



**MITSUBISHI  
HEAVY INDUSTRIES**

**AIR CONDITIONERS**

**HEAVY DUTY**

**HYBRID**  
AIRCONDITIONERS

**HYPER**  
INVERTER

# FDE

## CEILING SUSPENDED



Next  
Generation  
High  
Performance  
Airconditioning

MADE IN THAILAND

# HYBRID

AIRCONDITIONERS  
NON - INVERTER

CEILING  
SUSPENDED

# FDE



## Models:

FDE71CNVX-S6,  
FDE125-CSV-S6

## REMOTE CONTROL

Wireless (Standard)



Wired (optional)



RC-EX3A



RC-E5



RCH-E3

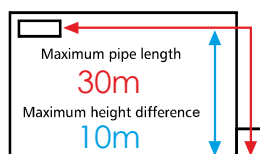
# Specifications



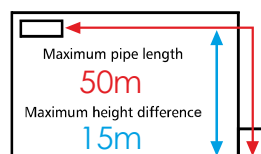
SPECIFICATIONS			HYBRID - CEILING SUSPENDED - AC - R410A	
Unit			FDE71CNVX-S6	FDE125CSV-S6
Model	Indoor Unit		FDE71CNVX-S6	FDE125CSV-S6
	Outdoor Unit		FDC71CNVX-S6	FDC125CSV-S6
Super Tropical - Return cooled Compressor			Rotary	Scroll
Type of AC			Hybrid AC - Non Inverter	
Refrigerant Expansion Device - Ref. Flow control			Capillary Tube	Capillary Tube + EEV (Electronic Expansion Valve)
Power Source			1 Phase, 220 - 240 V, 50 Hz	3 Phase, 380 - 415 V, 50 Hz
Nominal Cooling Capacity **		Ton	2.0	3.55
		Watts	7100	12500
		BTU/h	24225	42650
Input Power		watts	1910	4160
Rated EER / COP		W/w	3.16	3.00
Air flow	Indoor Unit	CMH	1380	2100
Sound Pressure Level (H/M/L)	Indoor Unit	dB(A)	48 / 42 / 35	47 / 43 / 34
Flap Control System	Indoor Unit		Yes ( Up - Down )	
Remote Control	Indoor Unit		Standard - Wireless Remote Controller Included / Wired Controller Optional	
Self Diagnosis Function	Indoor Unit		Yes	
Filter	Indoor Unit		Anti-Bacterial Filter	
Fan	Indoor Unit		Centrifugal Fan x 4no.s	
DC Fan Motor Speed	Indoor Unit		Hi / Med / Low	
Dimension (H x W x D)	Indoor Unit	mm	210 x 1320 x 690	250 x 1620 x 690
	Outdoor Unit		750 x 880 (+88) x 340	845 x 790 x 370
Weight	Indoor Unit	Kgs	32	42
	Outdoor Unit	Kgs	58	85
Refrigerant			R410A	
Refrigerant Piping	Liquid/ Gas	mm	6.35 ( 1/4" ) / 15.88 ( 5/8" )	9.52 (3/8" ) / 15.88 (5/8")
Precharged Refrigerant		Kgs	1.5 Kgs (Upto 15mtrs.)	2.15 Kgs (Upto 30mtrs.)
Charging requirement per mtrs		grams	25 grams ( Above 15mtrs upto 30mtrs	50 grams ( Above 30mtrs upto 50 mtrs )
Maximum Piping Length		Mtrs	30	50
Vertical Height Difference		Mtrs	10	30m if ODU above & 15m if ODU below
Main Power Supply to	Outdoor Unit		2.5 mm <sup>2</sup> x 3 cores (including earthing)	4 mm <sup>2</sup> x 5 cores (including earthing)
Connecting wiring	B/w IDU & ODU		2.5 mm x 4 cores ( including earthing )	
Area Coverage ***		Sq.Meter	18.58 - 23.23	27.88 - 41.82

## REFRIGERANT PIPE LENGTH

FDC71CNVX-S6



FDC125CSV-S6



\*\* Under Standard Installation & Lab Test Condition

\*\*\* Customers need to seek guidance from the Authorized Dealer / Expert for the AC unit capacity selection before ordering any AC unit. Area coverage is subject to checking of the site conditions like - Terrace / Wall / Glass windows exposed to direct sunlight, of the area to be Air- conditioned & room temperature requirement & outdoor temperature conditions. Company will not be responsible if there will be cooling issues due to improper selection of capacity of the AC units.

