

Heat Pump Inverter Package Air Conditioner Line Up

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Model Name
SEZ/PEAD Series



Compact Ceiling Concealed

2 & 3 HP: 1-Phase

4 & 6 HP: 3-Phase

Model Name
PLA Series



4 Way Cassette

2 & 3 HP: 1-Phase

4 & 6 HP : 3-Phase



4 Star*

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SUZ-KA

PUHZ-P



SUZ-KA

PUHZ-P

Leading the world in every field with advanced technology and assured quality

Technologies are forever changing society and the way people live. Applying innovative ideas and advanced technological prowess, Mitsubishi Electric delivers various products and services that improve daily life and the social infrastructure. From residential-use products to those for commercial and industrial-use, semiconductors, social infrastructure systems, and products and services for the development of outer space, we are not only the leading manufacturer in Japan, but throughout the world.

We have maintained our commitment to the pursuit of better technologies and higher quality throughout a history nearly Spanning over 100 years. Our detailed craftsmanship in all products has resulted in global recognition as a reliable brand. Not only with advanced air conditioning products and systems, but also with superior product development power, **Mitsubishi Electric** will continue to support lifestyles and societies for generations to come.



1921 Mitsubishi Electric is branched off from Mitsubishi Corporation as a separate identity	1928 E52, the first large-scale electric locomotive produced in Japan	1935 Commencement of elevator & escalator production	1953 Launched first commercial television	1964 Produced radar equipment for the weather station atop Mt. Fuji	1980 Debut of Diamond Vision display at Dodger Stadium in the United States	1990 Launched world's first commercial car navigation system incorporating GPS	2000 Adopted MISTY® technology as encryption standard for 3rd-generation mobile phones	2007 Completed 173-metre-tall elevator testing tower (world's tallest at the time)	2008 Launched SUPERBIRD-C2, Japan's first domestically produced commercial satellite	2011 Debut of Hayabusa Series E5, holder of the Japanese speed record for a train	2014 Unveiled world's largest full ultra-HD video display* in Times Square, New York City*As of Nov. 18, 2014 (based on total area)
											

Air Conditioner product history

1954 Room Air Conditioners production started.	1967 Introduced Japan's first wall-mounted split-type Air Conditioners.	1968 Introduced Japan's first ceiling-suspended, split-type Air Conditioners.	1978 Introduced Mr. Slim Air Conditioners for commercial use.	1984 Introduced inverter Air Conditioners with wireless remote control and automatic vane.	1993 Accumulated room Air Conditioners production of 10 million units.	1994 Introduced i-see Sensor (built-in sensor). First in industry to develop a sensor that detects the location of people.	2008 Solved the problem of wide spaces with the release of the 3D i-see Sensor.
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Inverter Technologies

Mitsubishi Electric inverters ensure superior performance, including the optimum control of operational frequency. As a result, optimum power is applied in all heating/cooling ranges and maximum comfort is achieved while consuming minimal energy. Fast, comfortable operation and amazingly low running cost — that's the Mitsubishi Electric promise.

INVERTERS – HOW THEY WORK

Inverters electronically control the electrical voltage, current and frequency of electrical devices such as the compressor motor in an Air Conditioner. They receive information from sensors monitoring operating conditions and adjust the rotation speed of the compressor, which directly regulates Air Conditioner output. Optimum control of operation frequency results in eliminating the consumption of excessive electricity and providing the most comfortable room environment.

