



Mitsubishi  
Electric  
MEQ Quality



Best Award  
Reader's Digest SuperBrand &  
TrustedBrand (Asia or Singapore)  
2003 - 2023

Mitsubishi Electric  
**star'MEX**  
Air-Conditioner



# The **No.1** Specialist in **Energy Saving**

**EXCELLENT**  
Energy  
Savings

At the leading-edge of air conditioning technology

**EASY**  
To Clean!  
Easily accessible  
Inner vent

**QUIETEST**  
19dB



Cleaner Air  
Up to 99% PM2.5 particles filtered

Excellent  
Excellent  
Excellent  
Excellent

Excellent  
Excellent  
Excellent  
Excellent

Excellent  
Excellent  
Excellent  
Excellent

Excellent  
Excellent  
Excellent  
Excellent

1259 | 958 kWh  
Excellent  
Excellent  
Excellent

1449 | 1664 kWh  
Excellent  
Excellent  
Excellent

1653 | 2418 kWh  
Excellent  
Excellent  
Excellent

1714 | 2646 kWh  
Excellent  
Excellent  
Excellent

1790 | 2926 kWh  
Excellent  
Excellent  
Excellent

1918 | 3399 kWh  
Excellent  
Excellent  
Excellent



## Your Life, Our Technology – The Comfort Connection.

As everyone knows, nothing compares to the comfort that nature has to provide. Thanks to the many technical refinements, Mitsubishi Electric's air conditioner bring you closer to this ideal. Improved EER (Energy Efficiency Ratio) levels significantly reduce energy consumption while extremely quiet operation and the use of the Eco-friendly R32 refrigerant allow our series to create a naturally serene environment in every room of the house.



Inverter Multi Split	Type		Connectable Indoor Units	Page	Energy labelling scheme
	Model	Refrigerant			
MXY-2H20VF	up to <b>2</b> indoor units	DC Inverter	R32	MSXY-FP10/13/18VG	18
MXY-3H28VG	up to <b>3</b> indoor units	DC Inverter	R32	MSXY-FP20/24*VG	18
MXY-4H33VG	up to <b>4</b> indoor units	DC Inverter	R32	PEY-M50/60*/71*JAL	18
MXY-4H38VG	up to <b>4</b> indoor units	DC Inverter	R32	SEZ-M35/50*/71*DAL	18
MXY-5H48VG	up to <b>5</b> indoor units	DC Inverter	R32		18

Inverter Single Split	Type		Connectable Indoor Units	Page	Energy labelling scheme
	Model	Refrigerant			
MUY-GP10VF			MSY-GP10VF 	14	
MUY-GP13VF			MSY-GP13VF 	14	
MUY-GP15VF			MSY-GP15VF 	14	
MUY-GP18VF			MSY-GP18VF 	14	
MUY-GP20VF			MSY-GP20VF 	14	
MUY-GP24VF			MSY-GP24VF 	14	

Mr. SLIM Inverter Single Split	Type		Connectable Indoor Units	Page	Energy labelling scheme
	Model	Refrigerant			
SUY-ZM50VA			PLY-ZM50EA  PEY-M50JAL2 	22 23	
SUY-M60VA			PLY-M60EA  PEY-M60JAL2 	22 23	
SUY-M80VA			PLY-M80EA  PEY-M80JAL2 	22 23	
SUY-M100VA			PLY-M100EA  PEY-M100JAL2 	22 23	
PUY-M125VKA			PLY-M125EA  PEY-M125JAL2  PCY-M125KAL 	22 23 24	

# Cleaning-Free, Pipe Reuse Technology

## Mitsubishi Electric's Cleaning-Free Technology

Chloride residue builds up in existing pipes and becomes a source of trouble. In addition, the iron particles and slime produced as a result of compressor failure lead to problems. To counter this, various original Mitsubishi Electric technologies have been combined to enable the introduction of "cleaning-free pipe reuse."

### Why can't existing piping be used?



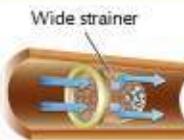
### Mitsubishi Electric's Original Replacement Technologies

#### Countermeasure for Problem 1

##### Technology 1

##### Original High-quality Filtration

Our original high-quality filtration device called the "wide strainer" is equipped inside the refrigerant inlet and outlet pipe. The "wide strainer" traps iron particles and realizes cleaning-free pipe reuse. In addition, improvements to the metal used in the bearings of our new scroll compressors realize more robust units.



#### Countermeasure for Problem 2

##### Technology 2

##### Friction Reduction (moving parts in compressor)

Friction inside the compressor is reduced by using an original Mitsubishi Electric technology called the "Heat Caulking Fixing Method" or coating the edge of the blade in the scroll compressor, thereby suppressing the increase in temperature that causes refrigerant oil deterioration.

**Existing piping can be used without cleaning**

## Advantages of Mitsubishi Electric's Cleaning-Free Technology



### SHORT WORKING PERIOD

- Cut in extensive works behind walls or above ceilings to install new piping.
- Cut in difficult tasks including welding works above the ceiling.



### COST-SAVING

- Cut in material costs to install the new piping.
- Great reduction in waste materials minimizes their disposal costs.
- Short period of work saves the installation costs.



### ECOLOGY

- Waste materials, such as ceiling materials and pipes, minimized.
- Being environmentally aware by 'reusing' meets the demand of the times.

### Cautions when using existing piping

- When removing an old air conditioning unit, please make sure to perform the pump-down process and recover the refrigerant and refrigerant oil.
- Check to ensure that the piping diameter and thickness match Mitsubishi Electric specifications.
- Check to ensure that the flare is compatible with R32·R410A. (The copper pipe flare-end shape and dimensions used for R410A can also be used for R32 air conditioners.)
- Refer to full replacement catalogue for more details.

# EASY CLEAN



THE WIDE AIR OUTLET MAKES CLEANING EASY,  
ALWAYS KEEPING THE AIR IN YOUR ROOM

CLEAN AND FRESH.



## EASY CLEAN's unique cleaning system

Open the blower outlet for cleaning



The entire front panel can be washed



Thorough cleaning keeps your home healthier and more comfortable.

### Eliminates odours

Always bringing you fresh air

### Prevents mould

The mould guard (internal drier) always keeps the inside unit clean

### Longer lasting high performance

Consistent performance from time of purchase

### Economical energy costs

Cleaning the fan (25%), the heat exchanger (5%) and the filter (15%) increases energy savings by a total of up to 45%!



# Dual Barrier Coating

A two barrier coating prevents dust and greasy dirt from sticking onto the air conditioner.



## State-of-the-art coating technology

Dirt is generally classified into two groups: hydrophilic dirt such as fiber dust and sand dust, and hydrophobic dirt such as oil and cigarette smoke. Mitsubishi Electric's dual barrier coating works as a two barrier coating with blended "fluorine particles" that prevent hydrophilic dirt penetration and "hydrophobic particles" that prevent hydrophobic dirt from getting into the air conditioner. This dual coating on the inner surface keeps the air conditioner clean year-round and improves energy efficiency while delivering comfortable clean air.

