MITSUBISHI ELECTRIC

Changes for the Better

Mitsubishi Electric Quality

VOTED BY CONSUMERS
Reader's Digest
TRUSTED BRAND 2020
GOLD
22ND ANNIVERSARY
SINGAPORE

Past Awards
Reader's Digest SuperBrand &
TrustedBrand (Asia or Singapore)
2003 – 2020

Mitsubishi Electric starMEX Air-Conditioner

The No.1 Specialist in Energy Saving

At the leading-edge of air conditioning technology

EXCELLENT Energy Savings

EASY To Clean!
Easily accessible Inner vent

QUIETEST 19dB

R32 REFRIGERANT

Dual Barrier coating

PM2.5 Filter
Cleaner Air
up to 99% PM2.5 particles filtered

MITSUBISHI ELECTRIC

Your Life, Our Technology – The Comfort Connection.

As everyone knows, nothing compares to the comfort that nature has to provide. However, thanks to its many technical refinements, Mitsubishi Electric's air conditioners 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 **2** indoor units	DC Inverter	R32 REFRIGERANT	MSXY-FP07/10/13/18VG 	16	
MXY-3H28VG  up to **3** indoor units	DC Inverter	R32 REFRIGERANT		16	
MXY-4H33VG  up to **4** indoor units	DC Inverter	R32 REFRIGERANT	MSXY-FP20/24VG*  *Not applicable to MXY-2H20VF	16	
MXY-4H38VG  up to **4** indoor units	DC Inverter	R32 REFRIGERANT	PEY-M50/60JAL 	16	
MXY-5H48VG  up to **5** indoor units	DC Inverter	R32 REFRIGERANT		16	

Conversion formula: Btu/h=kW X 3412

MITSUBISHI ELECTRIC
Changes for the Better

Mitsubishi Electric starMEX Air-Conditioner

Inverter Single Split	Type				
	Model	Refrigerant	Connectable Indoor Units	Page	Energy labelling scheme
MUY-GP10VF 	DC Inverter	R32 REFRIGERANT	MSY-GP10VF 	12	
MUY-GP13VF 	DC Inverter	R32 REFRIGERANT	MSY-GP13VF 	12	
MUY-GP15VF 	DC Inverter	R32 REFRIGERANT	MSY-GP15VF 	12	
MUY-GP18VF 	DC Inverter	R32 REFRIGERANT	MSY-GP18VF 	12	
MUY-GP20VF 	DC Inverter	R32 REFRIGERANT	MSY-GP20VF 	12	
MUY-GP24VF 	DC Inverter	R32 REFRIGERANT	MSY-GP24VF 	12	

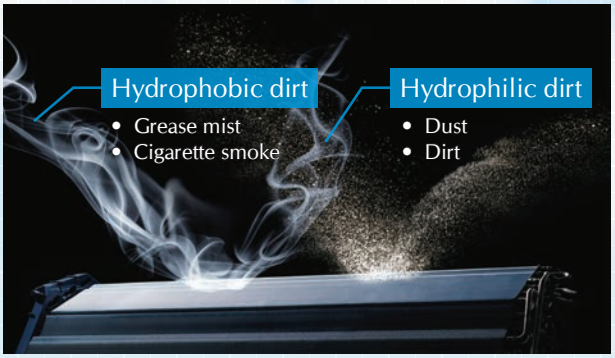
Conversion formula: Btu/h=kW X 3412

Dual Barrier Coating

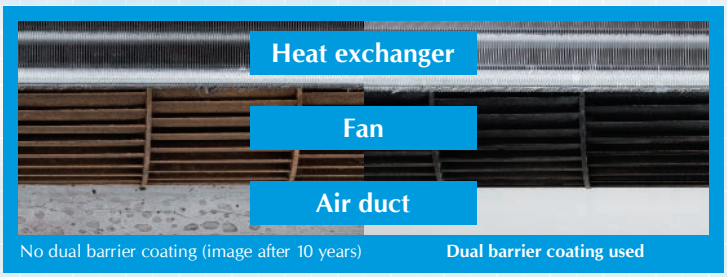
A two barrier coating prevents dust and greasy dirt from sticking onto the air conditioner.

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 "hydrophilic 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)



No dual barrier coating (image after 10 years) **Dual barrier coating used**

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

Heat exchanger

New

10 years later (image)

Fan

New

10 years later (image)

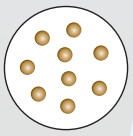
Consequences when the inside of the indoor unit is left dirty.

