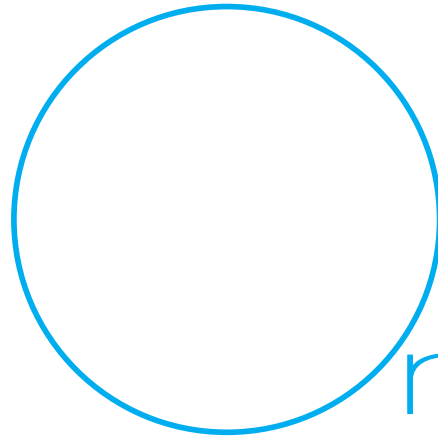
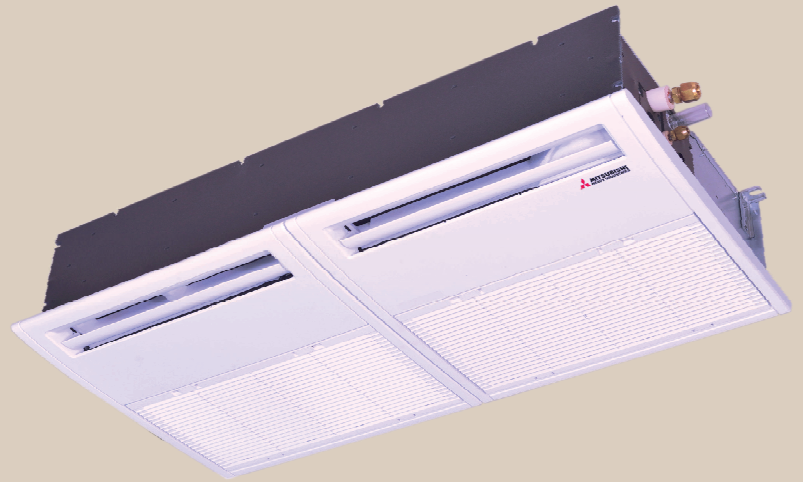


HYPER INVERTER



One Way

Cassette



Futuristic
Design
Comfort
Control

Next Generation

High Performance Airconditioning



Country of Origin : Thailand



HYPER INVERTER

Next Generation

Futuristic Design
Comfort
Control

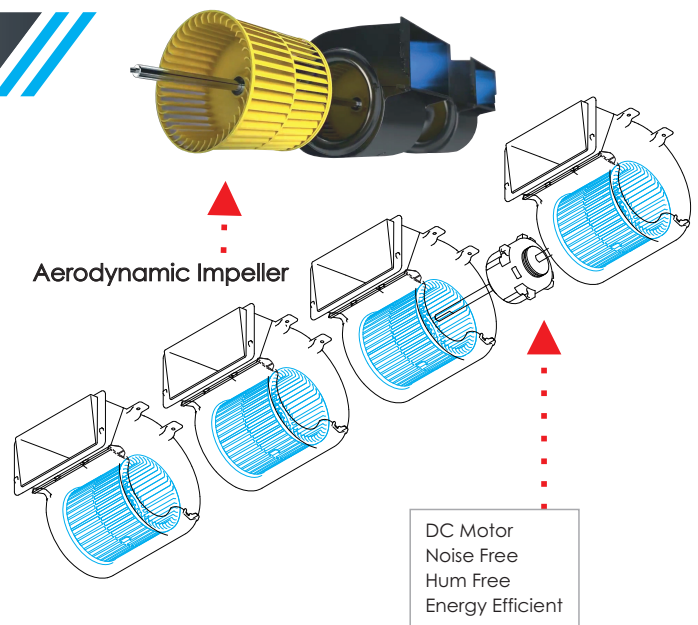
Cassette



High Performance Airconditioning
High energy efficiency with latest technology

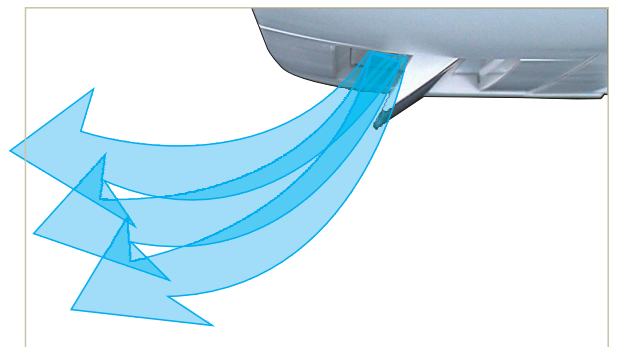
Aerodynamic Impeller Design

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.



