

SPLIT-TYPE AIR CONDITIONERS

From Japan to the World

– Advanced systems in every product –

 **NOTICE**

- Our air-conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R410A or R22.
- The water in both the primary and sanitary circuits should be clean and have a pH value of 6.5-8.0.
The following are maximum allowed values:
Calcium: 100mg/L, Ca harness: 250mg/L, Chlorine: 100mg/L, Copper: 0.3mg/L, Iron/Manganese: 0.5mg/L
Other constituents should be compliant with European Directive 98/83 EC standards.



for a greener tomorrow

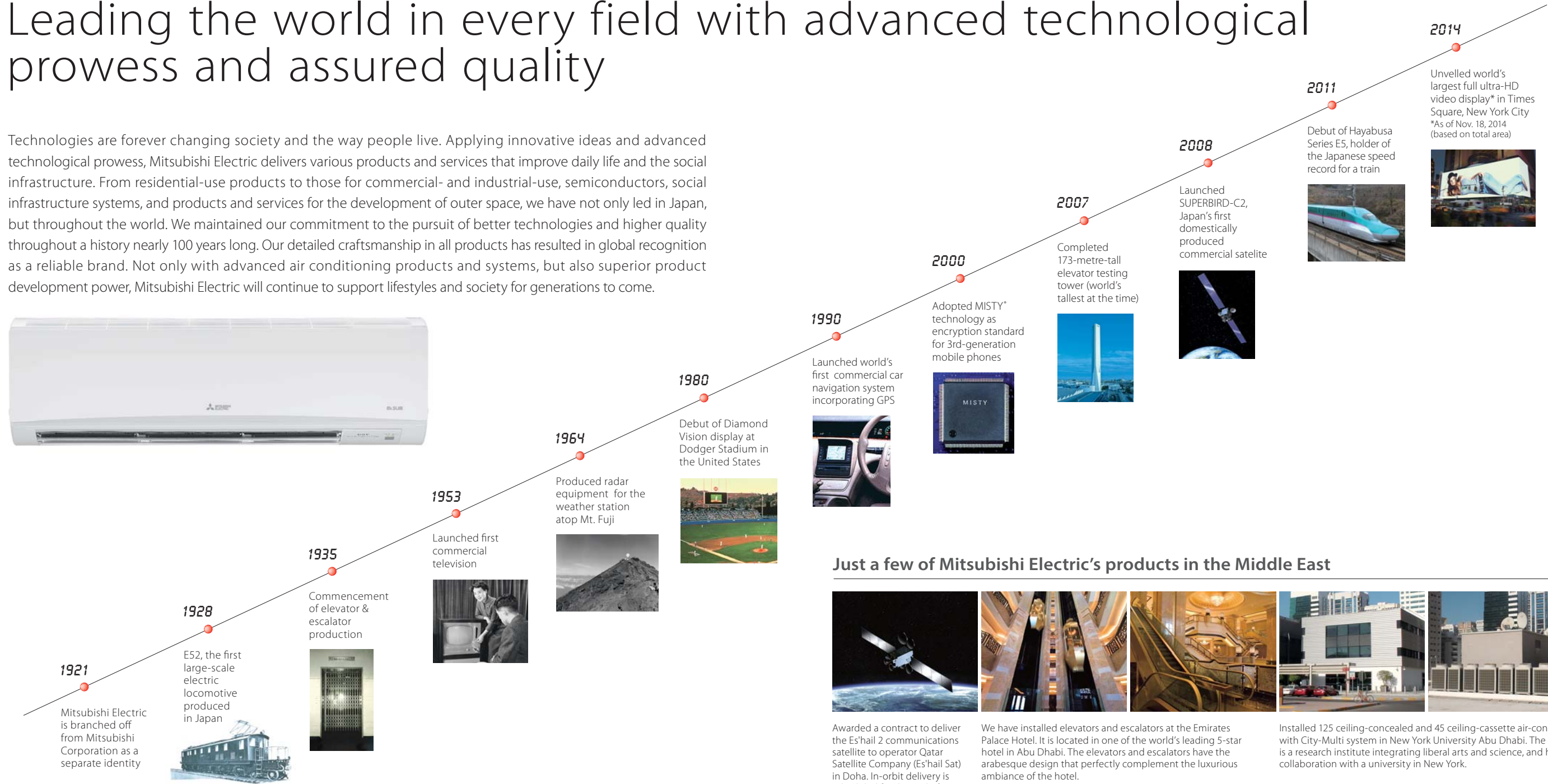
Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BLDG., 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN
www.MitsubishiElectric.com

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.



Just a few of Mitsubishi Electric's products in the Middle East

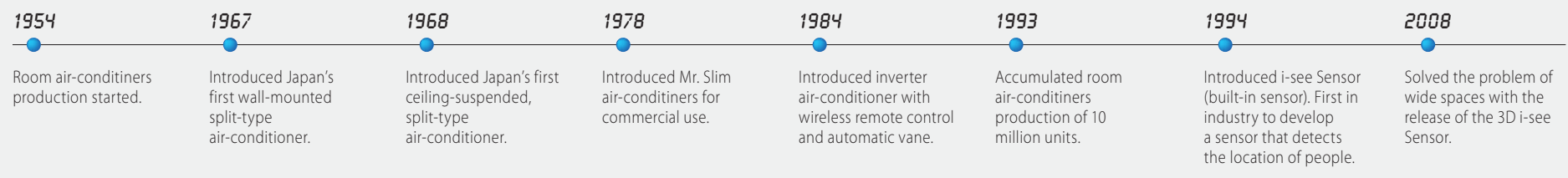


Awarded a contract to deliver the Es'hail 2 communications satellite to operator Qatar Satellite Company (Es'hail Sat) in Doha. In-orbit delivery is scheduled for the end of 2016.

























































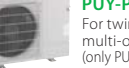






We have installed elevators and escalators at the Emirates Palace Hotel. It is located in one of the world's leading 5-star hotels in Abu Dhabi. The elevators and escalators have the arabesque design that perfectly complement the luxurious ambiance of the hotel.

Installed 125 ceiling-concealed and 45 ceiling-cassette air-conditioners with City-Multi system in New York University Abu Dhabi. The university is a research institute integrating liberal arts and science, and has global collaboration with a university in New York.

Air conditioner product history



LINEUP

		13,000 Btu/h	18,000 Btu/h	24,000 Btu/h	30,000 Btu/h	36,000 Btu/h	—	—	Page	
M-Series	Wall-mounted	R410A model	 MS-GH13VA	 MS-GH18VA	 MS-GK24VA	 MS-GK30VA	 MS-GK36VA		p11	
		R22 model	 MS-GF13VC	 MS-GF18VC	 MS-GF24VC	 MS-GF30VC	 MS-D36VC			p13
			 MS-GM18VC	 MS-GM24VC						
			2HP 18,000 Btu/h	2.5HP 24,000 Btu/h	3HP 30,000 Btu/h	4HP 36,000 Btu/h	5HP 42,000 Btu/h	6HP 48,000 Btu/h		
S-Series	2x2 ceiling-cassette	R22 model		 SL-2AKLD					p17	
	Compact ceiling-concealed	R22 model		 SE-2AKD	 SE-2.5AKD				p18	
P-Series	Ceiling-cassette	R410A model		 PLY-P18BA	 PLY-P24BA	 PLY-P30BA	 PLY-P36BA	 PLY-P42BA	 PLY-P48BA	p22
		R22 model		 PL-2BAK	 PL-2.5BAK	 PL-3BAK	 PL-4BAK	 PL-5BAK	 PL-6BAK	
	Ceiling-suspended	R410A model		 PCY-P18KA	 PCY-P24KA	 PCY-P30KA	 PCY-P36KA	 PCY-P42KA	 PCY-P48KA	p25
		R22 model				 PC-3KAK	 PC-4KAK	 PC-5KAK	 PC-6KAK	
	Ceiling-concealed	R410A model		 PEY-P18JA	 PEY-P24JA	 PEY-P30JA	 PEY-P36JA	 PEY-P42JA	 PEY-P48JA	p26
		R22 model				 PE-3EAK2	 PE-4EAK	 PE-5EAK2	 PE-6EAK2	p27
Floor-standing	R22 model				 PS-3GAKD	 PS-4GAKD	 PS-5GAKD	 PS-6GAKD	p28	
Outdoor unit	S-Series/P-Series outdoor unit	R410A model		 SUY-KA18VA	 SUY-KA24VA	 SUY-KA30VA	 SUY-KA36VA	 PUY-P42V/YKA	 PUY-P48V/YKA For twin multi-operation (only PUY-P48V/YKA)	
		R22 model		 PU-2VAKD* SU-2VAKD*	 PU-2.5VAKD* SU-2.5VAKD*	 PU-3VAKD	 PU-4V/YAKD2	 PU-5YAKD	 PU-6YAKD	

* SU outdoor units must be connected to S Series indoor units. * PU outdoor units must be connected to P Series indoor units.

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.

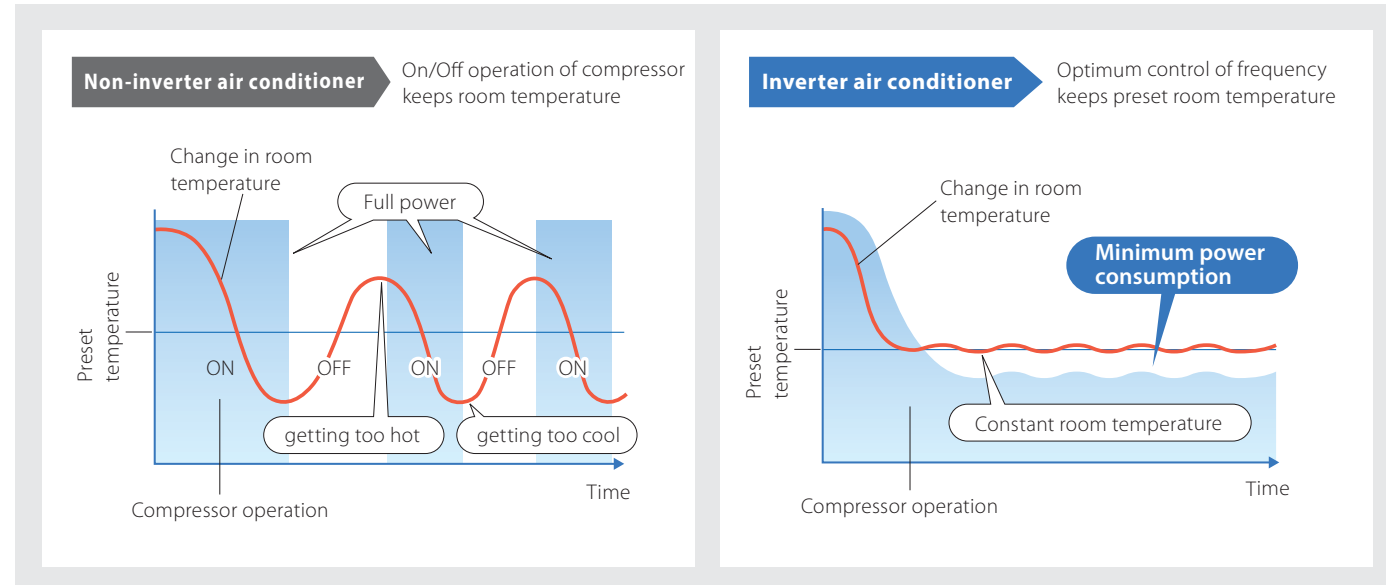
ECONOMIC OPERATION

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.