### Comparison of dirt on heat exchanger, fan and air duct (in-house comparison)



The inside of the indoor unit gets dirty after many years of usage.



### Consequences when the inside of the indoor unit is left dirty.

- Deterioration in energy efficiency
- Musty smell from the unit

**PM2.5**  
Filter

Cleaner Air



## Minute Particles Floating in the Air



PM2.5

Bacteria

House dust



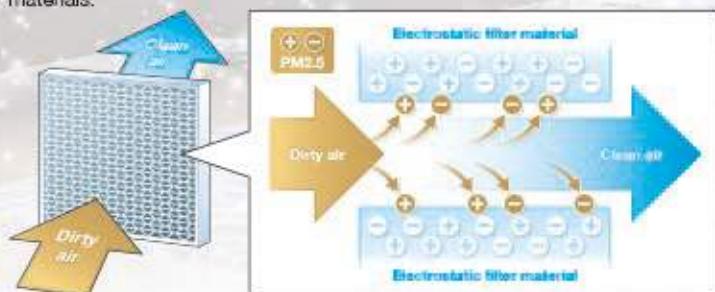
Model:  
**FP & GP**  
Series

Filter:  
Microparticle  
catching filter

# Microparticle catching filter effectively eliminates PM2.5

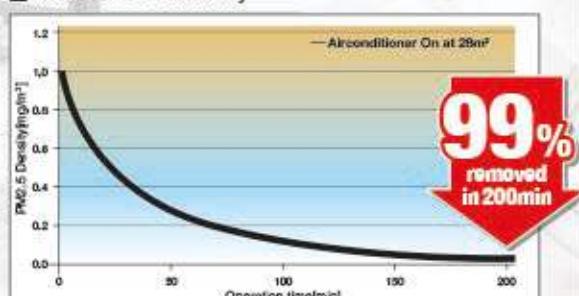
Effectively catches floating PM2.5 particles to maintain clean air in the room.

Electrostatic filter even effectively removes and eliminates minuscule particulate materials.



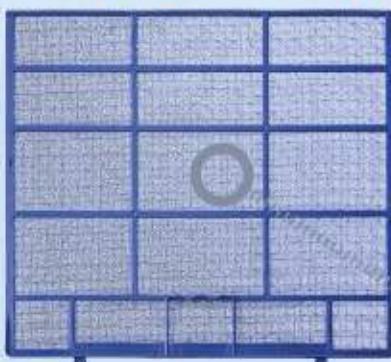
Electrostatic material removes PM2.5 from the air and absorbs it when passing through the filter

■ PM2.5 removal efficiency



Test conditions: Removal efficiency of particulates sizes ranging 0.3-2.5μm after operation for 200min using FN20 microparticle catching filter in 28m<sup>3</sup> enclosed space with tidal air circulation volume of 0.5/hr (in-house test)

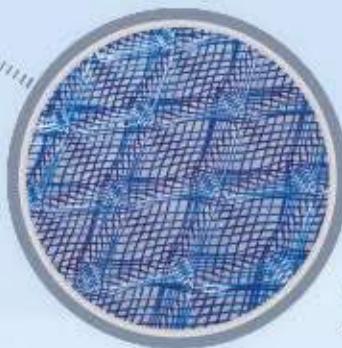
# NANO PLATINUM FILTER



**NANO PLATINUM FILTER**

For an air filtration system to be practical, it has to be simple to maintain and consistently deliver clean, fresh and healthy air. Nano platinum filter can protect your family from pollutant and allergens without extra effort or maintenance.

**FILTER CLOSE-UP**



Nano Platinum Filter

These filter uses nanotechnology, which makes them very efficient at absorbing odour at molecular level.

Impressive air filters are incredibly complicated, but purifies the air without adding challenging maintenance chores in your to-do list.



The filter catches dead mites and their droppings, pollen and other allergens on the filter filament, then decompose them with artificial enzymes. This break down allergen proteins into non allergen proteins. The complicated process involves destruction of undesirable proteins S-S bonds. The result is healthier, purer air.

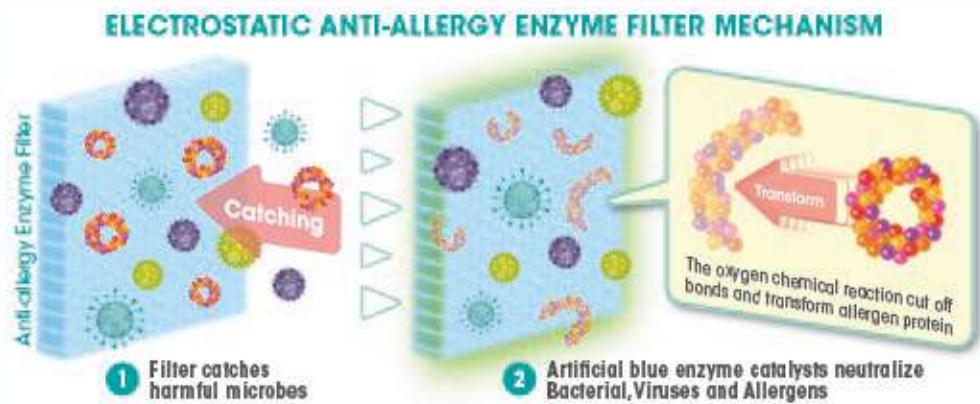


**ANTI-ALLERGY ENZYME FILTER**

## ANTI-ALLERGY ENZYME FILTER (OPTIONAL)



Neutralizes  
**99.9%**  
VIRUS &  
BACTERIA  
within  
**24**  
HOURS



# Easy, Clean & Comfortable



## Easy Clean Design

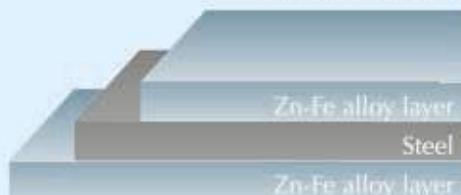
The easily detachable panel is a snap to wash and the airflow vents can be opened without any special tools for quick cleaning of the inside of the air conditioner. It is recommended that the air conditioner be cleaned regularly as this will increase both operating efficiency and energy savings. Always clean the heat exchanger, fan and air vent to ensure proper performance and economical operations.



## Anti-Rust Treatment (Blue Fin)

Each cabinet of the outdoor unit has been applied with a special anti-rust treatment.

Outdoor Cabinet



## Auto Mode

We offer you an easy way to comfort with auto mode. "Auto Vane" is created to set the vane angle automatically. "Auto Fan" is created to adjust airflow speed automatically. These allow ideal temperature to be achieved in the shortest time.



## LCD Remote Controller

From temperature and operation modes to air volume and direction, you will be able to customize your environment at the touch of the button. Large and easy to identify buttons allow easy access to frequent used functions. The LCD display allows you to check temperature and operating condition at a glance with an easy slide cover that prevents inadvertent operations of preset controls and other functions.