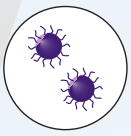
- Deterioration in energy efficiency.
- Musty smell from the unit

PM2.5 Filter
Cleaner Air
up to 99% PM2.5 particles filtered

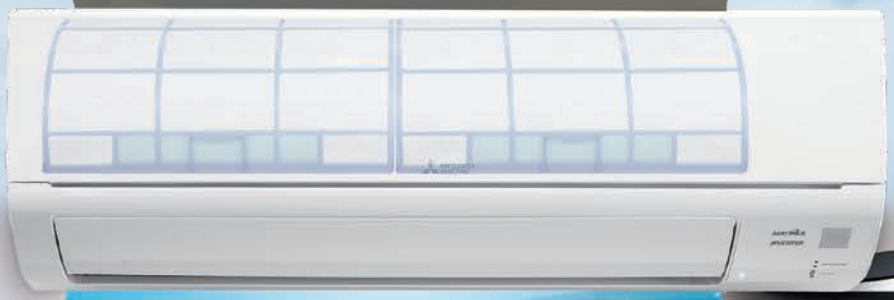


Minute Particles Floating in the Air


PM2.5


Bacteria


House dust



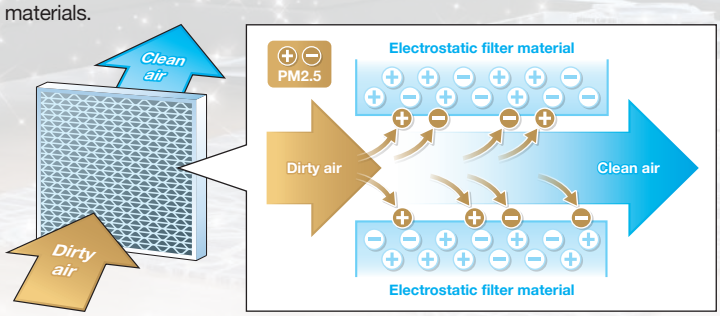
Model:
FP & GP Series

Filter:
Microparticle catching filter

Microparticle catching filter effectively eliminates PM2.5

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

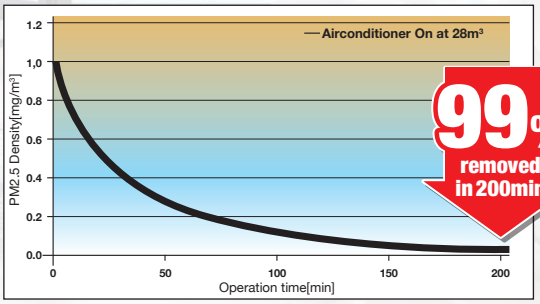
Electrostatic filter even effectively removes and eliminates miniscule particulate materials.



Microparticle catching filter

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 28m³ enclosed space with tidal air circulation volume of 0.5/hr (in-house test)

※ Microparticle catching filter
MAC-EMF515FT-E

EASY CLEAN

Safety system stops the machine when the horizontal vane is removed.

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

Vertical vanes | Front panel | Fan

The entire front panel can be washed

Easy removal

Scrub clean

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%!

Easy Clean Technology

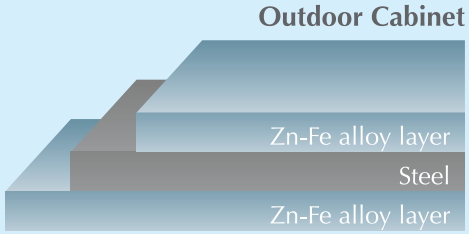
Easy Clean Design

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

Easy Cleaning Proceduce

Anti-Rust Treatment (Blue Fin)

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



Electrostatic Anti-Allergy Enzyme Filter (optional)

The filter is charged with static electricity, enable it to trap allergens such as mold and bacteria and decompose them using enzymes retained in the filter.

Anti-Allergy Enzyme Filter (optional)

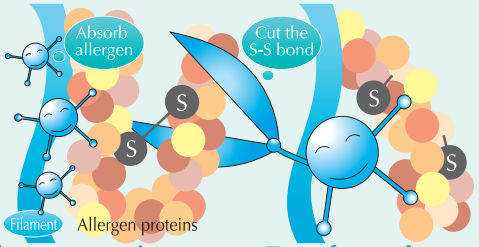
To counter allergens, we have added blue filters featuring artificial blue enzymes with the power to remove harmful microbes such as bacterial, virus, dust mites, pollen etc.

The enzymes destroy any germs caught in the filter preventing them from working their way further inside the air-conditioner. However, being artificial enzymes, they prevent allergies while remaining gentle on human body.

ANTI-ALLERGY ENZYME FILTER

Anti-Allergy Enzyme filter mechanism

1. Artificial enzyme (meta-phthalocyanine) catalysts on the filament catch allergens.
2. The artificial enzyme catalysts aid the chemical reaction with oxygen and sever the S-S bonds.
3. Once the S-S bonds are severed, the proteins no longer act as allergens.



