

Futuristic
Design
Comfort
Control



HYBRID+
Cassette | Ductable



Next Generation High Performance Airconditioning

HYBRID+
CEILING SUSPENDED

HYPER
INVERTER
CEILING SUSPENDED



MADE IN THAILAND

HYBRID⁺

Next Generation High Performance Airconditioning

The PAC range from Mitsubishi Heavy Industries Thermal systems is ideal for air conditioning offices, shops, restaurants, and bars ... as well as other commercial environments. The versatility of the PAC range offers you a wide selection of models in function of your installation needs. The modern and attractive design of our indoor units is harmoniously integrated in any atmosphere creating a pleasant and relaxing environment.

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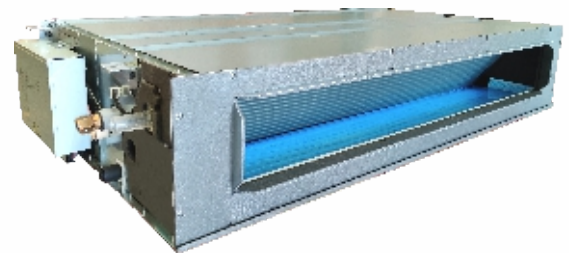
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CASSETTE



DUCTABLE















CEILING SUSPENDED

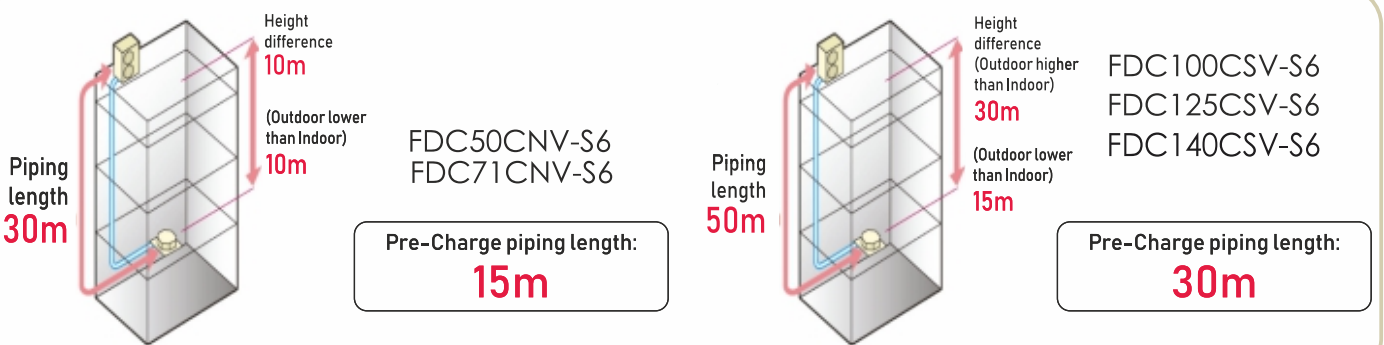


NON - INVERTER PAC



TYPE	CAPACITY					
	Ton	1.5	2.0	3.0	3.7	4.12
	KW	5.0	7.1	10.5	13.0	14.5
 CASSETTE	Indoor	FDT50CNV-S6	FDT71CNV-S6	FDT100CSV-S6	FDT125CSV-S6	FDT140CSV-S6
	Outdoor	FDC50CNV-S6	FDC71CNV-S6	FDC100CSV-S6	FDC125CSV-S6	FDC140CSV-S6
 DUCTABLE	Indoor	FDUM50CNV-S6	FDUM71CNV-S6	FDUM100CSV-S6	FDUM125CSV-S6	FDUM140CSV-S6
	Outdoor	FDC50CNV-S6	FDC71CNV-S6	FDC100CSV-S6	FDC125CSV-S6	FDC140CSV-S6
OUTDOOR UNIT						

TYPE	CAPACITY					
	Ton	1.5	2.0	3.0	3.55	4.12
	KW	5.0	7.1	10.5	12.5	14.5
 CEILING SUSPENDED NON - INVERTER	Indoor	—	FDE71CNVX-S6	—	FDE125CSV-S6	—
	Outdoor	—	FDC71CNVX-S6	—	FDC125CSV-S6	—
 CEILING SUSPENDED INVERTER	Indoor	—	—	FDE100YA-W6 3.0 (0.56Ton ~ 3.26Ton)	—	—
	Outdoor	—	—	FDC100YNA-W6	—	—
OUTDOOR UNIT	—	—				—



Features

ECONOMY MODE



ENERGY SAVING MODE

Temperature is set to optimize to save energy without losing comfort.

COMFORT



Automatic Operation

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

AIRFLOW



Individual Flap Control System

Wired remote controller allows you to set the upper and lower limit positions of the flap at each air outlet individually, providing you with complete control over air flow inside the room.



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.

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.



Motion sensor (optional)

This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.



Draft prevention setting (optional)

Draft Prevention setting provides a comfortable air flow without any draft feeling. The remote control can be used to instantly to suppress any warm or cool drafts. This accurately assists how air flow is directed out of the indoor unit.



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.






















































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.

Indoor Units

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

				
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.	 Option	
Air flow	Individual Flap Control 	Wired remote controller allows you 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.		
	Draft prevention setting * 	Draft Prevention setting provides a comfortable air flow without any draft feeling. 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.		
	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.	 Option	
	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.		 OPTIONAL
	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

HYBRID+ Cassette

Futuristic Design
Futuristic Comfort
Futuristic Control

Next Generation

Aerodynamic Vane Design

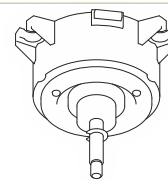
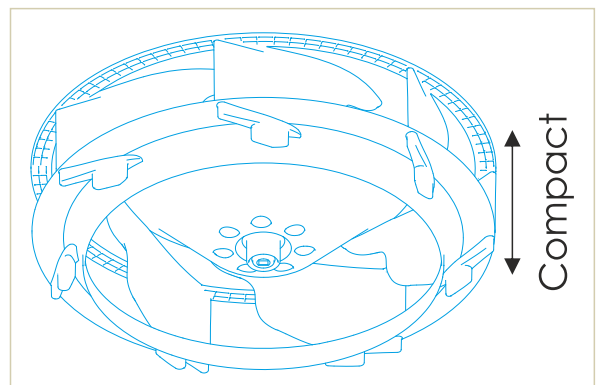
Draft Prevention Panel

Motion Sensor

Next Generation High Performance Airconditioning
High energy efficiency with latest technology

Aerodynamic Super Turbo Fan

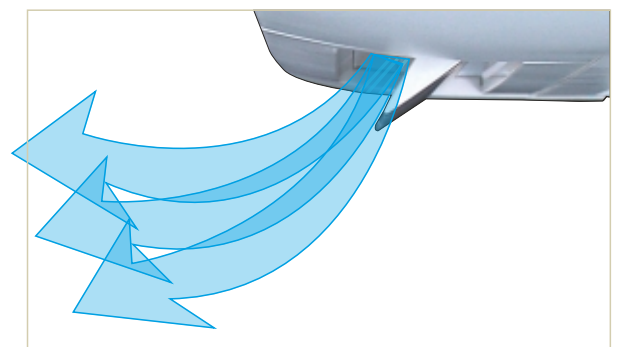
CFD (computational fluid dynamics), used in blade shape design of jet engines, has been applied to the design of air channels of the Super Turbo Fan of the Cassette AC to develop the ideal air channels system for air movement. The airflow created in this system by Large Diameter Slim Turbo Fan with WIDE AREA aerodynamic Vanes enables large volumes of air to be blown with minimum power consumption, yet the air flow is uniform, quiet & with longer reach. CFD used in the design of the Super Turbo Fan produces an even laminar air flow to ensure highest air flow at the lowest noise levels. DC motor makes the turbo fan movement energy efficient, vibration free & hum free.