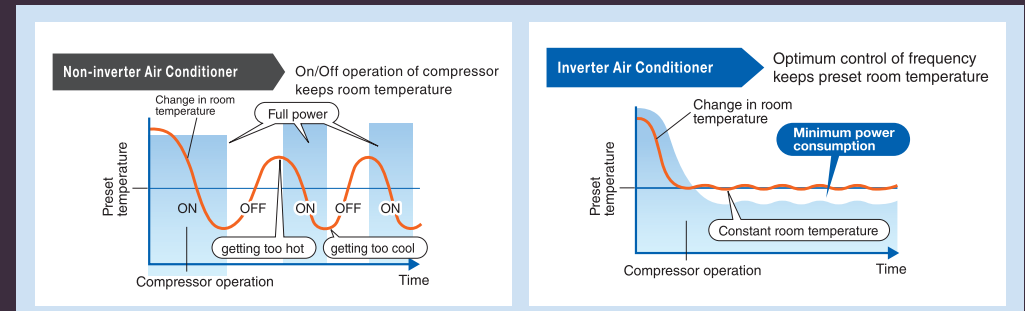
ECONOMICAL OPERATION

Impressively low operating cost is a key advantage of inverter-equipped Air Conditioners. We have combined advanced inverter technologies with cutting-edge electronic and mechanical technologies to achieve a synergistic effect that enables improvements in heating/cooling performance efficiency. As a result, better performance and lower energy consumption is achieved.

TRUE COMFORT

Below is a simple comparison of Air Conditioner operation control with and without an inverter.

Inverter operation comparison



The compressors of Air Conditioners without an inverter start and stop repeatedly in order to maintain the preset room temperature. This repetitive on/off operation uses excessive electricity and compromises room comfort. The compressors of Air Conditioners equipped with an inverter run continuously; the inverter quickly optimizing the operating frequency according to changes in room temperature. This ensures energy-efficient operation and a more comfortable room.

Quick & Powerful

Increasing the compressor motor speed by controlling the operation frequency ensures powerful output at start-up, and brings the room temperature to the comfort zone faster than units not equipped with an inverter. Hot rooms are cooled, and cold rooms are heated, faster and more efficiently.

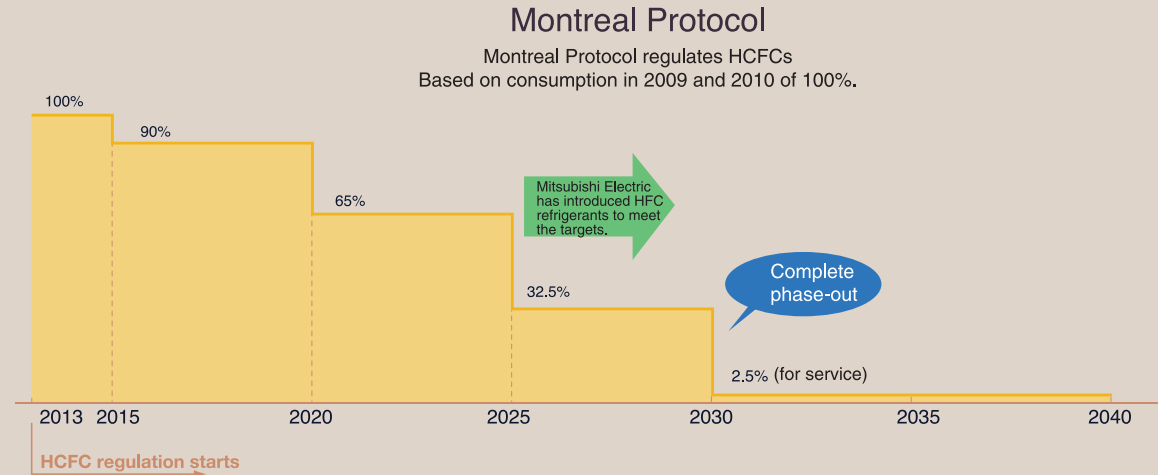
Room Temperature Maintained

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

R410A Refrigerant

As scientific evidence points to man-made chemicals causing damage to ozone layer, Mitsubishi Electric only use chlorine-free refrigerants that are safe and rated zero ozone depletion potential ODP. Accordingly, our systems require less energy to run and have significantly lower indirect global warming potential. In short, we produce the most efficient equipment possible, while helping to protect the environment.

The Montreal Protocol calls for the complete abolishment of HCFC refrigerant consumption in Article 5 countries (such as R22) by the year 2030. Mitsubishi Electric is committed to shifting over to HFC models from HCFC models.