## Fuzzy Logic "I Feel"

Is the room too hot, too cold, too dry or too humid? On auto mode selection, the fuzzy logic control system adjusts condition to suit you. Your selected temperature setting will be stored in the memory system and generate automatically every time you operate the aircon.

# Mitsubishi Electric's Main Technology

## Inverter Technology

**DC**  
Inverter

### The Quiet Air Conditioner in the Market

A high efficiency DC motor drives the fan of the outdoor unit. It offers up to 60% greater efficiency than an equivalent motor.



### Joint Wrap DC Motor

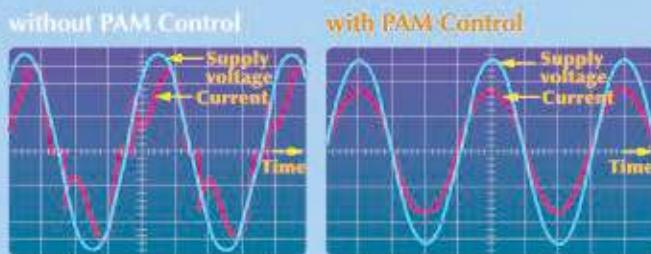
Mitsubishi Electric's unique Joint Wrap Motor is environmentally friendly, using less copper wiring than conventional motors through the employment of joint wrap production techniques. This concentrated winding DC motor features our original high density, concentrated winding technique and a reliable, high efficient motor.



**PAM**  
Control

### Pulse Amplitude Modulation

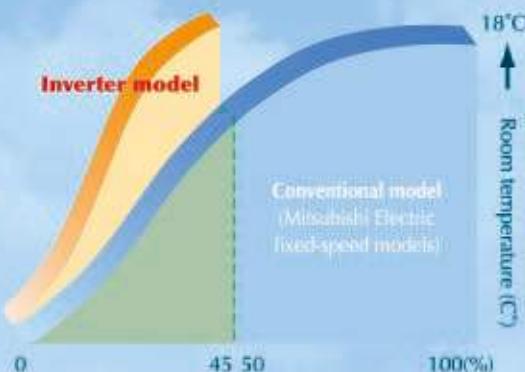
Electricity can be used efficiently with less loss, the current wave resembles the supply voltage wave. PAM is a method for controlling the form of waves so that it conforms to the supply voltage waves. With PAM, 98% of input power supply is effectively used.



PAM adjusts the form of current wave so that it is close to that of the supply voltage wave. High harmonics is reduced and 98% of the electricity is utilized.

### Higher Speed Cooling

Our advanced inverter technology enables efficient high-speed cooling by precisely and flexibly controlling the rotation of the compressor according to individual cooling needs. Example, during summer months, the compressor speed is automatically set at a maximum level of 30% faster than non inverter models. Thus, the room takes lesser time to cool.



Compared to conventional models, desired temperatures are reached much more rapidly.

### Optimum Comfort Year-Round

To ensure that a room is never too cold or too hot, inverter technology allows the air conditioner to detect subtle fluctuations in room temperature and adjust automatically. Unlike conventional air conditioning units that must start or stop repetitively, inverter units offer finely tuned operation - such as the accurate control of compressor rotation - for a more comforting airflow and far less temperature variations.

#### Using a Motorcycle as an Example

**Power increased**  
Efficient increase of voltage for increased power

**Significant energy savings**  
Electricity loss reduced for surprising energy savings



**Energy savings is limited**  
Fuel is wasted

**Power is limited**  
Power is insufficient for steep hills

\*This diagram illustrates the merits of PAM Control.

# Silent Operation & Energy Saving Technology

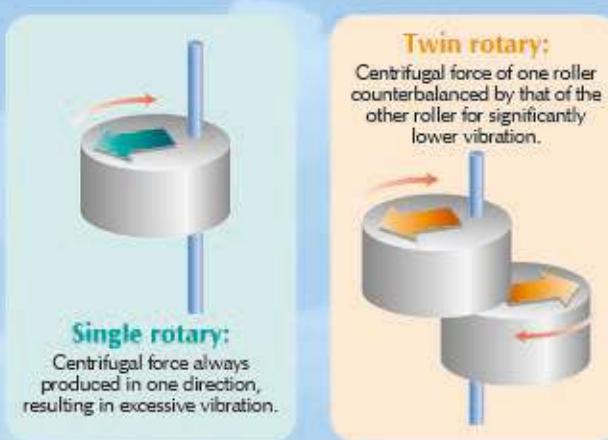
Only  
**19dB**

## The Quiet Air Conditioner in the Market



Noise level for silent mode operation is only at 19dB for MSY-CP10VF and MSXY-FP10,13VG making them one of the quiet units in the market. The multi-angled heat exchanger has a modified fin shape that reduces air resistance for a smoother, quieter airflow. The wide fan diameter produces great airflow at lower fan speeds and the uneven pitch between each fan blade helps to eliminate noise.

## Twin Rotary Compressor ensure Peace and Quiet

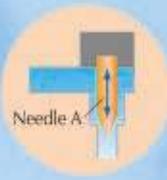


Unlike conventional models with single rotary, all Inverter Multi Split System outdoor units feature a twin rotary compressor that provides balanced rotation as the centrifugal force of one roller is counterbalanced by the other. This significantly reduces both vibration and noise. This is why Mitsubishi Electric's outdoor units are so peacefully quiet.

**NEW  
LEV**

## New LEV Control

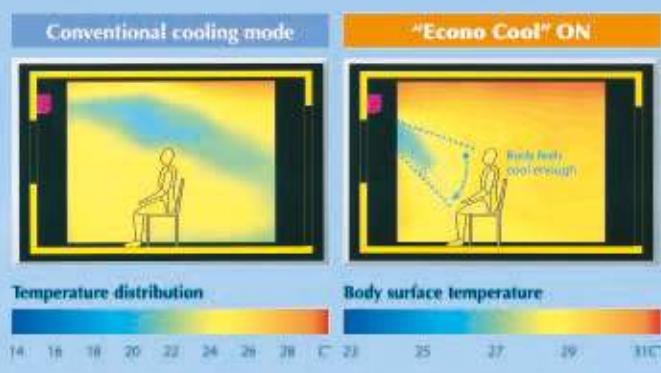
Linear Expansion Valve automatically adjusts the volume of refrigerant flowing through the air conditioner according to air conditioning load. When the load is low, Needle A drops, restricting the flow path and decreasing the volume of refrigerant. Circulation is then optimized to facilitate more economical operation.



**Econo Cool**

## Econo Cool – Smart Save

The Econo Cool, one touch operation automatically adjust the direction of the airflow based on the temperature at the air outlet. The set temperature can therefore be 2°C above conventional temperature setting without loss of comfort and with 20% increase in energy efficiency.