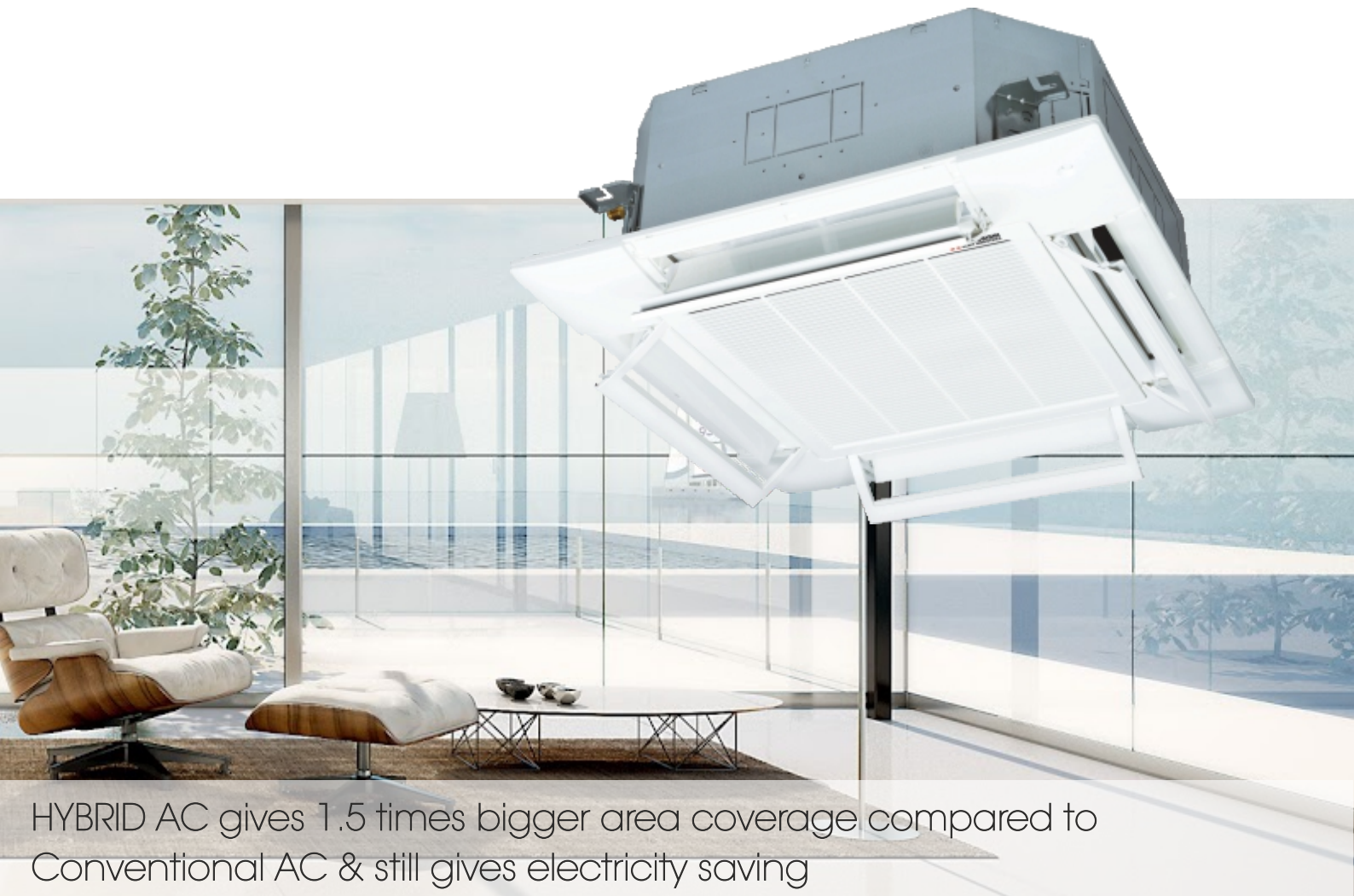


BLDC Motor
Noise Free
Hum Free
Energy Efficient
(BRUSHLESS DIRECT CURRENT MOTOR)

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.



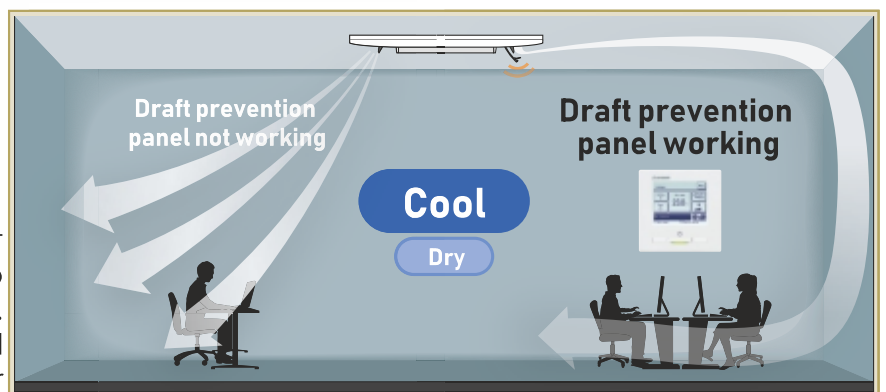


Draft Prevention Panel

(optional)

Maximum comfort with minimal draft
New FDT controls flaps with more flexibility

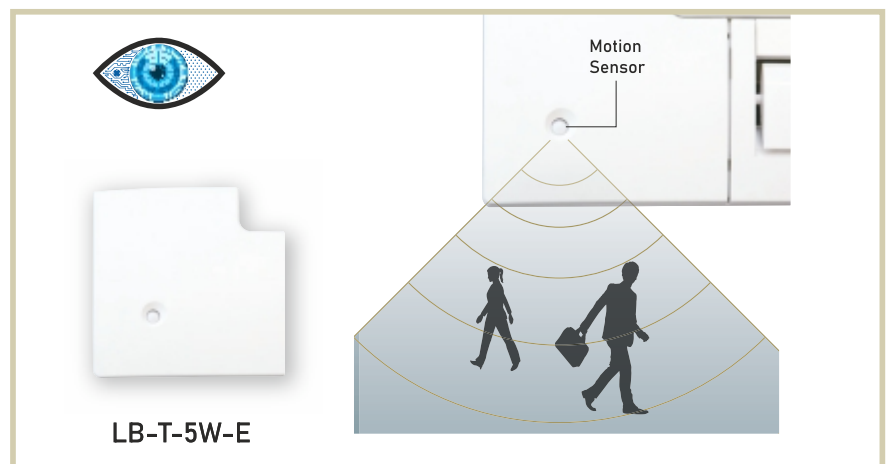
Draft Prevention Panel Prevents cold draft blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet. User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3A, RCN-T-5AW-E2).

