 **MITSUBISHI  
ELECTRIC**  
AIR CONDITIONERS

*Changes for the Better*



**GR-T**  
Series



*New luxurious and  
stylish design*

# Tropical Inverter Technology

Proper operation is ensured at outdoor temperatures up to 52°C with the optimized heat exchanger and the PCB's improved cooling performance. Even under harsh tropical conditions\*, this unit can maintain its rated cooling capacity and achieve comfortable air conditioning.

High cooling performance

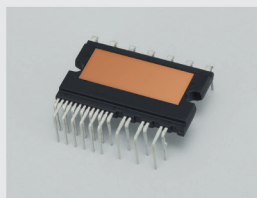
Keep rated capacity  
~46°C

Guaranteed operating range  
~52°C



\* Tropical condition : Ambient temperature 46°C/24°C, Indoor temperature 29°C/19°C

## 01 MITSUBISHI ELECTRIC Inverter Power Module



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

## 02 MITSUBISHI ELECTRIC Propeller Fan and DC Fan Motor

Propeller Fan



The newly designed propeller fan maximizes airflow efficiency. It delivers more air volume with less 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.

## 03 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 utilizing original dense winding technology

Heat Caulking

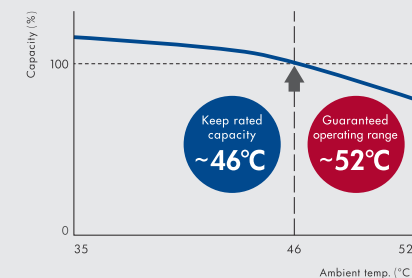


The original heat caulking method minimizes cylinder distortion for even greater efficiency.



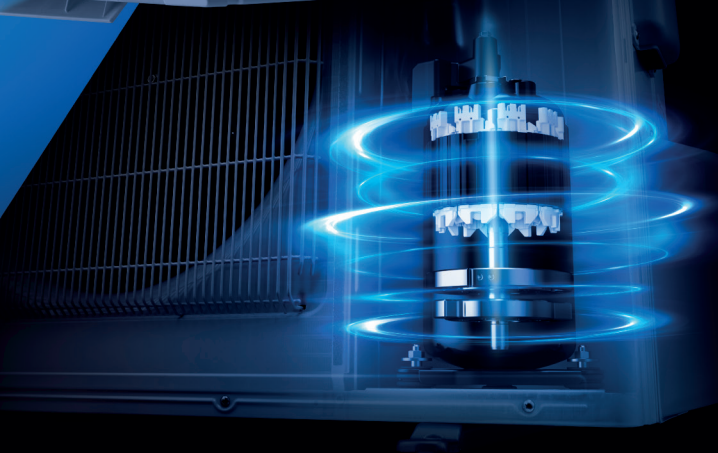
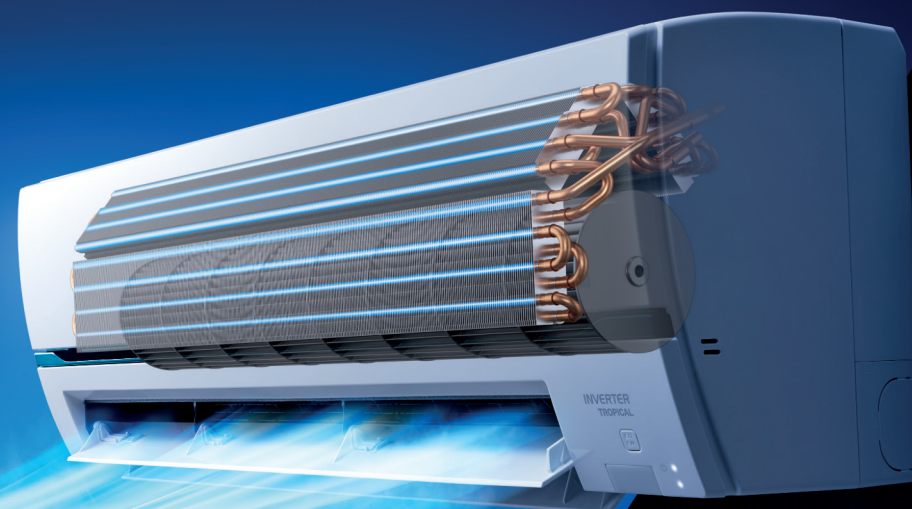
## 04 High cooling performance even in tropical condition

Realized powerful cooling performance up to an ambient temp 46°C!

