

Changes for the Better

**MITSUBISHI ELECTRIC**  
AIR CONDITIONERS

**霧峰**  
KIRIGAMINE



# JAPAN'S FAVOURITE NOW IN INDIA!

◆ CLEAN AIR ◆ FAST COOLING ◆ LONG AIR-FLOW



Fast Cooling Mode



PM 2.5 Filter



Dual Barrier Coating



Long Air Flow



# ORIGIN OF “KIRIGAMINE”

The Longest-running Air Conditioner Brand



霧峰  
KIRIGAMINE

The late 1960s was the phase of “the Japan’s plan to double national income,” which allowed people to significantly raise the standard of living. Under those circumstances, more and more people desired to have a cottage in a summer resort, feeling refreshed in a highland. In order to enhance the association of Air Conditioners with such feeling summer resorts evoke, **Mitsubishi Electric** branded window-mounted types as “**Karuizawa**”, the floor-mounted type as “**Kamikochi**”, and the wall-mounted type as “**Kirigamine**,” all of which were named after famous summer resorts in Suwa City of Japan.

**Kirigamine Highlands** is an eminent scenic spot with a splendid view of Suwa City in Nagano, **Mt. Fuji**, the Yatsugatake mountain range and alpine flora of each season. With a strong updraft around it, the upland is also known as the birthplace of gliding in Japan.

In spring 2017, “**Kirigamine**,” in honor of the brand’s 50<sup>th</sup> anniversary, was awarded a letter of gratitude from Suwa City for its contribution towards enhancing tourism & making Suwa City a popular tourist destination in Japan.

**Mitsubishi Electric** will continue to dedicate itself to deliver refreshing comfort to all customers, thus enabling them to feel as if they were in **Kirigamine Highlands**.



Window type  
Karuizawa



Floor standing  
Kamikochi



Wall mounted  
Kirigamine

# MITSUBISHI ELECTRIC

## Timeline of Progress

### 1954

Room Air Conditioners production started

### 1960

Introduced premium range of Air Conditioners: Window type as "Karuzawa" & Floor Mounted type as "Kamikochi"

### 1961

First in the industry to begin sales of **heat pump Air Conditioners** for residential use

### 1967

Exclusive premium range "Kirigamine" introduced for wall mounted type Air Conditioner

### 1968

First in the world to begin sales of separate wall Air Conditioners with **built-in "Line-Flow Fan"**

### 1971

Introduced **Japan's quietest, light all-plastic Air Conditioner**

### 1975

Introduced **slim Air Conditioner** with depth of 17cm.

### 1978

Introduced industry's first mounted "**Green Sign**" **temperature indicator**

### 1984

Introduced inverter-driven Air Conditioner with **wireless remote control** and **automatic ventilation flaps**

### 1986

Introduced body temperature control via "**automatic temperature control feature**"

### 1988

Introduced "**Twin-Fan Air Conditioner**" as the pioneer of comfortable air flow

### 1994

Introduced "**Panorama Eye**" (built-in sensor to detect location of people)

### 1995

Introduced "**Wide & Long Energy-saving**" Kirigamine with 120° wide air flow and industry top level energy saving

### 2000

Introduced "**I Feel Kirigamine**" equipped with the "**I Feel**" **multi-sensor system**, including the industry's first heat sensor to measure the temperature felt by room occupants

### 2005

Introduced the "**Kirigamine i-see Sensor (Move Eye)**" for wide-area living spaces

### 2007

Introduced the 8 Series equipped with the **human-sensing i-see sensor (Move Eye)** and **automatic cleaning** functions. Released the "**Zubdan Kirigamine**" specified for the use in cold areas

### 2010

**MITSUBISHI ELECTRIC INDIA** operations started

### 2012

Introduced the "**Hybrid Kirigamine**", which saves energy by automatically switching between '**cooling and heating**' and "**ventilation**"

### 2016

World's first '**Personal Twin Flow**' with different temperatures in the room

### 2017

Introduced **GN series with Dual Barrier Coating** feature first time in India

### 2019

Introduced **tropical inverter GRT series** in India

### 2021

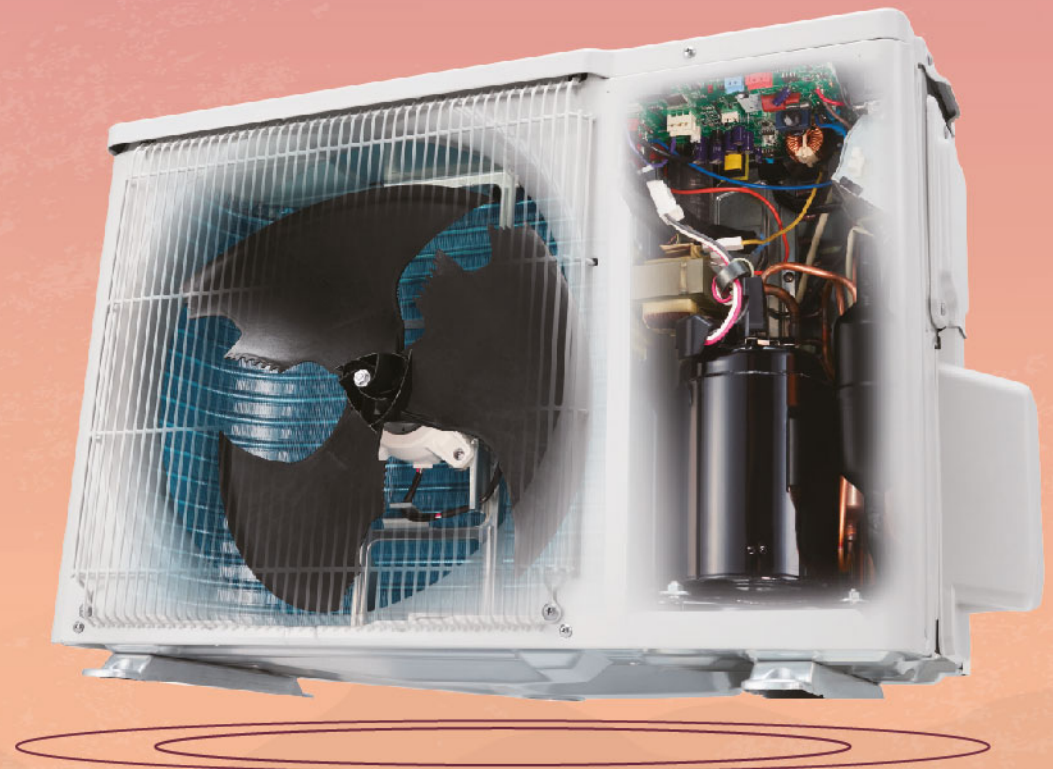
New **Kirigamine Models** introduced in India