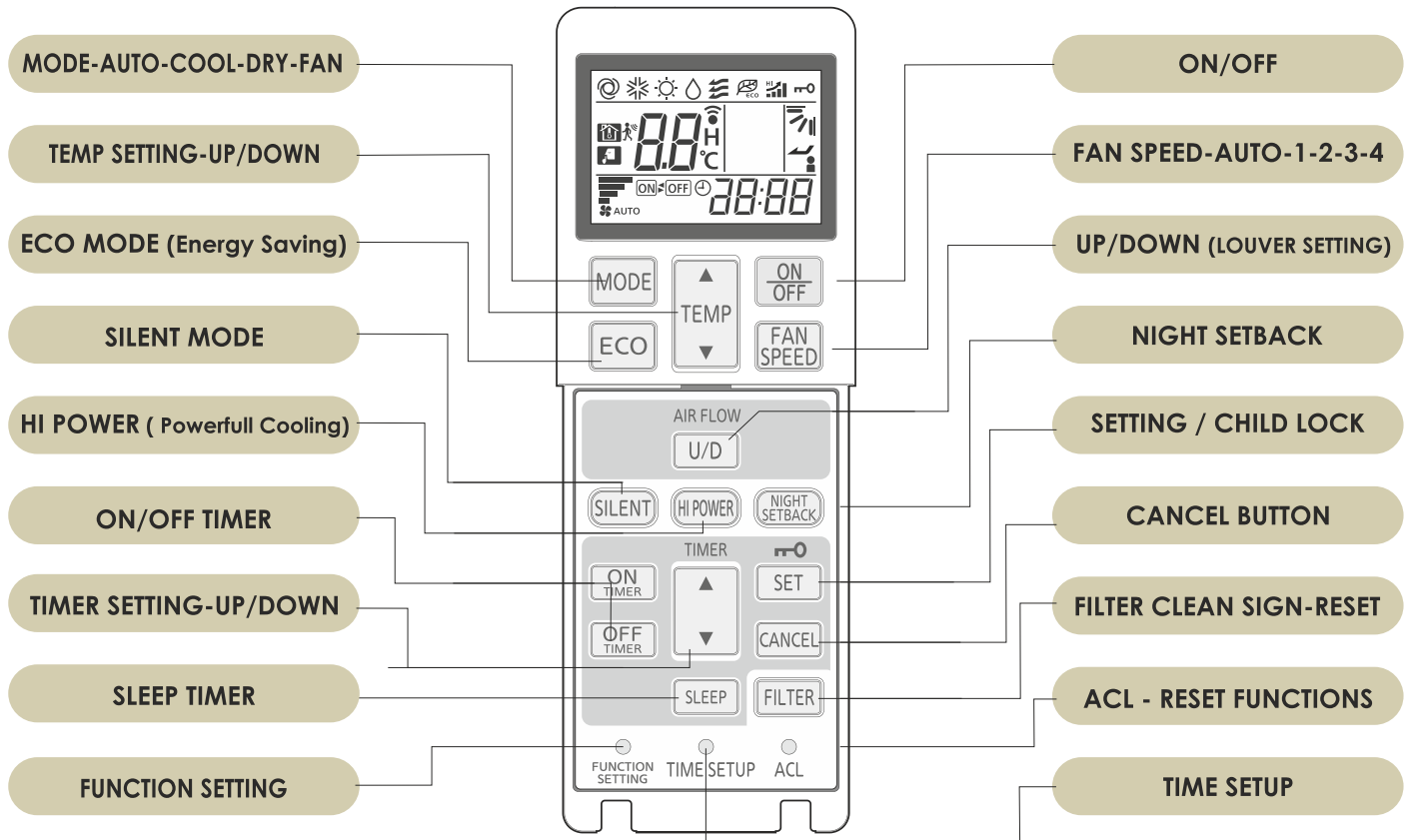
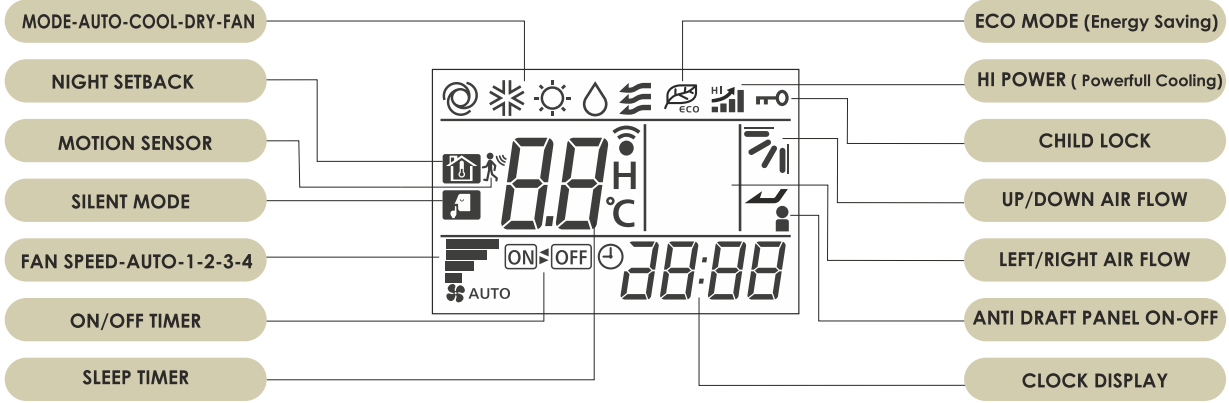


Motion Sensor

(optional)

Motion sensor is equipped in the panel corner and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.





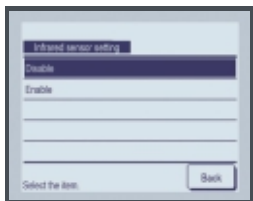
Motion Sensor Control

Presence of humans and the amount of motion are detected by a motion sensor to perform various controls.

Select Enable / Disable Motion sensor control



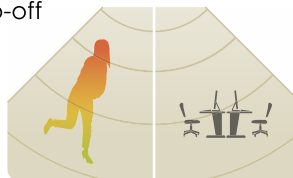
Enable / Disable



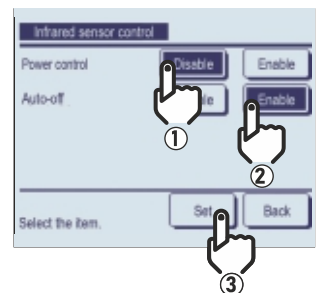
Select Enable / Disable for the motion sensor of the indoor unit connected to the R/C.

Select Enable / Disable per control

- Power control
- Auto-off



Enable / Disable

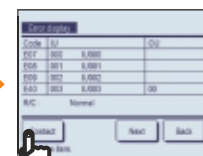
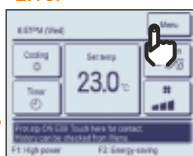


Contact company & Error display

If any error occurs on the air conditioner, the "Unit protection stop" is indicated on the message display.