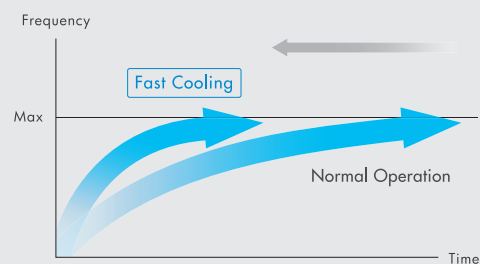


# Fast Cooling

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.

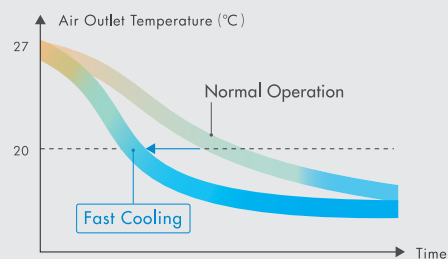


## 01 Compressor Frequency image



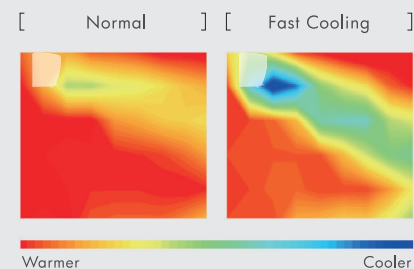
Pressing the Fast Cooling button makes the compressor reach its maximum frequency remarkably faster than in Normal Operation.

## 02 Air Outlet Temperature



Lowers the air outlet temperature faster than Inverter Normal Operation.

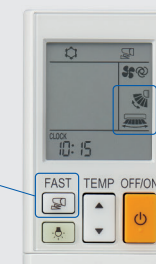
## 03 Thermography



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

## 04 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.



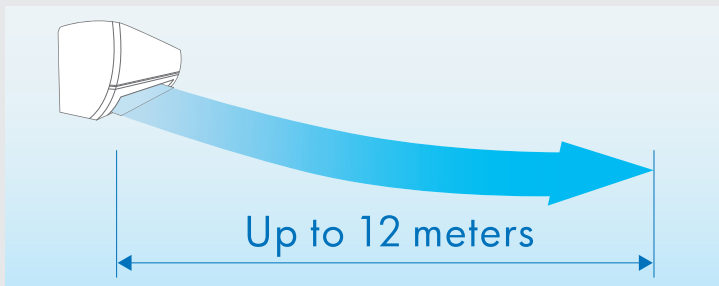
# Long airflow

Delivers substantial and comfortable airflow



# Auto Vane Control Up and Down/Left and Right

Projects air current up to 12 meters. Suitable even for living rooms.

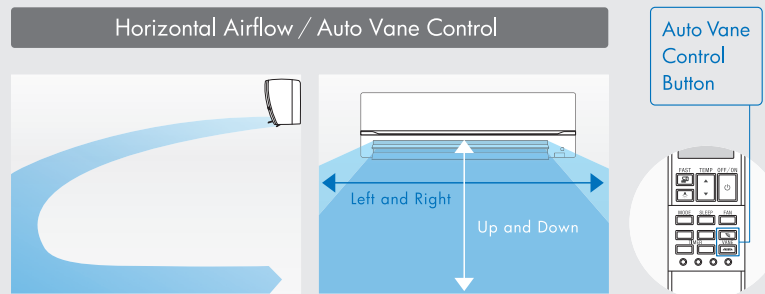


### Model comparison

- MSY-GR13VFT ..... 8 m
- MSY-GR18/22VFT ..... 12 m

\* It's available when air direction horizontal and fan speed S-Hi.

