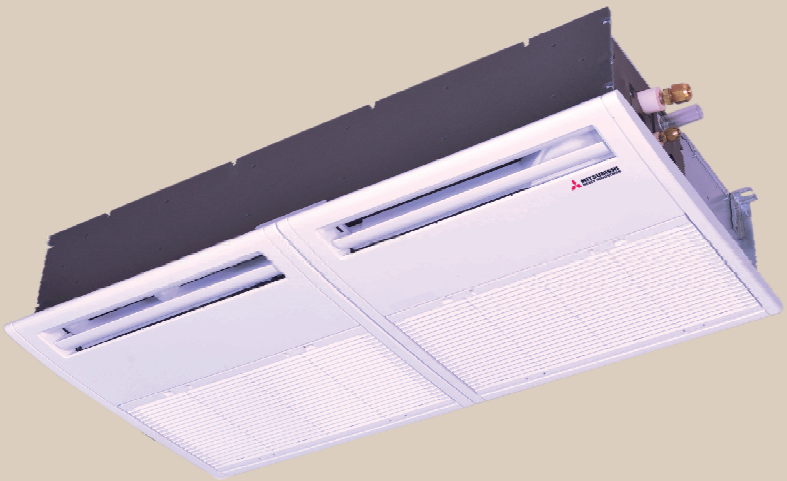
HYPER INVERTER

MITSUBISHI HEAVY INDUSTRIES
AIR CONDITIONERS
HEAVY DUTY

One Way

Cassette



Futuristic Design
Comfort
Control

Next Generation

High Performance Airconditioning

HEAVY DUTY
PROTECTIVE SHIELD

Country of Origin : Thailand

HYPER INVERTER

Next Generation

Futuristic
Design
Comfort
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Cassette