"Error"



Simple use with advanced settings

RC-EX3A

Function Switch

The function switch allows you to select and set two functions that you desire among the seven available functions shown. These functions can be used by simply pressing the button after they are set, allowing you to use your preferable functions immediately.



HIGH POWER MODE

High Power Mode achieve excessive cooling / heating capacity for 15 minutes to quickly adjust the room temperature to a comfortable level.



ENERGY SAVING MODE

Temperature is set to optimized to save energy without losing comfort.



QUIET MODE

Outdoor unit starts to operate quietly by activating this mode. The time of this mode can be set in conjunction with Indoor Silent Timer.



HOME LEAVE MODE

Home leave mode maintains the room temperature at a moderate level.



FAVOURITE MODE

Operation mode, set temperature, fan speed and air flow direction are automatically adjusted to the programmed favorite setting.

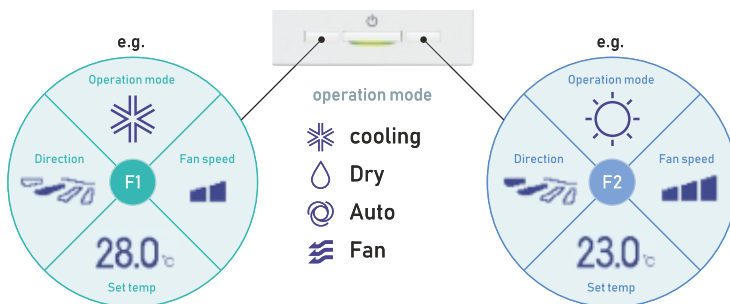


FILTER SIGN

Announces the due time for cleaning the air filter.

Favourite Mode

Operation mode, set temperature, fan speed and air flow direction are memorized and allocated to two buttons that can be operated by one touch.



Adjustable Brightness of the Operation Lamp

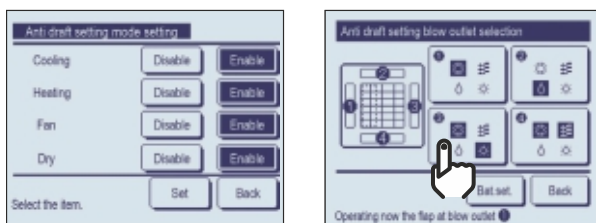
The brightness of the operation lamp behind Run/Stop switch can be adjusted by 10 stages.



Draft Prevention Setting

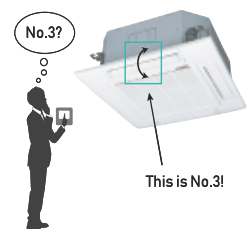
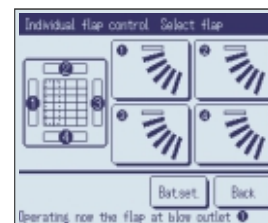
(only FDT series)

User can enable/disable the motion of panel with anti draft for each blow outlet for each operation mode. This function can be set while operating.



Easy Modification of Air Flow

User can visually confirm and set the direction of louvres using the visual display on the remote controller.



HYBRID+ Cassette

4 Way

Futuristic
Design
Comfort
Control!



REMOTE CONTROL

Wireless (Standard)



LA-T-5BW-E/1 RCN-E2B/1

Wired (Optional)



RC-E5



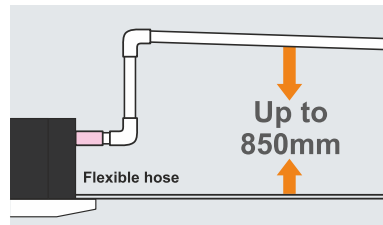
RCH-E3



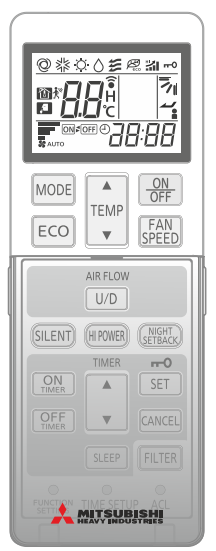
RC-EX3A

ECONOMY	COMFORT	AIRFLOW
Energy Saving	Automatic Operation	Motion sensor (optional)
Self Diagnostics	Sleep Timer	Filter Clean Indicator
Automatic Fan	Draft Prevention (optional)	Outside Air Intake
Vertical Auto Swing	Individual Flap Control (Wired Remote)	

850mm Drain Pump



RCN-E2B/1
Standard



Individual Flap Control System

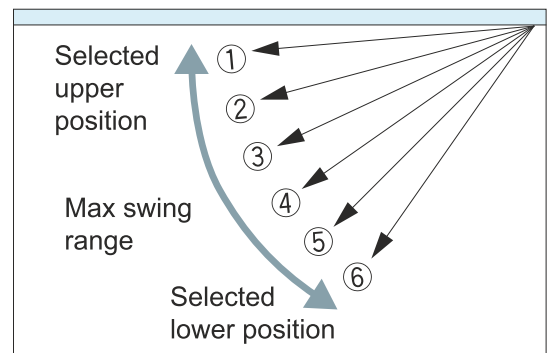
Wired Controller (optional)



RC-E5

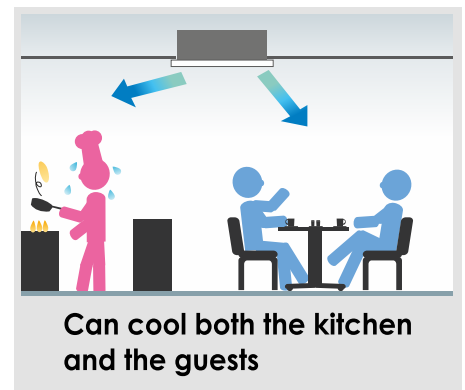
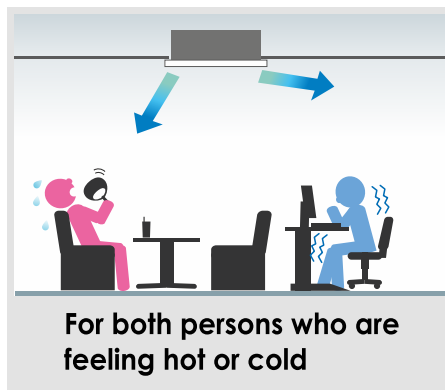
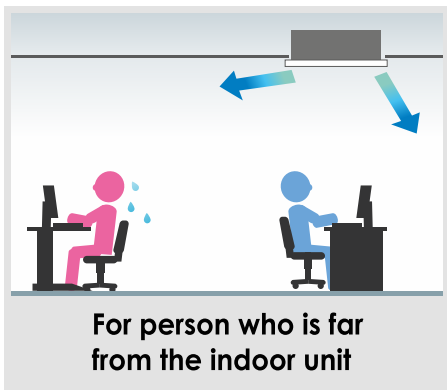
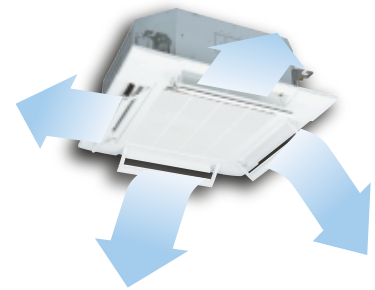
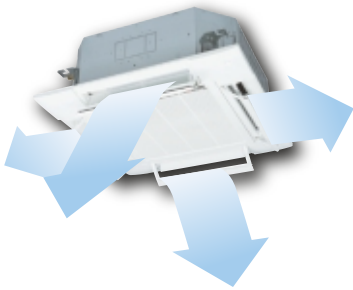