Allergen protein (Such as mites) → *Transformed protein (Non-allergen proteins)*

Comfort Technology

Auto Mode

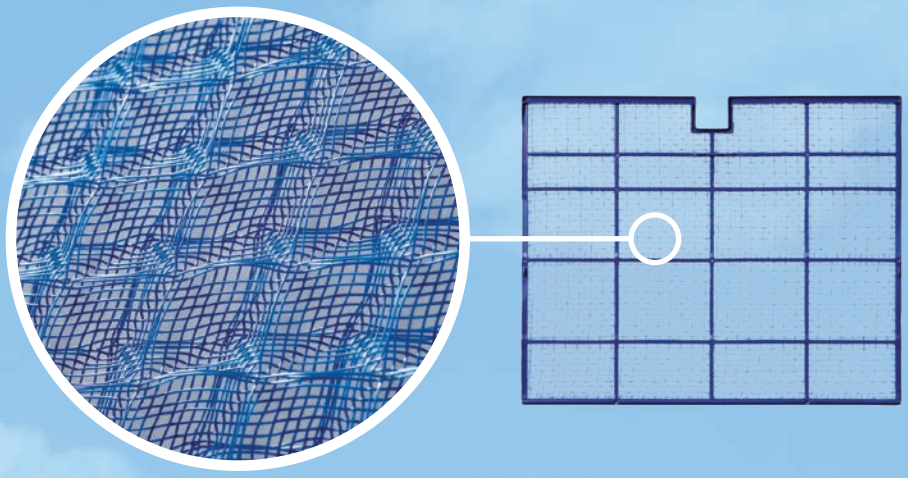
We offer you an easy way to comfort with auto mode. “Auto Vane” is created to set the vane angle automatically. “Auto Fan” is create to adjust airflow speed automatically. These could let ideal temperature to be achieved in the shortest time.

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.

Nano Platinum Filter

The filter has a large capture area and incorporates nanometer-sized platinum –ceramic particles that work to kill bacteria and deodorize the circulating air. Better dust collection than conventional filters is also ensured.



LCD Remote Controller

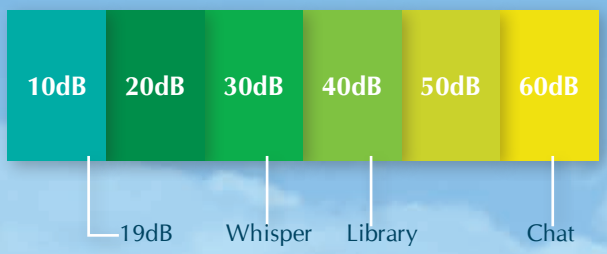
From temperature and operation modes to air volume and direction, you will be able to customize your environment at the touch of the button. Large and east to identify buttons allow easy access to frequent used functions. The LCD display allows you to check temperature and operating condition at a glance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

Luminous Buttons to make usage easy in the dark

Silent Technology

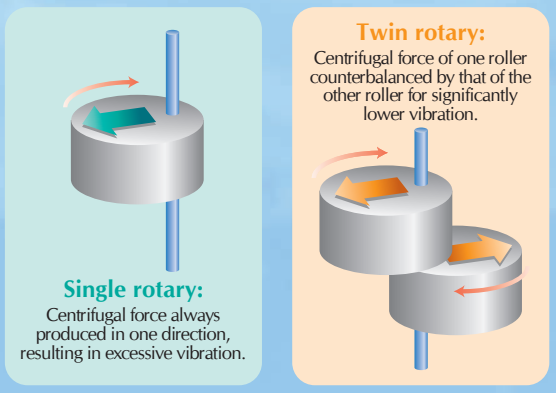
Only 19 dB The Quiet Air Conditioner in the Market

Noise level for silent mode operation is only at 19dB for MSY-GP10 and MSXY-FP10,13, 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 unit are so peacefully quiet.



Energy Saving 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.

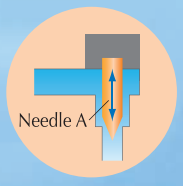
Joint Wrap DC Motor

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 or a reliable, high efficient motor.

Energy Saving Technology

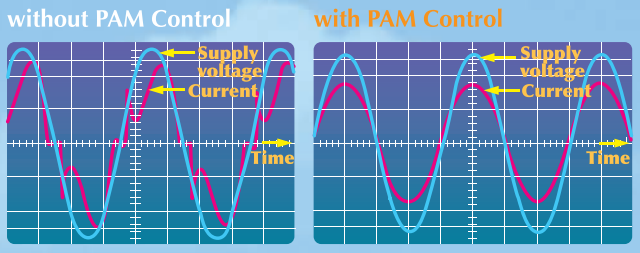
New LEV Control

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.



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.



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

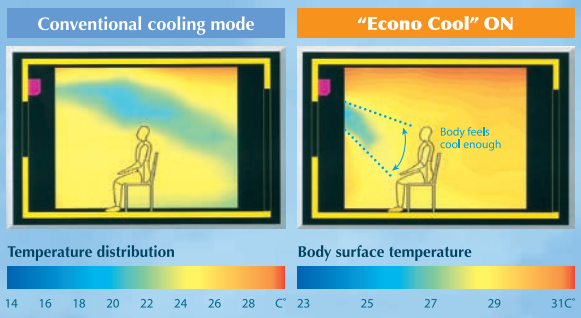
Energy savings is limited
Fuel is wasted

Power is limited
Power is insufficient for steep hills

**This diagram illustrates the merits of PAM Control.*

Econo Cool – smart save

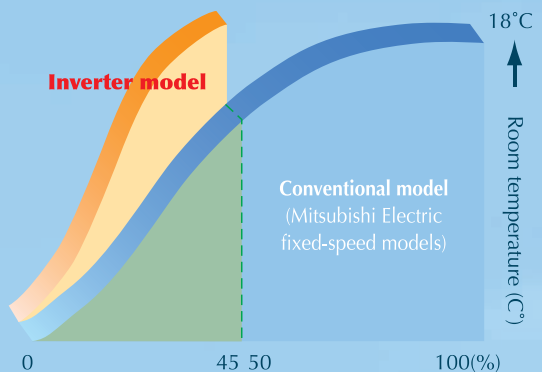
The Econo Cool, one touch operation automatically adjust the direction of the airflow based on the temperature at the air outlet. The set temperature can therefore be 2°C above conventional temperature setting without loss of comfort and with 20% increase in energy efficiency.