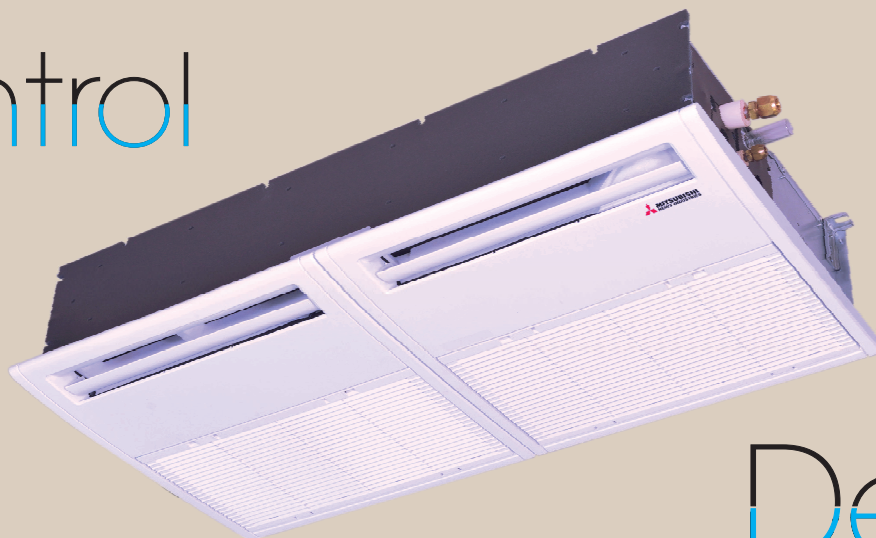
Aerodynamic Vane Design

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



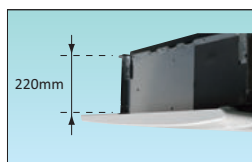
For wireless remote control simply attach an additional panel with infrared receiver on the right side of the main decorative panel.

RCN-TS-E2

**Infrared
Receiver
Panel**

Compact design

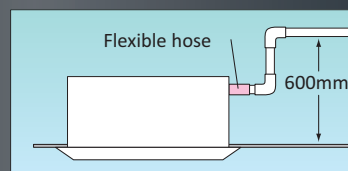
Indoor unit size (W:1,150 x D:565) brings easy installation for 1,200 x 600 ceiling and Panel size (1,250 x 650) is suitable for 1,200 x 600 ceiling. Height is the industry's lowest height level 220mm and weight is 27/28kg only.



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

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 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.



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 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.	
	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.	
	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.	
	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.	
	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.	
	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.	
	Favorite setting * 	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.	
	Select the language * 	Set the language to be displayed on the remote control.	
	Air Filter 	The air filter in the unit traps and removes airborne dust particles and other allergens to provide you with a clean air.	
	Filter Clean Indicator 	This warning alerts you as to when the filter needs to be cleaned.	
	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.	
	Built in Drain Pump 	The built-in drain pump, allows greater flexibility with installation, offering a great solution for applications with limited space.	
	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.	

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.

FDT50GA-W6 (1.5 Ton)

FDT571GA-W6 (2.0 Ton)



Wired (Optional)



RC-E5



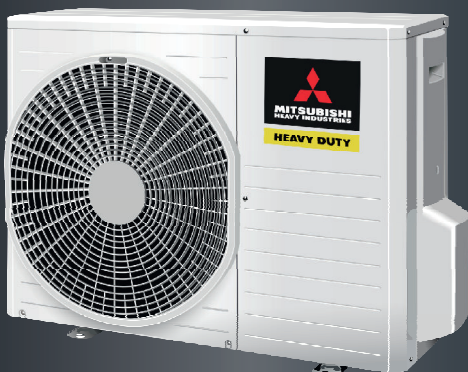
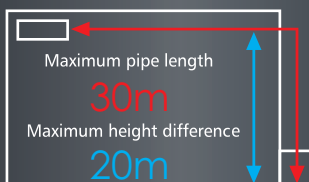
RCH-E3