RC-EX3A



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

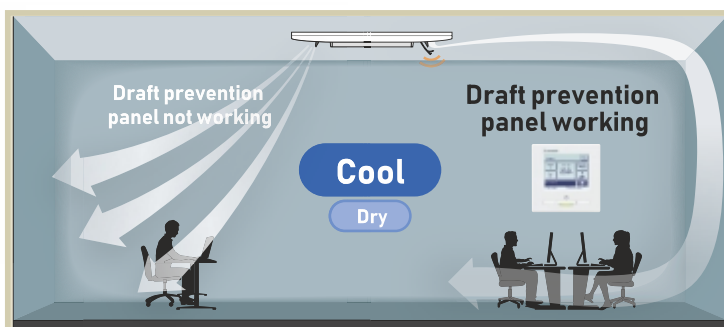
According to room conditions, four directions of air flow can be controlled individually by utilizing the flap control system. Individual flap control is available even after installation. Flap can swing within an upper and lower flap range position which can be selected with a wired remote control



Draft Prevention Panel (optional)

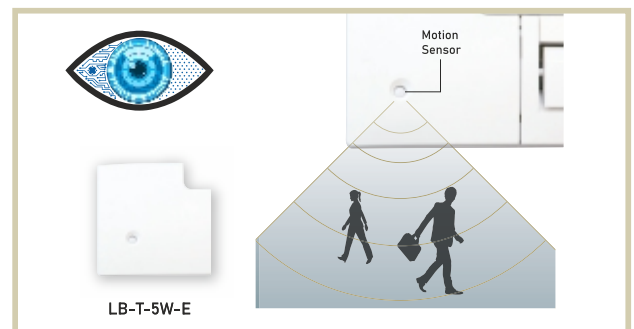
Draft Prevention Panel Prevents cold draft blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.

User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3A, RCN-T-5AW-E2).

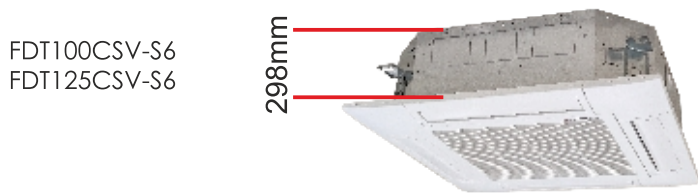
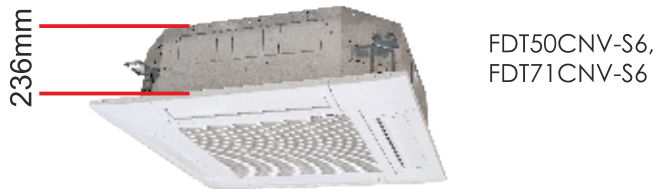


Motion Sensor (optional)

Motion sensor is equipped in the panel corner and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.

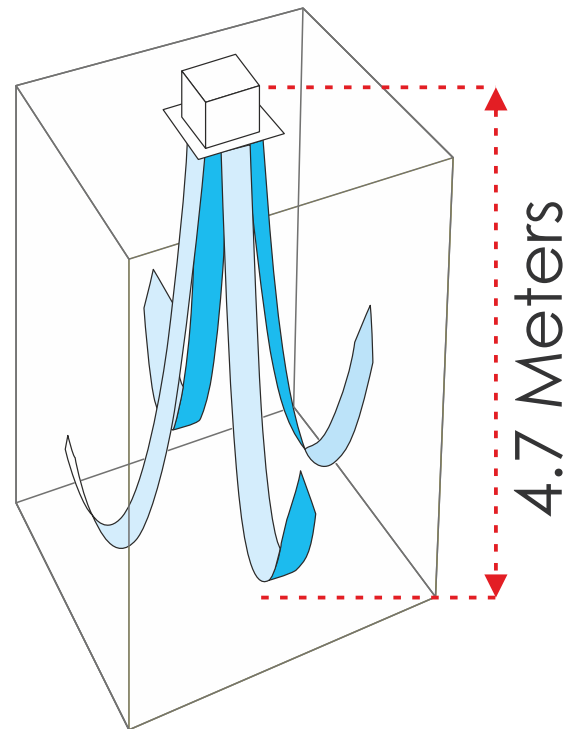


Compact Height



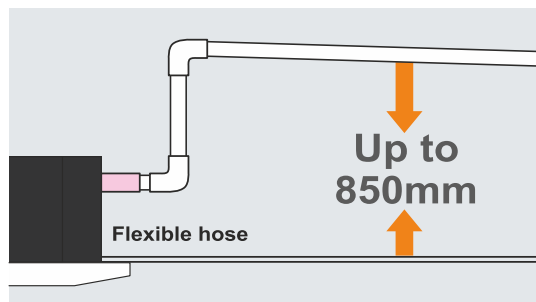
Suitable for High Ceilings

The Powerful blowout carries comfortable air flow to the floor even in high ceiling applications. It is ideal for high ceiling offices, stores, etc., with a wide, uniform air flow throughout the room.



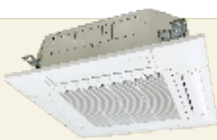
850mm Drain Pump

Drain can be discharged upwards up to 850mm from the ceiling surface, allowing a piping layout with a high degree of freedom. Thanks to the 185mm flexible hose, equipment supports easy workability.



Panel Select Pattern (optional)

① Standard Panel
T-PSA-5AW-E



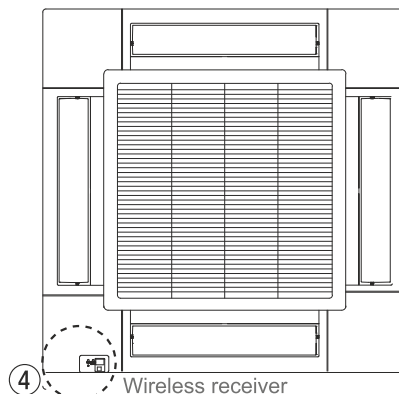
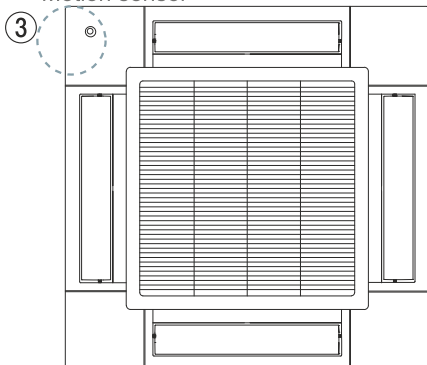
② Draft Prevention Panel
T-PSAE-5AW-E

③ Corner panel with motion sensor
LB-T-5W-E

④ Corner panel with wireless receiver
RCN-T-5AW-E2

Installation position of Wireless kit and Motion sensor kit

Motion sensor



8 patterns of panel are available.