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

High 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.



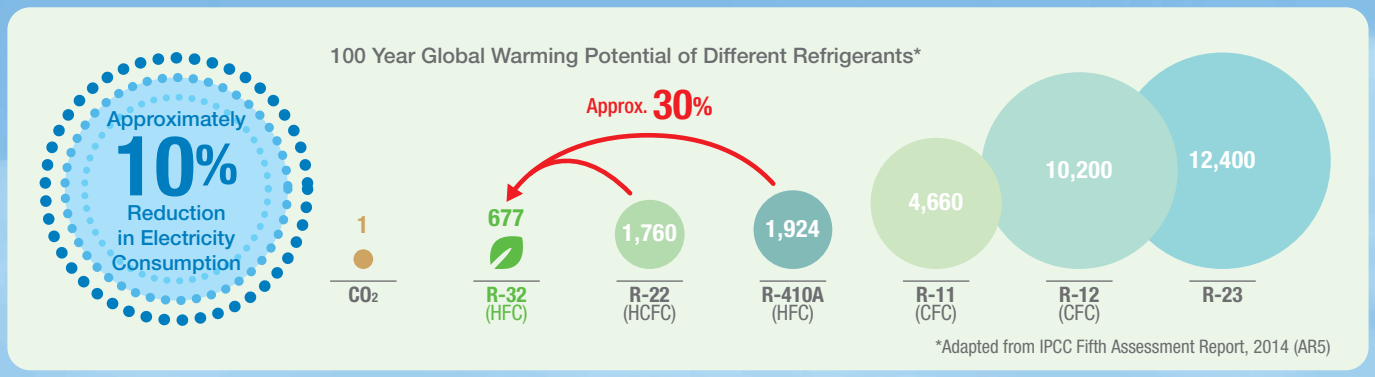
Compared to conventional models, desired temperatures are reached much more rapidly.

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 - a environmentally friendly and energy efficient refrigerant offers a new alternative. Having a low GWP value of only 677, its 2/3 of the GWP value that R410A carries, decreasing the harm by 30%.



Requires less refrigerant volume

Due to its lower in density, R32 air conditioning systems use up to 15-20% less refrigerant than R410A equivalents making them more efficient which means lower carbon emissions and lower energy costs with the same effect.

Single Component of Gas

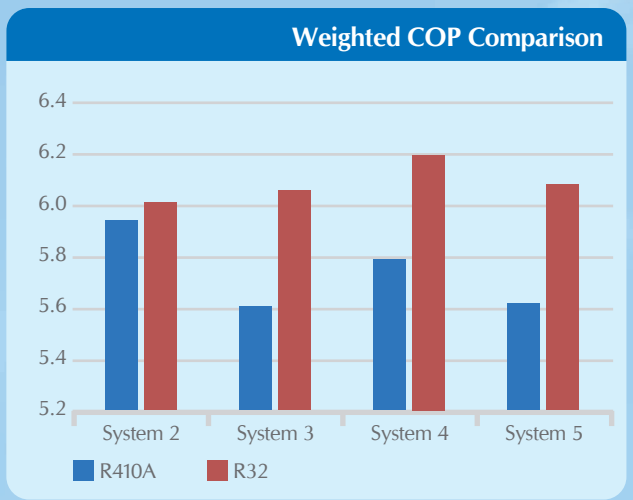
R32 is a single compound, CH_2F_2 unlike R410A which is a mixture of difluoromethane and pentafluoroethane. Being a single component gas, R32 gas is more convenient to work with and easier to recycle as compared to R410A gas. This will result in smaller footprints of the compressors with the same capacity.

Higher efficiency

R32 gas has a higher cooling capacity due to its higher in critical temperature, 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 than R410A gas.

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



FEATURES

Energy Saving

- DC Inverter
- Temperature Range Restriction
- PAM Control
- New LEV Control
- Econo Cool
- Fuzzy Logic "I Feel"

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

Fresh Air

- Anti-Allergy Enzyme Filter (Optional)

Electrostatic Anti-allergy Enzyme Filter (Optional)
The filter is charged with static electricity, enable it 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 deodorize the circulating air. Better dust collection than conventional filters is also ensured.

Plasma Quad
A plasma-based filter system that effectively removes four kinds of air pollutants; namely, bacteria, viruses, allergens and dust, which the air contains countless particles of.

Microparticles Catching Filter
Filter effectively eliminates PM2.5 particles to maintain clean air in the room. Removal efficiency of particulates sizes ranging 0.3-2.5μm after operation for 200min using MSXY-FN20VE micro-particle entrapment filter in 28m³ enclosed space with tidal air circulation volume of 0.5/hr (in-house test).