Point 1 Quick and 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

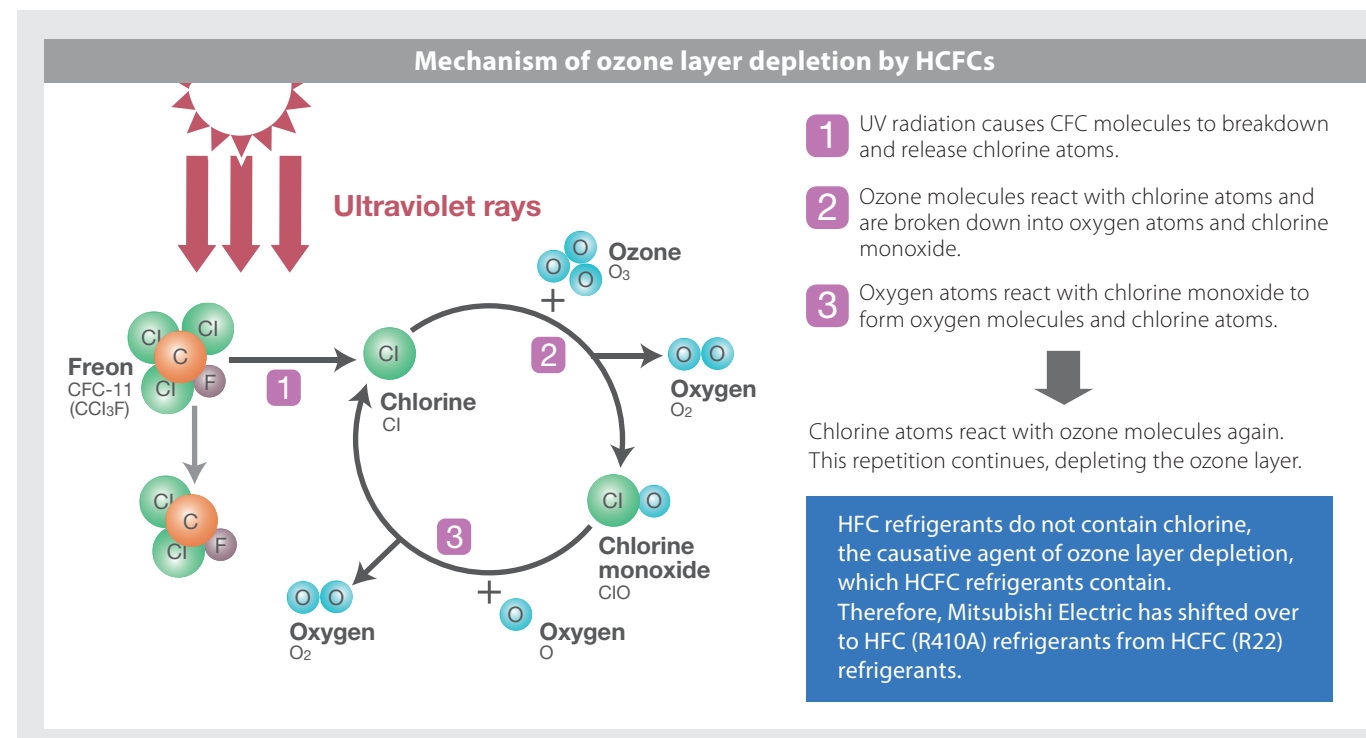
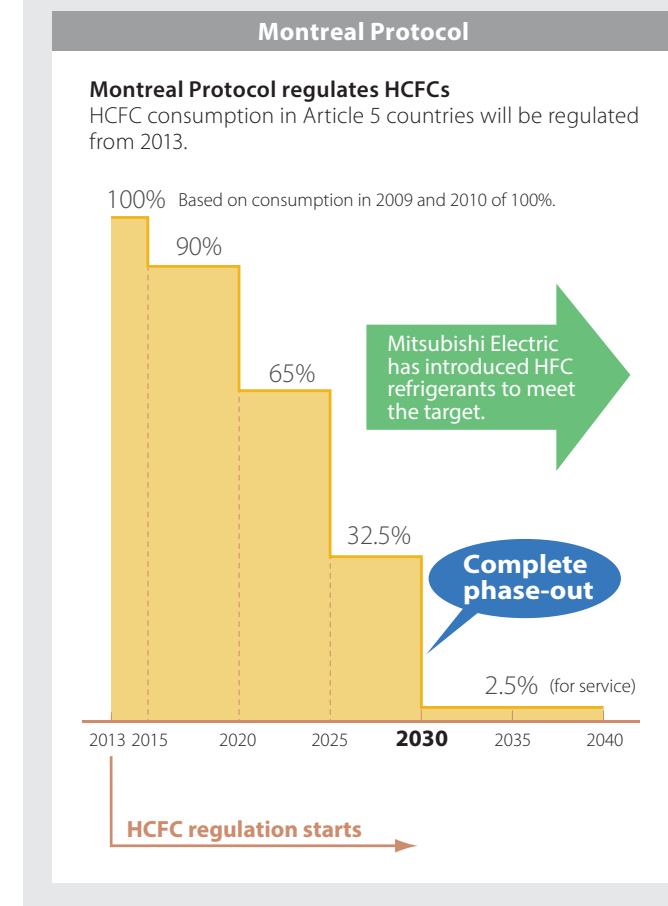
The compressor motor operating frequency and the change in room temperature are monitored to calculate the most efficient waveform to maintain the room temperature in the comfort zone. This eliminates the large temperature swings common with non-inverter systems and guarantees a pleasant, comfortable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

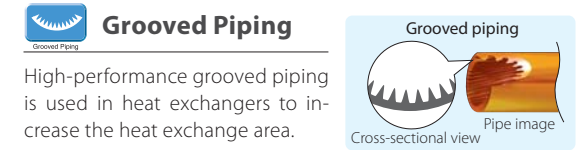


FUNCTIONS LIST


Category	Icon	Combination	Indoor unit	M-Series					S-Series		P-Series				P-Series					
				MS-GH13/18VA	MS-GK24VA/30/36VAT	MS-GF13/18/24/30VC	MS-D36VC	MS-GM18/24VC	SL-2AKLD	SE-2/2.5AKD	PLY-P18/24/30/36/42/48BA	PL-2/2.5/3/4/5/6BAK	PCY-P18/24/30/36/42/48KA	PC-3/4/5/6KAK	PEY-P18/24/30/36/42/48JA	PE-3/4/5/6EAK2	PS-3/4/5/6GAKD			
			Outdoor unit	MU-GH13/18VA	MU-GK24/30/36VAT	MU-GF13/18/24/30VC	MU-D36VC	MU-GM18/24VC	SU-2VAKD	SU-2/2.5VAKD	SUY-KA18/24/30/36VA	PUY-P42/48V/YKA	PU-2/2.5/3/4VAKD PU-4YAKD2/5/6YAKD	SUY-KA18/24/30/36VA	PUY-P42/48V/YKA	PU-3/4VAKD PU-4YAKD2/5/6YAKD	SUY-KA18/24/30/36VA	PUY-P42/48V/YKA	PU-3/4VAKD PU-4YAKD2/5/6YAKD	PU-3/4VAKD PU-4YAKD2/5/6YAKD
Technology	DC Inverter										●	●								
	Joint Lap DC Motor										●						●			
	Magnetic Flux Vector Sine Wave Drive											●								
	Reluctance DC Rotary Compressor												●							
	Highly Efficient DC Scroll Compressor																			
	Heating Caulking (Compressor)																			
	DC Fan Motor			● (Indoor)	● (Indoor)	● (Indoor)	● (Indoor)	● (Indoor)				●	●		●	●				
	Vector-Wave Eco Inverter												●							
	Pulse Amplitude Modulation (PAM)												●							
	Power Receiver and Twin LEV Control												●							
Grooved Piping			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Energy Saving	Felt Temperature Control (3D i-see Sensor)																			
	Area Temperature Monitor										Opt	Opt	Opt							
	Econo Cool Energy-saving Feature			●	●	●	●	●												
	Standby Power Consumption Cut																			
	Demand Function											Opt		Opt				Opt		
Attractive	Pure White		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Auto Vane		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Air Quality	Plasma Quad																			
	Fresh-air Intake								●		●	●	●	●	●	●	●	●	●	●
	Anti-allergy Enzyme Filter					Opt (36)		Opt												
	Electrostatic Anti-allergy Enzyme Filter					Opt	Opt (24/30)	Opt		Opt										
	High-efficiency Filter													Opt	Opt		Opt	Opt	Opt	
	Catechin Filter							● (36)												
	Nano Platinum Filter					● (24/30)		●												
	Oil Mist Filter																			
Long-life Filter								●		●	●	●	●	●	●	●	●	●	●	
Filter Check Signal										●	●	●	●	●	●	●	●	●	●	
Air Distribution	Double Vane		● (18)	●	● (18/24/30)	●	●	●												
	Horizontal Vane		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Vertical Vane		● (18)	●	● (18/24/30)	●	●	●												●
	High Ceiling Mode											●	●	●	●	●	●	●	●	●
	Low Ceiling Mode											●	●	●	●	●	●	●	●	●
Auto Fan Speed Mode		●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	
Convenience	On/Off Operation Timer		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Auto Changeover																			
	Auto Restart		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Low-temperature Cooling																			
	Low-noise Operation (outdoor unit)																			
	Ampere Limit Adjustment																			
	Operation Lock																			
	Built-in Weekly Timer Function																			
Rotation, Back-up and 2nd Stage Cut-in Functions													Opt	●		Opt	●	●	●	
System Control	PAR-31MAA Control										Opt	Opt					Opt	Opt		●
	PAC-YT52CRA Control																			
	Centralised On/Off Control								Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	System Group Control								Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	●	Opt
	M-NET Connection								Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	Twin-multi Operation												● (48)					● (48)		●
MXZ Connection																				
Installation	Cleaning-free Pipe Reuse		●	●	●	●	●	●												
	Reuse of Existing Wiring														Opt				Opt	
	Wiring/Piping Correction Function																			
	Drain Pump								●		●	●	●	Opt	Opt	Opt				
	Pump Down Switch																			●
	Flare Connection		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Maintenance	Self-Diagnostic Function (Check Code Display)		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Failure Recall Function		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

*1 When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.


* The figures listed in the table are *only when combined with an outdoor unit with the appropriate capacity range*.
* Opt: Separate parts must be purchased.




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.




Auto Vane
The vane closes automatically when the air-conditioner is not running, concealing the air outlet and creating a flat surface that is aesthetically appealing.



Anti-allergy Enzyme Filter
The anti-allergy enzyme filter works to trap allergens such as molds and bacteria and decompose them using enzymes retained in the filter.




Nano Platinum Filter
The filter has a large capture area and incorporates nanometre-sized platinum-ceramic particles that work to kill bacteria and deodorise the circulating air.




Catechin Filter
Catechin is a bioflavonoid by-product of green tea with both antiviral and antioxidant qualities. It also has an excellent deodorising effect, which is why Mitsubishi Electric uses the compound in its air-conditioner filters. In addition to improving air quality, it prevents the spreading of bacteria and viruses throughout the room. Easily removed for cleaning and maintenance, when the filter is washed regularly the deodorising action is rated to last more than 10 years.




Electrostatic Anti-allergy Filter
This function features both the Air Cleaning Filter and Anti-allergy Enzyme Filter.




Double Vane
Double vane separates the airflow into the different directions to deliver airflow not only across a wide area of the room, but also simultaneously to two people in different locations.




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



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



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



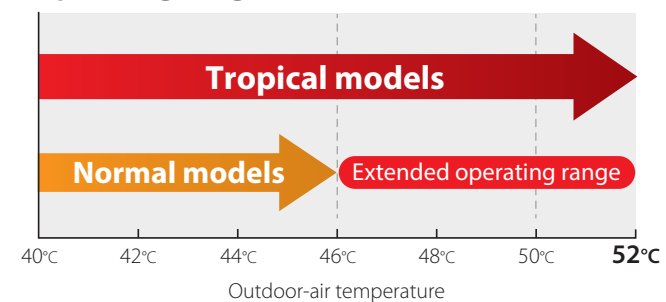
Auto Restart
Especially useful at the time of power outages, the unit turns back on automatically when power is restored.