# MITSUBISHI ELECTRIC

## Advanced ME Inverter Technology

Mitsubishi Electric leverages its **cutting-edge production technologies** to manufacture world-class products in its **state-of-the-art assembly lines** ensuring complete peace of mind for its customers across the globe.

Capitalizing on our **century-old experience and expertise** in understanding customer needs, we manufacture our own key components like **Inverter Power Module, Compressors, Propeller Fan, DC Motors, etc.** Our **advanced inverter technologies** have enabled us to achieve powerful and desired cooling comfort without compromising on **energy efficiency.**



## MITSUBISHI ELECTRIC Compressor

The compressor is the heart of the Air Conditioner. Employing Mitsubishi Electric's proprietary technology, we are able to achieve both high efficiency and high power.



### ► Poki-Poki Motor



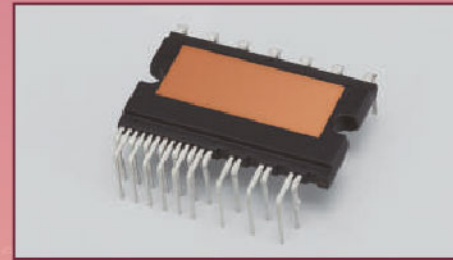
Dramatically enhanced motor efficiency utilising original dense winding technology.

### ► Heat Caulking



Original heat caulking method minimizes cylinder distortion for even greater efficiency.

## MITSUBISHI ELECTRIC Inverter Power Module



The Inverter Power Module is the brain of the Air Conditioner. It minimizes power consumption by adjusting the frequency.

## MITSUBISHI ELECTRIC Propeller Fan and DC Fan Motor

### ► Propeller Fan



Newly designed propeller fan maximizes airflow efficiency. It delivers the most air volume with the least noise.

### ► DC Fan Motor



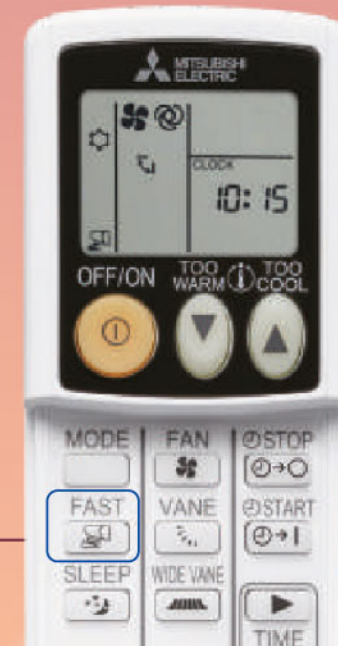
A highly efficient DC Fan motor drives the fan of the outdoor unit. Efficiency is much higher than an equivalent AC motor.

# FAST COOLING



Mitsubishi Electric, a global leader in Air Conditioning, understands its customer requirement better than anyone else.

At Mitsubishi Electric, we invest great care in designing our product features, Instant relief from scorching heat is one such desire met successfully through the Fast Cooling feature in our Air Conditioners provided just at the click of a button.



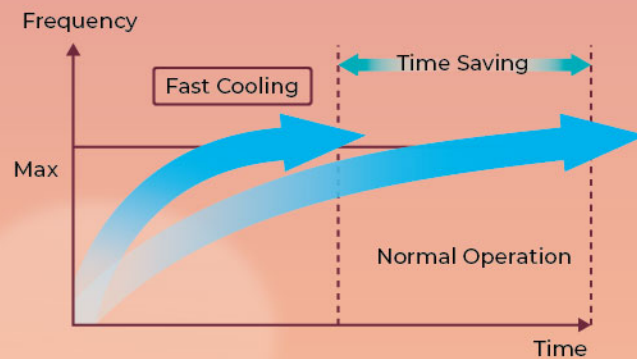
# 01 Fast Cooling Button

Once activated, this mode continues for 15 minutes.