Dual Barrier Coating
Prevents dust and greasy dirt from sticking onto the coated air conditioner.

Convenience

Operation Lock
Prevent Operation settings from being changed.

Multi-Language
Control panel operation in eight different languages.

24-Hour On/Off timer
On/Off operation can be set simultaneously in 10-minute increment for a 24-hour period.

Weekly Timer
Easily set desired temperatures and operation start/stop times to match lifestyle patterns.

Auto Restart
This function permits automatic return to previous operation conditions after a sudden power black-out. You can now sleep peacefully all through the night without having to get up and turn your air-conditioner back on.

I Save Mode
This is a simplified setting function that recalls the preferred (preset) temperature by pressing a single button on the remote controller.

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.

Mitsubishi Electric starMEX Air-Conditioner

		Indoor	Outdoor
		MSY-FP10/13/18/20/24VG MSY-GP10/13/15/18/20/24VF PEY-M50/60JAL	MXY-5H48VG MXY-4H38VG MXY-4H33VG MXY-3H28VG MXY-2H20VF MUY-GP10/13/15/18/20/24VF
Cooling	Upper limit	32°c DB /23°c WB	46°c DB

Note

1. Rating conditions: Cooling – Indoor: 27°C DB / 19°C WB; Outdoor: 35°C DB. Refrigerant piping length (one way): 5 meters / indoor unit (inverter)
2. 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.
3. Guaranteed operating range:
4. 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

R32 REFRIGERANT

Mitsubishi Electric starMEX Air-Conditioner

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-GP15VF
Cooling capacity: 4.2kW*

MSY-GP18VF
Cooling capacity: 4.8kW*

MSY-GP20VF
Cooling capacity: 6kW*

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

MSY-GP24VF
Cooling capacity: 6.6kW*

Outdoor Unit

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

EASY CLEAN · PM2.5 Filter Cleaner Air · Ag+ coating · R32 REFRIGERANT

DC Inverter · PAM Control · Only 19dB · Quiet · Electrostatic Anti-allergy (MSY-GP24VF) · Ag+ coating · Nano Platinum · EASYCLEAN · Econo Cool · Fuzzy iFEEL · i SAVE (MSY-GP10/13/15/18/20VF)

24 · Auto Restart · Self Diagnosis · NEW LEV · COOL (MSY-GP24VF) · AUTO · PM 2.5 · Anti-Allergy Enzyme (MSY-GP10/13/15/18/20VF)

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
Function & Type		Cooling, Wall Mounted					
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)	6.6 (2.4 - 9.2)
Power Input	kW	0.51	0.81	0.97	1.11	1.58	1.74
Full load COP**		5.21	4.59	4.36	4.44	3.90	3.99
Weighted COP**		6.01	4.93	4.89	5.12	4.76	4.54
Starting Current	A	2.70	3.80	4.50	5.00	7.00	7.60
Running Current	A	2.70	3.80	4.50	5.00	7.00	7.60
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	9.1-13.0-14.9-20.7
Dimension (W X D X H)	Indoor mm	799 x 232 x 290	923 x 250 x 305				1100 x 238 x 325
	Outdoor mm	800 x 285 x 550			800 x 285 x 714		840 x 330 x 880
Net Weight	Indoor kg	9	13				15
	Outdoor kg	32			37		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	29-37-41-45-49	30-41-45-51
Outdoor Sound Level*	dB(A)	46	47	50	54	54	57
Connection Method	Indoor/Outdoor	Flared					
External Piping	Diameter Gas (ø) mm	9.52		12.7			
	Liquid (ø) mm	6.35					
Piping Length	Max. length m	20			30		
	Max. height m	12			15		
Refrigerant		R32					
Power Supply	V, Phase, Hz	230, 1, 50					
Energy Labelling Scheme		Excellent ★★★★★ ₹259 958	Very Good ★★★★ ₹418 1548	Very Good ★★★★ ₹501 1857	Very Good ★★★★ ₹553 2050	Good ★★★ ₹765 2832	Good ★★★ ₹863 3194

** Note: Sound level is measured in anechoic chambers.* *** Tested based on NEA energy labelling scheme.*

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*

EASY CLEAN · PM2.5 Filter Cleaner Air · Coating · R32 Refrigerant

DC Inverter · PAM Control · Only 19dB (MSXY-FP10,13VG) · EASYCLEAN · Econo Cool · Fuzzy I FEEL · Auto Restart · Self Diagnosis · Quiet · NEW LEV · AUTO · Coating · PM 2.5 · Anti-Allergy Enzyme · Nano Platinum · i SAVE