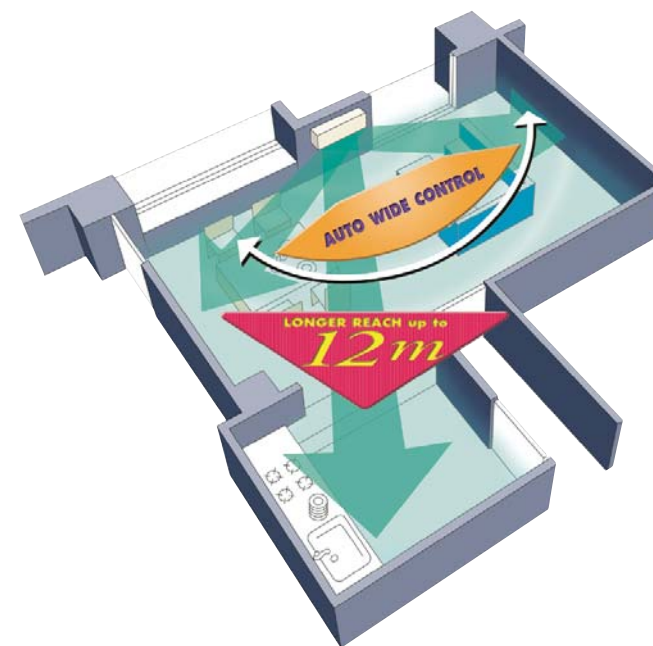
M-SERIES

■ Operating at high temperatures (52°C)

Operating range

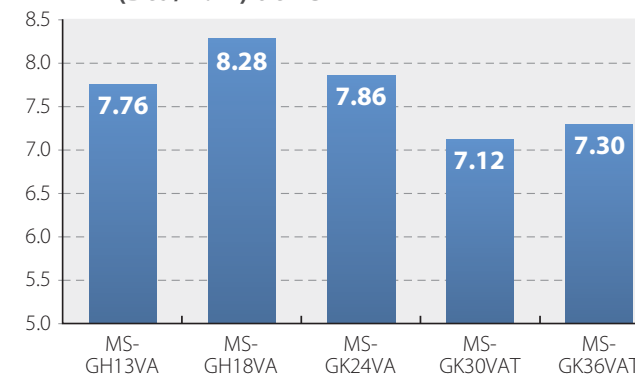


■ The airflow reaches all corners of the room



■ High energy efficiency

EER (Btu/h.W) at T3



Tropical Tropical technology

Mitsubishi Electric introduces a new tropical specifications series. New technologies which are used for the compressor—a key component of air-conditioners—has made it possible for units to operate at outdoor-air temperatures as high as 52°C. The new Tropical Specification series units are perfect for cooling homes in tropical regions.

Wide and long airflow

Bringing extra comfort to your life, the left-right vane can be automatically controlled using the remote controller. Simply use Wide-vane mode to easily adjust the 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, providing an extended airflow that can reach the far end of long living rooms or the kitchen in open-concept living areas and studios. When operating in Long mode, the airflow can reach as far as 12m.

New R410A lineup

From the low-capacity 13,000Btu to high-capacity 36,000Btu units available, the new models in the R410A Series have high EERs. All models contribute to reducing energy consumption over a wide range of operating capacities.

M-SERIES R410A MODELS

MS-GH13VA/18VA

MS-GK24VA/30VA/36VA

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 over to HFC models from HCFC models.

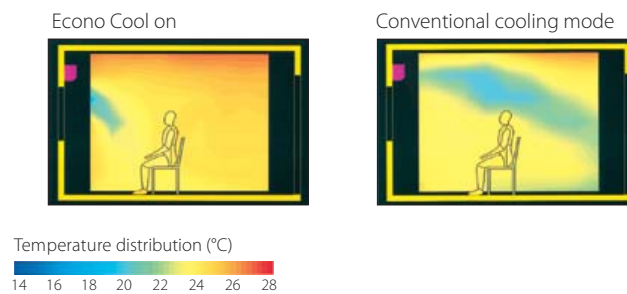
Econo Cool energy-saving feature

Econo Cool is an intelligent temperature control feature that adjusts the amount of air directed towards the body based on the air-outlet temperature. The setting temperature can be raised by as much as 2°C without any loss in comfort, thereby realising a 20% gain in energy efficiency. (Function only available during manual cooling operation.)

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

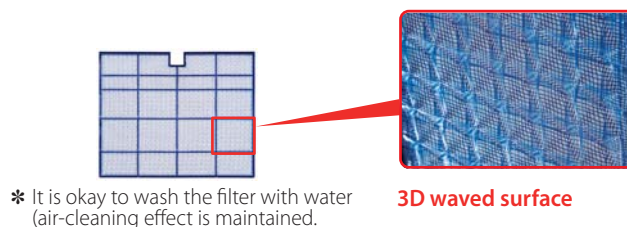
Econo Cool mode

A comfortable room environment is maintained even when setting the temperature 2°C higher than the conventional cooling mode.



Nano platinum filter

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



INDOOR UNITS



MS-GH13VA



MS-GH18VA*1
MS-GK24VA/30VAT



MS-GK36VAT



Remote Controller

OUTDOOR UNITS



MU-GH13VA



MU-GH18VA



MU-GK24VA/30VAT



MU-GK36VAT

*1 The logo attached to MS-GH differ from the picture.

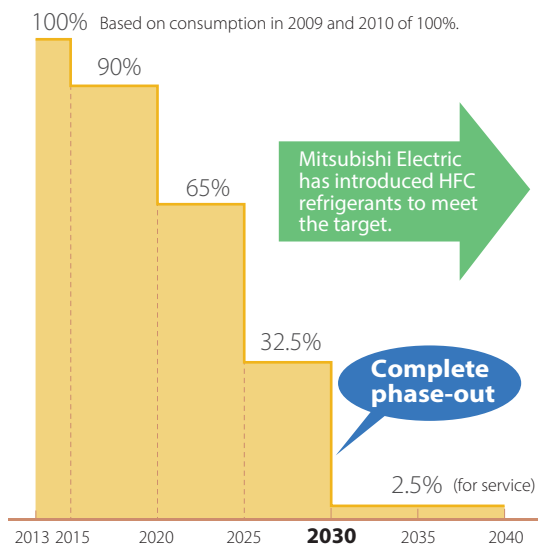
Model	Indoor	MS-GH13VA	MS-GH18VA	MS-GK24VA	MS-GK30VAT	MS-GK36VAT
	Outdoor	MU-GH13VA	MU-GH18VA	MU-GK24VA	MU-GK30VAT	MU-GK36VAT
Function		Cooling	Cooling	Cooling	Cooling	Cooling
Cooling capacity	kW	3.45	5.0	6.7	8.2	10.1
	Btu/h	11772	17061	22861	27980	34463
Power supply		220-230-240V, single-phase, 50Hz				
Power input	kW	1.09-1.12-1.14	1.46-1.49-1.52	2.12-2.16-2.22	2.73-2.75-2.78	3.50-3.55-3.60
EER at T1	Btu/h.W	10.80-10.51-10.33	11.69-11.45-11.22	10.78-10.58-10.30	10.25-10.17-10.06	9.85-9.71-9.57
EER at T3 (tested)	Btu/h.W	7.76	8.28	7.86	7.12	7.30
Starting current	A	26.0-27.0-28.0	32.0-33.5-35.0	54.0-55.5-59.0	72.0-75.5-79.0	85.0-89.0-93.0
Running current	A	5.0-5.0-5.0	6.7-6.7-6.7	9.8-9.7-9.6	12.7-12.2-11.9	16.2-16.2-16.3
Airflow (Lo-Me-Hi-SHi)	m ³ /min	4.8-6.6-9.3-10.4	10.7-12.7-14.5-18.1	12.4-15.5-18.7-22.0	13.8-16.2-18.9-21.6	15.4-19.1-23.2 (Lo-Hi)
Dimensions (H x W x D)	Indoor	mm 295 x 798 x 232	325 x 1100 x 238	325 x 1100 x 238	325 x 1100 x 238	365 x 1170 x 295
	Outdoor	mm 525 x 718 x 255	550 x 800 x 285	880 x 840 x 330	880 x 840 x 330	1258 x 870 x 295
Net weight	Indoor	kg 9	16	16	16	18
	Outdoor	kg 34	38	58	72	88
Noise level (Lo-Super Hi)	dB(A)	26-44	34-45	37-53	37-53	39-50 (Lo-Hi)
Connection method		Flared	Flared	Flared	Flared	Flared
Dehumidification	l/h	1.3	1.3	1.9	2.9	4.1
Pipe size	Gas	mm 9.52	12.7	15.88	15.88	19.05
	Liquid	mm 6.35	6.35	6.35	9.52	9.52
Refrigerant filling	kg	1.1	1.2	1.35	1.85	2.8
Max. piping length	m	25	30	30	30	30
Max. height difference	m	10	10	10	15	15
Guaranteed operating range	Indoor °DB/°WB	21-35/15-24	21-35/15-24	21-32/15-23	21-32/15-23	21-32/15-23
	Outdoor °DB	21-46*2	21-46*2	21-46*2	21-52	21-52

*2 Unit is able to operate up to 52 deg C based on the testing condition of UAE. S/ISO5151:2011.

Montreal Protocol

Montreal Protocol regulates HCFCs

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



M-SERIES R22 MODELS

MS-GF13VC/18VC/24VC/30VC

MS-D36VC

MS-GM18VC/24VC

Easy clean function

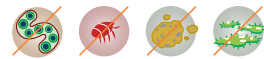
The front panel is detachable and the airflow vents can be opened without requiring any special tools, making air-conditioner cleaning and maintenance easier than ever. Periodic cleaning of the air-conditioner is recommended to ensure that operation efficiency and energy savings are maximised.



Thorough cleaning keeps your home healthier and more comfortable*

Eliminates odours

Always bringing you fresh air.



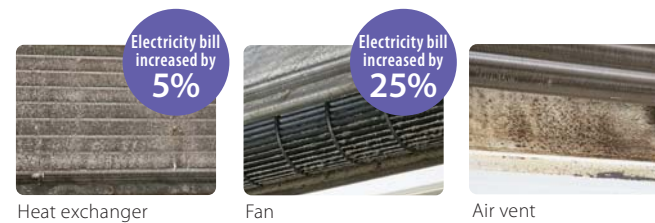
Longer lasting high performance

Consistent performance from time of purchase.

Economical energy costs

Cleaning the fan (25%), the heat exchanger (5%) and the filter increase energy savings by a total of up to 30%!

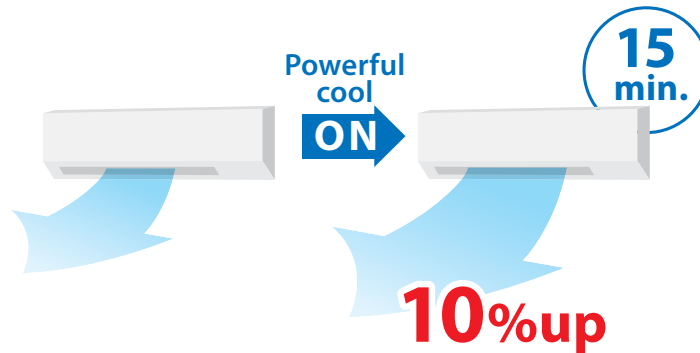
* Wearing gloves is highly recommended when cleaning the heat exchanger, because touching it with bare hands can cause injury.



Always clean the heat exchanger, fan, and air vent to ensure proper performance and economical operation.

Powerful Cool feature

The automatic, one-touch Powerful Cool feature ensures faster cooling. It produces 10% more airflow than the high fan speed, cooling the room in less than 15 minutes, then automatically returning to the regular setting.



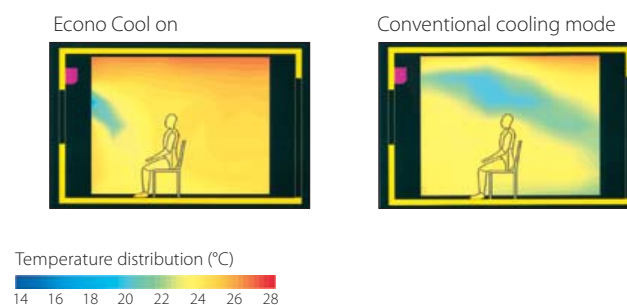
Econo Cool energy-saving feature

Econo Cool is an intelligent temperature control feature that adjusts the amount of air directed towards the body based on the air-outlet temperature. The setting temperature can be raised by as much as 2°C without any loss in comfort, thereby realising a 20% gain in energy efficiency. (Function only available during manual cooling operation.)

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

Econo Cool mode

A comfortable room environment is maintained even when setting the temperature 2°C higher than the conventional cooling mode.



INDOOR UNITS



MS-GF13VC



MS-GF18VC/24VC/30VC*1
MS-GM18VC/24VC



MS-D36VC



Remote Controller*2

OUTDOOR UNITS



MU-GF13VC



MU-GF18VC*3
MU-GM18VC



MU-GF24VC



MU-GM24VC
MU-GF30VC*3



MU-D36VC

*1 The logo attached to MS-GF differ from the picture. *2 MS-GF13 has different type of remote controller. *3 The logo attached to MU-GF differ from the pictures.

