
	Max. Length	Out-In	m						
	Max. Height	Out-In	m						
Guaranteed Operating Range (Outdoor DB)		Cooling	℃	-5 – +46	-5 – +46	-5 – +46	-5 – +46	-5 – +46	-5 – +46
		Heating	℃	-9,5 – +15	-9,5 – +15	-15 – +15	-15 – +15	-15 – +15	-15 – +15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