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

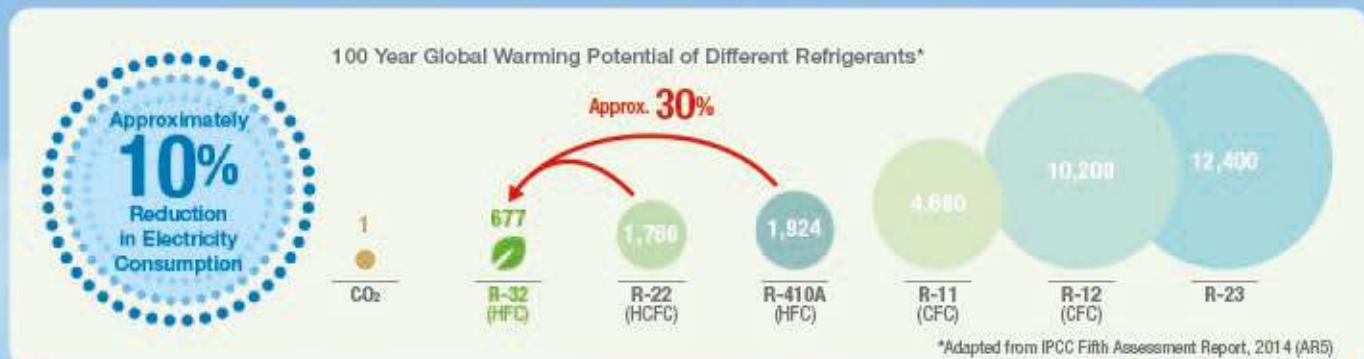


# Benefits of R32 Gas

A new genesis gas lowering green house effect

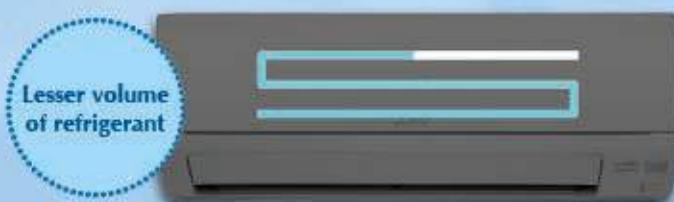
## Low in GWP Value

Refrigerant has been a debatable topic as a contribution factor that harm the ozone layer. R32 gas - an environmentally friendly and energy efficient refrigerant offers a new alternative. Having a low GWP value of only 677, its 1/3 of the GWP value that R410A carries, lowering carbon emission by 30%.



## Requires Less Refrigerant Volume

The lower density characteristic of R32 air conditioning systems require 15-20% less refrigerant than R410A equivalents, making them more efficient. This means, lower carbon emission and lower energy cost with the same performance.



## Single Component of Gas

R32 is a single compound, CH<sub>2</sub>F<sub>2</sub> unlike R410A which is a mixture of difluoromethane and pentafluoroethane. Being a single component gas, R32 gas is more convenient to R410A gas. This will result in a smaller footprint, despite using compressors with the same capacity.



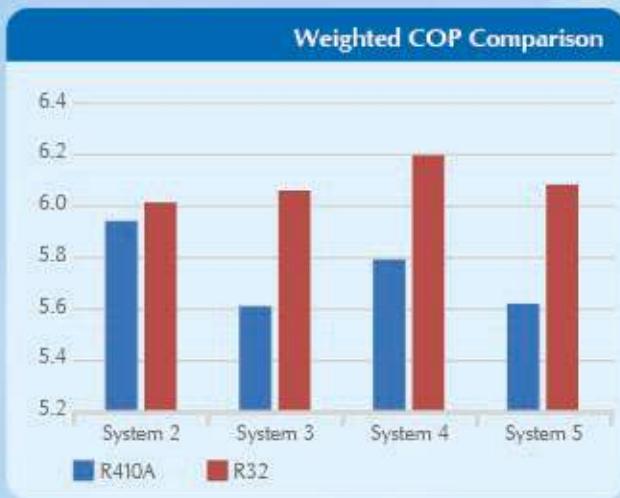
**System 5-R410A**  
MXY-5G48VA2  
Dimension (W x D x H)  
950 x 330 x 1048mm



**System 5-R32**  
MXY-5H48VG  
Dimension (W x D x H)  
950 x 330 x 796mm

## Higher Efficiency

R32 gas has a higher cooling capacity due to its higher critical temperature of 78.11°C. This results in higher efficiency and higher COP in the R32 gas system. In return, it approximately saves 10% of the electricity bill when compared to using R410A gas.



# FEATURES

## Energy Saving

	DC Inverter		Temperature Range Restriction
	PAM Control		New LEV Control
	Econo Cool		

## Comfort

	The Quiet Air-Conditioner In The Market
	Computerised Dehumidification Eliminate dampness for healthier and more comfortable air-conditioning, while enjoying great year-round economy.
	5 Step Vane Control & Swing Mode Five different airflow patterns & "Swing" mode match the interior layout and people in the room.
	Quiet Operation
	Powerful Cool
	Auto Mode
	Fuzzy Logic "I Feel"
	Wide Control
	Long Air-flow

## Installation & Maintenance

	Easy Clean Design
	Durable Electronic Metal Housing Box This special box protects the electronic circuitry from dust ensuring its reliable operation and preventing fire in the event of a short circuit.
	Anti-Rust Treatment
	Emergency Circuit Protection In the event of a sudden power surge, e.g. lighting, the circuits of 3 safety barriers (fuse, baristor, and surge absorber) are automatically broken first to protect the printed circuit board (PCB).
	Self-Diagnostic Function In the unlikely event of a malfunction, the LED on the indoor unit flashes to indicate the exact spot to be checked.

## Guaranteed Operating Range:

Mitsubishi Electric  
**starMEX**  
Air Conditioner

**Mr.SLIM**

Indoor	Outdoor	Indoor	Outdoor
MSXY-FP10/13/15/20/24VF MSY-GP10/13/15/18/20/24VF PEY-M50/60/71/AL SEZ-H135/90/71/AL	MXY-SH40VG MXY-SH35VG MXY-4H33VG MXY-3H28VG MXY-2H20VF MUY-GP10/13/15/18/20/24VF	PCY-M125KAL PLY-ZM50EA PLY-M60/80/100/125EA PEY-M50/60/80/100/125AL2	SUY-ZM50VA SUY-M60/80/100VA PUY-M125VKA
Cooling Upper limit	32°C DB / 23°C WB	46°C DB	32°C DB / 23°C WB
			46°C DB

### Note

- Rating conditions: Cooling – Indoor: 27°C DB / 19°C WB; Outdoor: 35°C DB. Refrigerant piping length (one way): 5 meters / indoor unit (inverter)
- Due to the compact high efficient design of heat exchanger, the use of wall mounted and cassette fan coil units are not recommended for hair saloon environment. Please contact our Dealers for recommendations of appropriate models.
- For wall mounted units, during COOL or DRY operation with the vane angle at Angle 4 or 5 when the compressor cumulative operation time exceeds 1 hour, the vane angle automatically changes to Angle 3 for dew prevention.

# Inverter Single Split System



Mitsubishi Electric  
**starMEX**  
air conditioners

The GP Series is designed for optimum cooling performance as well as operational comfort. Quiet, energy-saving operation is supported by some of Mitsubishi Electric's latest technologies.