① Standard Panel only

①+③ Standard Panel with corner panel with motion sensor

①+④ Standard Panel with corner panel with wireless receiver

①+⑤ Standard Panel with corner panel with motion sensor & corner panel with wireless receiver

② Draft Prevention Panel only

②+③ Draft Prevention Panel with corner panel with motion sensor

②+④ Draft Prevention Panel with corner panel with wireless receiver

②+⑤ Draft Prevention Panel with corner panel with motion sensor & corner panel with wireless receiver

* Wireless receiver and Motion sensor can be installed to the position as shown

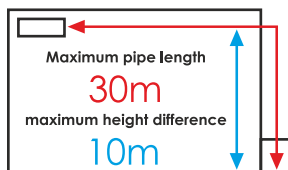
SPECIFICATIONS

SPECIFICATIONS		HYBRID - CEILING CASSETTE - 4WAY (R410A)					
Unit		FDT50CNV-S6	FDT71CNV-S6	FDT100CSV-S6	FDT125CSV-S6	FDT140CSV-S6	
Model	Indoor Unit	FDT50CNV-S6	FDT71CNV-S6	FDT100CSV-S6	FDT125CSV-S6	FDT140CSV-S6	
	Outdoor Unit	FDC50CNV-S6	FDC71CNV-S6	FDC100CSV-S6	FDC125CSV-S6	FDC140CSV-S6	
Super Tropical - Return cooled Compressor		Rotary		Rotary	Scroll	Rotary	
Type of AC		Heavy Duty AC		Hybrid AC			
Power Source		1 Phase, 220 - 240 V, 50 Hz		3 Phase, 380-415V, 50HZ			
Rated Cooling Capacity	Ton	1.5	2.1	3.0	3.7	4.12	
	Watts	5000	7300	10400	13000	14500	
	BTU/h	17060	24908	35485	44356	49474	
Input Power ** (Minimum - Maximum)	watts	1350 - 1550	2000 - 2250	2580 - 2880	3860 - 4160	4200 - 4500	
Rated EER / COP	W/w	3.23	3.24	3.61	3.13	3.22	
Air flow (Powerful - Hi)	Indoor Unit	CMH	1280 (P-Hi=1320)	1680 (P-Hi=1920)	2050 (P-Hi=2300)	2200 (P-Hi=2500)	2400 (P-Hi=2700)
Long Reach Airflow Upto	Indoor Unit	Meter	3.65	4.57	5.18	5.18	5.18
Sound Level (Powerful - Hi / H/M/L)	Indoor Unit	dB(A)	39 /38/ 37/ 34	46 / 43 / 39/ 37	44 / 40 / 38 /34	44 / 41 / 39 / 36	44 / 41 / 39 / 38
Louver Swing	Indoor Unit		Yes (Individual Flap Control System Possible in Wired Controller)				
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		Super Turbo Fan				
BLDC Fan Motor Speed	Indoor Unit		Powerful - High / High / Medium / Low				
External Static Pressure E.S.P. (Pascal)#	Indoor Unit	Pa	Not Applicable				
Dimension (H x W x D)	Indoor Unit	mm	Unit : 236 x 840 x 840 Panel : 35 x 950 x 950		Unit : 298 x 840 x 840 Panel : 35 x 950 x 950		
	Outdoor Unit		640 x 800 (+71) x 290		845 x 970 x 370	1300 x 970 x 370	
Weight	Indoor Unit	Kgs	25.0 (Unit:20 Panel:5.0)	27.0 (Unit:22 Panel:5.0)	30.0 (Unit:25 Panel:5.0)	30.0 (Unit:25 Panel:5.0)	30.0 (Unit:25 Panel:5.0)
	Outdoor Unit	Kgs	42	46	79	85	108
Refrigerant			R410A		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 Kgs (Upto 10mtrs.)	1.4 Kgs (Upto 15mtrs.)	2.65 Kgs (Upto 30mtrs.)	2.15 Kgs (Upto 30mtrs.)	3.1 Kgs (Upto 30mtrs.)
Charging requirement per mtrs		grams	25 grams (Above 15mtrs upto 30 mtrs)		50 grams (Above 30mtrs upto 50 mtrs)		
Maximum Piping Length		Mtrs	30 mtrs / 100 feet		50 mtrs / 164 feet		
Vertical Height Difference		Mtrs	Outdoor- Higher =10 mtrs / Lower =10 mtrs		Outdoor - Higher =30 mtrs / Lower =15 mtrs	Outdoor - Higher =30 mtrs / Lower =15 mtrs	
Main Power Supply to	Outdoor Unit		2.5 mm ² x 3 cores (including earthing)		4 mm ² x 5 cores (including earthing)		6 mm ² x 5 cores (including earthing)
Connecting wiring	B/w IDU & ODU		2.5 mm ² x 4 cores (including earthing)				
Area Coverage ***		Sq.Meter	15.97 - 18.58	18.58 - 25.54	25.54 - 32.51	32.51 - 44.12	44.12 ~ 55.76

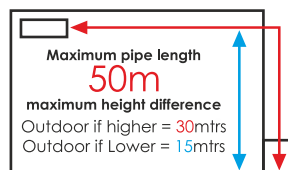
P-Hi - Powerful High Mode

REFRIGERANT PIPE LENGTH

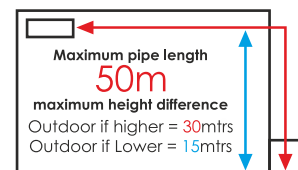
FDT50CNV-S6 / FDT71CNV-S6



FDT100CSV-S6 / FDT125CSV-S6



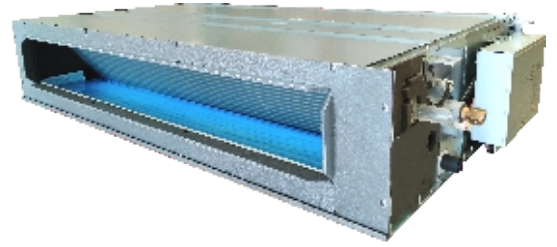
FDT140CSV-S6



** 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

*** 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.

HYBRID+ Ductable



Next Generation

ECONOMY

Energy Saving

Self Diagnostics

COMFORT

Automatic Operation

Sleep Timer

Motion sensor (optional)

Filter Clean Indicator

AIRFLOW

Automatic Fan

Outside Air Intake

SILENT

47%
Saving Electricity

EEV

HYBRID AC gives 1.5 times bigger area coverage compared to Conventional AC & still gives electricity saving

Automatic External Static Pressure (E.S.P.) Control

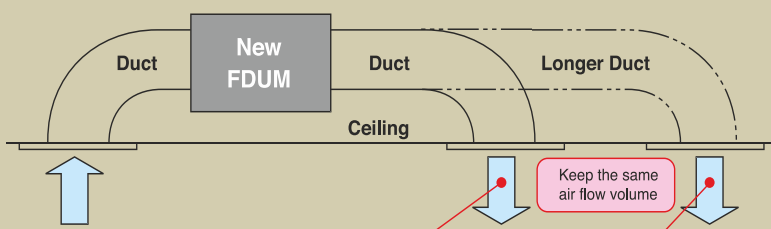
Optional For Ductable AC Wired Remote Control Model RC-E5 / RC- EX3A
Duct design was simplified, using DC motor. The most optimum air flow volume can be achieved by this automatic control. Indoor unit will recognize external static pressure by itself automatically and keep rated air flow volume.