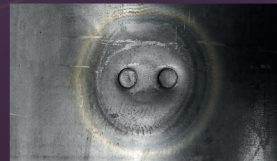
MITSUBISHI ELECTRIC Compressor

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.



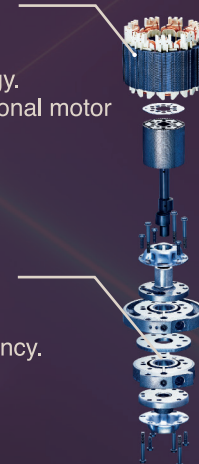
| Poki-Poki Motor

Dramatically enhanced motor efficiency utilising original dense winding technology. 28% more wire as compared to conventional motor



| Heat Caulking

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



Detects number of people

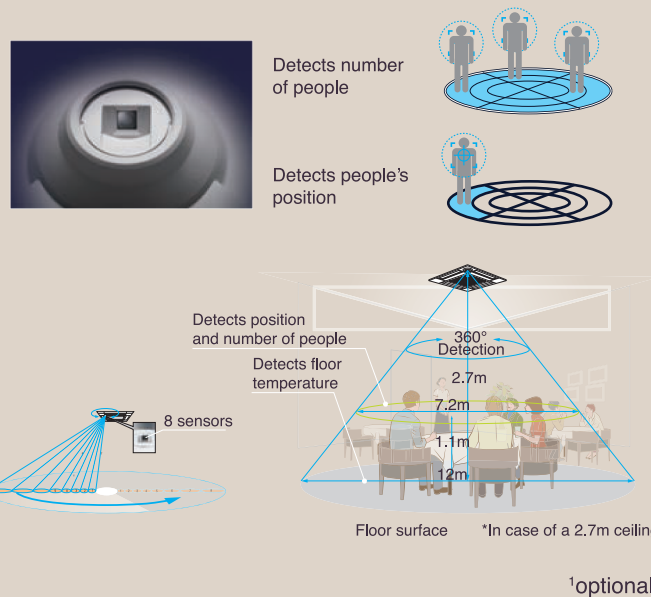
3D i-see Sensor detects the number of people in the room and sets the Air-Conditioning power accordingly. This makes automatic power-saving operation possible in places where the number of people entering and exiting is large.

Additionally, when the area is continuously unoccupied, the system switches to a more enhanced power-saving mode.

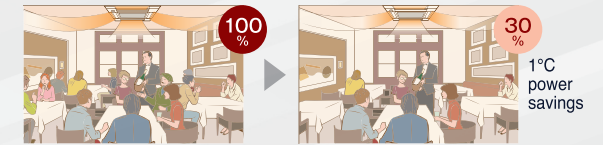
Depending on the setting, it will save additional capacity or stop operation altogether.

Detects people's position

Once the position of a person is detected, the duct angle of the vane is automatically adjusted in that direction. Each vane can be independently set to "block wind" or "not block wind" according to taste.



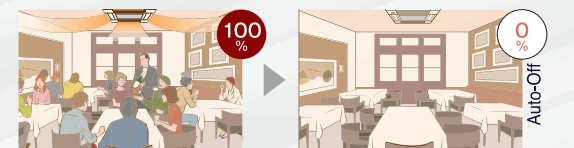
Room occupancy energy-saving mode



No occupancy Auto-OFF mode



No occupancy energy-saving mode



*PAR-32MAA is required for each setting

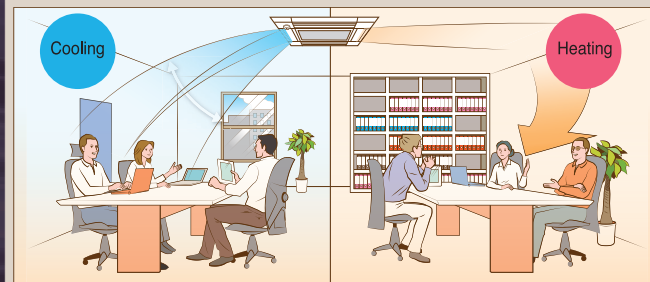
When cooling

Saves energy while keeping a comfortable effective temperature by automatically switching between ventilation and cooling. When a pre-set temperature is reached, the Air Conditioning unit switches to swing fan operation to maintain the effective temperature. This clever function contributes to keeping a comfortable coolness.