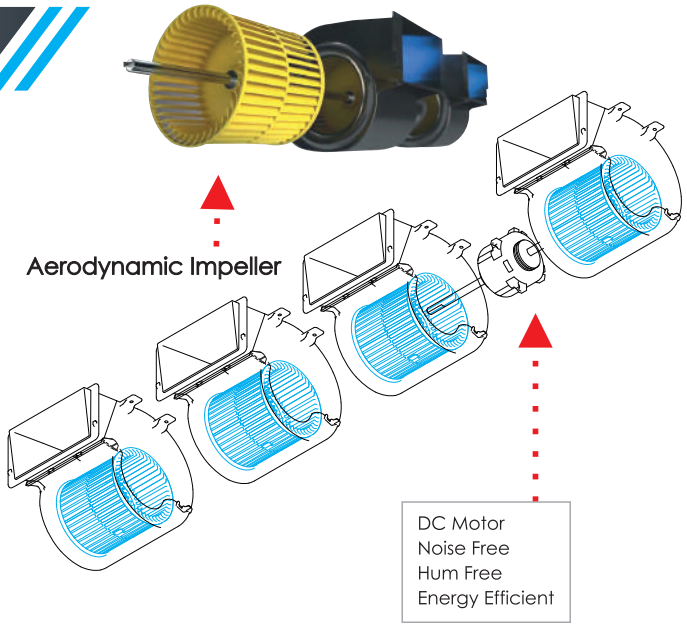
One Way Airconditioning

High Performance Airconditioning

High energy efficiency with latest technology

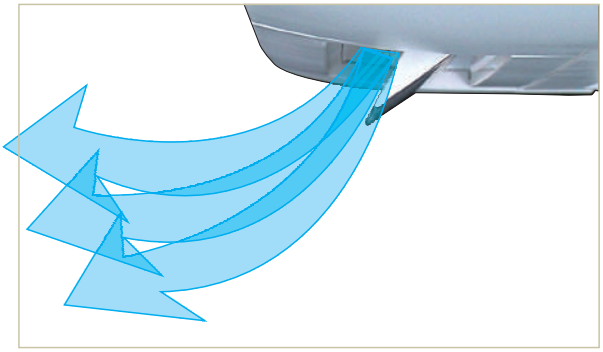
Aerodynamic Impeller Design

CFD (computational fluid dynamics), used in blade shape design of jet engines, has been applied to the design of air channels in the impeller of the air conditioners to develop the ideal air channels system for air movement. The air flow of the jets created in this system enables a large volume of air to be blown with minimum power consumption, yet the air flow is uniform, quiet and reaches points a long distance from the blower. With CFD used in the design of the impeller, produces an even laminar airflow to ensure the highest air flow & air throw at the lowest noise levels.



Aerodynamic Vane Design

Improved Technology for quieter Operation
Our new design aerodynamic vane blade & Super Turbo Fan Can achieve low noise by reducing the pressure fluctuation in the indoor unit.



Futuristic

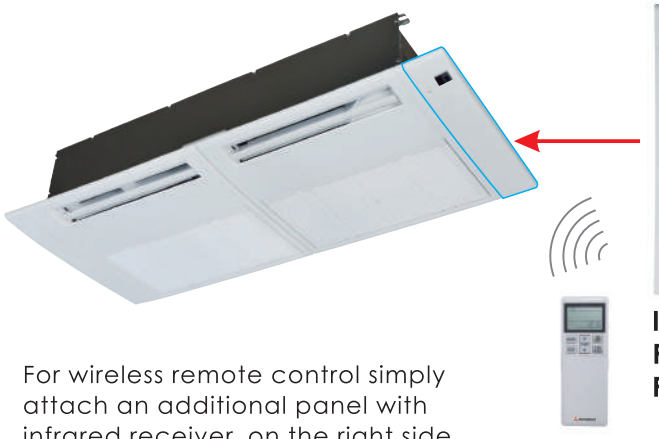
Control

Design

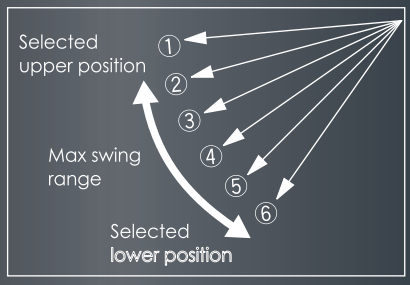
Individual flap control system

Two directions of air flow can be controlled individually by flap control system. The flap can swing within the range of upper and lower flap position selected with Wired remote control.

Wireless remote control



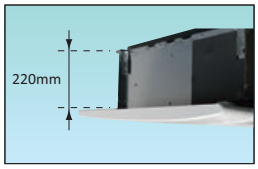
For wireless remote control simply attach an additional panel with infrared receiver on the right side of the main decorative panel.



*The wireless remote control is not applicable to the individual flap control system.

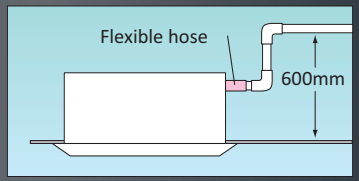
Compact design

Indoor unit size (W:1,150 x D:565) brings easy installation for 1,200 x 600 ceiling and Panel size (1,250 x 650) is suitable for 1,200 x 600 ceiling. Height is the industry's lowest height level 220mm and weight is 27/28kg only.



600mm Drain Pump

Drain can be discharged upward by 600mm from the ceiling surface close to the indoor unit.
It allows a piping layout with a high degree of freedom depending on the installation location.



Futuristic

Hi-POWER (POWERFUL COOLING)
Use the high power (powerful cooling) function to quickly reach the optimum temperature level when you first turn on the unit this function I will operate for a maximum of 15 minutes before returning to a normal operation

COMFORT

Automatic Operation
This function automatically selects the required cooling function based on the current room conditions.

AIRFLOW

Individual Flap Control System
Two directions of air flow can be controlled individually by flap control system. The flap can swing within the range of upper and lower flap position selected with Wired remote control.