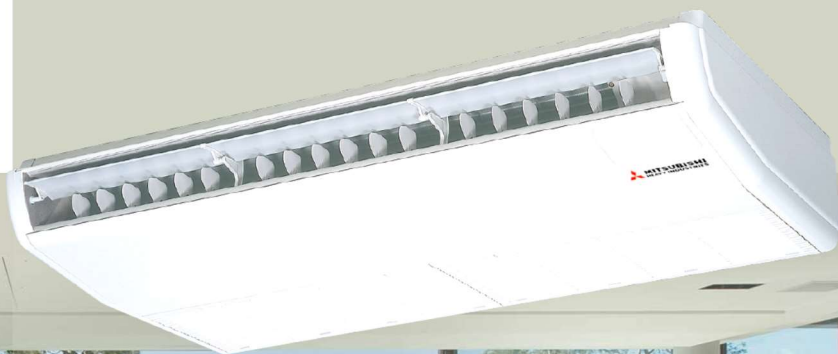


# **HYPER** INVERTER

Cooling Only

CEILING  
SUSPENDED

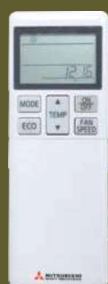
# FDE



## **Models:**

FDE100YA-W6

## REMOTE CONTROL



Wireless - Standard



RCN-E-E3

Remote control (optional)

Wired



RC-EX3A



RC-E5



RCH-E3

# Specifications



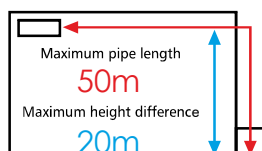
SPECIFICATIONS			HYPER INVERTER - CEILING SUSPENDED AC - R32
Model			FDE100YA-W6
Unit	Indoor Unit		FDE100YA-W6
	Outdoor Unit		FDC100YNA-W6
Ton - Cooling Only	(minimum ~ maximum)		3.0 ( 0.56Ton ~ 3.26Ton )
Super Tropical Compressor Type			Twin Rotary
VFD - Variable Frequency Drive			Inverter Vector Control Technology for smooth waveform & Higher Efficiency
Minimum Compressor RPM			15 ~ 30 RPM - Using iPM (INTELLIGENT POWER MODULE )
Refrigerant Volume Control Using			Motorized Electronic Expansion Valve for Variable Refrigerant Flow
Temperature Control			Microcomputer Thermostat
Power Source			1 Phase, 220 / 230 / 240 V, 50 Hz
Maximum Cooling Capacity ** ( 120% Load )	BTU/hr		39238
Nominal Cooling Capacity ( 100% Load )			35826
Maximum Cooling Capacity ** ( 120% Load )	Watts		11500
Nominal Cooling Capacity ( 100% Load )			10500
Power Consumption ( 100% Full Load )	watts		2900
EER ( 100% Load )	W/w		3.6
Current	A		13.2
Input Power **	watts		2900
Air flow ( P - Hi )	Indoor Unit	CMH	1920 ( P - Hi )
Sound Level (H/M/L)	Indoor Unit	dB(A)	48 / 43 / 38 / 34
Flap Control System	Indoor Unit		Yes ( Up & Down )
Remote Control	Indoor Unit		Standard - Wireless Remote Controller Included / Wired Controller Optional
Self Diagnosis Function	Indoor Unit		Yes
Filter	Indoor Unit		Anti- Bacterial
Fan	Indoor Unit		Centrifugal Fan x 4no.s
DC Fan Motor Speed	Indoor Unit		Powerful - Hi / Hi / Med / Low
Dimension (H x W x D)	Indoor Unit	mm	250 x 1620 x 690
	Outdoor Unit	mm	750 x 880 (+88) x 340
Weight	Indoor Unit	Kgs	43
	Outdoor Unit	Kgs	51
Refrigerant			R32
Refrigerant Piping	Liquid	mm / inch	IDU Side: 9.52 (3/8") / Reducer - Pipe : 6.35 (1/4") / ODU Side: 6.35 (1/4")
	Gas	mm / inch	IDU Side: 15.88 (5/8") / ODU Side: 15.88 (5/8")
Precharged Refrigerant		Kgs	1.55 Kgs (for piping length upto 15mtrs)
Charging requirement per mtrs		grams	25 grams ( Above 15mtrs upto 30 mtrs ) - Check with Service Engg.
Maximum Piping Length		Mtrs	50 mtrs / 165 feet
Vertical Height Difference		Mtrs	Outdoor- Higher = 20 mtrs / Lower = 20 mtrs
Main Power Supply to	Outdoor Unit		6.0 mm <sup>2</sup> x 3 cores ( including earthing )
Connecting wiring	B/w IDU & ODU		2.5 mm <sup>2</sup> x 4 cores ( including earthing )
Area Coverage ***		Sq.Meter	25.54 ~ 32.51