Model	Indoor	MS-GF13VC	MS-GF18VC	MS-GF24VC	MS-GF30VC	MS-D36VC	MS-GM18VC	MS-GM24VC
	Outdoor	MU-GF13VC	MU-GF18VC	MU-GF24VC	MU-GF30VC	MU-D36VC	MU-GM18VC	MU-GM24VC
Function		Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling
Cooling capacity	kW	3.65-3.65-3.7	5.2	6.9	8.4	10.55	5.2	6.7
	Btu/h	12454-12454-12625	17743	23544	28662	35998	17743	22861
Power supply		220-230-240V, single-phase, 50Hz						
Power input	kW	1.20-1.24-1.29	1.76-1.81-1.88	2.60-2.64-2.68	3.06-3.10-3.14	3.30-3.40-3.50	1.50-1.54-1.60	1.90-1.93-1.95
EER at T1	Btu/h.W	10.38-10.04-9.79	10.08-9.80-9.44	9.06-8.92-8.78	9.37-9.26-9.13	10.91-10.59-10.29	11.83-11.52-11.09	12.03-11.85-11.72
EER at T3 (tested)	Btu/h.W	6.95	6.76	6.70	6.44	6.15	8.92	8.98
Starting current	A	24.0-25.5-27.0	43.0-45.0-47.0	60.0-62.0-64.0	86.0-90.0-94.0	78.0-83.0-87.0	34.0-35.5-37.0	45.0-47.0-49.0
Running current	A	5.6-5.7-5.8	8.4-8.7-9.0	11.9-11.7-11.5	14.0-14.0-14.0	15.6-15.7-16.0	7.0-7.0-7.0	8.7-8.5-8.3
Airflow (Lo-Med-Hi-Super Hi)	m ³ /min	6.1-7.6-9.6-11.3	11.1-13.1-15.3 (Lo-Hi)	13.1-14.9-17.1 (Lo-Hi)	13.1-14.9-17.1 (Lo-Hi)	15.6-19.7-24.2 (Lo-Hi)	11.9-14.1-17.4-20.6	14.1-16.0-18.7-20.6
Dimensions (H x W x D)	Indoor	mm 295 x 798 x 232	325 x 1100 x 238	325 x 1100 x 238	325 x 1100 x 238	365 x 1170 x 295	325 x 1100 x 238	325 x 1100 x 238
	Outdoor	mm 525 x 718 x 255	550 x 800 x 285	605 x 850 x 290	880 x 840 x 330	1258 x 870 x 295	550 x 800 x 285	880 x 840 x 330
Net weight	Indoor	kg 9	16	16	16	18	16	16
	Outdoor	kg 28.5	37	51	71	88	37	59
Noise level (Lo-Super Hi)	dB(A)	29-45	33-42	37-45	37-45	39-50 (Lo-Hi)	37-53	39-53
Connection method		Flared	Flared	Flared	Flared	Flared	Flared	Flared
Dehumidification	l/h	1.5	1.7	2.9	4.2	5.3	0.7	1.7
Pipe size	Gas	mm 12.7	12.7	15.88	15.88	19.05	15.88	15.88
	Liquid	mm 6.35	6.35	6.35	9.52	9.52	6.35	6.35
Refrigerant filling	kg	0.65	1.15	1.3	1.95	2.8	1.1	1.7
Max. piping length	m	20	30	30	30	30	30	30
Max. height difference	m	10	10	10	15	15	10	10
Guaranteed operating range	Indoor °DB/°WB	21-32/15-23	21-32/15-23	21-32/15-23	21-32/15-23	21-32/15-23	21-32/15-23	21-32/15-23
	Outdoor °DB	21-43	21-52	21-52	21-52	21-52	21-46*4	21-46*4

*4 Unit is able to operate up to 52 deg C based on the testing condition of UAE. S/ISO5151:2011.

M-SERIES

Specifications and installation

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

	Indoor	Outdoor
50Hz	Single-phase, 220-240V	Single-phase, 220-240V

Guaranteed operating range

Cooling	Indoor		Outdoor		
	MS-GH13/18VA	The others	MU-GF13VC	MU-GH13/18VA MU-GK24VA MU-GM18/24VC	MU-GK30/36VAT MU-GF18/24/30VC MU-D36VC
Upper limit	35°CDB/24°CWB	32°CDB/23°CWB	43°CDB	46°CDB	52°CDB
Lower limit	21°CDB/15°CWB	21°CDB/15°CWB	21°CDB	21°CDB	21°CDB

*DB: Dry bulb WB: Wet bulb

Sound pressure level

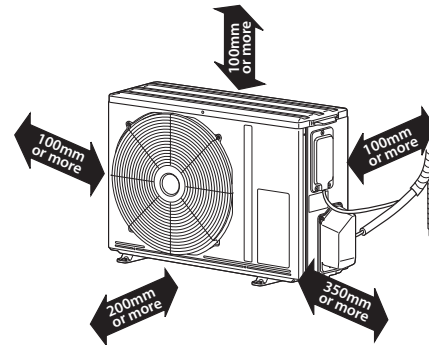
- Sound pressure measurements were conducted in an anechoic chamber.
- The actual noise level depends on the distance from the unit and the acoustic environment.

Refrigerant piping length

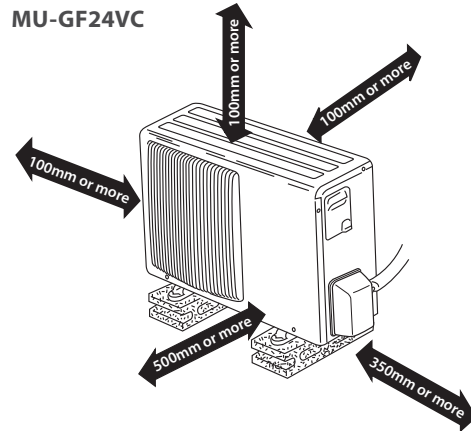
Models	Between indoor and outdoor units	
	Max. height difference (m)	Max. piping length (m)
MU-GF13VC	10	20
MU-GH13VA	10	25
MU-GH18/24VA MU-GF18/24VC MU-GM18/24VC	10	30
MU-GK30/36VAT MU-GF30VC MU-D36VC	15	30

Outdoor unit installation space requirements

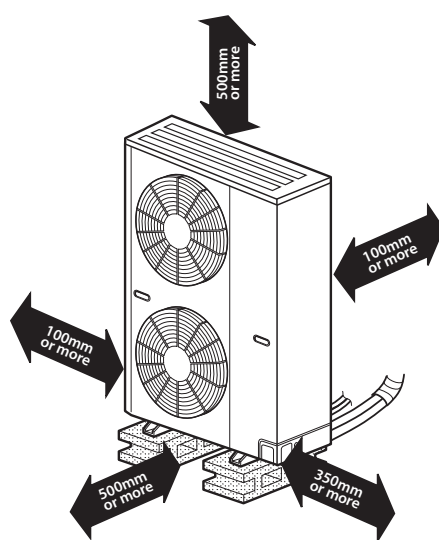
MU-GH13VA/GF13VC



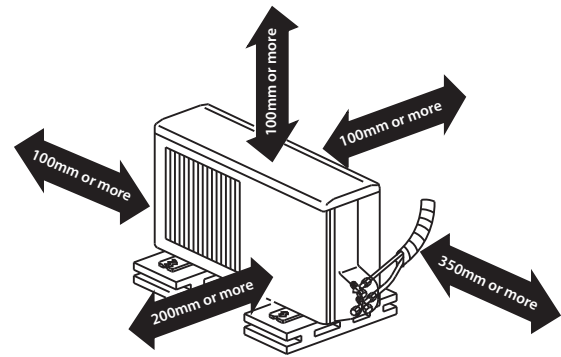
MU-GF24VC



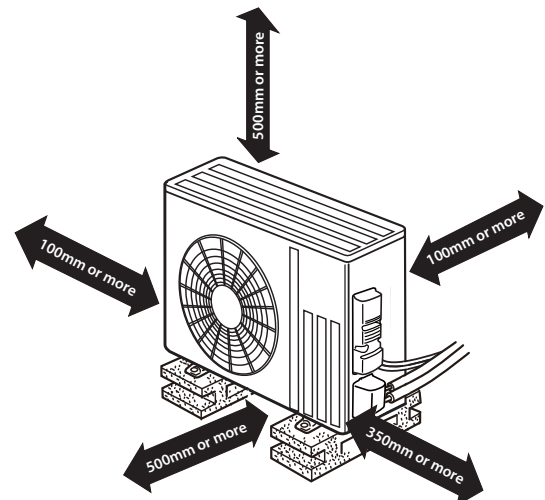
MU-GK36VA/D36VC



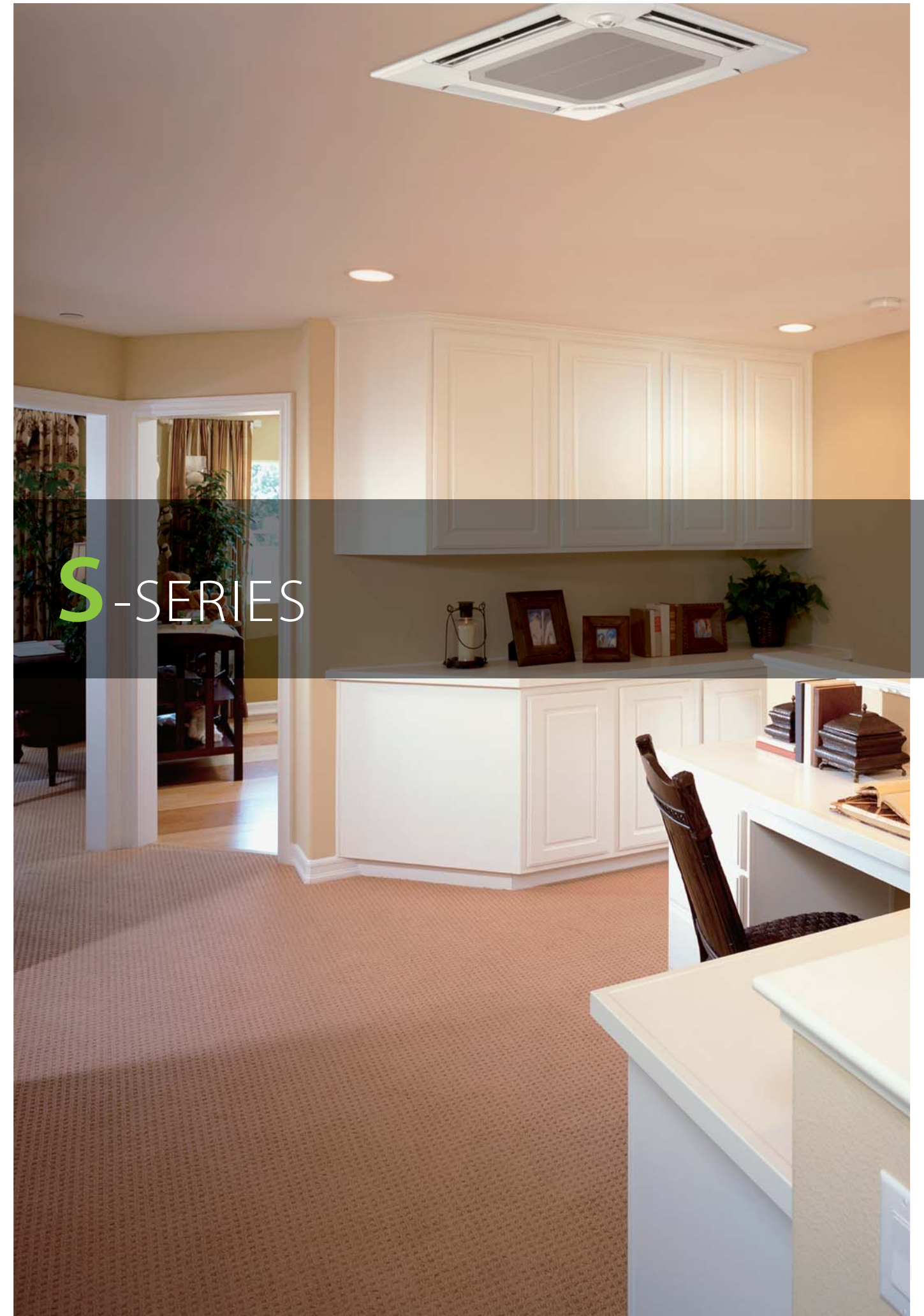
MU-GH18VA/GF18VC/GM18VC



MU-GK24VA/GK30VAT/GF30VC/GM24VC



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



2x2 ceiling-cassette

SL-AKLD SERIES



SL-2AKLD

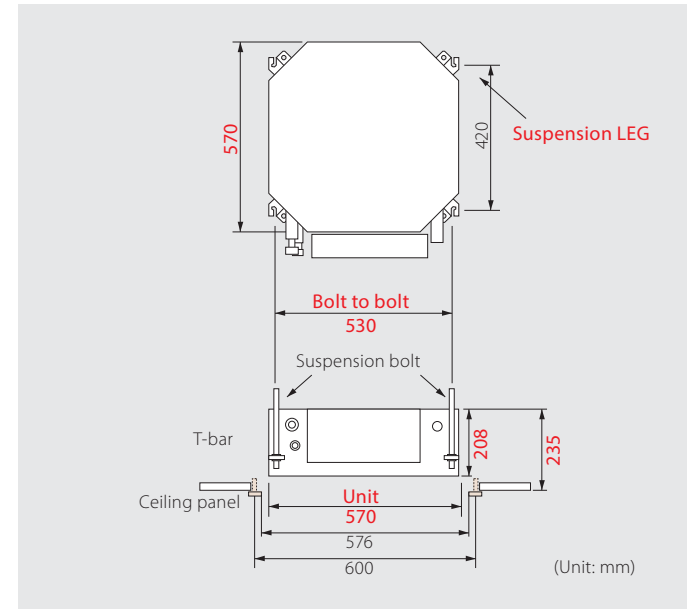


Compact panel size

Our 570mm SL Series are slim, attractive, yet powerful units. The SL's size and shape, which perfectly match 2-by-2 ceiling openings, and its light weight of 16.5kg, make installation even easier and more convenient.