When heating

The Air Conditioning unit automatically switches between circulator and heating. Wasted heat that accumulates near the ceiling is reused via circulation. When a pre-set temperature is reached the Air Conditioner switches from heating to circulator and blows air in the horizontal direction. It pushes down the warm air that has gathered near the ceiling to people's height, thereby providing smart heating.

Seasonal airflow*



*PAR-32MAA is required for each setting.

Direct/Indirect settings*

Some people do not like the feel of wind, some want to be warm from head to toe. People's likes and dislikes vary. With the 3D i-see Sensor, it is possible to choose to block or not block the wind for each vane.



*PAR-32MAA or PAR-SL100A-E is required for each setting.

Easy Installation

Electrical box wiring

After reviewing the power supply terminal position in the electrical box, the structure was redesigned to improve connectivity. This has made previously complex wiring work easier.

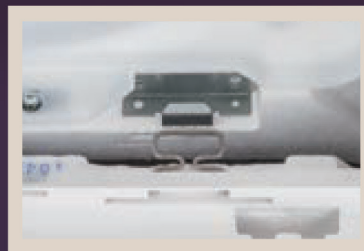
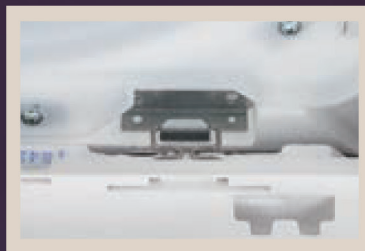
Increased space for plumbing work

The top and bottom positions of the liquid and gas pipes have been reversed to allow the gas pipe work, which requires more effort, to be completed first. Further, through structural innovations related to the space around the pipes, the area where the spanner can be moved has increased, thus improving liquid pipe work and enabling smooth completion.



Temporary hanging hook

The structure of the panel has been revised and is now equipped with a temporary hanging hook. This has improved work efficiency during panel installation.



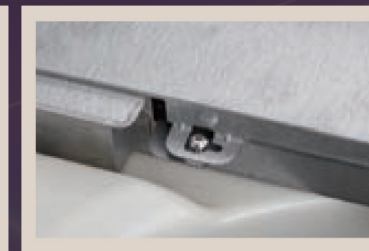
No need to remove screws

Installation is possible without removing the screws for the corner panel and the control box, simply by loosening them. This lowers the risk of losing screws.