P-Hi = Powerful Cooling Mode -Hi-Power Button on Remote Controller

## REFRIGERANT PIPE LENGTH



FDC 100YNA-W6

































































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# Indoor units

## BENEFITS SUMMARY

		FDE INVERTER	FDE NON - INVERTER
<b>Energy-Saving</b> 	 <b>Inverter Technology</b> Inverter control technology delivers high efficiency and a smooth operation from high speed to low speed. A smooth sine voltage wave is attained.		
	 <b>Energy-Saving Operation *</b> Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.		
	 <b>Motion Sensor *</b> This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.	 Optional	
	 <b>Home Leave Operation</b> This function ensures that when the room is unoccupied for long periods of time, the unit will maintain a moderate indoor temperature, avoiding extremely hot or cool temperatures.		
	 <b>Set Temperature Auto Return *</b> This function allows the user to program a preferred set temperature that the unit will return to each time it is operated.		
<b>Comfort</b> 	 <b>Automatic Operation</b> This function automatically selects the required heating or cooling function based on the current room conditions.		
	 <b>Silent Operation</b> This function allows the user to program periods where the unit will operate with reduced noise levels, perfect for night time and an uninterrupted sleep.		
	 <b>Hi Power Operation</b> Use the high power function to quickly reach your optimum temperature level when you first turn on the unit. This function will operate for a maximum of 15 minutes before returning to normal operation.		
<b>Air Flow</b> 	 <b>Flap Control System</b> This function allows the user to set the upper and lower limit positions of the flap at each air outlet individually, providing you with complete control over interior air flow.		
	 <b>Vertical Auto Swing</b> 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 the preferred operation angle.		
	 <b>Draft Prevention Setting *</b> Draft Prevention setting provides a comfortable air flow without any draft feeling. Whether cooling or heating a room, the remote control can be used to instantly suppress any warm or cool drafts. This accurately assists how air flow is directed out of the indoor unit.		
	 <b>Automatic Fan Speed</b> The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.		