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

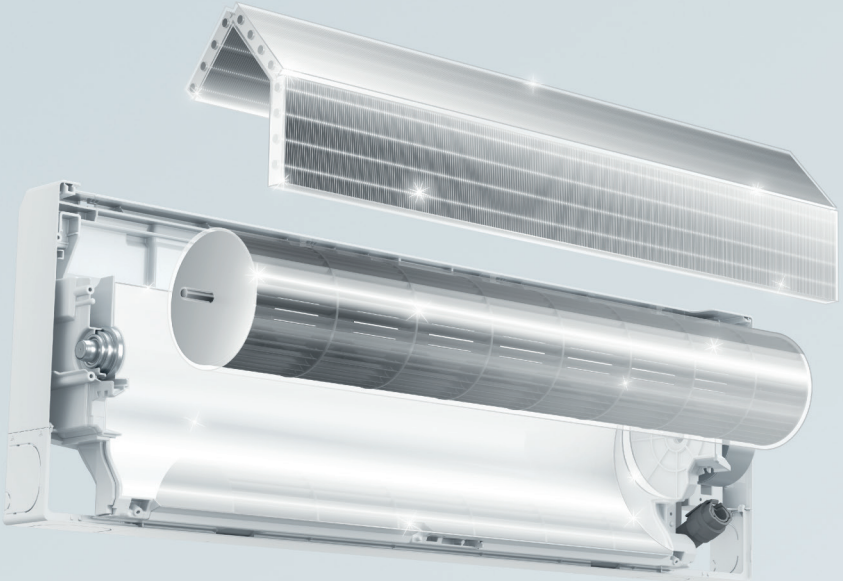


**Left & Right** \*not available for MSY-GR13VFT   
Auto vanes can be set at 6 position and swing.



**Up & Down**  
Auto vanes can be set at 5 positions and swing.

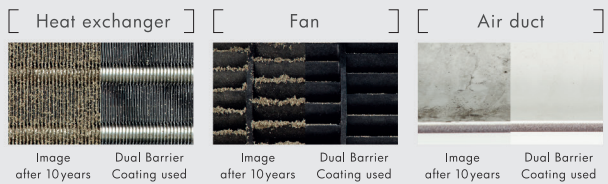
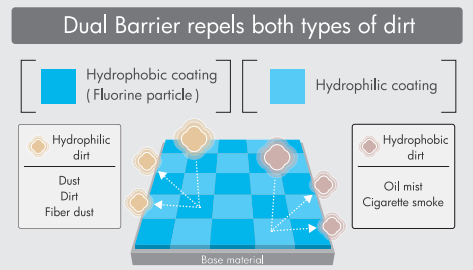




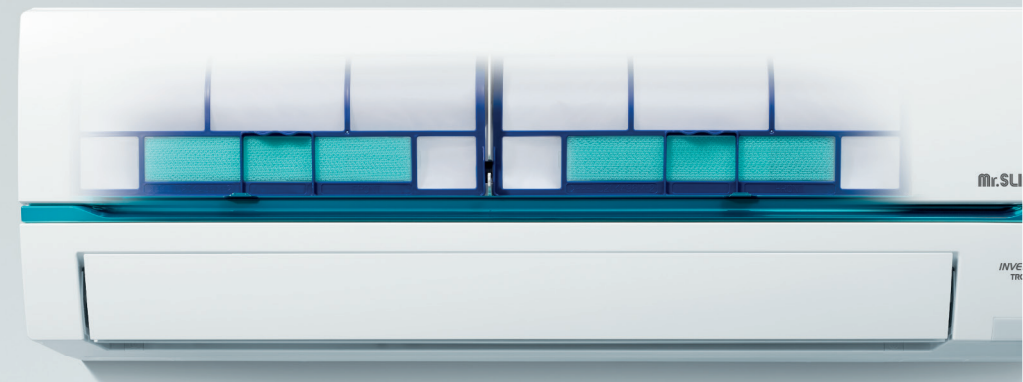
# Dual Barrier Coating

Dual Barrier Coating prevents dust and greasy dirt from getting into the air conditioner

## State-of-the-art coating technology



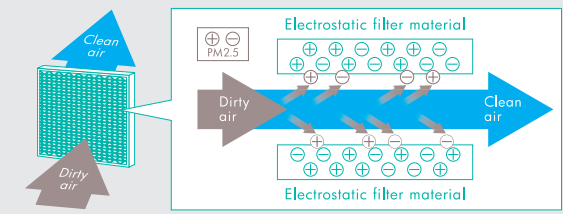
Dirt is generally classified into two groups. Dual Barrier Coating works as a two barrier coating with blended "fluorine particles" that prevent hydrophilic dirt penetration and "hydrophilic particles" that prevent hydrophobic dirt.



# Micro Particle Catching Filter (Standard) and High Density Filter (Optional)

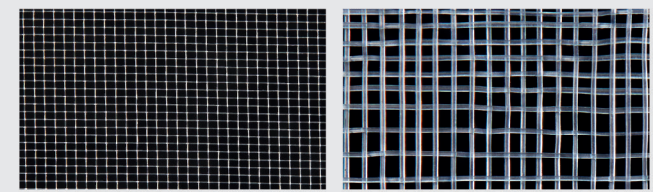
Effectively eliminate PM 2.5 and catch smaller dusts.

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



## [Comparison of Density of filters]

High Density Filter can prevent smaller dust from entering the inside of air conditioners.



High Density Filter

Standard Filter

## Quiet Operation

The indoor unit level is as low as 19 dB (A) offering a peaceful indoor environment.