Vertical Auto Swing
The vertical louvers on your unit will move up and down continuously during operation. This function allows you to set the up/down swing position of the louver to your preferred operation angle.

CONVENIENT

Air Filter
The air filter in the unit traps and removes airborne dust particles and other allergens to provide you with a clean air.

Function Switch
From the seven available functions on the unit, this function allows you to set two functions to operate automatically.

Fresh Air Intake Provision
This function provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.

SERVICE FUNCTION

Self Diagnostics
The internal microcomputer automatically runs a diagnostic of the system in the event of a malfunction. This enables your authorised dealer to isolate and repair any issues.

Built in Drain Pump
The built-in drain pump, allows greater flexibility with installation, offering a great solution for applications with limited space.

ECONOMY MODE

ENERGY SAVING MODE
Temperature is set to optimize to save energy without losing comfort.

SILENT OPERATION

This function allows you to program periods where the unit will operate with reduced noise levels, perfect for night time and an uninterrupted sleep.

Comfort

Automatic Fan Speed
The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.

Filter Clean Indicator
This warning alerts you as to when the filter needs to be cleaned.

Favorite setting
Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favourite setting.

TIMER

Sleep Timer
This function allows you to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate before switching off.

Improved Serviceability
The fan unit (comprised of impeller and motor) is easily accessible from either the side or bottom of the unit and can be slide out for easy maintenance.

DC PAM Inverter Twin Rotary Compressor

DC PAM Inverter Twin Rotary Compressor which performs high efficiency operation under the wide range capacity variance from low 10% to high 120% of its nominal capacities using DC PAM Technology . Besides low vibration & low sound level, high efficiency is achieved by the optimization of mechanical parts dimension and by the application of high power Neodymium motor.

Compressor Protection With AI

Indoor Units

When using RC-EX3A (Remote control), functions with symbol ● are available.
However, for RC-E5 (Remote control), functions ✱ with are not available.

Hi-Power	Hi-Power (Powerful Cooling)	Use the high power (powerful cooling) function to quickly reach the optimum temperature level when you first turn on the unit this function I will operate for a maximum of 15 minutes before returning to a normal operation	●
Economy	Economy Mode	**ENERGY SAVING MODE** Temperature is set to optimized to save energy without losing comfort.	●
Comfort	Automatic Operation	This function automatically selects the required cooling function based on the current room conditions.	●
Comfort	Motion sensor (optional)✱	This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.	● Optional
Air flow	Individual Flap Control	Two directions of air flow can be controlled individually by flap control system. The flap can swing within the range of upper and lower flap position selected with Wired remote control.	●
Air flow	Silent Operation	This function allows you to program periods where the unit will operate with reduced noise levels, perfect for night time and an uninterrupted sleep.	●
Air flow	Vertical Auto Swing	The vertical louvers on your unit will move up and down continuously during operation. This function allows you to set the up/down swing position of the louver to your preferred operation angle.	●
Air flow	Automatic Fan Speed	The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.	●
Timer	Sleep Timer	This function allows you to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate before switching off.	●
Timer	Weekly Timer	Set your unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.	●
Convenient	Function Switch ✱	From the seven available functions on the unit, this function allows you to set two functions to operate automatically.	●
Convenient	Favorite setting ✱	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.	●
Convenient	Select the language ✱	Set the language to be displayed on the remote control.	●
Convenient	Air Filter	The air filter in the unit traps and removes airborne dust particles and other allergens to provide you with a clean air.	●
Convenient	Filter Clean Indicator	This warning alerts you as to when the filter needs to be cleaned.	●
Convenient	Outside Air Intake	This function provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.	●
Others	Self Diagnostics	The internal microcomputer automatically runs a diagnostic of the system in the event of a malfunction. This enables your authorised dealer to isolate and repair any issues.	●
Others	Built in Drain Pump	The built-in drain pump, allows greater flexibility with installation, offering a great solution for applications with limited space.	●
Others	Improved Serviceability	The fan unit (comprised of impeller and motor) is easily accessible from either the side or bottom of the unit and can be slid out for easy maintenance.	