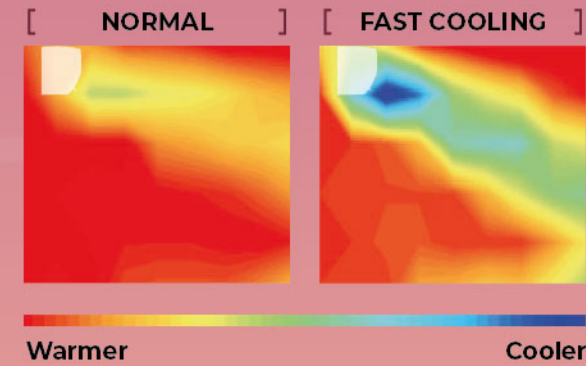
Fast Cooling mode starts immediately with the push of a button. According to preference, air direction can be changed freely.

# 03 Compressor Frequency Image



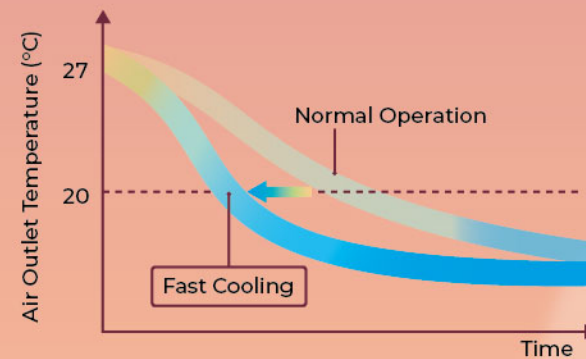
Pressing the Fast Cooling button makes the compressor reach its maximum frequency remarkably faster than in Normal Operation.

# 02 Thermography



Quickly cools the room with the highest-volume, and low-temperature air blow at 2 min. after operation.

# 04 Air Outlet Temperature



Lowens the air outlet temperature faster than Inverter Normal Operation.



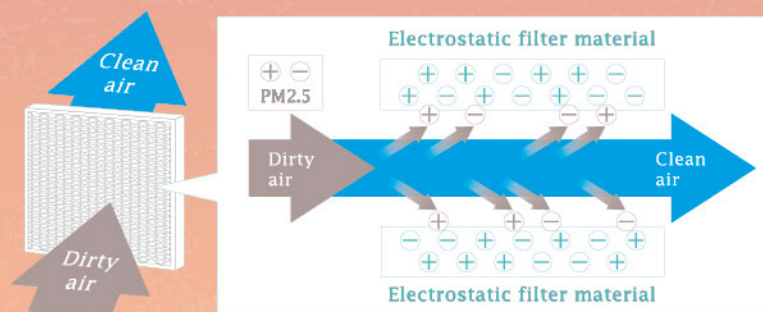
# Micro Particle Catching Filter (PM 2.5) and High Density Filter

Effectively eliminates floating PM2.5 and smaller dust particles.



## 01 Micro Particle Catching Filter<sup>1</sup>

Effectively catches floating PM 2.5 particles to maintain clean air in the room.



Electrostatic material removes PM 2.5 from the air and absorbs it when passing through the filter.

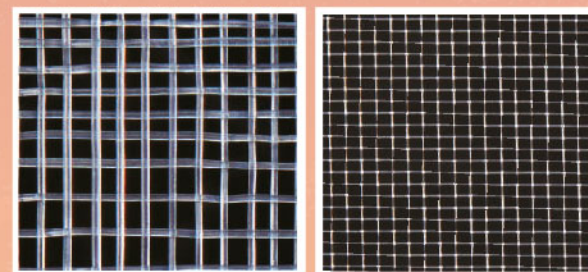


[ Model Name ]  
MAC-EMF515FT-E

## 02 High Density Filter<sup>2</sup>

High Density Filter can prevent smaller dust particles from entering inside Air Conditioners.

### ► Comparison of density of filters



Standard Filter

High Density Filter  
(Optional parts)

[ Model Name ] MAC-HDJ519FT-E  
MAC-HDH519FT-E

<sup>1</sup> 1 part available only

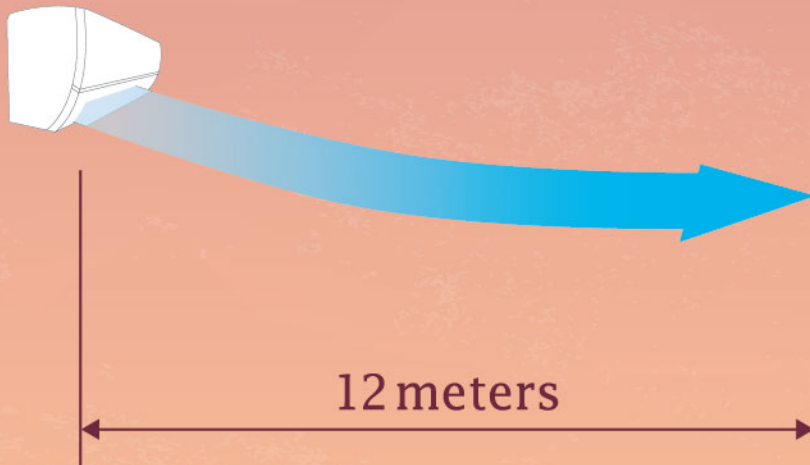
<sup>2</sup> Optional part



# Long Air Flow

Delivers substantial and comfortable airflow

Delivers Long and comfortable airflow upto 12m<sup>1</sup> suitable for living rooms.