Slim unit body offers easy installation

The slim 570mm body and its octagonal shape, which keeps the space between bolts at 530mm, ensure easy installation and hassle-free maintenance.



35dB whisper-quiet operation*

Ideal for cafés, bars, restaurants, and shops, creating comfortable environment for all customers.

* "Lo" setting

2,500hr long-life filter

Greatly reduces the frequency that the filter needs to be replaced, making maintenance easier.

*May vary according to operating conditions.

Fresh-air intake

Provides indoor-air of the highest quality.

Smudge-free airflow

Reduces annoying drafts and smudging.

Features at a glance

Installation & Maintenance	Comfort	Others
Compact design	Auto-swing	System control
Drain water lift-up (500mm)	Smudge-free	Auto restart
Long-life filter (2500hr)	Computerized dehumidifier	Fresh-air intake
Flockless vanes	Quiet operation	Outdoor unit max. operating temp. of 46°C

Compact ceiling-concealed

SE-AKD SERIES



SE-2AKD
SE-2.5AKD



The SE Series of compact ceiling-concealed units offers an integrated package which ensures the ultimate in air-conditioning quality and comfort with minimum cost and installation fuss. The outdoor unit, indoor unit and remote controller work as a streamlined team, delivering air-conditioning performance that is ideal for homes, offices and hotels.

Compact design

The 270mm-high indoor unit saves installation space.

Simple installation and maintenance

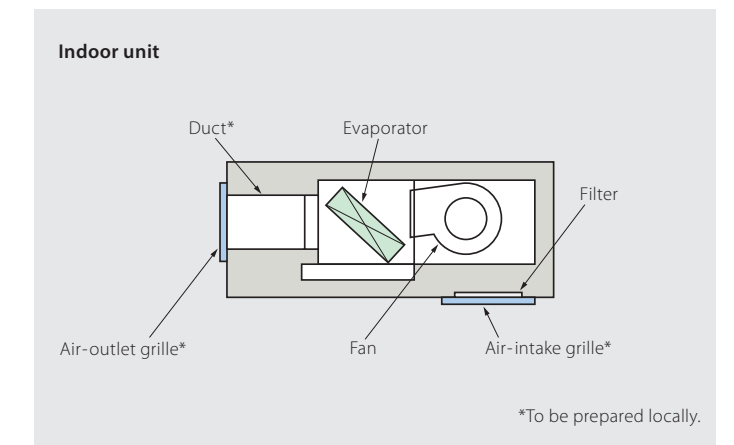
The SE Series offers the choice of positioning the air-intake grille at the rear or bottom of the unit. In addition, wiring and piping connections are simple and there is no need for expensive duct work.

Quiet operation

Comfortable, quiet operating noise levels of 31dB* and 50dB are realized for the indoor and outdoor units, respectively.

* "Lo" setting

Equipped with forward-curved, direct-drive centrifugal fan and two-speed motor



Features at a glance

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

S-SERIES R22 MODELS

Specifications

2x2 ceiling-cassette

SL-AKLD SERIES

Models				SL-2AKLD	
Cooling capacity	50Hz	W		5,100	
		BTU/h		17,400	
Total input (50Hz)		kW		1.93	
Indoor unit				SL-2AKLD	
Model name				SL-2AKLD	
External finish				Unit: Galvanized sheets with gray heat insulation Panel: Munsell 6.4Y 8.9/0.4	
Fan motor output		kW		0.02	
Airflow (low-mid-high)	50Hz	CMM		9-10-11	
		CFM		320-350-390	
External static pressure		Pa (mmAq)		0 (direct blow)	
Operation control/thermostat				Remote control/Built-in	
Noise level (low-mid-high)	50Hz	dB (A)		35-38-40	
Unit drain pipe I.D.		mm		32	
Dimensions	W	mm		Unit: 570 Panel: 650	
	D	mm		Unit: 570 Panel: 650	
	H	mm		Unit: 208 Panel: 20	
Weight		kg		Unit: 16.5 Panel: 3	
Outdoor unit				SU-2VAKD	
Model name				SU-2VAKD	
External finish				Munsell 3.0Y 7.8/1.1	
Refrigerant (R22) control				Capillary tube	
Compressor output	50Hz	kW		1.5	
Protection devices				Inner protector (compressor)	
Fan motor output		kW		0.05	
Airflow	50Hz	CMM (CFM)		38 (1,340)	
Noise level	50Hz	dB (A)		50	
Dimensions	W	mm		850	
	D	mm		290	
	H	mm		605	
Weight		kg		45	

Compact ceiling-concealed

SE-AKD SERIES

Models				SE-2AKD		SE-2.5AKD	
Cooling capacity	50Hz	W		5,600		6,400	
		BTU/h		19,100		21,800	
Total input (50Hz)		kW		1.94		2.38	
Indoor unit				SE-2AKD		SE-2.5AKD	
Model name				SE-2AKD		SE-2.5AKD	
External finish				Zinc coated steel			
Fan motor output		kW		0.032		0.06	
Airflow (low-high)	50Hz	CMM		12-17		12-20	
		CFM		424-600		424-705	
External static pressure		Pa (mmAq)		Std: 30 (3) Max: 50 (5)			
Operation control/thermostat				Remote control/Built-in			
Noise level (low-high)	50Hz	dB (A)		31-39		32-43	
Unit drain pipe thread		mm		Drain plug R1 male			
Dimensions	W	mm		1,100			
	D	mm		700			
	H	mm		270			
Weight		kg		35			
Outdoor unit				SU-2VAKD		SU-2.5VAKD	
Model name				SU-2VAKD		SU-2.5VAKD	
External finish				Munsell 3.0Y 7.8/1.1			
Refrigerant (R22) control				Capacity tube			
Compressor output	50Hz	kW		1.5		1.7	
Protection devices				Inner protector (compressor)			
Fan motor output		kW		0.05		0.06	
Airflow (low-high)	50Hz	CMM (CFM)		38 (1,340)		39 (1,390)	
Noise level	50Hz	dB (A)		50		52	
Dimensions	W	mm		850			
	D	mm		290			
	H	mm		605			
Weight		kg		45		52	



P-SERIES

4-way ceiling-cassette

PLY SERIES (R410A MODELS)
PL SERIES (R22 MODELS)

(i-see Sensor: optional)



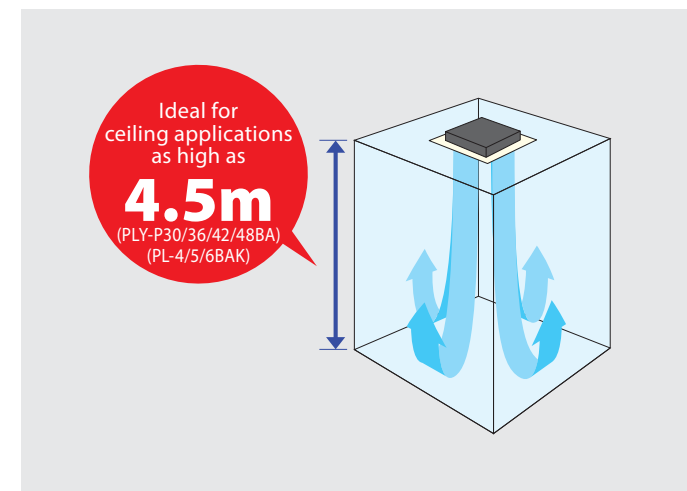
PLY-P18/24/30/36/42/48BA
PL-2/2.5/3/4/5/6BAK



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

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

(Unit: mm)

	PLY-P18/24BA, PL-2/2.5/3BAK		
	Low ceiling*	Standard	High ceiling
4-way	2.5	2.7	3.5
3-way	2.7	3.0	3.5

	PLY-P30/36/42/48BA, PL-4/5/6BAK		
	Low ceiling*	Standard	High ceiling
4-way	2.7	3.2	4.5
3-way	3.0	3.6	4.5

* 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 setting 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.



(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-P18/24BA, PL-2/2.5/3BAK)

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 high-capacity 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

Automatic Grille Lowering Function (Option)

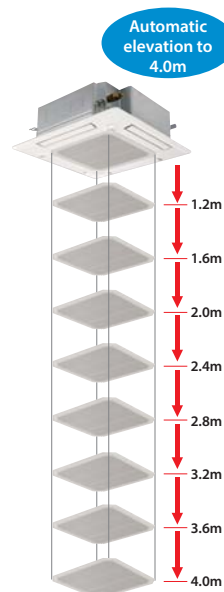
Easy to use/Simple maintenance

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



Elevating (up-down) controller

(comes with the automatic elevation panel)



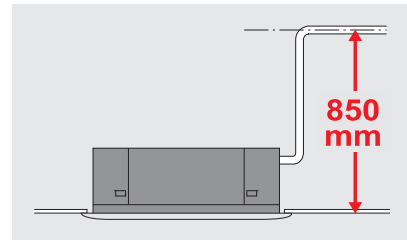
Fresh-air Intake

Indoor-air quality is significantly enhanced by the direct intake of fresh air from outside. An optional multi-function casement (PAC-SH53TM-E) is also available for the intake of a larger volume of air.

Fresh-air Intake

Drain Water Lifting Mechanism

A high-performance drain pump for removing drain water 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	Twin-multi operation
Drain water lifting (850mm)	Wide vane	Auto vane shutter
Handy corner pocket	Smudge/draft-free	Auto restart
Long-life filter (2500hr)*	High-ceiling application	Fresh-air intake
Self-diagnostic function	Computerized dehumidifier	Outdoor unit max. operating temp. of 46°C (PU-3: 52°C)
Filter indicator (for wired remote controller)	Quiet operation	
Flockless vanes	Bacteria- and mold-resistant filter	
Elevation grille		

*May vary according to operating conditions.

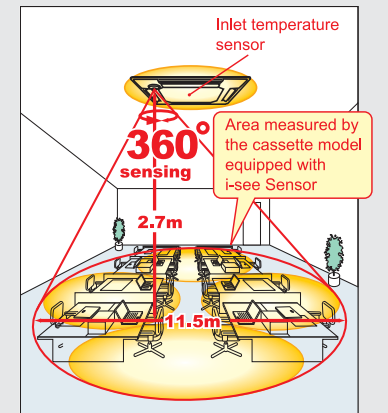
i-see Sensor

(optional corner panel)

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



With optional i-see Sensor corner panel

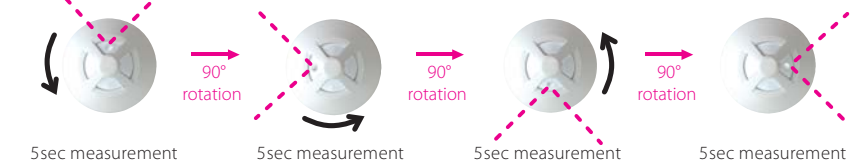


"i-see Sensor" temperature-sensing technology improves energy efficiency and enhances room comfort

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.

i-see Sensor Operation

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



Sensible temperature control prevents excessive cooling through pioneering control technology

By measuring the inlet temperature and floor temperature, the temperature felt by the human body (sensible temperature) is 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

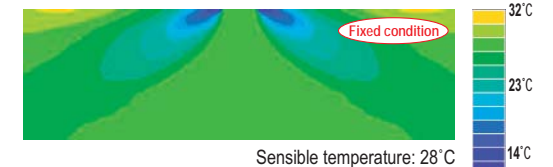
Example When you want a sensible temperature of 28°C.