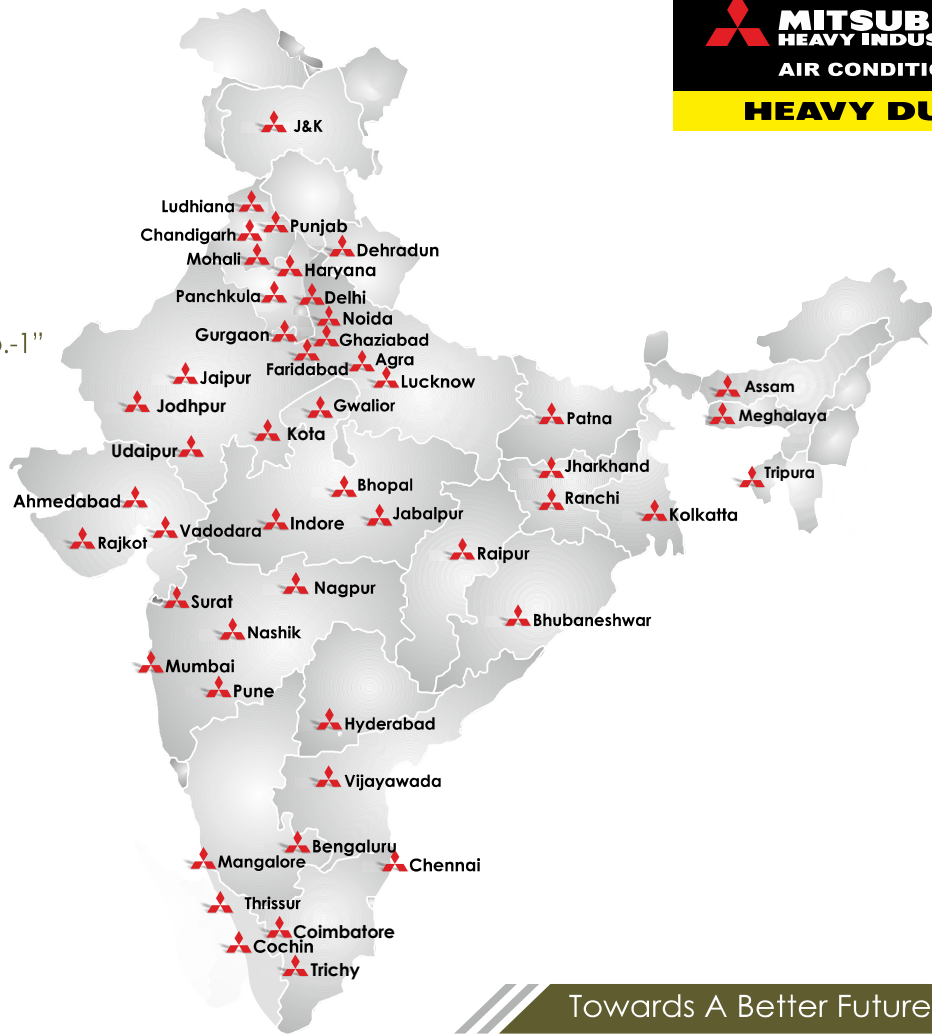
<b>Timer</b> 	 <b>Sleep Timer</b> This function allows the user to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate for before switching off.			
	 <b>Peak-Cut Timer *</b> This function lets the user to preset the capacity limit during certain periods of the day, minimising energy consumption during peak billing times, thus reducing operation costs.			
	 <b>Weekly Timer</b> Set the unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.			
<b>Convenience</b> 	 <b>Function Switch *</b> From the seven available functions on the unit, this function allows the user to set two functions to operate automatically.			
	 <b>Favourite Setting *</b> Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favourite setting.			
	 <b>Select the Language *</b> Set the language to be displayed on the remote control.			
	 <b>Air Filter</b> The air filter in the unit traps and removes airborne dust particle and other allergens to provide you clean air.			
	 <b>Filter Sign</b> This warning alerts when the filter needs to be cleaned.			
	 <b>Outside Air Intake</b> This function provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.			
<b>Others</b>	 <b>Self Diagnostics</b> The internal microcomputer automatically runs a diagnostic of the system in the event of a malfunction. This enables authorised dealers to isolate and repair any issues.			
	 <b>Built in Drain Pump</b> The built-in drain pump, allows greater flexibility with installation offering a great solution for applications with limited space.			
	 <b>Improved Serviceability</b> 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.			

When using RC-EX3A (Remote control), functions with symbol      are available.

However, for RC-E5 (Remote control), functions with \* are not available.



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.

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Sales, Service & Marketing Headquarter (India)



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**MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.**

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

Our factories are ISO9001 and ISO14001 certified.

Certified ISO 9001



Certified ISO 14001



JAPAN

BANALIMA PLANT  
Mitsubishi Heavy Industries, Ltd.  
Certificate Number: JIS-0108

SHIRAKAWA PLANT  
Mitsubishi Heavy Industries, Ltd.  
Certificate Number: JIS-0109

MITSUBISHI HEAVY INDUSTRIES  
THERMAL SYSTEMS CO., LTD.  
Certificate Number: JIS-0110

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