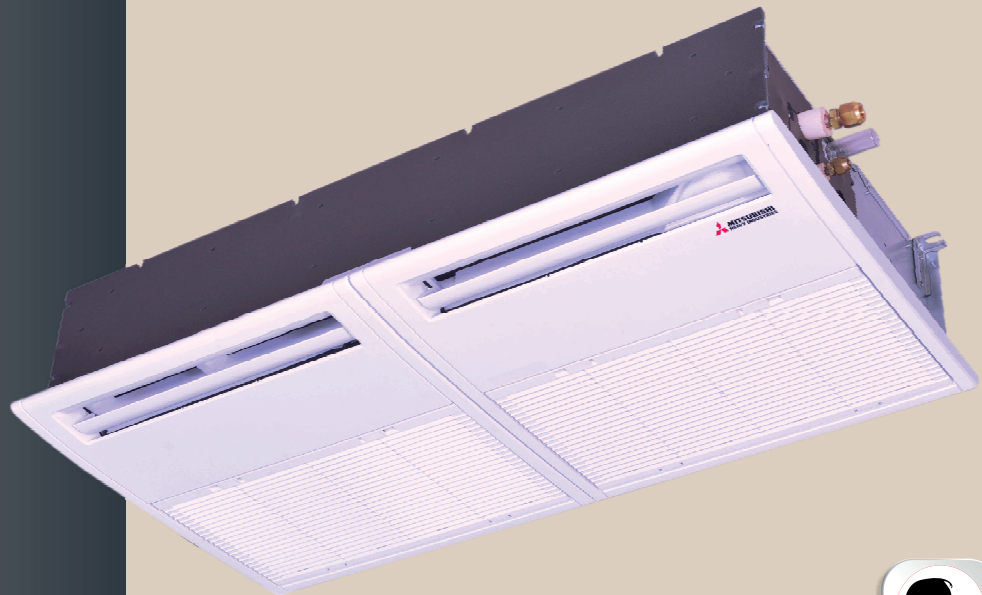
RC-EX3A

REFRIGERANT PIPE LENGTH

FDT50GA-W6 / FDT571GA-W6



One Way Cassette



ECONOMY



Energy Saving



Self Diagnostics

COMFORT



Automatic Operation



Sleep Timer



Filter Clean Indicator

AIRFLOW



Hi-Power
(Powerful Cooling)



Automatic Fan



Vertical Auto Swing

Individual Flap Control
(Wired Remote)

REMOTE CONTROL

Wireless (Standard)

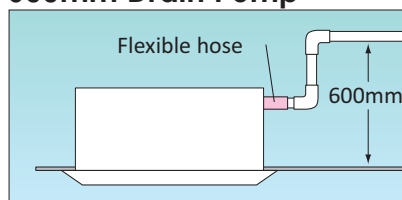


RCN-TS-E2

Infrared
Receiver
Panel



600mm Drain Pump



Control

RCN-TS-E2
Standard



SPECIFICATIONS

SPECIFICATIONS			ONE WAY CASSETTE - HYPER INVERTER (R32) COOLING + HEATING	
	Unit		FDT50GA-W6	FDT571GA-W6
MODEL	Indoor Unit		FDT50GA-W6	FDT571GA-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 - 2020 & 2021			5 Star	4 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)			17060	24225
Rated Cooling Capacity (50% Load)			8530	12113
Maximum Cooling Capacity**	Watts		5600	7300
Rated Cooling Capacity (100% Load)			5000	7100
Rated Cooling Capacity (50% Load)			2500	3550
Rated Power Consumption (100% Full Load)	watts		1380	2370
Rated Power Consumption (50% Half Load)			461	714
Rated EER (100% Load)			3.6	3.0
Rated EER (50% Load)	W/w		5.4	5.0
Rated Indian Seasonal Energy Efficiency Ratio			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			2047	3753
Rated Heating Capacity			18425	24225
Maximum Heating Capacity **	Watts		6300	7300
Minimum Heating Capacity			600	1100
Rated Heating Capacity			5400	7100
Maximum Power Consumption	watts		1580	2300
Minimum Power Consumption			200	300
Rated Power Consumption			1380	1930
EER at Maximum Heating Capacity	W/w		3.99	3.17
EER at Minimum Heating Capacity			3.00	3.67
EER at Rated Heating Capacity			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/U/L0)	Indoor Unit	dB	44 / 40 / 38 / 34 (U-low)	49 / 44 / 39 / 34 (U - low)
Horizontal Louver 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 *	Liquid Line	mm	6.35 (1/4")	I/U : 9.52 (3/8") O/U : 6.35 (1/4")
Thickness: 18Gauge (1mm)	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