HEAVY DUTY PROTECTIVE SHIELD

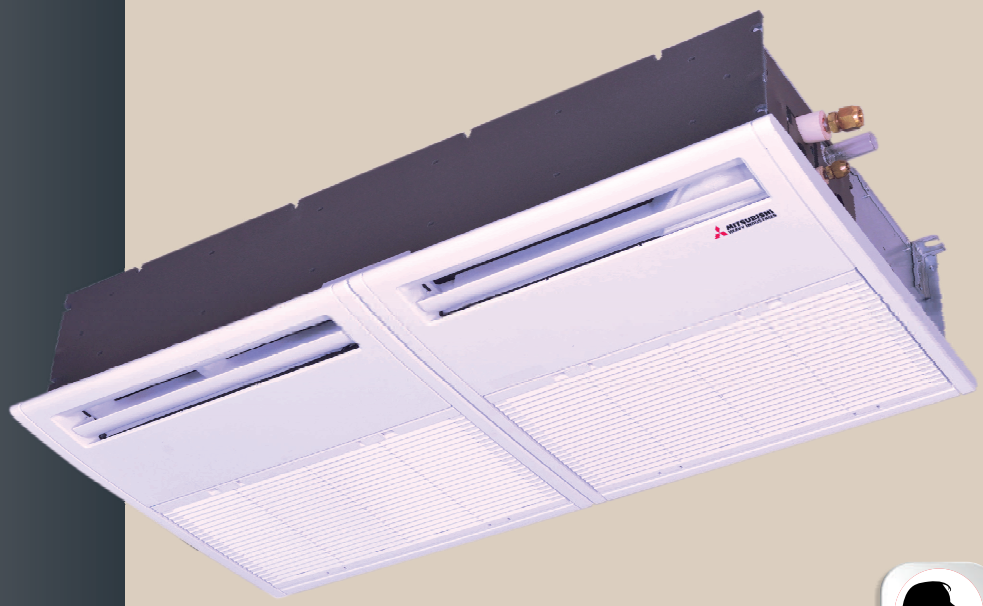
- FROST PREVENTION FOR HEAT EXCHANGER
- INDOOR FAN MOTOR PROTECTION
- ABNORMALITY OF OUTDOOR UNIT
- DRAIN WATER SPIL PROTECTION
- COMPRESSOR OVERHEAT PROTECTION
- SIGNAL TRANSMISSION ERROR PROTECTION
- SENSOR DISCONNECTION PROTECTION
- ROOM TEMPERATURE SENSOR
- INDOOR HEAT EXCHANGER TEMPERATURE SENSOR
- OUTDOOR HEAT EXCHANGER TEMPERATURE SENSOR
- DISCHARGE PIPE TEMPERATURE SENSOR
- OUTDOOR AIR TEMPERATURE SENSOR

HYPER INVERTER

Model No.
FDTS50GA-W6 (1.5 Ton)
FDTS71GA-W6 (2.0 Ton)

One Way Cassette

Futuristic Design
Comfort
Control



65%* Saving Electricity

Fuzzy

EEV

DC Pulse Amplitude Modulation PAM INVERTER

SILENT

ECONOMY COMFORT

- Energy Saving
- Automatic Operation
- Self Diagnostics
- Sleep Timer
- Filter Clean Indicator
- Outside Air Intake

AIRFLOW

- Hi-Power (Powerful Cooling)
- Automatic Fan
- Vertical Auto Swing
- Individual Flap Control (Wired Remote)

Wired (Optional)

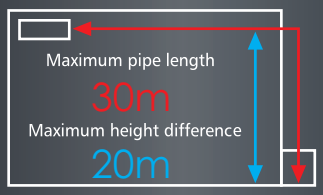
RC-E5

RCH-E3

RC-EX3A

REFRIGERANT PIPE LENGTH

FDTS50GA-W6 / FDTS71GA-W6



REMOTE CONTROL

Wireless (Standard)