The External Static Pressure (E.S.P.) can be manually set on the wired remote controller. It will control the fan speed to keep rated air flow volume at each fan speed setting. You can set required E.S.P. by wired remote controller, calculated with the set air flow rate and the pressure loss of the duct.

Wireless Remote

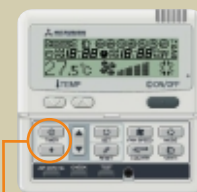


RCN-KIT4-E2
Standard

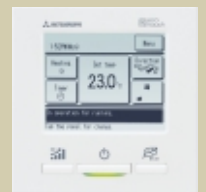


Setting No.	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10
E.S.P.	10Pa	20Pa	30Pa	40Pa	50Pa	60Pa	70Pa	80Pa	90Pa	100Pa

Wired (Optional)



RC-E5

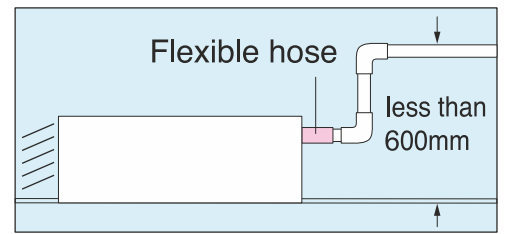


RC-EX3A

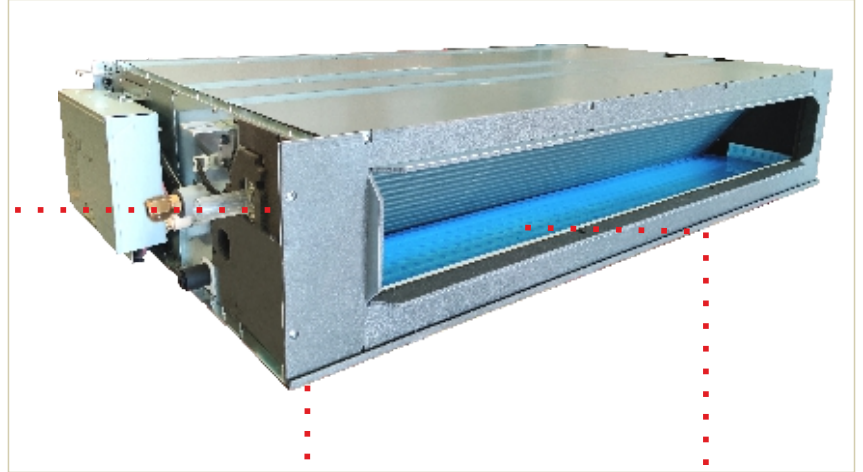
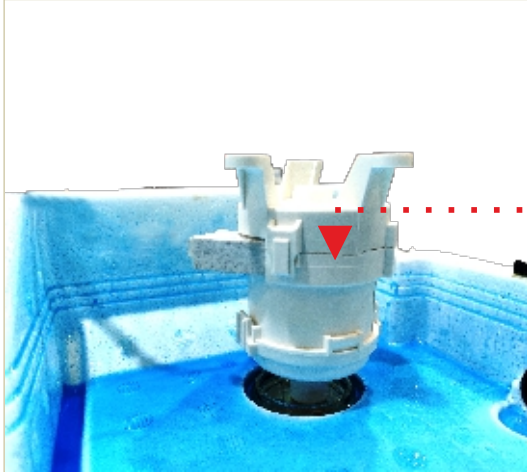
External Static Pressure (E.S.P.) can be set by E.S.P. button.

Built in Drain Pump

600mm Drain Pump is mounted in all models. The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior design & false ceiling.