## Indoor Unit



Dimensions (W X D X H):  
799 X 232 X 290 mm

**MSY-GP10VF**  
Cooling capacity: 2.5kW



Dimensions (W X D X H):  
923 X 250 X 305 mm

**MSY-GP13VF**  
Cooling capacity: 3.5kW

**MSY-GP18VF**  
Cooling capacity: 4.8kW

**MSY-GP15VF**  
Cooling capacity: 4.2kW

**MSY-GP20VF**  
Cooling capacity: 6kW



Dimensions (W X D X H):  
1100 X 238 X 325 mm

**MSY-GP24VF**  
Cooling capacity: 6.6kW



**MUY-GP10/13/15VF**

Dimensions (W X D X H):  
800 X 285 X 550 mm

**MUY-GP18/20VF**

Dimensions (W X D X H):  
800 X 285 X 714 mm

**MUY-GP24VF**

Dimensions (W X D X H):  
840 X 330 X 880 mm



## Model

Indoor	MSY-GP10VF	MSY-GP13VF	MSY-GP15VF	MSY-GP18VF	MSY-GP20VF	MSY-GP24VF
Outdoor	MUY-GP10VF	MUY-GP13VF	MUY-GP15VF	MUY-GP18VF	MUY-GP20VF	MUY-GP24VF
<b>Function &amp; Type</b>						
Capacity (Min - Max)	kW	2.5 (1.1 - 3.5)	3.5 (1.5 - 4.1)	4.2 (1.5 - 4.8)	4.8 (1.5 - 6.0)	6.0 (1.5 - 7.2)
Power Input	kW	0.51	0.81	0.97	1.11	1.58
Starting Current	A	2.70	3.80	4.50	5.00	7.00
Running Current	A	2.70	3.80	4.50	5.00	7.00
Airflow	CMM (m³/min)	4.3-5.4-7.2-9.3-13.6	6.1-10.7-12.2-15.0-18.0	8.6-10.7-12.2-15.0-19.2	6.8-9.1-12.2-14.8-18.4	6.8-9.1-12.2-14.8-19.0
Dimension (W X D X H)	Indoor mm Outdoor mm	799 x 232 x 290	923 x 250 x 305		800 x 285 x 550	1100 x 238 x 325
Net Weight	Indoor kg Outdoor kg	9	32.0	13	37.0	48.5
Indoor Sound Level*	(Silent - High) dB(A)	19.24-31.38-47	21.33-38-44-48	28.33-38-44-49	29.37-41-45-49	30.41-45-51
Outdoor Sound Level*	dB(A)	46	47	50	54	57
Connection Method	Indoor/Outdoor	Flared				
External Piping	Diameter Gas (in) Liquid (in)	mm mm	9.52		6.35	12.70
Piping Length	Max. length m Max. height m	m m	20		12	30
Refrigerant	R32					
Power Supply	V, Phase, Hz	230, 1, 50				
Pre-charged Refrigerant Quantity (Max)	kg	0.97 (0.97)	1.00 (1.00)		1.25 (1.25)	1.50 (1.50)
Energy Labelling Scheme						

\* Note: Sound level is measured in anechoic chambers.

Conversion formula: Btu/h=kW x 3412

# Inverter Multi Split System



Mitsubishi Electric  
**starMEX**  
Air Conditioner

Our Inverter Technology adjusts cooling capacity in response to conditions such as the difference between the outside and inside air temperatures, allowing our air conditioners to run more efficiently and reduce energy costs.



## Indoor Unit



Dimensions (w x d x h) : 799 X 232 X 290 mm

MSXY-FP10VG  
Cooling capacity: 2.8kW\*

MSXY-FP13VG  
Cooling capacity: 3.5kW\*

MSXY-FP18VG  
Cooling capacity: 5.0kW\*



Dimensions (w x d x h) : 923 X 250 X 305 mm

MSXY-FP20VG  
Cooling capacity: 6.0kW\*

MSXY-FP24VG  
Cooling capacity: 7.1kW\*

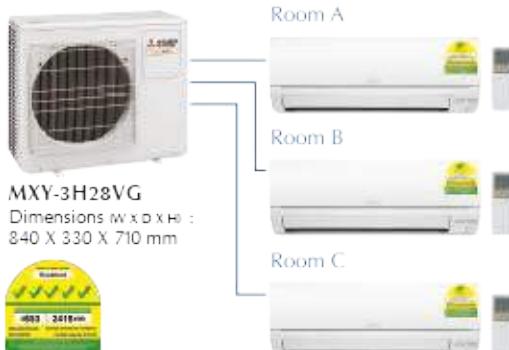


## Outdoor Unit

System 3

**3 Rooms** MXY-3H28VG Outdoor unit 1:3 Indoor units

(Optional drainage kit is available)



System 4

**4 Rooms** MXY-4H33VG Outdoor unit 1:4 Indoor units

(Optional drainage kit is available)



# Inverter Multi Split System



Mitsubishi Electric  
**starMEX**  
Air Conditioning

Our Inverter Technology adjusts cooling capacity in response to conditions such as the difference between the outside and inside air temperatures, allowing our air conditioners to run more efficiently and reduce energy costs.



## Indoor Unit



Dimensions (w x d x h) : 799 X 232 X 290 mm

MSXY-FP10VG  
Cooling capacity: 2.8kW\*

MSXY-FP13VG  
Cooling capacity: 3.5kW\*

MSXY-FP18VG  
Cooling capacity: 5.0kW\*



Dimensions (w x d x h) : 923 X 250 X 305 mm

MSXY-FP20VG  
Cooling capacity: 6.0kW\*

MSXY-FP24VG \*\*  
Cooling capacity: 7.1kW\*



## Outdoor Unit

### System 4

**4** MXY-4H38VG Outdoor unit 1:4 Indoor units

(Optional drainage kit is available)



### System 2

**2** MXY-2H20VF Outdoor unit 1:2 Indoor units

(Optional drainage kit is available)



# Inverter Multi Split System



Mitsubishi Electric  
**starMEX**  
Air Conditioner

Our Inverter Technology adjusts cooling capacity in response to conditions such as the difference between the outside and inside air temperatures, allowing our air conditioners to run more efficiently and reduce energy costs.



## Indoor Unit



Dimensions (w x d x h) : 799 X 232 X 290 mm

MSXY-FP10VG  
Cooling capacity: 2.8kW\*

MSXY-FP13VG  
Cooling capacity: 3.5kW\*

MSXY-FP18VG  
Cooling capacity: 5.0kW\*



Dimensions (w x d x h) : 923 X 250 X 305 mm

MSXY-FP20VG  
Cooling capacity: 6.0kW\*

MSXY-FP24VG  
Cooling capacity: 7.1kW\*



## Outdoor Unit

### System 5

**5 Rooms** MXY-5H48VG Outdoor unit 1:5 Indoor units

(Optional drainage kit is available)



MXY-5H48VG  
Dimensions (w x d x h) : 950 X 330 X 796 mm



Our New Starmex series range is designed to achieve industry's leading seasonal energy efficiency through use of new technologies and high-performance compressor.