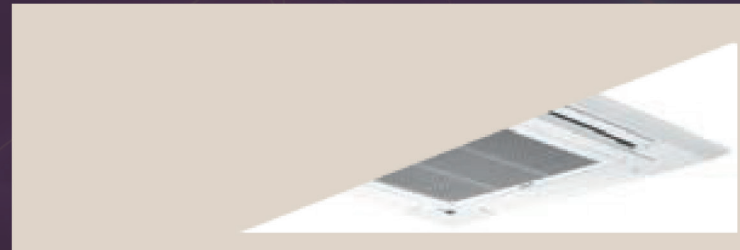
Corner panel



Control box cover



Lightweight decorative panel



R410A Heatpump Inverter Ceiling Cassette PLA Specifications

Models			PLA-RP50EA-DA	PLA-RP71EA-DA	PLA-RP100EA-DA	PLA-RP140EA-DA		
Cooling	Capacity (Min - Max)	kW	5.5(2.3-5.6)	7.1(2.8-8.1)	9.4(3.7-10.6)	13.6 (5.8-14.1)		
	Capacity	BTU/h	18,800	24,000	32,100	46,400		
	Total Input	kW	1.61	2.10	3.18	5.41		
	EER	W/W	3.41	3.38	2.95	2.51		
	ISEER	W/W	4.50	4.51	-	-		
Heating	Capacity (Min - Max)	kW	5.8(1.7-7.2)	8.0 (2.6-10.2)	11.2 (2.8-12.5)	15.0(4.9-15.8)		
	Capacity	BTU/h	19,800	27,300	38,200	51,200		
	Total Input	kW	1.69	2.24	3.26	4.67		
	COP	W/W	3.43	3.56	3.43	3.21		
Indoor Unit	Model name		PLA-RP50EA-DA	PLA-RP71EA-DA	PLA-RP100EA-DA	PLA-RP140EA-DA		
	Power supply		1ph 220-240V 50Hz					
	External finish		Munsell 1.0Y 9.2/0.2					
	Airflow (low-med2-med1-high)	CMM	14-16-17-18	16-17-19-21	19-23-26-29	24-26-29-32		
		CFM	495-565-600-635	565-600-670-740	670-810-920-1025	850-920-1025-1130		
	External static pressure		Pa					
	Operation control and thermostat		Remote control & Built-in					
	Noise level (low-med2-med1-high)		dB (A)		27-29-31-32	28-30-32-34	31-34-37-40	36-39-42-44
	Unit drain pipe (outer diameter)		mm					
	Dimensions (panel)	W	mm	840(950)				
		D	mm	840(950)				
		H	mm	258 (40)	298(40)			
	Weight (panel)		kg	19(5)	21(5)	24(5)	27(5)	
Model name		SUZ-KA50VA-DA	SUZ-KA71VA-DA	PUHZ-P100YKA	PUHZ-P140YKA			
Power supply		1ph 220-240V 50Hz			3ph 380-415V 50Hz			
External finish		Munsell 3.0Y 7.8/1.1						
Refrigerant (R410A) control		Linear Expansion Valve						
Airflow	CMM	44.6	50.1	79	86			
	CFM	1575	1770	2792	3039			
Noise Level		dB (A)	52	55	51	56		
Dimensions	W	mm	840					
	D	mm	330					
	H	mm	880					
Weight		kg	54	53	78	85		
Max. height difference		m	30	30	30	30		
Max. piping length		m	30					
Pipe size (outer diameter)		mm	Liquid:6.35/Gas:12.7		Liquid:9.52/Gas:15.88			
Chargeless piping length		m	7			30		
Cooling Guaranteed Operating Range	Upper limit (°CDB)	46						
	Lower limit (°CDB)	-15						
Heating Guaranteed Operating Range	Upper limit (°CDB)	24		21				
	Lower limit (°CDB)	-10		-15				

- Rating conditions Cooling - Indoor: 27°C (80°F)DB, 19°C (66°F)WB, Outdoor: 35°C (95°F)DB, Heating - Indoor: 20°C (68°F)DB, Outdoor: 7°C (45°F)DB, 6°C (43°F)WB
- Refrigerant piping length (one-way): 7.5m(25ft)

- Total input based on the indicated voltage (indoor/outdoor):
1ph 220-240V 50Hz, 3ph 380-415V 50Hz
- * Operation air protection guide is required where ambient temperature is lower than -5°C.