(Model GRT13)



## Aerodynamics Technology

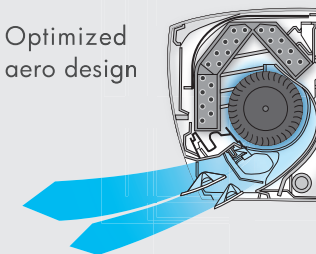
key factors to realize quiet air conditioners

### Cross-Flow-Fan

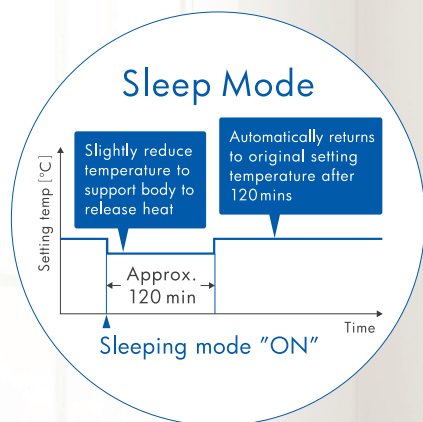


Our unique Cross Flow Fan construction guides air smoothly along each rotating blade as it simultaneously takes in and expels air. This allows for highly efficient delivery of powerful and refreshing airflow.

### Optimized aero design



Optimized aero design utilizing 2 horizontal vanes and fixing suitable position of lower vane.



# New Remote Controller

New stylish and compact remote controller features easy-read big display and simple button position with fundamental functions.



## LED Backlight with luminous button

Once the luminous backlight button is pressed, the setting can be easily checked in the dark.



## Error code display

Error codes are displayed on the remote controller for trouble shooting.



\* For the details, please refer to the operating Instructions

## Simple and intuitive buttons



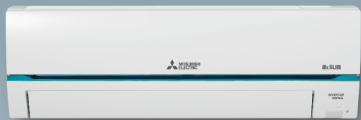
## A Remote Controller That Fits You

Its compact design creates the perfect fit for your hand.

# GR(T) Series

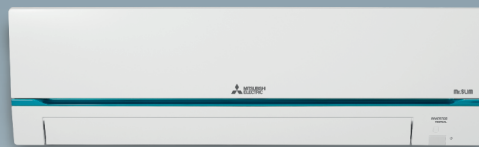
## Indoor Unit

GR13VFT



| H280 x W838 x D229 (mm) |

GR18/22VFT



| H325 x W1100 x D257 (mm) |

## [ Remote Controller ]



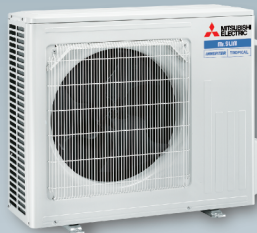
## Outdoor Unit

GR13VFT



| H538 x W699 x D249 (mm) |

GR18/22VFT



| H714 x W800 x D285 (mm) |

## Functions and Features

Joint Lap  
DC MotorMagnetic Flux Vector  
Sine Wave DriveReluctant DC  
Rotary CompressorHeat Caulking  
Fixing MethodVector Wave  
Eco Inverter

PAM (Basic)

Anti-Mold  
filterHigh Density filter  
(Optional part)Micro Particle  
CatchingElectrostatic  
Anti-allergy  
Enzyme Filter (Optional part)Dual Barrier  
Coating

Horizontal vane swing

Vertical  
vane swingAuto vane control  
(Left & Right, Up & Down)Double  
Horizontal vane

Auto Fan Speed Mode

Long Airflow  
\* GR18/22/26LED Back Light with  
Luminous buttonFast Cooling  
Mode

Sleep Mode

24-Hour On/Off  
programmable timer

Auto Restart




Error Code display on  
Remote ControllerBlue Fin for Outdoor condenser  
(Corrosion toughness)

Grooved Piping

Guaranteed Ambient  
Operating Range up to 52°CKeep Rated Capacity  
up to Ambient temp, 46°C