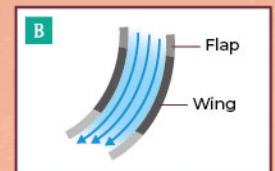
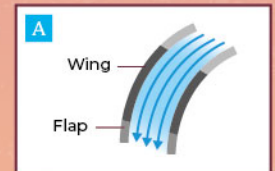
MITSUBISHI ELECTRIC launched the World's First\* Room Air Conditioner equipped with Cross Flow Fan in 1968.

\* Based on Euromonitor International research

## | Cross Flow Fan Technology



[ CROSS FLOW FAN ]

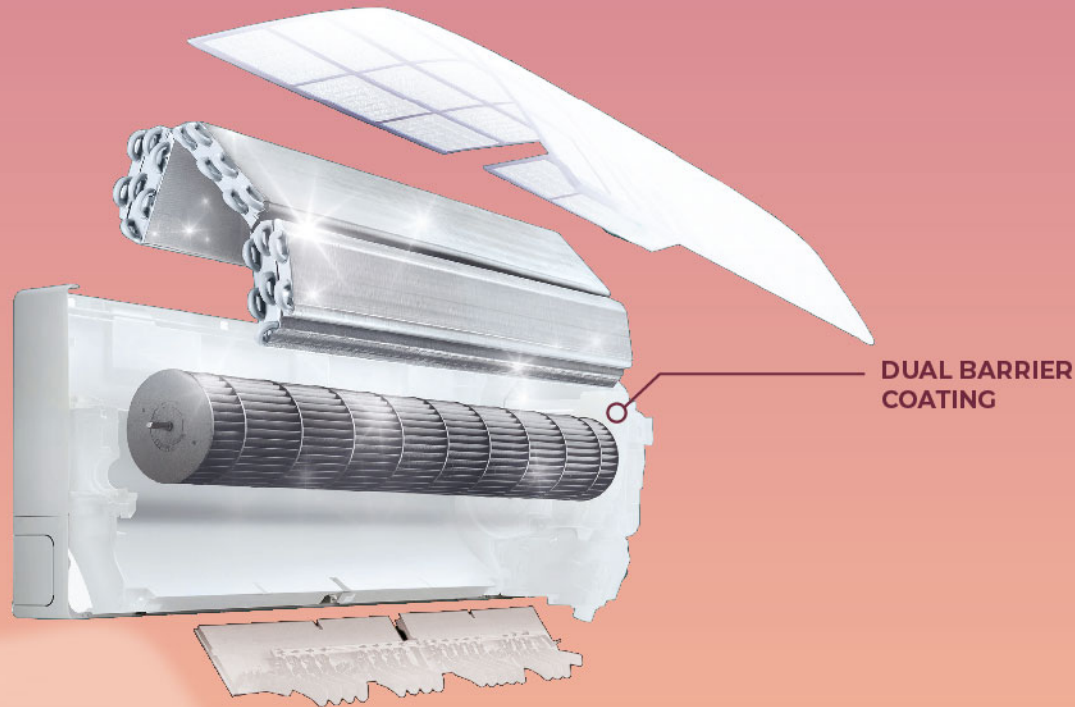


Our unique Cross-Flow Fan construction guides air smoothly along each rotating wing as it simultaneously intakes and expels air. This allows for highly efficient delivery of powerful and refreshing airflow.

<sup>1</sup>Available in MSY-RJS18/22

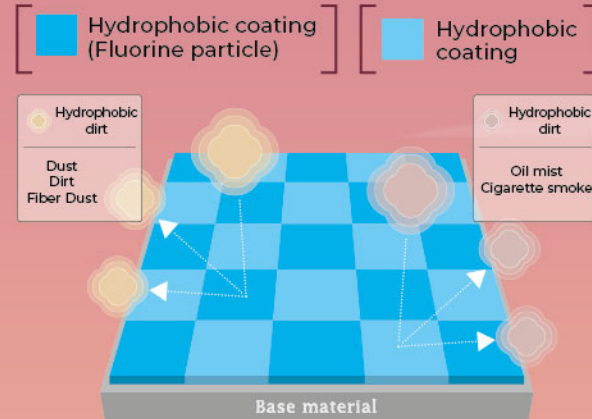
# Dual Barrier Coating

Dual Barrier Coating prevents dust and greasy dirt from getting into the Air Conditioner\*



## State-of-the-art coating technology

### Dual Barrier Coating both types of dirt



### Comparison of Dirt on Fan

#### [ FAN ]



Image after 10 years | Dual Barrier Coating used

Dirt is generally classified into two groups. Dual Barrier Coating works as two-barrier coating with blended "fluorine particles" that prevent hydrophilic dirt penetration and "hydrophobic particles" that prevent hydrophobic dirt.

### If the inside of your Air Conditioner gets dirty.

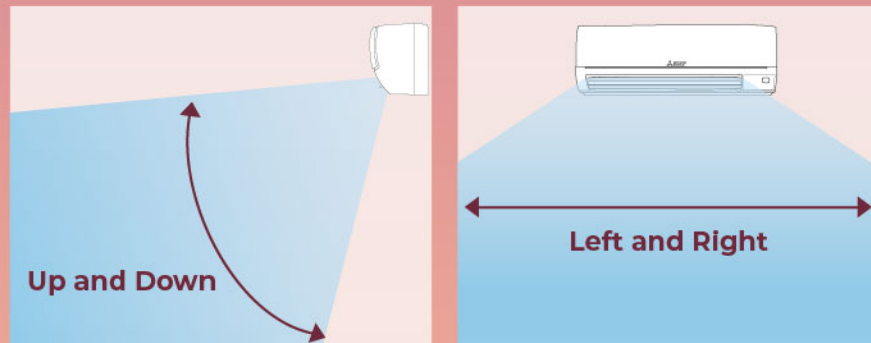


# Auto Vane Control

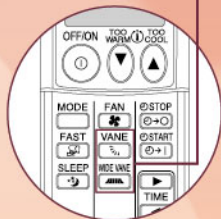
Up and Down / Left and Right

Auto vanes can be moved left and right, and up and down using the remote controller.