**Indoor Unit**



**MSXY-FP10/13/18VG**  
Dimension (W X D X H): 799 X 232 X 290 mm



**MSXY-FP20/24VG**  
Dimension (W X D X H): 923 X 250 X 305 mm

**Outdoor Unit**



**MXY-2H20VF**  
Dimension (W X D X H): 800 X 285 X 550 mm



**MXY-3H28VG / MXY-4H33VG**  
Dimension (W X D X H): 840 X 330 X 710 mm



**MXY-4H38VG / MXY-5H48VG**  
Dimension (W X D X H): 950 X 330 X 796 mm

### Multi Split System

Model- Indoor Unit			MSXY-FP10VG	MSXY-FP13VG	MSXY-FP18VG	MSXY-FP20VG	MSXY-FP24VG
Rated Capacity ^	kW	2.0	2.0	3.5	5.0	6.0	7.1
Power Input	kW	0.028	0.028	0.036	0.042	0.059	0.059
Running Current	A	0.27	0.27	0.33	0.35	0.52	0.52
Airflow Rate	CMM (m³/min)	4.1-5.1-6.3-9.1-12.9	4.1-5.1-6.3-9.1-14.1	6.2-7.7-9.5-12.1-14.5	9.3-11.1-13.7-16.1-20.0		
Sound Level ^	dBA(A)	19-24-29-36-45	19-24-30-36-47	26-33-38-44-49	30-35-41-45-50		
Dimension (W X D X H)	mm		799 X 232 X 290			923 X 250 X 305	
Net Weight	kg		9			13	
External Piping	Diameter	Gas (g)	9.52			12.70	
		Liquid (g)		6.35			

Model- Outdoor Unit			MXY-2H20VF	MXY-3H28VG	MXY-4H33VG	MXY-4H38VG	MXY-5H48VG
Capacity (Min - Max)	kW	4.5 (1.3 - 6.5)	6.5 (1.3 - 8.9)	6.9 (1.3 - 10.7)	8.0 (1.4 - 11.6)	9.2 (1.4 - 13.0)	
Power Input	kW	0.91	1.33	1.42	1.62	1.89	
Starting Current	A	4.05	5.93	6.37	7.22	8.43	
Running Current	A	4.05	5.93	6.37	7.22	8.43	
Airflow	CMM (m³/min)	32.9	38.7	59.2	64.7		
Dimension (W X D X H)	Outdoor mm	800 X 285 X 550	840 X 330 X 710		950 X 330 X 796		
Net Weight	Outdoor kg	37	55	56	56	61	
Outdoor Sound Level ^	dBA(A)			49			
Connection Method	Indoor/Outdoor			Flared			
External Piping	Diameter	Gas (g)	2 no X 9.52	3 no X 9.52	1 no X 12.70 + 3 no X 9.52	1 no X 12.70 + 4 no X 9.52	
		Liquid (g)	2 no X 6.35	3 no X 6.35	4 no X 6.35	5 no X 6.35	
Piping Length	Max. Length (Each)	m	20		25		
	Max. Length	m	30	60	70	75	
	Max. Height **	m		15			
Refrigerant			R32				
Power Supply	V, Phase, Hz			230, 1, 50			
Pre-charged Refrigerant Quantity (Max)	kg	1.20 (1.20)	1.65 (1.65)	1.85 (1.85)	2.00 (2.00)	2.20 (2.20)	
No. of connectable indoor units (System)		2	3	4	5		
Energy Labelling Scheme							

\*Note: Sound level is measured in anechoic chambers. \*\* If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10m. ^ It depends on combination.

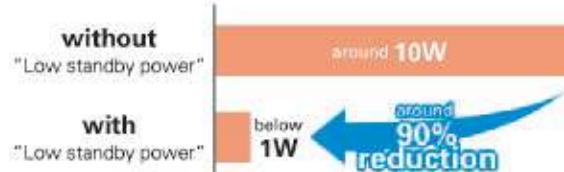
# FP Series

Introducing a compact and stylist indoor unit with amazing quiet performance. Having advantage of neat installations in small bedrooms made possible, and increase in energy-savings by selecting the optimal capacity required for each room.



## Low Standby Power

Electrical devices consume standby power even when they are not in actual use. While we obviously strive to reduce power consumption during actual use, reducing this wasted power that cannot be seen is also very important.



## Easy Clean Design

The easily detachable panel is a snap to wash and the airflow vents can be opened without any special tools for quick cleaning of the inside of the air conditioner. It is recommended that the air conditioner be cleaned regularly as this will increase both operating efficiency and energy-savings. Always clean the heat exchanger, fan and air vent to ensure proper performance and economical operation. It reduces your electricity bill by approx. 45%\*.

\*Electricity bill comparison of operation under fixed temperature with 3 grams of soil on the fan and one without. Based on internal company data. \*\*Cleaning of filter and heat exchanger is possible by removing the panel.



## Dual Barrier Coating

Dual Barrier Coating prevents dust and greasy dirt from sticking onto the coated air conditioner. Dirt is generally classified into two groups: hydrophilic dirt such as fiber dust and sand dust, and hydrophobic dirt such as oil and cigarette smoke. Mitsubishi Electric's unique dual barrier coating prevents both hydrophilic and hydrophobic dirt from sticking onto the air conditioner. This dual coating on the inner surface keeps the air conditioner clean all year round and improves energy efficiency while delivering comfortable clean air.

PM 2.5

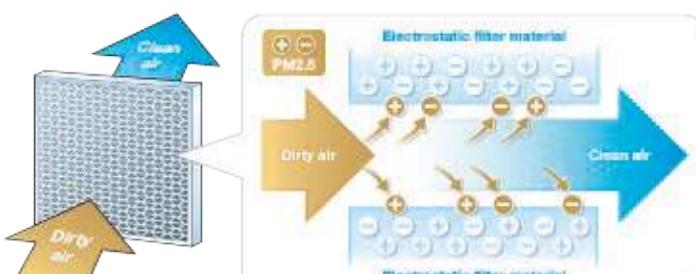
## Microparticles Catching Filter

Filter effectively eliminates PM2.5 particles to maintain clean air in the room. Removal efficiency of particulates sizes ranging 0.3-2.5 $\mu\text{m}$  after operation for 200min using MSXY-FN20VE microparticle entrapment filter in 28m<sup>3</sup> enclosed space with tidal air circulation volume of 0.5/hr (in-house test).

## Effectively catches floating PM2.5 particles to maintain clean air in the room.

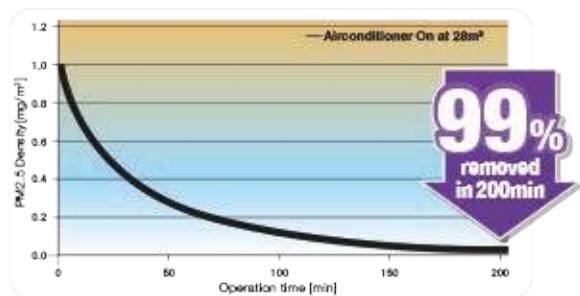
- Electrostatic filter even effectively removes and eliminates minuscule particulate materials.