R410A Heatpump Inverter Ceiling Concealed SEZ / PEAD Specifications

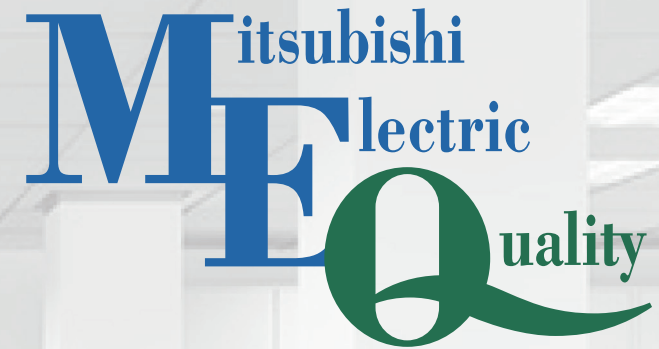
Models			SEZ-KD50VAL	PEAD-RP71JALQ	PEAD-RP100JALQ	PEAD-RP140JALQ	
Cooling	Capacity (Min - Max)	kW	5.1 (2.3-5.2)	7.1 (2.8-8.1)	9.4 (3.7-10.6)	13.6 (5.8-14.1)	
	Capacity	BTU/h	17,400	24,000	32,000	46,400	
	Total Input	kW	1.580	2.08	2.98	5.21	
	EER	W/W	3.22	3.41	3.15	2.61	
Heating	Capacity (Min - Max)	kW	6.4 (1.7-7.2)	8.0(2.6-10.2)	11.2(2.8-12.5)	15.0 (4.9 - 15.8)	
	Capacity	BTU/h	21,800	27,300	38,200	51,200	
	Total Input	kW	1.800	2.04	2.94	4.27	
	COP	W/W	3.55	3.92	3.80	3.51	
Indoor Unit	Model name		SEZ-KD50VAL	PEAD-RP71JALQ	PEAD-RP100JALQ-PA	PEAD-RP140JALQ-PA	
	Power supply		1ph 220-240V 50Hz		1ph 220V-240V 50Hz		
	External finish		Galvanized sheets		Galvanized steel plate		
	Airflow (low-mid-high)	CMM		10.0-12.5-15.0	17.5-21-25	24-29-34	32-39-46
		CFM		353-441-530	618-742-883	848-1024-1200	1130-1377-1624
	External static pressure	Pa		5 / 15 / 35 / 50	35/50/70/100/150	35/50/70/100/150	35/50/70/100/150
	Operation control and thermostat			Remote Control Built in		Built in	
	Noise level (low-med-high)	dB (A)		30-34-37	26-30-34	29-34-38	34-38-43
	Unit drain pipe (outer diameter)	mm		32	32	32	32
	Dimensions	W	mm	990	1100	1400	1600
		D	mm	700		732	
H		mm	200		250		
Weight (panel)	kg		22	29	38	43	
Outdoor Unit	Model name		SUZ-KA50VA-DA	SUZ-KA71VA-DA	PUHZ-P100YKA	PUHZ-P140YKA	
	Power supply		1ph 220-240V 50Hz	1ph 220-240V 50Hz	3ph 380-415V 50Hz		
	External finish				Munsell 3.0Y 7.8/1.1		
	Refrigerant (R410A) control				Linear Expansion Valve		
	Airflow	CMM		44.6	50.1	79	86
		CFM		1574	1770	2792	3039
	Noise level	dB (A)		52	55	51	56
	Dimensions	W	mm	840	840	1050	
		D	mm	330	330	330 (+40)	
		H	mm	880	880	981	
	Weight	kg		54	53	78	85
	Max. height difference	m			30		
	Max. piping length	m		30	30	50	50
Pipe size (outer diameter)	mm		Liquid:6.35/Gas:12.7		Liquid:9.52/Gas:15.88		
Chargeless piping length	m		7	7	30		
Cooling Guaranteed Operating Range	Upper limit (°CDB)		46		46		
	Lower limit (°CDB)		-15		-15		
Heating Guaranteed Operating Range	Upper limit (°CDB)		24	24		21	
	Lower limit (°CDB)		-10	-10		-15	

- Rating conditions Cooling - Indoor: 27°C(80°F)DB, 19°C(66°F)WB, Outdoor: 35°C(95°F)DB, Heating - Indoor: 20°C(68°F)DB, Outdoor: 7°C(45°F)DB, 6°C(43°F)WB
- Refrigerant piping length (one-way): 7.5m(25ft)

- Total input based on the indicated voltage (indoor/outdoor): 1ph 220-240V 50Hz, 3ph 380-415V 50Hz
- *Operation air protection guide is required where ambient temperature is lower than -5 °C.

The MEQ Difference

Simply meeting industry standards, however stringent, is not enough. Our aim is to exceed them. When it comes to comfort, efficiency and durability, Mitsubishi Electric offers you a distinctive advantage. We call it **MEQ-Mitsubishi Electric Quality**. It results in benchmark leading-edge products like our Air Conditioners, which consume minimal power, protect your investment through a long service life, offer superior reliability and are built to take the punishment of extreme weather conditions year in and year out.