# GR(T) Series

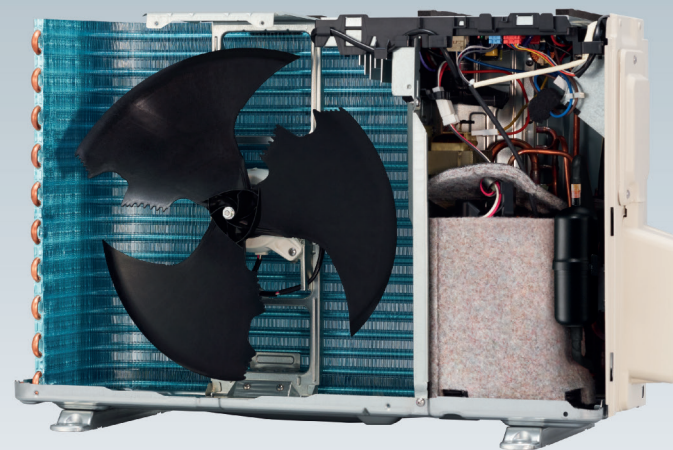
Type	Cooling only				
Model name	Indoor unit	MSY-GR13VFT-DA1	MSY-GR18VFT-DA1	MSY-GR22VFT-DA1	
	Outdoor unit	MUY-GR13VFT-DA1	MUY-GR18VFT-DA1	MUY-GR22VFT-DA1	
Refrigerant			R32		
Power supply	Source	Single phase 230V, 50Hz			
		Outdoor power supply			
capacity	Rated (Min-Max)	kW	3.7 (1.4-4.1)	5.2 (1.8-6.0)	6.6 (1.8-7.2)
	TR	TR	1.00	1.50	1.90
Total Input	Rated (Min-Max)	kW	1.01 (0.32-1.31)	1.36 (0.33-1.53)	1.72 (0.33-2.15)
ISEER			5.02	5.00	5.00
SPL	Indoor unit (Silent-L0-Med-Hi-SHi)	dB(A)	19-24-31-38-43	27-33-38-44-49	28-36-41-45-51
Air Volume	Indoor unit (Silent-L0-Med-Hi-SHi)	CFM	152-187-254-335-448	318-396-466-554-717	339-424-512-597-784
Operating Current		A	4.8	6.2	7.6
Indoor unit	Dimensions (H x W x D)	mm	280*838*229	325*1100*257	325*1100*257
	Weight	kg	10	17	17
Outdoor unit	Dimensions (H x W x D)	mm	538*699*249	714*800*285	714*800*285
	Weight	kg	24.5	38	38
Ext.Piping	Diameter Liquid	mm (inches)	6.35(1/4)	6.35(1/4)	6.35(1/4)
	Diameter Gas	mm (inches)	9.52(3/8)	12.7(1/2)	15.88(5/8)
	Max.Length Out-In	m	20	30	30
	Max.Height Out-In	m	12	15	15
Star Rating					

Pre filter	ANTI-MOLD				
Air cleaning filter			Microparticle catching filter(PM2.5)(STD), Electrostatic Anti Allergy Enzyme Filter(OPT)		
Timer			24h	24h	24h
Vertical Swing			o	o	o
Control wiring (Copper)	ODU to IDU	Core No. x Sq.mm	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 2.0	3C x 2.0
ODU Breaker Size	To ODU	A	10	16	16

# Mitsubishi Electric Quality



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.

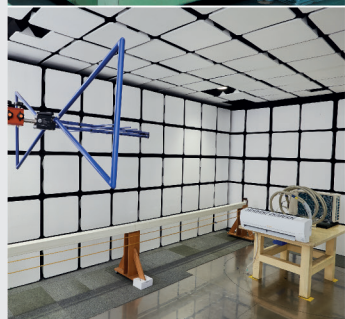


# Development

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.



Dropping Test



Electromagnetic Compatibility Test



Salt Spray Test



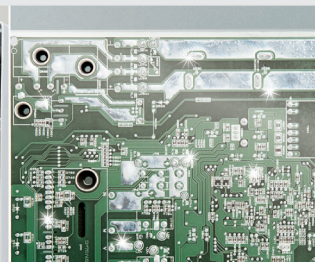
Anechoic Chamber Noise Test

# Design

In order to ensure our customers can use our products with peace of mind and for a long time, we select high-quality durable parts, and invest great care when designing and assembling our products.



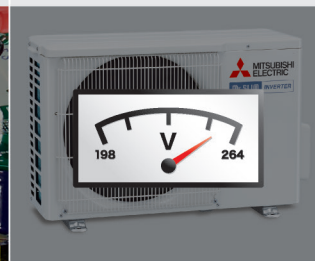
Ensure its reliable operation and preventing fire accident in case of short circuit.



Special coating prevents any damages from humidity and insects



MITSUBISHI ELECTRIC PCB can resist high voltage up to 450V.



MITSUBISHI ELECTRIC Inverter can be smoothly operated even in 198v~264V.



A special coating is applied to the heat exchanger to increase corrosion toughness.



Anti-rust painting and galvanized steel protect cabinet even under harsh environment.

# Production

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



# MITSUBISHI ELECTRIC INDIA PVT. LTD.






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

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 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;  
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 Patna: 09073949596; Raipur: 08448397997; Ranchi: 0973949598; Tirupati: 09319591931; Trichy: 09205599022;  
 Varanasi: 09336311110; Vizag: 09205987308

 \*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) or by calling on Toll free number 1800 102 2626.

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

\*Map for reference purpose only.