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

MSXY-FP20VG
Cooling capacity: 6.0kW*

MSXY-FP24VG
Cooling capacity: 7.1kW*

EASY CLEAN · PM2.5 Filter Cleaner Air · Coating · R32 Refrigerant

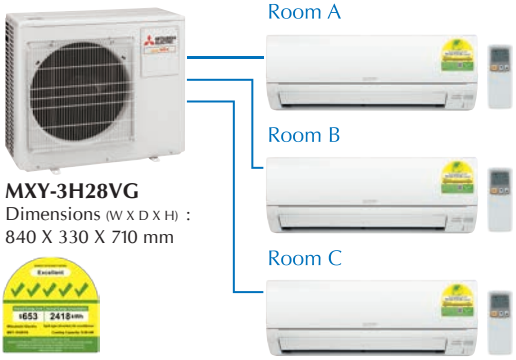
DC Inverter · PAM Control · EASYCLEAN · Econo Cool · Fuzzy I FEEL · Auto Restart · Self Diagnosis · Quiet · AUTO · NEW LEV · Coating · PM 2.5 · Anti-Allergy Enzyme · Nano Platinum · i SAVE

Outdoor Unit

System 3

3 Rooms **MXY-3H28VG** Outdoor unit 1:3 Indoor units
Total capacity of all indoor units must not exceed 17.2kW.

(Optional drainage kit is available)

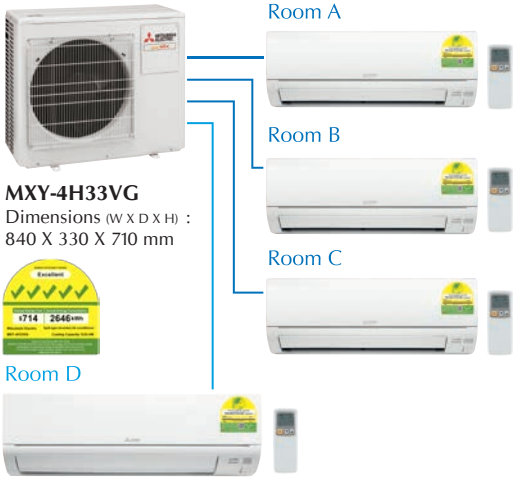


MXY-3H28VG
Dimensions (W X D X H) :
840 X 330 X 710 mm

System 4

4 Rooms **MXY-4H33VG** Outdoor unit 1:4 Indoor units
Total capacity of all indoor units must not exceed 20.5kW.

(Optional drainage kit is available)



MXY-4H33VG
Dimensions (W X D X H) :
840 X 330 X 710 mm

Conversion formula: Btu/h=kW x 3412 It is just a reference value. It is depends on combination. *With single unit operation

Inverter Multi
Split System

R32 REFRIGERANT

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*

EASY CLEAN · PM2.5 Filter Cleaner Air · Anti-corrosion coating · R32 Refrigerant

DC Inverter · PAM Control · Only 19dB (MSXY-FP10,13VG) · EASYCLEAN · Econo Cool · Fuzzy I FEEL · Auto Restart · Self Diagnosis · Quiet · NEW LEV · AUTO · Anti-corrosion coating · PM 2.5 · Anti-Allergy Enzyme · Nano Platinum · i SAVE

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

MSXY-FP20VG
Cooling capacity: 6.0kW*

MSXY-FP24VG**
Cooling capacity: 7.1kW*

EASY CLEAN · PM2.5 Filter Cleaner Air · Anti-corrosion coating · R32 Refrigerant

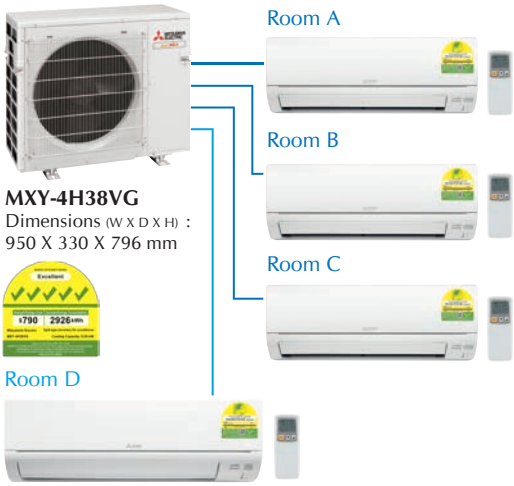
DC Inverter · PAM Control · EASYCLEAN · Econo Cool · Fuzzy I FEEL · Auto Restart · Self Diagnosis · Quiet · AUTO · NEW LEV · Anti-corrosion coating · PM 2.5 · Anti-Allergy Enzyme · Nano Platinum · i SAVE

Outdoor Unit

System 4

4 Rooms **MXY-4H38VG** Outdoor unit 1:4 Indoor units
Total capacity of all indoor units must not exceed 24.1kW.

(Optional drainage kit is available)

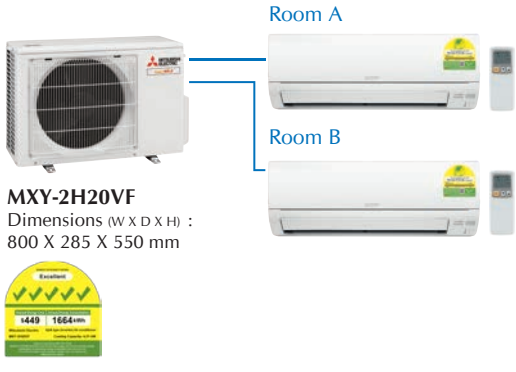


MXY-4H38VG
Dimensions (W X D X H) :
950 X 330 X 796 mm

System 2

2 Rooms **MXY-2H20VF** Outdoor unit 1:2 Indoor units
Total capacity of all indoor units must not exceed 11.0kW.

(Optional drainage kit is available)