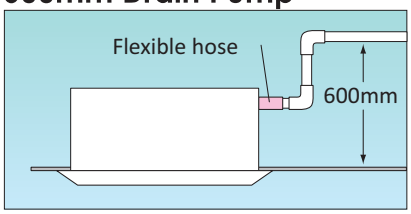
RCN-TS-E2

Infrared Receiver Panel

Control

RCN-TS-E2
Standard

600mm Drain Pump



SPECIFICATIONS

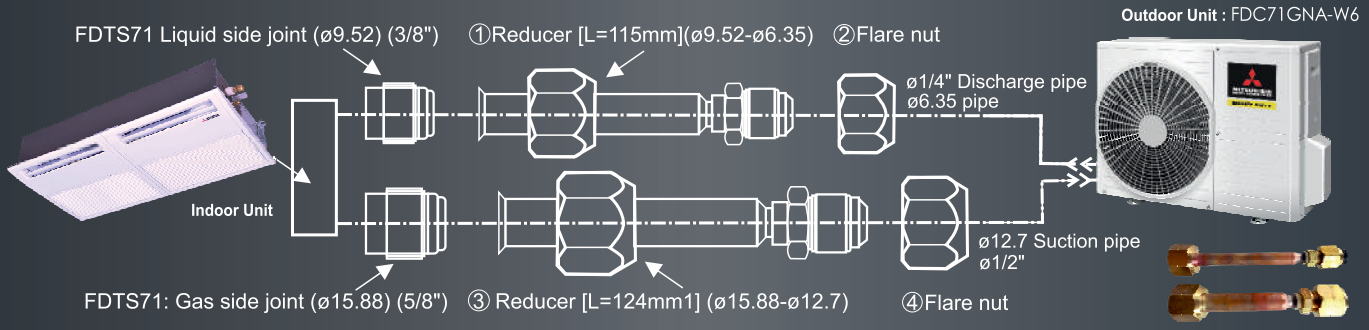
SPECIFICATIONS			ONE WAY CASSETTE - HYPER INVERTER (R32) COOLING + HEATING	
		Unit	FDTS50GA-W6	FDTS71GA-W6
MODEL		Indoor Unit	FDTS50GA-W6	FDTS71GA-W6
		Outdoor Unit	FDC50GNA-W6	FDC71GNA-W6
Tonnage		(Cooling/Heating)	1.5 (0.3 ~ 1.6) / 1.8	2.0 (0.4 ~ 2.1) / 2.1
BEE STAR RATING - 2022			4 Star	3 Star
Super Tropical Compressor Type			TWIN ROTARY	
VFD - Variable Frequency Drive			Inverter Vector Control Technology for Higher Efficiency	
Minimum Compressor RPM			7 ~ 15 RPM - Using Vector Control Technology	
Refrigerant Volume Control Using			Motorized Electronic Expansion Valve for Variable Refrigerant Flow	
LCD Remote Control (iPM Controller)			iPM (Intelligent Power Module)	
Power Source			1 Phase, 220 / 230 V, 50 Hz	
Maximum Cooling Capacity**		BTU/hr	19107	24908
Rated Cooling Capacity (100% Load)		BTU/hr	17060	24225
Rated Cooling Capacity (50% Load)		BTU/hr	8530	12113
Maximum Cooling Capacity**		Watts	5600	7300
Rated Cooling Capacity (100% Load)		Watts	5000	7100
Rated Cooling Capacity (50% Load)		Watts	2500	3550
Rated Power Consumption (100% Full Load)		watts	1380	2370
Rated Power Consumption (50% Half Load)		watts	461	714
Rated EER (100% Load)		W/w	3.6	3.0
Rated EER (50% Load)		W/w	5.4	5.0
Rated Indian Seasonal Energy Efficiency Ratio		ISEER	4.83	4.22
Current (100% Load Capacity)		A	0.70 ~ 6.1	1.1 ~ 10.4
Maximum Heating Capacity **		BTU/hr	21496	24908
Minimum Heating Capacity		BTU/hr	2047	3753
Rated Heating Capacity		BTU/hr	18425	24225
Maximum Heating Capacity **		Watts	6300	7300