Temperature set at 26 - 27°C, without the i-see Sensor

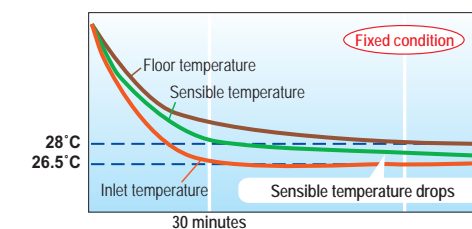


Sensible temperature: 26.5°C

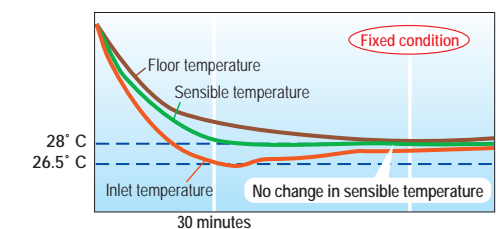
Temperature set at 28°C, with i-see Sensor and automatic air-speed adjustment mode



Sensible temperature: 28°C



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



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

Ceiling-suspended

PCY SERIES (R410A MODELS)

PC SERIES (R22 MODELS)



PCY-P18/24/30/36/42/48KA
PC-3/4/5/6KAK



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

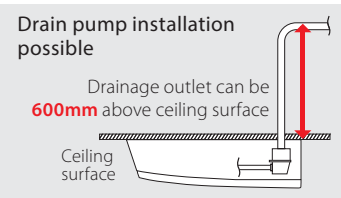
Stylish Indoor Unit Design

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



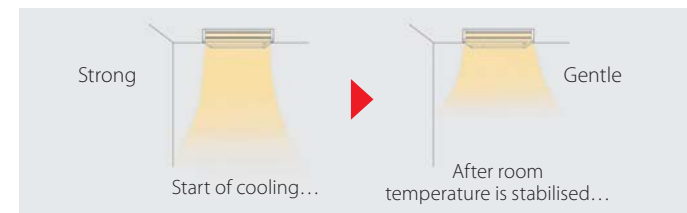
Optional Drain Pump for Full-capacity Models

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



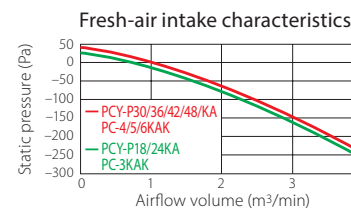
Automatic Air-speed Adjustment

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



Fresh-air Intake

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



Flockless Vanes

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

Features at a glance

Installation & Maintenance	Comfort	Others
Chargeless system	Auto swing	System control
New direct suspension system	Computerized dehumidifier	Twin-multi operation
Drain water lifting (600mm)*1	Quiet operation	Auto restart
Flexible piping		Auto vane shutter
Long-life filter (2500hr)*2		Outdoor unit max. operating temp. of 46°C (PU-3: 52°C)
High-efficiency filter*1		
Self-diagnostic function		

*1 Optional

*2 May vary according to operating conditions.

Ceiling-concealed

PEY SERIES (R410A MODELS)



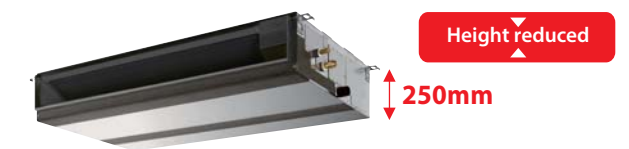
PEY-P18/24/30/36/42/48JA



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.

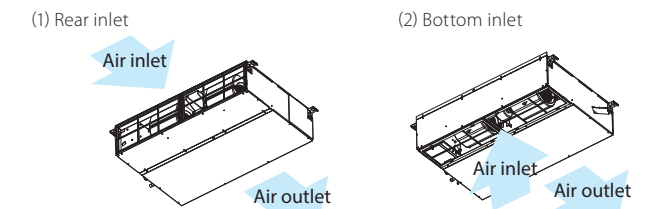
Compact Indoor Units

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.



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 should be quiet, such as a bedroom.



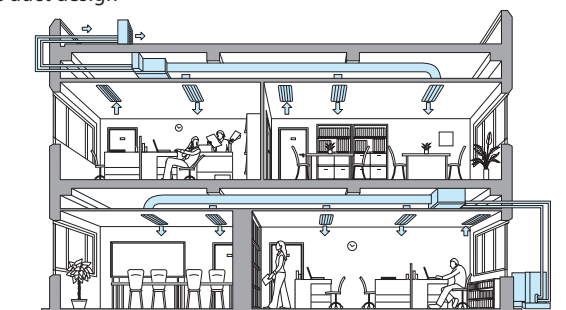
Wide Selection of Fan Speeds and External Static Pressure

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

Selectable external static pressure setting

Models	18	24	30	42	48
PEY-P·JA	35/50/70/100/125Pa				

Flexible duct design



Features at a glance

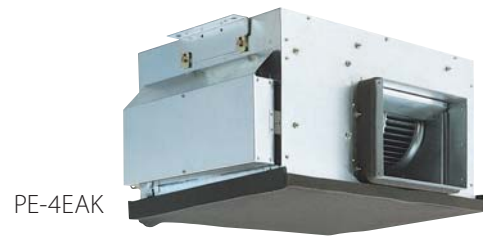
Installation & Maintenance	Comfort	Others
Chargeless system	Computerized dehumidifier	System control
Smooth installation	Quiet operation	Twin-multi operation
Self-diagnostic function		Auto restart
		Outdoor unit max. operating temp. of 46°C (PU-3: 52°C)

Ceiling-concealed

PE-EAK SERIES (R22 MODELS)



PE-3EAK2



PE-4EAK



PE-5EAK2
PE-6EAK2

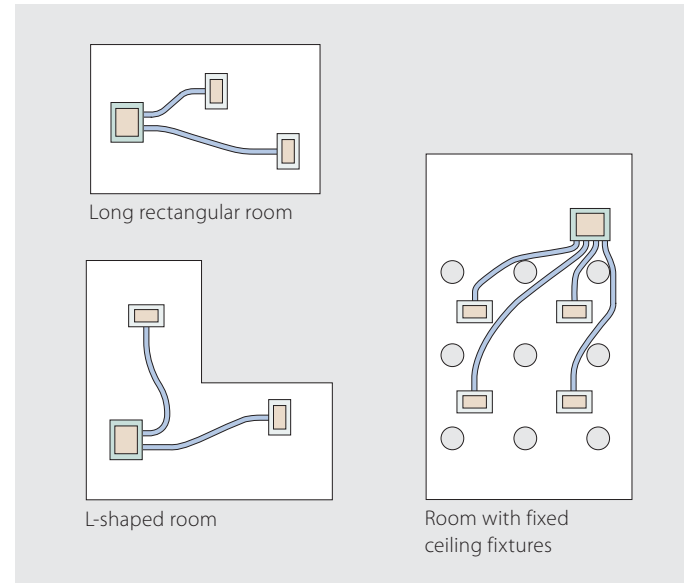


optional optional



Flexible duct design

Offering all the benefits of split-type models plus other important advantages, the PE/PED 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 3HP range, the PE-3EAK2 offers quiet operation and low unit height of 200mm, expanding application possibilities.

Selectable external static pressure setting

Models	3	4	5	6
PE-EAK	50Pa	63.5Pa	100Pa	

Features at a glance

Installation & Maintenance	Comfort	Others
Chargeless system	Computerized dehumidifier	System control
Smooth installation	Quiet operation	Twin-multi operation
Self-diagnostic function		Auto restart
		Outdoor unit max. operating temp. of 46°C (PU-3: 52°C)

Floor-standing

PS-GAKD SERIES (R22 MODELS)



PS-3GAKD
PS-4GAKD
PS-5GAKD
PS-6GAKD



Streamlined, lightweight design

The PS 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.

Whisper-quiet performance

To ensure extra comfort, the PS Series offers whisper-quiet operation thanks to a newly developed low-noise fan and improved air-duct design.

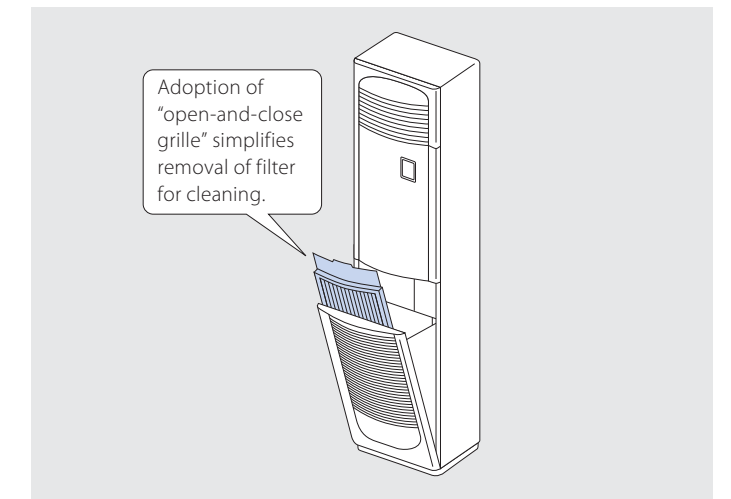
Less installation time; 4-way pipe directions

To reduce installation time, the piping connection position has been raised to simplify the arrangement of pipes. Piping can also be easily installed in four directions — rear, left, right and bottom.

Long-life filter as standard equipment

Indoor units are equipped with a long-life filter that has a maximum service life of 2,500hr* (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.

*May vary according to operating conditions.



Flockless vanes

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

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 temp. of 46°C (PU-3: 52°C)
Easily removable filter		
Long-life filter (2500hr)*		
Self-diagnostic function		
Flockless vanes		

*May vary according to operating conditions.

P-SERIES R410A MODELS

Specifications

4-way ceiling-cassette (50Hz/60Hz)

PLY SERIES

Models		PLY-P18BA	PLY-P24BA	PLY-P30BA	PLY-P36BA	PLY-P42BA	PLY-P42BA	PLY-P48BA	PLY-P48BA	
Cooling capacity	kW	5.3 (2.8-5.4)	7.1 (3.6-8.9)	8.8 (4.1-9.7)	10.6 (4.1-10.7)	12.3 (6.2-14.1)		13.2 (6.6-15.0)		
Cooling capacity (rated)	BTU/h	18,000	24,000	30,000	36,000	42,000		45,000		
Total input	kW	1.47	2.02	2.36	3.12	3.68		4.31		
EER	W/W	3.61	3.51	3.73	3.40	3.34		3.06		
Model name		PLY-P18BA	PLY-P24BA	PLY-P30BA	PLY-P36BA	PLY-P42BA	PLY-P42BA	PLY-P48BA	PLY-P48BA	
Indoor unit	Power supply	50Hz 1ph 220-240V 60Hz 1ph 220V								
	External finish	Munsell 6.4Y 8.9/0.4								
	Airflow (low-mid2-mid1-high)	CMM 12-13-14-16	14-16-18-20	20-22-25-28	24-26-29-32					
		CFM 425-460-495-565	495-565-635-705	705-775-885-990	850-920-1025-1130					
	External static pressure	Pa 0 (direct blow)								
	Operation control/thermostat	Remote control/Built-in								
	Noise level (low-mid2-mid1-high)	dB (A) 28-29-30-32		28-30-32-34	33-35-38-41	37-39-41-44				
	Unit drain pipe (outer diameter)	mm 32								
	Dimensions (panel)	W	mm 840 (950)		840 (950)					
		D	mm 840 (950)							
		H	mm 258 (35)		298 (35)					
	Weight (panel)	kg 19 (6)		22 (6)	24 (6)	26 (6)				
	Model name		SUY-KA18VA	SUY-KA24VA	SUY-KA30VA	SUY-KA36VA	PUY-P42VKA	PUY-P42YKA	PUY-P48VKA	PUY-P48YKA
	Outdoor unit	Power supply	50Hz 1ph 220-240V 60Hz 1ph 220V							
External finish		Munsell 3.0Y 7.8/1.1								
Refrigerant (R410A) control		Liner expansion valve								
Airflow		CMM (CFM) 34 (1200)	46 (1625)	51 (1800)	130 (4595)					
Noise level		dB (A) 51		54	56	58	55	56		
Dimensions		W	mm 800		840					
		D	mm 285							
		H	mm 550		880				1338	
Weight		kg 33		47	50	51	94	96	94	96
Max. height difference		m 12								
Max. piping length		m 20								
Pipe size (outer diameter)		mm Liquid: 6.35 Gas: 12.5		Liquid: 9.52, Gas: 15.88				Liquid: 9.52, Gas: 15.88		
Chargeless piping length		m 7								