- PM2.5 removal efficiency



Microparticle catching filter

Electrostatic material removes PM2.5 from the air and absorbs it when passing through the filter



**Test conditions:** Removal efficiency of particulates sizes ranging 0.3-2.5 $\mu\text{m}$  after operation for 200min using FN20 microparticle catching filter in 28m<sup>3</sup> enclosed space with tidal air circulation volume of 0.5/hr (in-house test)

# PEY Series

This concealed ceiling-mounted indoor unit series is compact, and fits easily into bedrooms lowered ceilings. Highly reliable energy savings performance makes it a best match choice for concealed unit installations.



## Compact Ceiling Concealed Style

With our "ceiling concealed model", the air-conditioner unit itself is enclosed in the ceiling cavity, leaving only the outlet and inlet grille mounted on the ceiling surface. This greatly helps the air conditioning system to keep the quality of your interior decor.

Unit size has also been made more compact, slashing installation space and also facilitating concealed use in buildings where exposed format units have been the rule in the past.

### Dimension



PEY-M50/60/71JAL



PEY-M50/60/71JAL

## Wider Selection of Fan Speed and Static Pressure Level

Three fan speeds (Low-Mid-High) and five static pressure levels (35-50-70-100-125Pa) are available by using the DC fan motor to meet various application needs.

Indoor			PEY-M50JAL	PEY-M60JAL	PEY-M71JAL
Rated Capacity (Min-Max)**	kW		5.0 (1.5-5.8)	6.0 (1.6-6.7)	7.1 (1.7-8.5)
Power Input	kW		0.11		0.17
Max Running Current	A		1.39		1.97
Airflow Rate (Lo-Mid-High)	CMM (m³/min)		12.0-14.5-17.0		17.5-21.0-25.0
Sound Level (Lo-Mid-High)*	dB(A)		30-35-39		30-34-39
Dimension (W X D X H)	mm		900 X 732 X 250		1100 X 732 X 250
Net Weight	kg		27.0		30.5
External Piping	Diameter	Gas (ø)	mm	12.70	15.88
		Liquid (ø)	mm	6.35	9.52
Static Pressure	Pa		35-50-70-100-125		

\*Note: sound level is measure in anechoic chambers (based on 50Pa)

\*\*Varies according to connected CU model

Total indoor running current must not exceed 3 Amps when connecting PEY-M indoor units with MXY-H series

# SEZ Series

Compact type fits neatly into lowered ceiling, achieving stringent economy in all aspects of air conditioning.



## Compact Ceiling Concealed Units

Only the intake-air grille and outlet vents are visible when using this ceiling concealed indoor unit. The rest of the unit is conveniently hidden in the ceiling cavity, essentially leaving the ceiling and walls free of bulky looking devices and maintaining a high-class interior décor.

The compact units require minimal space and can be installed in buildings with lowered ceilings, where exposed units were the rule in the past.

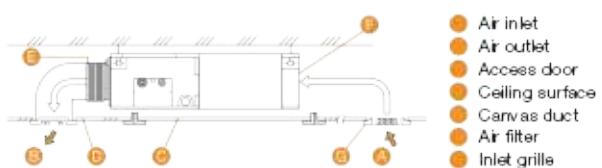
### Dimension



SEZ-M35/50DAL



SEZ-M35/50/71 DAL



## Wide Selection of Fan Speed and Static Pressure Level

Three fan speeds (Low - Med - Hi) and four static pressure levels (5 - 15 - 35 - 50Pa) are available by using the DC fan motor to meet various needs.

## Drain Pump (Optional)

The PAC-KE07DM-E drain pump is now available as an option. With the pump, a drain hose length of up to 550mm can be used, leading to increased installation possibilities.

Indoor		SEZ-M35DAL	SEZ-M50DAL	SEZ-M71DAL
Rated Capacity (Min-Max)**	kW	3.5 (1.4-4.3)	5.0 (1.5-5.8)	7.1 (1.7-8.5)
Power Input	kW	0.05	0.07	0.10
Max Running Current	A	0.46	0.63	0.84
Airflow Rate (Lo-Mid-High)	CMM (m³/min)	7.0-9.0-11.0	10.0-12.5-15.0	12.0-16.0-20.0
Sound Level (Lo-Mid-High)*	dB(A)	23-28-33	30-34-37	30-35-40
Dimension (W X D X H)	mm	990 × 700 x 200		1190 × 700 x 200
Net Weight	kg	21	22	25.5
External Piping	Diameter	Gas (ø)	9.52	12.70
		Liquid (ø)	6.35	9.52
Static Pressure	Pa	5-15-35-50		

\*Note: sound level is measure in anechoic chambers (based on 15Pa)

\*\*Varies according to connected CU model

**Mr.SLIM**

# Inverter Single Split System



Our Inverter Technology adjusts capacity in response to conditions such as the difference between the outside and inside air temperatures, allowing our air conditioners to run more efficiently and reduce energy costs.



## PLY Series

### Indoor Unit



PLY-M60EA\*  
Cooling Capacity: 6.0kW



Dimensions (W X D X H) :  
840 X 840 X 258 mm



PLY-ZM50EA\*  
Cooling capacity: 5.1kW



Dimensions (W X D X H) :  
840 X 840 X 298 mm

PLY-M80EA\*  
Cooling Capacity: 7.6kW

PLY-M100EA\*  
Cooling Capacity: 9.5kW

PLY-M125EA\*  
Cooling Capacity: 11.4kW



### Outdoor Unit



SUY-ZM50VA/M60VA  
Dimensions (W X D X H) :  
800 X 285 X 714 mm



SUY-M80VA/M100VA  
Dimensions (W X D X H) :  
840 X 330 X 880 mm



PUY-M125VKA  
Dimensions (W X D X H) :  
1050 X 330 X 981 mm

### Mr Slim Inverter Ceiling Cassette Type PLY Series

Model		Indoor	PLY-ZM50EA	PLY-M60EA	PLY-M80EA	PLY-M100EA	PLY-M125EA
Indoor			SUY-ZM50VA	SUY-M60VA	SUY-M80VA	SUY-M100VA	SUY-M125VKA
Function & type							
Capacity (Rated/Max)	kW	5.1 (5.7)	6.0 (6.5)	7.6 (8.9)	9.5 (11.3)	11.4 (14.0)	
Power Input	kW	1.03	1.37	1.76	2.51	3.02	
Running Current	A	4.80	6.30	8.10	11.60	13.70	
Airflow	CMM(m <sup>3</sup> /min)	14-17-20-23	16-18-20-23	17-21-25-29	21-25-28-32	26-29-32-34	
Dimension (W X D X H)	Indoor mm Outdoor mm	840 x 840 x 298 800 x 285 x 714			840 X 840 X 298 840 X 330 X 880		1050 X 330 X 981
Net Weight	Indoor kg Outdoor kg	27 35	21	24	43	27	63
Indoor Sound level *	(Silent - High) dB(A)	23-27-31-35	28-31-34-37	27-32-37-41	32-37-41-44	39-41-44-46	
Outdoor Sound Level *	dB(A)		48		54		55
Connection method	Indoor/Outdoor		Flared				
External Piping	Diameter mm Liquid (ø) mm			15.88 9.52			
Heat Exchanger**				Multiflow Condenser (MFC)			
Piping Length	Max. Length *** m Max. Height m		12	30	15		50 30
Power Supply	V, Phase, Hz			230, 1, 50			
Pre-charged Refrigerant Quantity (Max)	kg	1.01 (1.01)	0.85 (0.85)	0.96 (0.96)	1.06 (1.06)	1.20 (1.20)	
Energy labelling scheme							

\*Note: Sound level is measured in anechoic chambers.