Minimum Heating Capacity		Watts	600	1100
Rated Heating Capacity		Watts	5400	7100
Maximum Power Consumption		watts	1580	2300
Minimum Power Consumption		watts	200	300
Rated Power Consumption		watts	1380	1930
EER at Maximum HeatingCapacity		W/w	3.99	3.17
EER at Minimum Heating Capacity		W/w	3.00	3.67
EER at Rated Heating Capacity		W/w	3.91	3.68
Current (Heating mode)		A	0.85 ~ 6.1	1.2 ~ 8.5
Dimension (H x W x D)	Indoor Unit	mm	Unit : 220 x 1150 x 565 Panel : 35 x 1250 x 650	Unit : 220 x 1150 x 565 Panel : 35 x 1250 x 650
	Outdoor Unit	mm	640 x 800(+71) x 290	640 x 800(+71) x 290
Weight	Indoor Unit	Kgs	Unit : 27kgs + Panel : 5kgs	Unit : 28kgs + Panel : 5kgs
	Outdoor Unit	Kgs	45	45
Cooling Coil Row	Indoor Unit	No.s	2	3
Air Flow	Indoor Unit	CMH	1050	1225
Long Reach Airflow Upto	Indoor Unit	meter	5	6
Self Diagnosis Function	Indoor Unit		Yes	Yes
Sound Level (H/M/L/ULo)	Indoor Unit	dB	44 / 40 / 38 / 34 (U-low)	49 / 44 / 39 / 34 (U - low)
HorizontalLouver Swing	Indoor Unit		Yes	Yes
Filter	Indoor Unit		Anti Bacterial - Filters	
Fresh Air Intake Possible	Indoor Unit		Yes	
Centrifugal Fans	Indoor Unit		Centrifugal Fan x 4 no.s	
DC Fan Motor Speed	Indoor Unit		Auto / Powerful / High / Medium / Low / Dry	
Refrigerant			R32	R32
Refrigerant Piping * Thickness: 18Gauge (1mm)	Liquid Line	mm	6.35 (1/4")	I/U : 9.52 (3/8") O/U :6.35 (1/4")
	Gas Line	mm	12.7 (1/2")	I/U :15.88 (5/8") O/U :12.7 (1/2")
Main Power Supply to	Outdoor Unit		2.5 mm2 x 3 cores (with Earthing Cable)	
Connecting wiring	B/w IOU & ODU		2.5 mm2 x 4 cores (with Earthing Cable)	
Operating Temperature Range	Heating	°C	-15°C ~ 24°C	
Area Coverage***		Sq.meter	13.94 ~ 18.58	18.58 ~ 25.54