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

Conversion formula: Btu/h=kW x 3412 It is just a reference value. It is depends on combination. *With single unit operation **not applicable for MXY-2G20VA2

Inverter Multi
Split System

R32 REFRIGERANT

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*

EASY CLEAN · PM2.5 Filter Cleaner Air · Ag+ Coating · R32 Refrigerant

DC Inverter · PAM Control · Only 19dB (MSXY-FP10,13VG) · EASYCLEAN · Econo Cool · Fuzzy I FEEL · Auto Restart · Self Diagnosis · Quiet · NEW LEV · AUTO · Ag+ Coating · PM 2.5 · Anti-Allergy Enzyme · Nano Platinum · i SAVE

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

MSXY-FP20VG
Cooling capacity: 6.0kW*

MSXY-FP24VG
Cooling capacity: 7.1kW*

EASY CLEAN · PM2.5 Filter Cleaner Air · Ag+ Coating · R32 Refrigerant

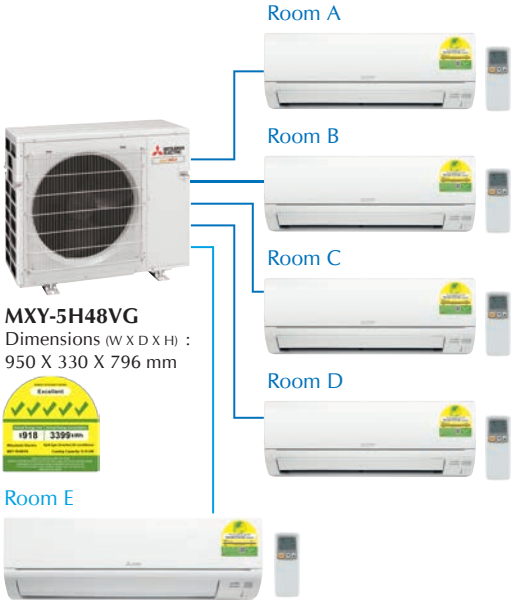
DC Inverter · PAM Control · EASYCLEAN · Econo Cool · Fuzzy I FEEL · Auto Restart · Self Diagnosis · Quiet · AUTO · NEW LEV · Ag+ Coating · PM 2.5 · Anti-Allergy Enzyme · Nano Platinum · i SAVE

Outdoor Unit

System 5

5 Rooms **MXY-5H48VG** Outdoor unit 1:5 Indoor units
Total capacity of all indoor units must not exceed 30.2kW.

(Optional drainage kit is available)



MXY-5H48VG
Dimensions (W X D X H) :
950 X 330 X 796 mm

Conversion formula: Btu/h=kW x 3412 It is just a reference value. It is depends on combination. *With single unit operation

starMEX

R32 REFRIGERANT

Our New Starmex series range is designed to achieve industry's leading seasonal energy effciency 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

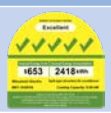
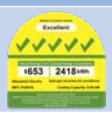
MXY-2H20VF
Dimension (W X D X H):
800 X 285 X 550 mm

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	2.8	3.5	5.0	6.0	7.1
Power Input			kW	0.028	0.036	0.042	0.059	
Running Current			A	0.27	0.33	0.38	0.52	
Airflow Rate			CMM (m^3/min)	4.1-5.1-6.3-9.1-12.9	4.1-5.1-6.3-9.1-14.1	6.2-7.7-9.5-12.1-14.8	9.3-11.1-13.7-16.1-20.0	
Sound Level *			dB(A)	19-24-29-36-45	19-24-30-36-47	28-33-38-44-49	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 (ø)	mm	9.52			12.7	
		Liquid (ø)	mm	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
Full load COP				5.01	4.89	4.86	4.97	4.87
Weighted COP **				6.01	6.05	5.76	6.19	6.07
Starting Current			A	4.88	5.93	6.37	7.22	8.43
Running Current			A	4.88	5.93	6.37	7.22	8.43
Airflow		CMM (m^3/min)		32.9	38.7	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	54	55	58	61
Outdoor Sound Level *			dB(A)	49				
Connection Method		Indoor/Outdoor		Flared				
External Piping	Diameter	Gas (ø)	mm	2 no X 9.52	3 no X 9.52	1 no X 12.7 + 3 no X 9.52		1 no X 12.7 + 4 no X 9.52
		Liquid (ø)	mm	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				
No. of connectable indoor units (System)				2	3	4		5
Energy Labelling Scheme								

*Note: Sound level is measured in anechoic chambers.

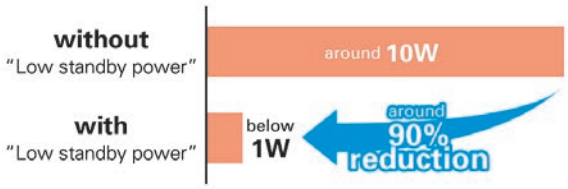
** Tested based on NEA energy labelling scheme.