## Horizontal Airflow/Auto Vane Control

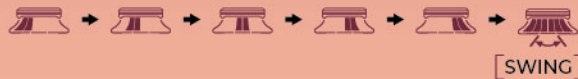


### Auto Vane Control Button



### Left and Right

Auto vanes can be set at 5 position and swing.



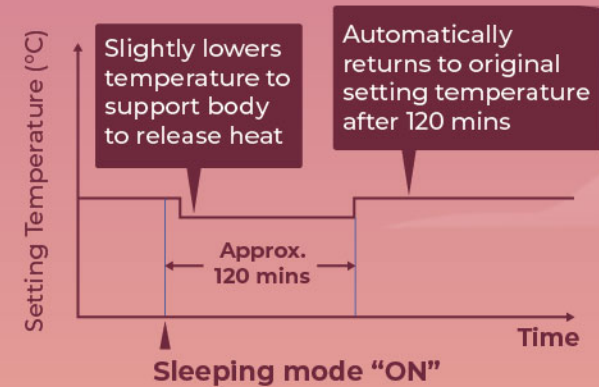
### Up and Down

Auto vanes can be set at 5 position and swing.

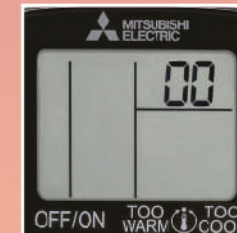


## Useful functions

### Sleep Mode



### Error code display



Error codes are displayed on the remote controller for troubleshooting

\*For details, please refer to the operating instructions.

# Kirigamine Series



## [ INDOOR UNIT ]

### ▶ MSY-RJS 13/15 VF



▶ H280 x W838 x D228 (mm)

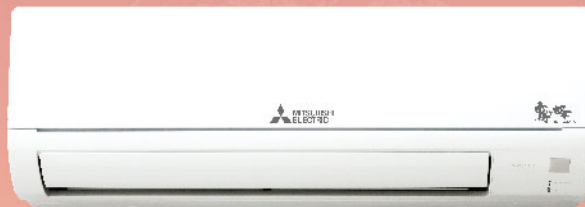
## [ REMOTE CONTROLLER ]



[ Luminous buttons ]



### ▶ MSY-RJS 18/22 VF



▶ H305 x W921 x D263 (mm)



[ Luminous buttons ]



## [ OUTDOOR UNIT ]

### ▶ MUY-RJS 13/15 VF



▶ H538 x W699 x D249 (mm)

### ▶ MUY-RJS 18 VF



▶ H550 x W800 x D285 (mm)

### ▶ MUY-RJS 22 VF



▶ H714 x W800 x D285 (mm)

# Specifications



Fast Cooling Mode



PM 2.5 Filter



Dual Barrier Coating



Long Air Flow



POWER SAVINGS GUIDE



R32 REFRIGERANT



| Type              | Cooling only                      |                          |                     |                     |                     |                     |
|-------------------|-----------------------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|
| Model name        | Indoor unit                       |                          | MSY-RJS13VF         | MSY-RJS15VF         | MSY-RJS18VF         | MSY-RJS22VF         |
|                   | Outdoor unit                      |                          | MUY-RJS13VF         | MUY-RJS15VF         | MUY-RJS18VF         | MUY-RJS22VF         |
| Refrigerant       | R32                               |                          |                     |                     |                     |                     |
| Power supply      | Source                            | Single phase, 230V, 50Hz |                     |                     |                     |                     |
|                   |                                   | Outdoor power supply     |                     |                     |                     |                     |
| Capacity          | Rated (Min-Max)                   | kW                       | 3.6(0.9-3.7)        | 4.2(1.2-4.2)        | 5.2(1.5-5.7)        | 6.6 (1.6-6.7)       |
|                   | TR                                | TR                       | 1.00                | 1.25                | 1.50                | 1.9                 |
| Total Input       | Rated (Min-Max)                   | kW                       | 1.27(0.30-1.35)     | 1.44(0.35-1.59)     | 1.68(0.35-2.04)     | 2.01 (0.34-2.20)    |
| ISEER             |                                   |                          | 4.15                | 4.23                | 4.23                | 4.22                |
| SPL               | Indoor unit (Quiet-Lo-Med-Hi-SHi) | dB(A)                    | 22-28-36-40-43      | 26-31-37-42-46      | 26-33-40-44-49      | 27-37-41-45-51      |
| Air Volume        | Indoor unit (Quiet-Lo-Med-Hi-SHi) | CFM                      | 190-247-331-397-452 | 197-274-352-419-471 | 230-297-392-459-569 | 300-399-487-576-660 |
| Operating Current | Rated                             | A                        | 6                   | 6.7                 | 7.5                 | 9.1                 |
| Indoor unit       | Dimensions (H x W x D)            | mm                       | 280x838x228         | 280x838x228         | 305x923x262         | 305x923x262         |
|                   | Weight                            | kg                       | 8.5                 | 8.5                 | 11.5                | 12.5                |
| Outdoor unit      | Dimensions (H x W x D)            | mm                       | 538x699x249         | 538x699x249         | 550x800x285         | 714x800x285         |
|                   | Weight                            | kg                       | 21                  | 24.5                | 31.5                | 37.0                |
| Ext.Piping        | Diameter Liquid                   | mm (inches)              | 6.35(1/4)           | 6.35(1/4)           | 6.35(1/4)           | 6.35(1/4)           |
|                   | Diameter Gas                      | mm (inches)              | 9.52(3/8)           | 9.52(3/8)           | 12.7(1/2)           | 12.7(1/2)           |
|                   | Max.Length Out-In                 | m                        | 20                  | 20                  | 20                  | 30                  |
|                   | Max.Height Out-In                 | m                        | 12                  | 12                  | 12                  | 15                  |
| Star Rating       |                                   |                          | 4 Star              | 4 Star              | 4 Star              | 4 Star              |