Ceiling-concealed (50Hz/60Hz)

PEY SERIES

Models		PEY-P18JA	PEY-P24JA	PEY-P30JA	PEY-P36JA	PEY-P42JA	PEY-P42JA	PEY-P48JA	PEY-P48JA	
Cooling capacity	kW	5.3 (2.8-5.4)	7.1 (3.6-8.9)	8.8 (4.1-9.7)	10.2 (4.1-10.7)	12.3 (6.2-14.1)		13.5 (6.6-15.0)		
Cooling capacity (rated)	BTU/h	18,000	24,000	30,000	34,800	42,000		46,000		
Total input	kW	1.56	2.02	2.5	3.00	3.84		4.41		
EER	W/W	3.40	3.51	3.52	3.40	3.20		3.06		
Model name		PEY-P18JA	PEY-P24JA	PEY-P30JA	PEY-P36JA	PEY-P42JA	PEY-P42JA	PEY-P48JA	PEY-P48JA	
Indoor unit	Power supply	50Hz 1ph 220-240V 60Hz 1ph 220V								
	External finish	Galvanized sheet								
	Airflow (low-mid-high)	CMM 12-14.5-17	17.5-21-25	24-29-34	29.5-35.5-42					
		CFM 425-510-600	620-740-885	850-1025-1200	1040-1225-1485					
	External static pressure	Pa 35-50-70-100-125								
	Operation control/thermostat	Remote control/Built-in								
	Noise level (low-mid-high)	dB (A) 30-35-39		30-34-39	33-38-42	36-40-44				
	Unit drain pipe (outer diameter)	mm 32								
	Dimensions	W	mm 900		1100		1400			
		D	mm 732							
		H	mm 250							
	Weight	kg 27		29	38	39				
	Model name		SUY-KA18VA	SUY-KA24VA	SUY-KA30VA	SUY-KA36VA	PUY-P42VKA	PUY-P42YKA	PUY-P48VKA	PUY-P48YKA
	Outdoor unit	Power supply	50Hz 1ph 220-240V 60Hz 1ph 220V							
External finish		Munsell 3.0Y 7.8/1.1								
Refrigerant (R410A) control		Liner expansion valve								
Airflow		CMM (CFM) 34 (1200)	46 (1625)	51 (1800)	130 (4595)					
Noise level		dB (A) 51		54	56	58	55	56		
Dimensions		W	mm 800		840					
		D	mm 285							
		H	mm 550		880				1338	
Weight		kg 33		47	50	51	94	96	94	96
Max. height difference		m 12								
Max. piping length		m 20								
Pipe size (outer diameter)		mm Liquid: 6.35 Gas: 12.5		Liquid: 9.52, Gas: 15.88				Liquid: 9.52, Gas: 15.88		
Chargeless piping length		m 7								

Ceiling-suspended (50Hz/60Hz)

PCY SERIES

Models		PCY-P18KA	PCY-P24KA	PCY-P30KA	PCY-P36KA	PCY-P42KA	PCY-P42KA	PCY-P48KA	PCY-P48KA	
Cooling capacity	kW	5.3 (2.8-5.4)	7.1 (3.6-8.9)	8.8 (4.1-9.7)	10.6 (4.1-10.7)	12.3 (6.2-14.1)		13.5 (6.6-15.0)		
Cooling capacity (rated)	BTU/h	18,000	24,000	30,000	36,000	42,000		46,000		
Total input	kW	1.51	2.09	2.59	3.12	3.68		4.41		
EER	W/W	3.51	3.40	3.40	3.40	3.34		3.06		
Model name		PCY-P18KA	PCY-P24KA	PCY-P30KA	PCY-P36KA	PCY-P42KA	PCY-P42KA	PCY-P48KA	PCY-P48KA	
Indoor unit	Power supply	50Hz 1ph 220-240V 60Hz 1ph 220V								
	External finish	Munsell 6.4Y 8.9/0.4								
	Airflow (low-mid2-mid1-high)	CMM 16-17-18-20	16-18-20-22	24-26-28-30	27-29-32-34					
		CFM 565-600-635-705	565-635-705-775	850-920-990-1060	955-1025-1130-1200					
	External static pressure	Pa 0 (direct blow)								
	Operation control/thermostat	Remote control/Built-in								
	Noise level (low-mid2-mid1-high)	dB (A) 34-36-38-40		34-36-40-42	39-41-43-45	42-44-46-48				
	Unit drain pipe (internal diameter)	mm 26								
	Dimensions	W	mm 1280		1600					
		D	mm 680							
		H	mm 230							
	Weight	kg 32		37	40					
	Model name		SUY-KA18VA	SUY-KA24VA	SUY-KA30VA	SUY-KA36VA	PUY-P42VKA	PUY-P42YKA	PUY-P48VKA	PUY-P48YKA
	Outdoor unit	Power supply	50Hz 1ph 220-240V 60Hz 1ph 220V							
External finish		Munsell 3.0Y 7.8/1.1								
Refrigerant (R410A) control		Liner expansion valve								
Airflow		CMM (CFM) 34 (1200)	46 (1625)	51 (1800)	130 (4595)					
Noise level		dB (A) 51		54	56	58	55	56		
Dimensions		W	mm 800		840					
		D	mm 285							
		H	mm 550		880				1338	
Weight		kg 33		47	50	51	94	96	94	96
Max. height difference		m 12								
Max. piping length		m 20								
Pipe size (outer diameter)		mm Liquid: 6.35 Gas: 12.5		Liquid: 9.52, Gas: 15.88				Liquid: 9.52, Gas: 15.88		
Chargeless piping length		m 7								

P-SERIES R22 MODELS

Specifications

Ceiling-cassette (50Hz)

PL-BAK SERIES

Models			PL-2BAK	PL-2.5BAK	PL-3BAK	PL-4BAK	PL-5BAK	PL-6BAK
Cooling capacity	50Hz	W	5,300	6,700	7,900	10,300	13,100	15,000
		BTU/h	18,100	22,900	27,000	35,100	44,700	51,200
Total input (50Hz)		kW	1.96	2.36	3.34	(V) 3.71, (Y) 3.64	4.35	5.38
Indoor unit			PL-2BAK	PL-2.5BAK	PL-3BAK	PL-4BAK	PL-5BAK	PL-6BAK
External finish			Galvanized sheet					
Fan motor output		kW	0.05			0.12		
Airflow (Lo-Med2-Med1-Hi)	50Hz	CMM	12-13-14-16	12-14-16-18	14-16-18-20	20-22-25-28	22-24-27-30	24-26-29-32
		CFM	425-460-495-565	425-495-565-635	495-565-635-705	705-775-885-990	780-850-955-1060	850-920-1025-1130
External static pressure		Pa (mmAq)	0 (direct blow)					
Operation control/thermostat			Remote controlled/Built-in					
Noise level (Low-Med2-Med1-Hi)	50Hz	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
Unit drain pipe I.D.		mm	32					
Dimensions	W	mm	840					
	D	mm	840					
	H	mm	258			298		
Weight		kg	22	23	25	27		
Indoor grille			Munsell 6.4Y 8.9/0.4					
Dimensions	W	mm	950					
	D	mm	950					
	H	mm	35					
Weight		kg	6					
Outdoor unit			PU-2VAKD	PU-2.5VAKD	PU-3VAKD	PU-4V/YAKD2	PU-5YAKD	PU-6YAKD
External finish			Munsell 3.0Y 7.8/1.1					
Refrigerant (R22) control			Capillary tube					
Compressor output	50Hz	kW	1.5	1.7	2.5	2.7	3.5	4.2
Protection devices			Internal thermostat			(V, Y): Internal thermostat (Y): Thermal relay, Anti-phase protector	Thermal switch, HP switch, LP switch, Anti-phase protector, Thermal relay	
Fan motor output		kW	0.05	0.06	0.075	0.065 + 0.065	0.10 + 0.10	
Airflow	50Hz	CMM (CFM)	38 (1,340)	39 (1,390)	49 (1,730)	95 (3,350)	100 (3,530)	
Noise level	50Hz	dB (A)	50	52	53	54	55	56
Dimensions	W	mm	850			840	870	
	D	mm	290			330	295	
	H	mm	605			850	1,258	
Weight		kg	45	52	69	83	111	112

Ceiling-suspended (50Hz)

PC-KAK SERIES

Models			PC-3KAK	PC-4KAK	PC-5KAK	PC-6KAK
Cooling capacity	50Hz	W	7,900	10,300	12,800	14,400
		BTU/h	27,000	35,200	43,700	49,100
Total input (50Hz)		kW	3.31	3.61/3.54	4.2	5.22
Indoor unit			PC-3KAK	PC-4KAK	PC-5KAK	PC-6KAK
External finish			Munsell 6.4Y 8.9/0.4			
Fan motor output		kW	0.095			
Airflow (Lo-Hi)	50Hz	CMM	16-22	24-30	25-32	27-34
		CFM	565-775	850-1,060	885-1,130	955-1,200
External static pressure		Pa (mmAq)	0 (direct blow)			
Operation control/thermostat			Remote controller/Built-in			
Noise level (Lo-Hi)	50Hz	dB (A)	34-42	39-45	40-46	42-48
Unit drain pipe I.D.		mm	26			
Dimensions	W	mm	1,280			1,600
	D	mm	680			
	H	mm	230			
Weight		kg	32	36	38	39
Outdoor unit			PU-3VAKD	PU-4V/YAKD2	PU-5YAKD	PU-6YAKD
External finish			Munsell 3.0Y 7.8/1.1			
Refrigerant (R22) control			Capillary tube			
Compressor output	50Hz	kW	2.5	2.7	3.5	4.2
Protection devices			Inner protector (compressor)	(V): Inner protector (compressor) (Y): Inner protector (compressor) Thermal relay, Anti-phase protector	Thermal switch, HP switch, LP switch, Anti-phase protector, Thermal relay	
Fan motor output		kW	0.075	0.065 + 0.065	0.10 + 0.10	
Airflow	50Hz	CMM (CFM)	49 (1,730)	95 (3,350)	100 (3,530)	
Noise level	50Hz	dB (A)	53	54	55	56
Dimensions	W	mm	840			970
	D	mm	330			345
	H	mm	850			1,258
Weight		kg	69	83	111	112

Ceiling-concealed (50Hz)

PE-EAK SERIES

Models			PE-3EAK2	PE-4EAK	PE-5EAK2	PE-6EAK2
Cooling capacity	50Hz	W	7,300	9,800	12,100	14,000
		BTU/h	24,900	33,400	41,000	48,000
Total input (50Hz)		kW	3.33	(V) 3.77, (Y) 3.70	4.94	5.93
Indoor unit			PE-3EAK2	PE-4EAK	PE-5EAK2	PE-6EAK2
External finish			Galvanized sheet			
Fan motor output		kW	0.096	0.26	0.46	
Airflow (Lo-Hi)	50Hz	CMM	12-21	27-34	40-50	
		CFM	424-741	953-1,200	1,412-1,765	
External static pressure		Pa (mmAq)	50 (5)	63.5 (6.35) at Hi-notch	100 (10) at Hi-notch	
Operation control/thermostat			Remote controlled/Built-in			
Noise level (Lo-Hi)	50Hz	dB (A)	32-42*1	54-58*2	45-49*1 (52-59*2)	
Unit drain pipe I.D.		mm	R1			
Dimensions	W	mm	1,190	1,055	1,180	
	D	mm	700	690	634	
	H	mm	200	428	400	
Weight		kg	27	58	56	
Outdoor unit			PU-3VAKD	PU-4V/YAKD2	PU-5YAKD	PU-6YAKD
External finish			Munsell 3.0Y 7.8/1.1			
Refrigerant (R22) control			Capillary tube			
Compressor output	50Hz	kW	2.5	2.7	3.5	4.2
Protection devices			Internal thermostat	(V, Y): Internal thermostat, (Y): Thermal relay, Anti-phase protector	Thermal switch, HP switch, LP switch, Anti-phase protector, Thermal relay	
Fan motor output		kW	0.075	0.065 + 0.065	0.10 + 0.10	
Airflow	50Hz	CMM (CFM)	49 (1,730)	95 (3,350)	100 (3,530)	
Noise level	50Hz	dB (A)	53	54	55	56
Dimensions	W	mm	840	870	970	
	D	mm	330	295	345	
	H	mm	850	1,258		
Weight		kg	69	83	111	112

* 1 Measured at 1.5m beneath the unit connected with 2m-long outlet duct and 1m-long inlet duct.