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.



MSXY-FP

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 8 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.

Filter Heat exchanger Fan

Dual Barrier Coating

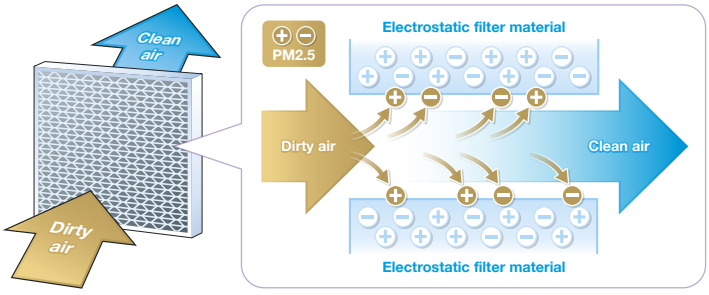
Dual Barrier Coating prevents dust and greasy dirt from sticking onto the coated air conditioner. Dirt is generally classified into two groups: hydrophilic dirt such as fiber dust and sand dust, and hydrophobic dirt such as oil and cigarette smoke. Mitsubishi Electric's unique dual barrier coating prevents 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.

Microparticles Catching Filter

Filter effectively eliminates PM2.5 particles to maintain clean air in the room. Removal efficiency of particulates sizes ranging 0.3-2.5μm after operation for 200min using MSXY-FN20VE microparticle entrapment filter in 28m³ 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.

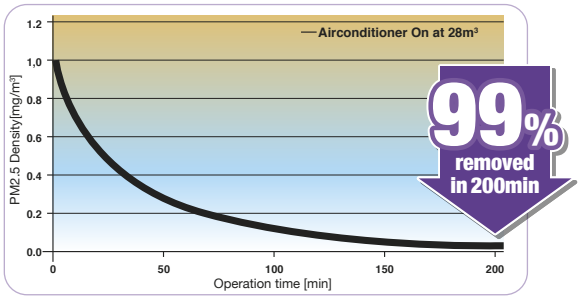
- Electrostatic filter even effectively removes and eliminates miniscule particulate materials.



Microparticle catching filter

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 28m³ 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 with 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.

PEY-M50/60JAL (Connectable with MXY-H Series)
Dimension (W X D X H): 900 X 732 X 250 mm

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.

External Static Pressure setting

Indoor				PEY-M50JAL	PEY-M60JAL
Rated Capacity (Min-Max)			kW	5.0 (2.5-5.7)	6.0 (2.6-6.6)
Power Input			kW	0.11	
Airflow Rate (Lo-Mid-High)			CMM (m³/min)	12.0-14.5-17.0	
Sound Level*			dB(A)	30-35-39	
Dimension (W X D X H)			mm	900 X 732 X 250	
Net Weight			kg	28	
External Piping	Diameter	Gas (ø)	mm	12.7	15.88
		Liquid (ø)	mm	6.35	
Static Pressure			Pa	35-50-70-100-125	

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

Mitsubishi Electric Quality

The best quality you can rely on.

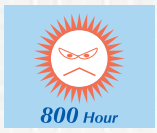
Our quality assurance program guided by our stringent Quality Policy ensures confidence in all phases of the development process from design and manufacture, to the finished product.


Line test


Sound test


Performance test

Endurance test



Heat stress test

Saltwater spray rust test

Technical assistance within 24 hours.

At Mitsubishi Electric, 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's the kind of service you can look forward to. Because that's our way of thanking you for putting your trust in Mitsubishi Electric.

MITSUBISHI ELECTRIC ASIA PTE LTD

307 Alexandra Road, #05-01/02, Mitsubishi Electric Building, Singapore 159943

TEL: (65) 6473 2308 FAX: (65) 6476 0590

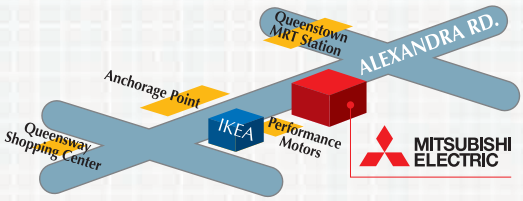
Office Hours: Monday - Friday 8:30am - 5:30pm

Show Room Opening Hours:

Monday - Friday 8:30am - 5.30pm

Closed on Saturday, Sunday and Public Holidays

Tel: (65) 6470 2600



Mitsubishi Electric

starMEX

Air-Conditioner

eco Changes

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

MITSUBISHI ELECTRIC ASIA PTE LTD

307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943.
Tel: (65) 6473 2308 **Fax**: (65) 6476 0590, Office Hours: Monday - Friday 8.30am - 5.30pm
Show Room Opening Hours: Monday - Friday 8:30am - 5.30pm, Closed on Saturday, Sunday and Public Holidays
(Showroom) **Tel**: (65) 6470 2600. **http://www.MitsubishiElectric.com.sg**

New publication effective November 2020