|                         |            |                  |  |          |          |          |
|-------------------------|------------|------------------|--|----------|----------|----------|
| Pre filter              |            |                  | ANTI-MOLD/HIGH DENSITY FILTER (Option) |          |          |          |
| Air cleaning filter     |            |                  | MICROPARTICLE CATCHING FILTER          |          |          |          |
| Timer                   |            |                  | 12h                                    | 12h      | 24h      | 24h      |
| Vertical Swing          | Auto       |                  | -                                      | -        | ○        | ○        |
|                         | Manual     |                  | ○                                      | ○        | -        | -        |
| Control wiring (Copper) | ODU to IDU | Core No. x Sq.mm | 4C x 1.0                               | 4C x 1.0 | 4C x 1.0 | 4C x 1.0 |
| Power cable (Copper)    | To ODU     | Core No. x Sq.mm | 3C x 1.0                               | 3C x 1.0 | 3C x 1.0 | 3C x 2.0 |
| ODU Breaker Size        | To ODU     | A                | 10                                     | 10       | 10       | 16       |

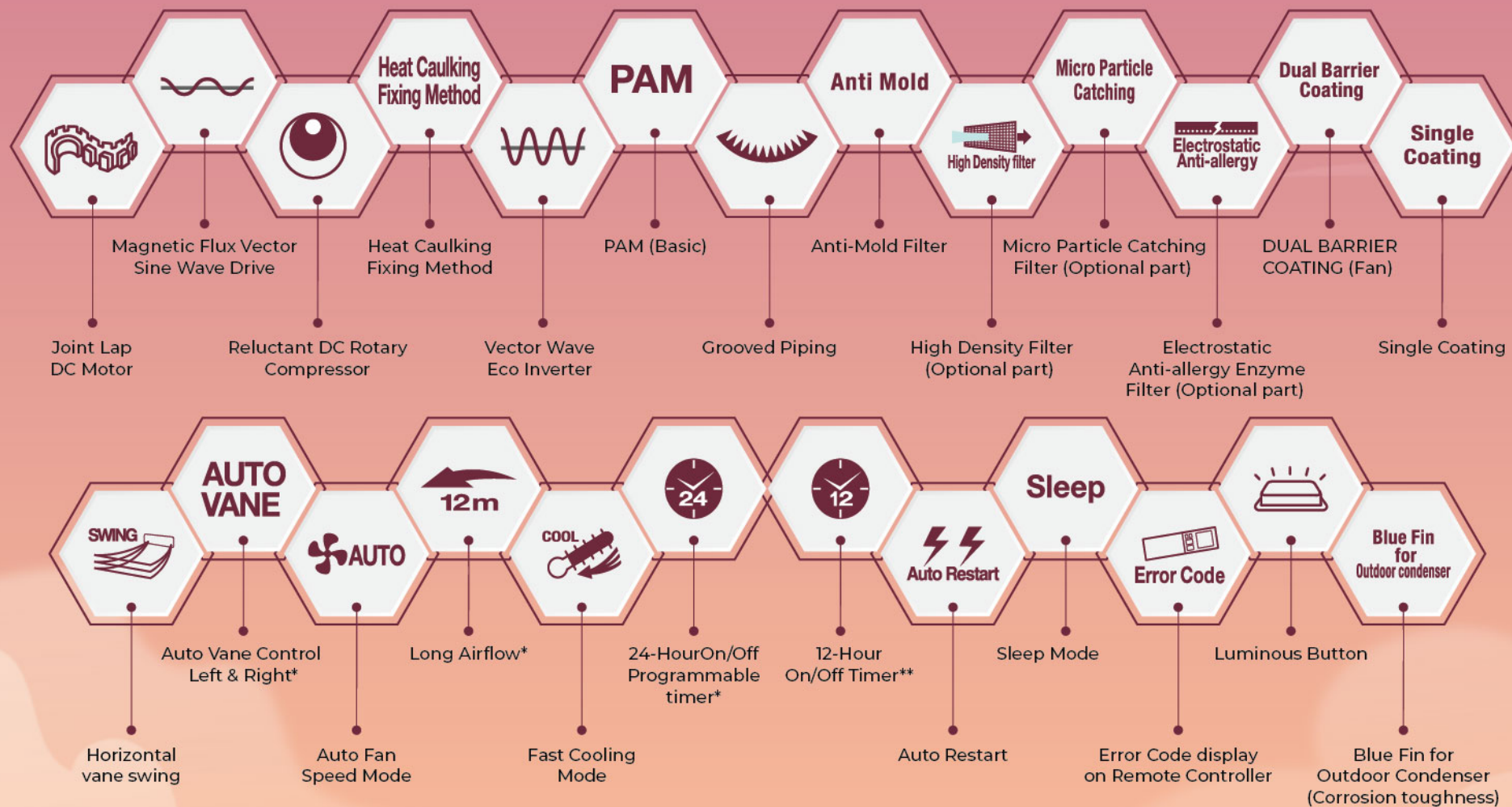
## Rating conditions:

Cooling - Indoor: 27°C (80°F) DB, 19°F (66°F) WB, Outdoor: 35°C (95°F)

Refrigerant piping length (one-way): 5.0m (16.4ft)

Total input based on the indicated voltage (indoor/outdoor): 1 phase 230V 50Hz.

# Functions and Features



\*Only for MSY-RJS18/22VF \*\*Only for MSY-RJS13/15VF

# The Perfect Comfort Range

## INVERTER RANGE

## FIXED SPEED RANGE



**MSY-GRT SERIES**   

-  Fast Cooling Mode
-  Dual Barrier Coating
-  LED Backlit Remote
-  PM 2.5 Filter



**MSY-GR SERIES**  

-  Fast Cooling Mode
-  Dual Barrier Coating
-  High CFM\*
-  PM 2.5 Filter (optional)



**MSY-GN SERIES**  

-  Dual Barrier Coating
-  IDU Anti-Corrosion Coating
-  Blue Fin (Anti-corrosion)
-  Wide & Long Air Flow\*



**MS-GS SERIES** 

-  50°C Operating Range
-  High CFM
-  IDU Anti-Corrosion Coating
-  Econo Cool Smart Save







**Heat Pump MSZ-HP SERIES**  

-  Heating and Cooling
-  Silver-Ionized Air Filter (optional)
-  IDU Anti-corrosion Coating
-  Long Air Flow



**MSY-JR SERIES**  

-  High CFM
-  Single Phase
-  Auto Vane Control
-  Long Air Flow



**Kirigamine SERIES**  

-  Dual Barrier Coating
-  Long Air Flow
-  PM 2.5 Filter
-  Fast Cooling Mode



**MS-JP SERIES** 

-  Powerful Cool
-  Electronic Metal Housing Box
-  Nano Platinum Filter
-  50°C Operating Range



**MSY-JP SERIES**  

-  Powerful Cool
-  Dual Barrier Coating
-  IDU Anti-corrosion Coating
-  Long Air Flow\*

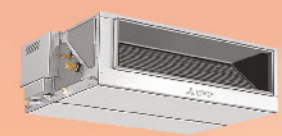
**The ME Edge:** Anti Mold | Nano Platinum Filter | Wide and Long Airflow | Auto Vertical/Horizontal Vane Power Saving | 100% Imported | Unmatched Service | R32 Refrigerant | Blue Fin Condenser



Air Curtain



Cassette Air Conditioner



Ducted Air Conditioner



Jet Towel



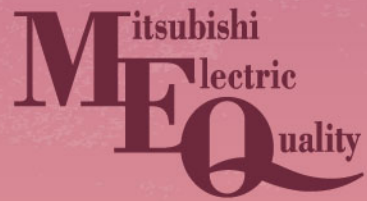
City Multi VRF



Floor Standing

\*Available in specific models.





What is MITSUBISHI ELECTRIC Quality? MEQ represents our dedication to excellence in developing and manufacturing exceptional, eco-friendly home appliances, amazing industrial products, reliable public infrastructure systems and inspiring space technologies, which are truly out of this world. And there's so much more. When you see the MEQ logo, you know something good is being created.



## Development

Taking into account the various harsh environments around the world, at MITSUBISHI ELECTRIC we have established uniquely strict quality control standards and various quality evaluation tests for our products.



## Design

To ease our customers' minds we invest great care when designing. So that they may use our products with the reassurance that comes through high-quality parts manufacturing and impeccable assembly.