\*\* Only applicable to outdoor unit.

\*\*\*Refrigerant recovery equipment is required for pump down operation for piping exceeding 20m.

# Kindly discuss with your installer on the placement of Climate Friendly Refrigerant label

Conversion formula: Btu/h=kW x 3412

**Mr. SLIM**

# Inverter Single Split System



Our Inverter Technology adjusts capacity in response to conditions such as the difference between the outside and inside air temperatures, allowing our air conditioners to run more efficiently and reduce energy costs.



## PEY Series

### Indoor Unit



Dimensions (W X D X H) :  
900 X 732 X 250 mm

PEY-M50JAL2\*  
Cooling capacity: 5.0kW



Dimensions (W X D X H) :  
1100 X 732 X 250 mm

PEY-M60JAL2\*  
Cooling capacity: 6.0kW

optional



Dimensions (W X D X H) :  
1400 X 732 X 250 mm

PEY-M80JAL2\*  
Cooling capacity: 8.0kW



DC  
Inverter

PAM  
Control



Month/Tim

For wired  
controller only

Multi-  
Language



### Mr Slim Inverter Ceiling-Concealed Type PEY Series

Model		Indoor	PEY-M50JAL2	PEY-M60JAL2	PEY-M80JAL2	PEY-M100JAL2	PEY-M125JAL2
Outdoor		SUY-ZM50VA	SUY-M60VA	SUY-M80VA	SUY-M100VA	SUY-M125VKA	
Function & type					Cooling, Ceiling Concealed		
Capacity (Rated/Max)	kW	5.0 (5.7)	6.0 (6.5)	8.0 (8.9)	10.0 (11.3)	12.5 (14.0)	
Power Input	kW	1.43	1.89	2.15	3.20	4.05	
Running Current	A	6.6	8.6	9.7	14.5	18.2	
Airflow	CMM(m <sup>3</sup> /min)	12.0-14.5-17.0		17.5-21.0-25.0	29.5-35.5-42.0		
Dimension (W X D X H)	Indoor	mm	900 x 732 x 250	1100 x 732 x 250	1400 x 732 x 250		
	Outdoor	mm	800 x 285 x 714	840 X 330 X 880	1050 x 330 x 981		
Net Weight	Indoor	kg	27	30	39		
	Outdoor	kg	35	43	63		
Indoor Sound level *	(Silent - High)	dB(A)	28-32-36	29-33-37	36-40-44		
Outdoor Sound Level *		dB(A)	48	54	55		
Connection method	Indoor/Outdoor			Flared			
External Piping	Diameter	Gas (ø) Liquid (ø)	mm	15.88 9.52			
Heat Exchanger**				Multiflow Condenser (MFC)			
Piping Length	Max. Length***	m		30	50		
	Max. Height	m	12	15	30		
Power Supply	V, Phase, Hz			230, 1, 50			
Pre-charged Refrigerant Quantity (Max)	kg	1.01 (1.01)	0.85 (0.85)	0.96 (0.96)	1.06 (1.06)	1.20 (1.20)	

\*Note: Sound level is measured in anechoic chambers.

\*\* Only applicable to outdoor unit.

\*\*\*Refrigerant recovery equipment is required for pump down operation for piping exceeding 20m.

# Kindly discuss with your installer on the placement of Climate Friendly Refrigerant label

Conversion formula: Btu/h=kW x 3412

Mr. SLIM



# Inverter Single Split System

Our Inverter Technology adjusts capacity in response to conditions such as the difference between the outside and inside air temperatures, allowing our air conditioners to run more efficiently and reduce energy costs.



## PCY Series

Indoor Unit



PCY-M125KAL

Cooling capacity: 11.4kW  
Dimensions (W X D X H) : 1600 X 680 X 230 mm



optional



Outdoor Unit



PUY-M125VKA

Dimensions (W X D X H) : 1050 X 330 X 981 mm

### Mr Slim Inverter Ceiling-Suspended Type PCY Series

Model				
Indoor		PCY-M125KAL		
Outdoor		PUY-M125VKA		
Function & type		Cooling, Ceiling Suspended		
Capacity (Max)	kW	11.4 (14.0)		
Power Input	kW	3.02		
Running Current	A	13.8		
Airflow	CMM(m <sup>3</sup> /min)	27-29-32-34		
Dimension (W X D X H)	Indoor mm Outdoor mm	1600 x 680 x 230 1050 x 330 x 981		
Net Weight	Indoor kg Outdoor kg	40 63		
Indoor Sound level *	(Silent - High) dB(A)	42-44-46-48		
Outdoor Sound Level *	dB(A)	55		
Connection method	Indoor/Outdoor	Flared		
External Piping	Diameter Cas (ø) mm Liquid (ø) mm	15.88 9.52		
Heat Exchanger**		Multiflow Condenser (MFC)		
Piping Length	Max. Length*** m Max. Height m	50 30		
Power Supply	V, Phase, Hz	230, 1, 50		
Pre-charged Refrigerant Quantity (Max)	kg	1.20 (1.20)		
Energy labelling scheme				

\*Note: Sound level is measured in anechoic chambers.

\*\* Only applicable to outdoor unit.

\*\*\*Refrigerant recovery equipment is required for pump down operation for piping exceeding 20m.

Conversion formula: Btu/h=kW x 3412











## The best quality you can rely on.

Our quality assurance program guided by our stringent Quality Policy ensures confidence in all phases of the development process from design and manufacture, to the finished product.



Line test



Sound test



Performance test



Endurance test



Heat stress test



Saltwater spray rust test



## Technical assistance within 24 hours.

At Mitsubishi Electric Asia, customers are our priority, which is why we provide attentive after-sales service to respond to your needs within 24 hours. Our service records show that upon receipt of a customer service request, more than 90% of them were completed on the same day, or the next working day. That is the kind of service you can look forward to, because it is our way of thanking you for putting your trust in Mitsubishi Electric.



## MITSUBISHI ELECTRIC ASIA PTE LTD

307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943

Tel: (65) 6473 2308 Fax: (65) 6476 0590 Office Hours: 8:30am - 5.30pm (Monday - Friday)

[https://www.MitsubishiElectric.com.sg](http://www.MitsubishiElectric.com.sg)

Showroom Opening Hours:

Monday - Friday, 9am - 5pm

Closed on Saturday, Sunday and Public Holidays

Tel: (65) 6470 2600