Mitsubishi Electric Offers Three Important Advantages

COMFORT

Clean air, optimum temperature distribution and silent operations.

MEQ has led to the development of state-of-the-art air purification and deodorization filter that removes unwanted odors and impurities in the air, original airflow technologies and specially designed components provide even temperature distribution - even in remote regions of a room. At Mitsubishi Electric, comfort doesn't simply mean cool or warm, it means clean and quiet too.

EFFICIENCY

Optimum cost performance and energy savings.

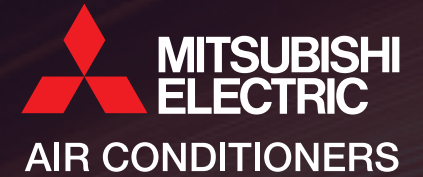
MEQ result in Air Conditioners that are rated among the best in the industry in terms of quality and energy efficiency. We strive for a perfect balance of performance, reliability, low power consumption and long service life. This is complemented by continuously introducing new technologies and components that further reduce energy requirements and mitigate the negative environmental impact.

DURABILITY

Rugged construction, rigorous testing, long-lasting operations.

MEQ is behind a mindset that goes to extremes to ensure higher quality products that protect the initial investment over years of reliable services. We subject our indoor and outdoor units to rigorous durability testing, including harsher temperature extremes than likely to be found anywhere in the world.

The Perfect Comfort Range



INVERTER RANGE



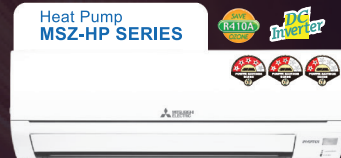
- Fast Cooling Mode
- Dual Barrier Coating
- LED Backlit Remote
- PM 2.5 Filter



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



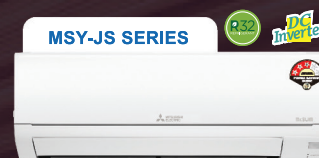
- Dual Barrier Coating
- IDU Anti-Corrosion Coating
- Blue fin (Anti-corrosion)
- Wide & Long Air Flow*



- Heating and Cooling
- Silver-ionized Air Filter (optional)
- IDU Anti-corrosion Coating
- Long Airflow



- High CFM
- Single Phase
- Auto Vane Control
- Long Airflow



- Fast Cooling Mode
- Dual Barrier Coating
- Long Airflow
- Auto Vane Control



- Powerful Cool
- Dual Barrier Coating
- IDU Anti-Corrosion Coating
- Long Airflow*

FIXED SPEED RANGE



- Econo Cool Smart Save
- Electronic Metal Housing Box
- Nano Platinum Filter
- Wide & Long Air Flow



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

*Available in specific models

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

MITSUBISHI ELECTRIC INDIA PVT. LTD.

HEAD OFFICE: 3rd Floor, Tower A, Global Gateway,
MG Road, Gurugram – 122002

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

Website: www.MitsubishiElectric.in

Email: customersupport@asia.meap.com

BRANCH/SALES OFFICES: **Ahmedabad:** 079-67777888;
Bhubaneswar: 09073949597; **Bengaluru:** 080-40201600;
Coimbatore: 0422-4385606; **Chandigarh:** 0172-4601645;
Chennai: 044-49232222; **Delhi:** 011-66057900;
Ghaziabad: 011-66057900; **Hyderabad:** 040-43438888;
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Mumbai: 022-66116200; **Nagpur:** 09921442323;
Pune: 09922441773; **Rajkot:** 09586605009; **Surat:** 261-4003111;
Vadodara: 0265-2314699; **Vijaywada:** 08498894567

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Varanasi: 09336311110; **Vizag:** 09205987308

Customer Care Toll Free No.: 1800 102 2626

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 / Printers) and incentive / exchange scheme for returning of e-waste on Company website (www.MitsubishiElectric.in) and / or Toll free number 1800 102 2626.



*Map for reference purpose only.

*Specifications subject to change without prior notice.