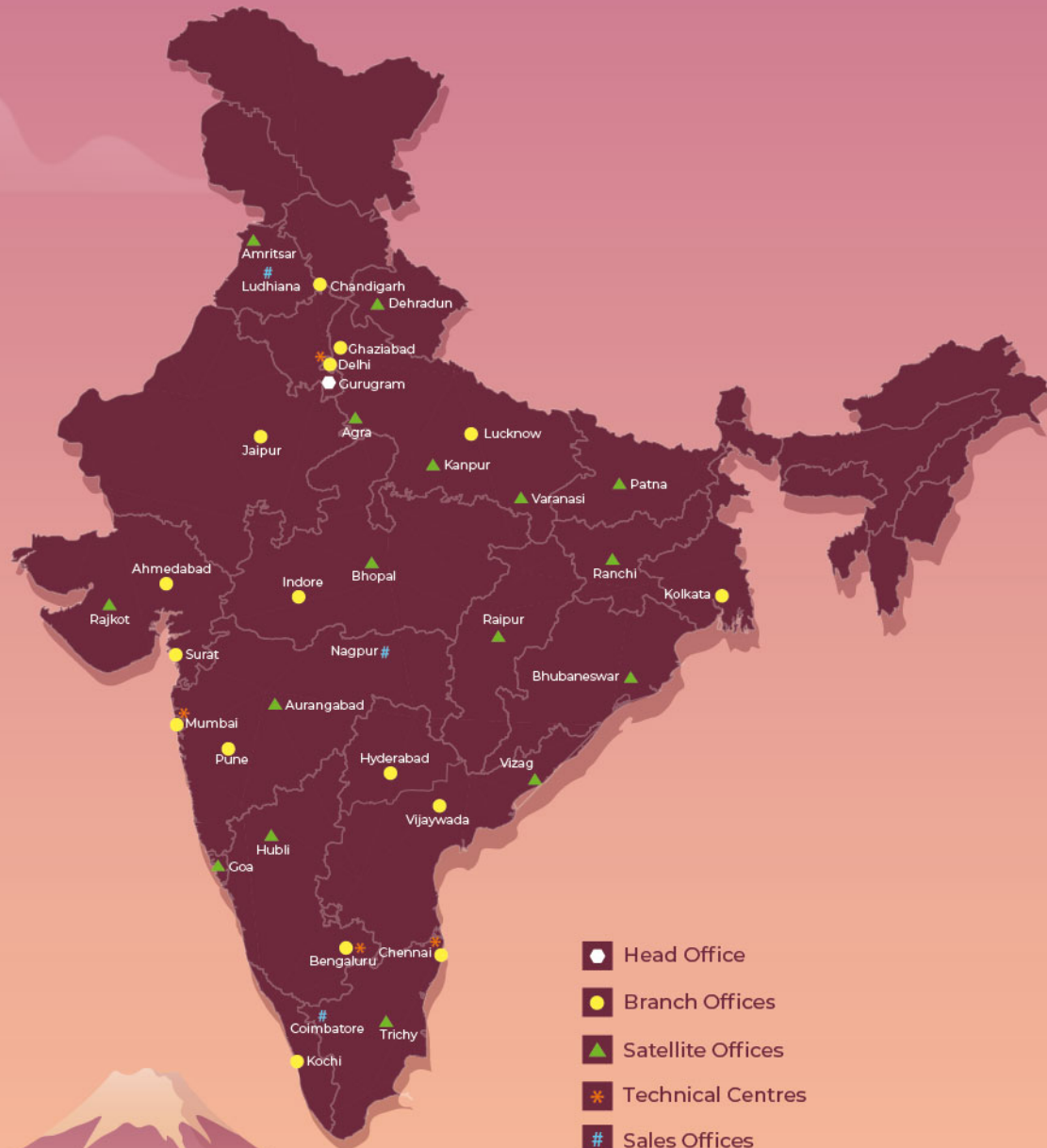
## Production

MITSUBISHI ELECTRIC makes full use of its advanced production technology to efficiently produce top-quality products. All our products are inspected by experienced professionals.





霧峰  
KIRIGAMINE



- Head Office
- Branch Offices
- Satellite Offices
- Technical Centres
- Sales Offices

\*Map for reference purpose only.

## mitsubishi electric india pvt. ltd.

**HEAD OFFICE:** 3<sup>rd</sup> Floor, Tower A, Global Gateway,  
MG Road, Gurugram – 122002

**Tel. No.: (Main):** 0124-6739300/ 301

**Website:** [www.mitsubishielectric.in](http://www.mitsubishielectric.in)

**Email:** [customersupport@asia.meap.com](mailto:customersupport@asia.meap.com)

### BRANCH/SALES OFFICES:

**Ahmedabad:** 079-67777888; **Bhubaneswar:** 09073949597;  
**Bangalore:** 080-40201600; **Coimbatore:** 0422-4385606;  
**Chandigarh:** 0172-4601645; **Chennai:** 044-49232222;  
**Delhi:** 011-66057900; **Ghaziabad:** 011-66057900;  
**Hyderabad:** 040-43438888; **Indore:** 0731-4098991;  
**Jaipur:** 0141-4011109; **Kolkata:** 033-40858800/16-88;  
**Kochi:** 0484-4862093; **Lucknow:** 0522-4002607;  
**Ludhiana:** 0161-4061654; **Mumbai:** 022-66116200;  
**Nagpur:** 09921442323; **Pune:** 09922441773;  
**Rajkot:** 09586605009; **Surat:** 0261-4003111;  
**Vijaywada:** 08498894567.

### SATELLITE OFFICES:

**Agra:** 09536900140; **Amritsar:** 09780021037;  
**Aurangabad:** 09552572820; **Bhopal:** 08448398010;  
**Dehradun:** 08800878763; **Goa:** 09167113443;  
**Hubli:** 08448398010; **Kanpur:** 07755007767;  
**Patna:** 09073949596; **Raipur:** 08448397997;  
**Ranchi:** 0973949598; **Tirupati:** 09319591931;  
**Trichy:** 09205599022; **Varanasi:** 09336311110;  
**Vizag:** 09205987308

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**Customer Care Toll Free No.: 1800 102 2626**

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### TECHNICAL CENTRES:

**Ahmedabad:** 079-67777874; **Bengaluru:** 080-40201600;  
**Chennai:** 044-49232222; **Delhi:** 011-66057900;  
**Mumbai:** 022-66116200



For E-waste Collection & Disposal process: Customer can get complete details of company process on collection, disposal of e-waste product (i.e. 'Mitsubishi Electric' make Air Conditioner) and incentive / exchange scheme for returning of e-waste on Company website ([www.mitsubishielectric.in](http://www.mitsubishielectric.in)) and / or Toll free number 1800 102 2626.

\*Specifications subject to change without prior notice.