* 2 Measured at 2m forward and 1m beneath the foreside of the unit connected with 1m-long outlet and inlet duct.

Floor-standing (50Hz)

PS-GAKD SERIES

Models			PS-3GAKD	PS-4GAKD	PS-5GAKD	PS-6GAKD
Cooling capacity	50Hz	W	7,700	9,800	12,400	14,800
		BTU/h	26,300	33,400	42,300	50,500
Total input (50Hz)		kW	3.33	(V) 3.69, (Y) 3.62	4.33	5.40
Indoor unit			PS-3GAKD	PS-4GAKD	PS-5GAKD	PS-6GAKD
External finish			Munsell 0.70Y 8.59/0.97			
Fan motor output		kW	0.03	0.07	0.11	0.12
Airflow (Lo-Hi)	50Hz	CMM	14-17	22-28	23-31	25-32
		CFM	494-600	776-988	812-1,094	882-1,130
External static pressure		Pa (mmAq)	0 (direct blow)			
Operation control/thermostat			Built-in			
Noise level (Lo-Hi)	50Hz	dB (A)	37-42	42-47	43-49	45-50
Unit drain pipe I.D.		mm	20			
Dimensions	W	mm	600			
	D	mm	270	350		
	H	mm	1,900			
Weight		kg	43	51	53	
Outdoor unit			PU-3VAKD	PU-4V/YAKD2	PU-5YAKD	PU-6YAKD
External finish			Munsell 3.0Y 7.8/1.1			
Refrigerant (R22) control			Capillary tube			
Compressor output	50Hz	kW	2.5	2.7	3.5	4.2
Protection devices			Internal thermostat	(V, Y): Internal thermostat, (Y): Thermal relay, Anti-phase protector	Thermal switch, HP switch, LP switch, Anti-phase protector, Thermal relay	
Fan motor output		kW	0.075	0.065 + 0.065	0.10 + 0.10	
Airflow	50Hz	CMM (CFM)	49 (1,730)	95 (3,350)	100 (3,530)	
Noise level	50Hz	dB (A)	53	54	55	56
Dimensions	W	mm	840	870	970	
	D	mm	330	295	345	
	H	mm	850	1,258		
Weight		kg	69	83	111	112

S-SERIES/P-SERIES R410A MODELS

Specifications and installation

Notes for All Specifications

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

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

	Indoor	Outdoor	
		18/24/30/36/42/48V	42/48V
50Hz	Single-phase, 220-240V	Single-phase, 220-240V	Three-phase, 380-415V
60Hz	Single-phase, 220V	Single-phase, 220V	Three-phase, 380V

Guaranteed Operating Range (Cooling)

Cooling	Indoor	Outdoor	
		SUY-KA18/24/30/36VA	PUY-P42/48V/YKA
Upper limit	32°CDB/23°CWB	46°CDB	46°CDB
	21°CDB/15°CWB	18°CDB	-5°CDB

*DB: Dry Bulb WB: Wet Bulb

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 Length

Models	Between indoor and outdoor units		Pipe size (mm, outer dia.)	Thickness (mm)
	Max. height difference (m)	Max. piping length (m)		
SUY-KA18	12	20	Liquid: ø6.35 Gas: ø12.7	t 0.8
SUY-KA24/30/36	15	30	Liquid: ø9.52 Gas: ø15.88	t 1.0
PUY-P42V/YKA PUY-P48V/YKA	30	50	Liquid: ø9.52 Gas: ø15.88	t 0.8 t 1.0

Refrigerant Requirements (R410A: kg)

Models	Factory charged	Additional charge										Calculation
		7m	10m	15m	20m	25m	30m	35m	40m	45m	50m	
SUY-KA18	1.2	0.05	0.12	0.2	-	-	-	-	-	-	-	Xg=15g/m x (length-7)m
SUY-KA24	2.0	0.06	0.16	0.26	0.36	0.36	-	-	-	-	-	Xg=20g/m x (length-7)m
SUY-KA30	2.1	0.06	0.16	0.26	0.36	0.46	-	-	-	-	-	Xg=20g/m x (length-7)m
SUY-KA36	2.5	0.06	0.16	0.26	0.36	0.46	-	-	-	-	-	Xg=20g/m x (length-7)m
PUY-P42V/YKA PUY-P48V/YKA	4.2	0	0	0	0	0	0.15	0.3	0.45	0.6	-	Xg=30g/m x (length-30)m

Outdoor unit installation space requirements

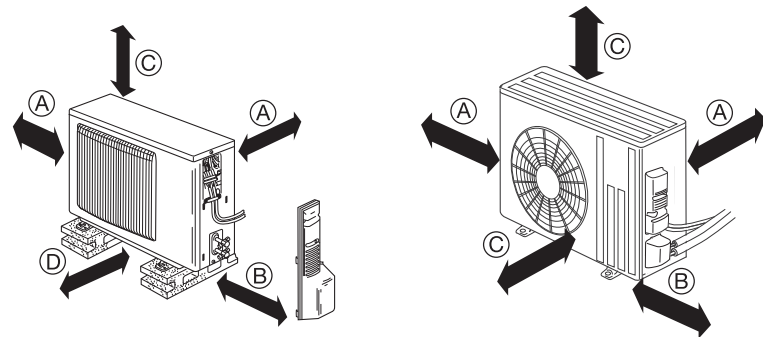
<S Series>

■ SUY-KA18VA

■ SUY-KA24VA

■ SUY-KA30VA

■ SUY-KA36VA

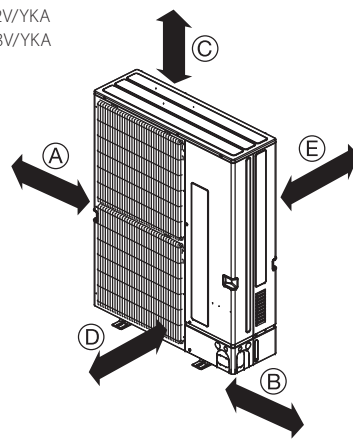


	SUY-KA18VA	SUY-KA24, 30, 36VA
(A)	100mm or more	
(B)	350mm or more	
(C)	100mm or more	500mm or more
(D)	200mm or more	-

<P Series>

■ PUY-P42V/YKA

■ PUY-P48V/YKA



	PUY-P42, 48V/YKA
(A)	15mm or more
(B)	15mm or more
(C)	Free
(D)	1,000mm or more
(E)	150mm or more

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

S-SERIES/P-SERIES R22 MODELS

Specifications and installation

Notes for All Specifications

Rating conditions
Cooling – Indoor: 27°C DB, 19°C WB Outdoor: 35°C DB
Refrigerant piping length (one-way): 5m

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

	Indoor	Outdoor		
		2/2.5/3 HP	4 HP	5/6 HP
50Hz	Single-phase, 220-240V	Single-phase, 220-240V		—
	—	Three-phase, 380V/220V, 400V/230V, 415V/240V, 4 wire		—

Guaranteed Operating Range (Cooling)

Cooling	Indoor	Outdoor	
		SU-2/2.5VAKD, PU-2/2.5/4/VAKD(2), PU-4/5/6YAKD(2)	PU-3VAKD
Upper limit	35°C DB, 22.5°C WB	46°C DB	52°C DB
Lower limit	21°C DB, 15.5°C WB	21°C DB	21°C DB

Refrigerant Piping Length

Models	Between indoor and outdoor units		Pipe size (mm, outer dia.)
	Max. height difference (m)	Max. piping length (m)	
SL-2, SE-2	10	30	Liquid: ø6.35 Gas: ø15.88
PL-2, PL-2.5, SE-2.5	10	30	Liquid: ø9.52 Gas: ø15.88
PC-3, PL-3, PS-3, PE-3	15	30	
PC-4, PL-4, PE-4, PS-4	30	40	Liquid: ø9.52 Gas: ø19.05
PC-5, PL-5, PS-5, PE-5	50	50	
PC-6, PL-6, PS-6, PE-6			

Refrigerant Requirements (R22: kg)

Models	Piping length (one-way)									
	7m	10m	15m	20m	25m	30m	35m	40m	45m	50m
PL-2, SL-2, SE-2, SE-2.5, PU-2, SU-2, SU-2.5	0	0.075	0.20	0.325	0.45	0.575	-	-	-	-
PL-2.5, PU-2.5	0	0.045	0.12	0.195	0.27	0.345	-	-	-	-
PL-3, PC-3, PS-3, PE-3	0	0.075	0.20	0.325	0.45	0.575	-	-	-	-
PL-4, PC-4, PS-4, PE-4, PU-4	0	0.10	0.25	0.40	0.55	0.70	0.85	1.00	-	-
PL-5, PC-5, PS-5, PE-5, PU-5	0	0	0	0	0.15	0.30	0.45	0.60	0.75	0.9
PL-6, PC-6, PS-6, PE-6, PU-6	0	0	0	0	0.15	0.30	0.45	0.60	0.75	0.9

Notes: 1. No additional refrigerant charging necessary for up to 7 metres. (SU Series, PU-2/2.5/3/4)
2. No additional refrigerant charging necessary for up to 20 metres. (PU-5/6)

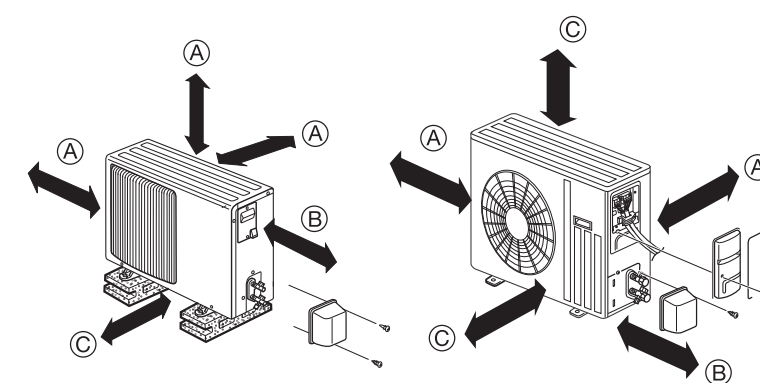
Outdoor unit installation space requirements

A. SU-2/2.5VAKD, PU-2/2.5/3VAKD

■ SU-2/2.5VAKD

■ PU-3VAKD

■ PU-2/2.5VAKD



	SU-2/2.5	PU-2/2.5	SU-3
(A)	100mm or more		
(B)	350mm or more	360mm or more	
(C)	500mm or more		

When the piping is to be attached to a wall containing metals (tin plated) or metal netting, use a chemically treated piece of wood 20mm or thicker between the wall and the piping, or wrap 7 to 8 turns of insulation vinyl tape around the piping.

Units should be installed by a licensed contractor and according to local code requirements.

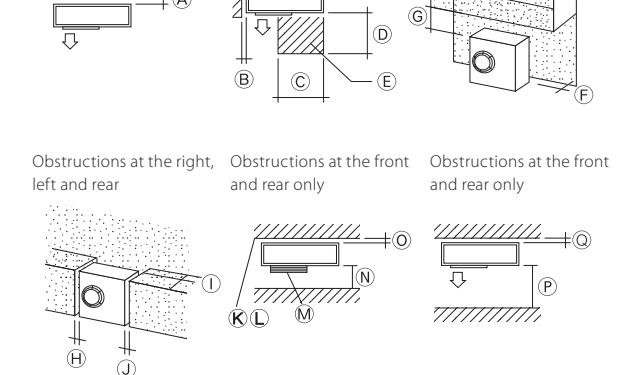
Notice: If there is any obstruction around the unit, check the condition details in the Data Book.

B. PU-4V/YAKD2, PU-5/6YAKD

Obstruction at rear only

Maintenance space

Top obstruction



	PU-4V/YAKD2, PU-5/6YAKD	
(A)	150mm or more	(J) 10mm or more
(B)	10mm or more	(K) Obstruction width: 1.5 times the width of outdoor unit or smaller
(C)	500mm or more	(L) Obstruction height: Unit height or lower
(D)	500mm or more	(M) Air outlet guide
(E)	Maintenance space	(N) 500mm or more
(F)	150mm or more	(O) 150mm or more
(G)	500mm or more	(P) 3800mm or more
(H)	10mm or more	(Q) 150mm or more
(I)	300mm or more	