*

Reducer set (① , ②, ③ , ④) Is included In the Outdoor unit as accessory for Model : FDTS71GA-W6

Usage of Reducer set

Reducer set is not used in FDTS50GA-W6



** Under Standard Installation & Lab Test Condition *** Check for design condition and corresponding parameters like roof / window exposed to direction sunlight, of the area to be Air- conditioned.
Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without any prior notice

CUSTOMER CARE TOLL FREE No.
1800 102 0055

Our Motto
"Customer Satisfaction Index No.-1"

MITSUBISHI HEAVY INDUSTRIES
AIR CONDITIONERS
HEAVY DUTY

Towards A Better Future Together

PRECAUTIONS

Always get the Mitsubishi Heavy Ind. Airconditoners installed by Authorized Mitsubishi Heavy Ind. Sales & Service Channel Partners only. Do not try to install the AC either by yourself or any unauthorized dealer. Improper installation can result into non performance, low cooling, refrigerant leakage, electrical shocks.
Warranty of the product shall be null & void, if not installed by an authorized Mitsubishi Heavy Ind. Sales & Service Channel Partner. In no case it will be company's responsibility if the AC unit is installed by an unauthorized dealer, is unable to perform.
Warranty of the AC unit component shall be null & void if non specified/non genuine spares are used or repaired by an unauthorized dealer.
Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without notice. In case of any adverse area to be conditioned, if it is not verified by the company/dealer engineer and selection of the AC unit is made by the customer based on the specifications without taking any prior advice, then company will not be responsible for any variance in the performance of the AC unit installed.

Mitsubishi Heavy Industries- Mahajak Air Conditioners Co.Ltd. Lat krabang Industries Estate, Phase 3, 200 Moo 4, Chalongkrung Road, Lamplatiew, Lat krabang, Bangkok Thailand 10520

Sales, Service & Marketing Headquarter (India)

IAPL GROUP

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Near Patel Nagar Metro Station- New Delhi- 110008 (INDIA)
Tel.: 011-47230000-99, Toll Free No.: 1800 102 0055
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AGRA : 7290094935/8006003003, AHMEDABAD : 9978991675, SURAT : 9979025320, ASSAM : 8420768025, BANGALORE : 9849102323, BIHAR : 8588864471, BHOPAL : 9630098716, BHUBANESWAR : 8697706531, CHENNAI : 8939991872, COCHIN : 9946446067, COIMBATORE : 9811889006, DEHRADUN : 8826899163, DELHI & NCR : 8826392381, DELHI : 8826392374, GHAZIABAD : 8826899163, GWALIOR : 9630098716, HARYANA : 7290094933 / 8929602345, HYDRABAD : 9849102323, INDORE : 9630033341, J & K : 9915009212 / 9599656801, JABALPUR : 9630098716, JAIPUR : 8588830502, JHARKHAND : 6290824780, JODHPUR : 9636992277, KOLKATA : 8697744670, LUCKNOW : 8929602483, LUDHIANA : 8283843670 / 9599656893, MUMBAI : 8879599905, MEGHALAYA: 8420768025, NAGPUR : 9657004567, NASIK : 7291972089, NOIDA : 8826899163, PATNA : 8588864471, PUNE : 7291972089, PUNJAB : 9915009212 / 9599656801, RAIPUR : 9821197915, RAJKOT : 9727731456, SURAT : 9978996351, THRISSUR : 9946446067, TRICHY : 9811889006, TRIPURA : 8420768025, UDAIPUR : 9636992211 ,VADODARA : 9978991675, VIJAYAWADA : 9550488000.

MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.
(Wholly-owned subsidiary of MITSUBISHI HEAVY INDUSTRIES, LTD.)

JAPAN

Our factories are ISO9001 and ISO14001 certified.

Certified ISO 9001 — BIWAJIMA PLANT, Mitsubishi Heavy Industries, Ltd. Air-conditioning & Refrigeration Systems Headquarters, Certificate number : JQA-0709

Certified ISO 14001 — BIWAJIMA PLANT, Mitsubishi Heavy Industries, Ltd. Air-conditioning & Refrigeration Systems Headquarters, Certificate number : JQA-EM0256

TÜV CERT ISO 9001 Certificate:04100 1998 0813 — MITSUBISHI HEAVY INDUSTRIES-MAHAJAK AIR CONDITIONERS CO., LTD. Certificate Number : 04100 1998 0813

TÜV CERT ISO 14001 Certificate 04100 1998 0813 ES — MITSUBISHI HEAVY INDUSTRIES-MAHAJAK AIR CONDITIONERS CO.,LTD. Certificate Number : 04104 1998 0813 ES

EUROVENT CERTIFIED PERFORMANCE

CE