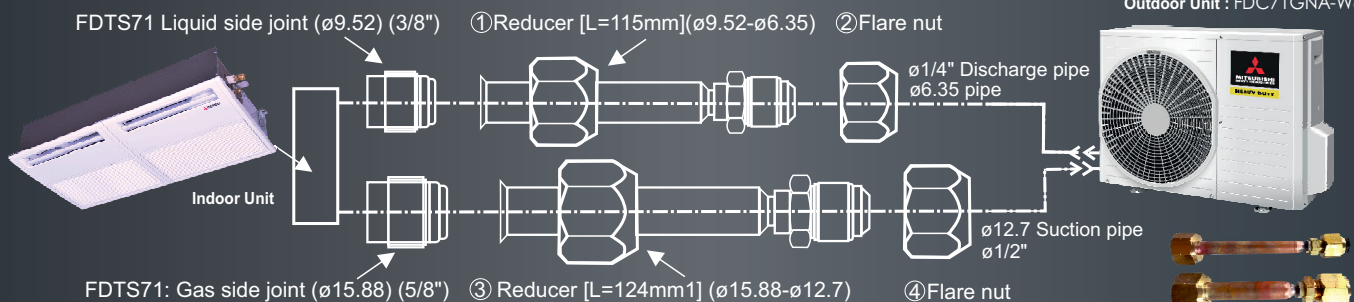
*

Reducer set (①, ②, ③, ④) Is included In the Outdoor unit as accessory for Model : FDT571GA-W6

Usage of Reducer set

Reducer set is not used in FDT50GA-W6

Outdoor Unit : FDC71GNA-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



Our Motto
"Customer Satisfaction Index No.-1"



Towards A Better Future Together

PRECAUTIONS

Always get the Mitsubishi Heavy Ind. Airconditioners 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, Chalalongkrung Road, Lamplatiw, Lat krabang, Bangkok Thailand 10520

Sales, Service & Marketing Headquarter (India)



IAPL GROUP

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Email: info@iaplgroup.com, Website: www.iaplgroup.com

AGRA : 7290094935/8006003003, **AHMEDABAD :** 9978991675, **ANAND :** 7290011957, **BANGALORE :** 9849102323, **BIHAR :** 8588864471, **BHOPAL :** 9630098716, **BHUBANESWAR :** 8697706531, **CHENNAI :** 8939991872, **COCHIN :** 9946446067, **COIMBATORE :** 9645134000, **DEHRADUN :** 8826899163, **DELHI & NCR :** 8826392381, **DELHI :** 8826392374, **GHAZIABAD :** 8826899163, **GWALIOR :** 9630098716, **HARYANA :** 7290094933 / 8929602345, **HYDRABAD :** 9885651712, **INDORE :** 9630033341, **J & K :** 9915009212 / 9599656801, **JABALPUR :** 9630098716, **JAIPUR :** 8588830502, **KOLKATA :** 8697744670, **LUCKNOW :** 8929602483, **LUDHIANA :** 8283843670 / 9599656893, **MUMBAI :** 8879599905, **NAGPUR :** 9657004567, **NASIK :** 7291972089, **NOIDA :** 8826899163, **PATNA :** 8588864471, **PUNE :** 7291972089, **PUNJAB :** 9915009212 / 9599656801, **RAIPUR :** 9821197915, **RAJKOT :** 9727731456, **SURAT :** 9978996351, **THRISSUR :** 9946446067, **TRICHY :** 8929602485, **VADODARA :** 9978991675, **VIJAYAWADA :** 9550488000



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THERMAL SYSTEMS, LTD.**

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Our factories are ISO9001 and ISO14001 certified.

Certified ISO 9001



Certified ISO 14001



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