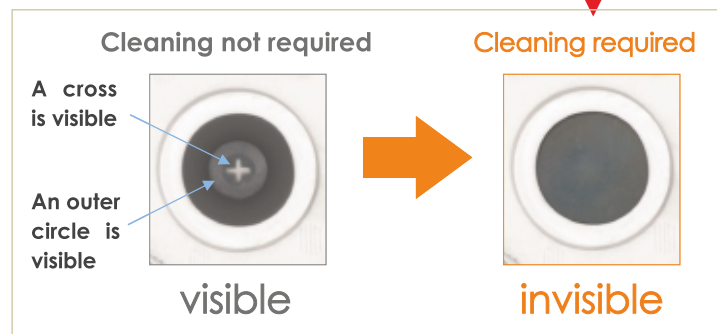


600MM DRAIN PUMP

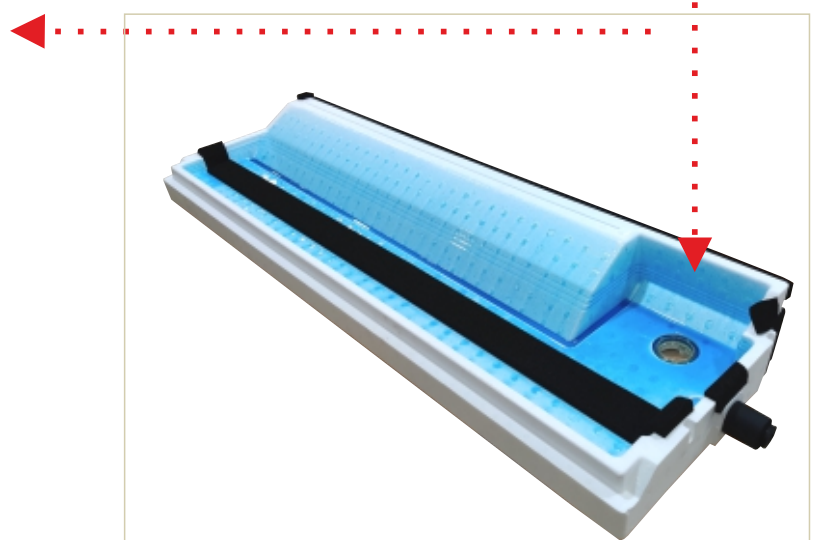


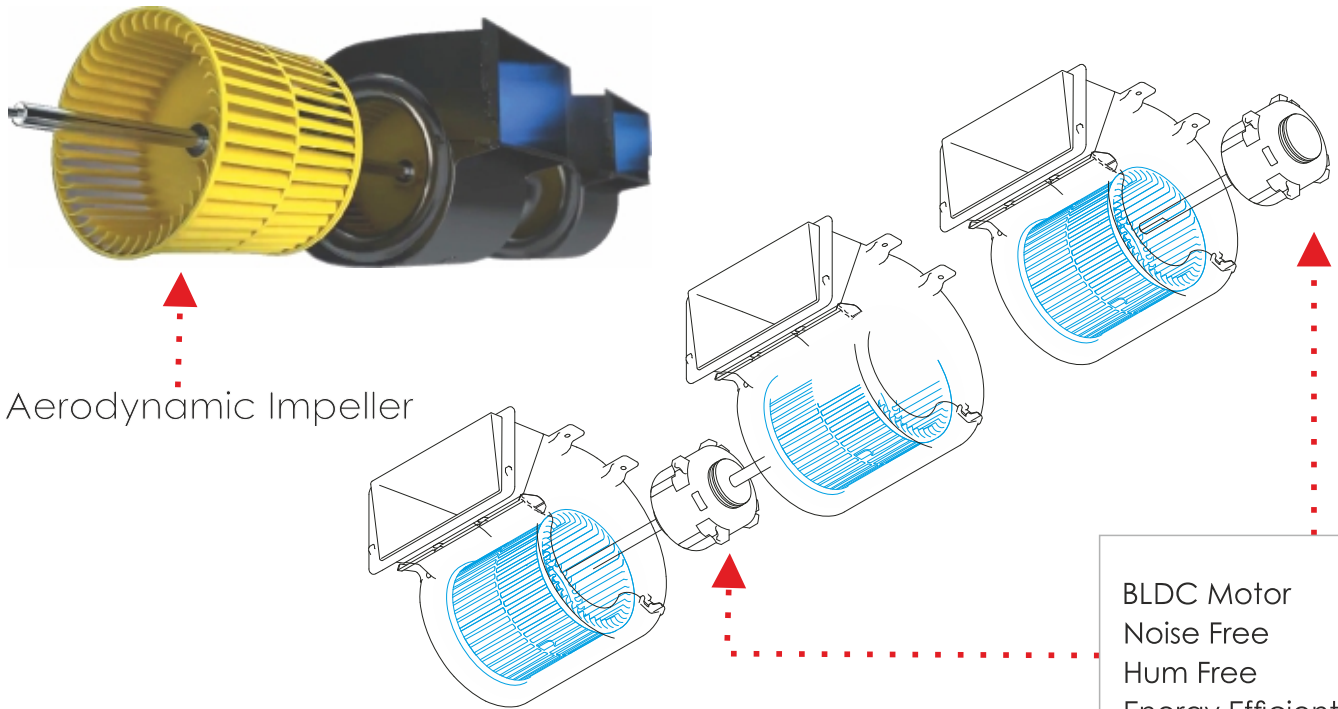
Transparent Inspection Window

Improvement of the Serviceability
Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan.



Drain Tray with Polyurethane Ethoxyline Resin Coating

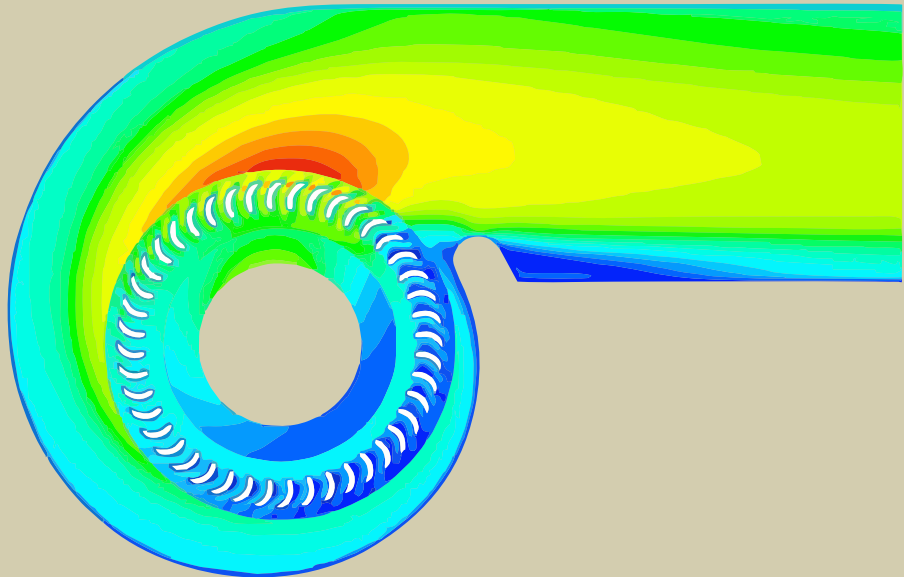
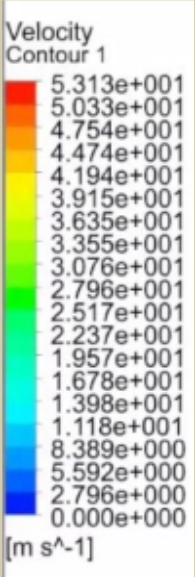




Aerodynamic Impeller

BLDC Motor
Noise Free
Hum Free
Energy Efficient
(BRUSHLESS DIRECT CURRENT MOTOR)

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.



SPECIFICATIONS



SPECIFICATIONS		HYBRID- DUCTABLE MEDIUM STATIC- FDUM SERIES (R410A)					
Unit		FDUM50CNV-S6	FDUM71CNV-S6	FDUM100CSV-S6	FDUM125CSV-S6	FDUM140CSV-S6	
Model	Indoor Unit	FDUM50CNV-S6	FDUM71CNV-S6	FDUM100CSV-S6	FDUM125CSV-S6	FDUM140CSV-S6	
	Outdoor Unit	FDC50CNV-S6	FDC71CNV-S6	FDC100CSV-S6	FDC125CSV-S6	FDC140CSV-S6	
Super Tropical - Return cooled Compressor		Rotary		Rotary	Scroll	Rotary	
Type of AC		Heavy Duty AC		Hybrid AC		Hybrid AC	
Power Source		1 Phase, 220 - 240 V, 50 Hz		3 Phase, 380 - 415 V, 50 Hz		3 Phase, 380 - 415 V, 50 Hz	
Rated Cooling Capacity	Ton	1.5	2.0	3.0	3.7	4.12	
	Watts	5000	7100	10400	13000	14500	
	BTU/h	17060	24225	35485	44356	49474	
Input Power ** (Minimum - Maximum)	watts	1400 - 1613	2000 - 2290	2900 - 3100	4000 - 4460	4400 - 4700	
Rated EER / COP	W/w	3.10	3.10	3.35	2.91	3.09	
Air flow (Powerful - Hi)	Indoor Unit	CMH	600 (P-Hi=800)	1200 (P-Hi=1440)	1950 (P-Hi=2340)	2200 (P-Hi=2880)	2200 (P-Hi=2880)
Long Reach Airflow Upto	Indoor Unit	Meter	2.43	3.65	6.09	6.09	7.62
Sound Level (Powerful - Hi /H/M/L)	Indoor Unit	dB(A)	35 / 31 / 29 / 27	38 / 33 / 31 / 29	42 / 36 / 32 / 29	44 / 37 / 33 / 29	44 / 37 / 33 / 29
Louver Swing	Indoor Unit		Not Applicable				
Remote Control	Indoor Unit	Standard - Wireless Remote Controller Included / Wired Controller Optional					
Self Diagnosis Function	Indoor Unit	Yes					
Filter	Indoor Unit	Anti- Bacterial Wire Mesh Filter - Optional - Chargeable Extra - Procure Locally					
Fan	Indoor Unit	Centrifugal Blower					
BLDC Fan Motor Speed	Indoor Unit	Powerful - High / High / Medium / Low					
External Static Pressure E.S.P. (Pascal) #	Indoor Unit	Pa	Standard = 35 Pa - Using Wireless Remote Controller Max = 100 Pa - Using Wired Remote Controller		Standard = 60 Pa - Using Wireless Remote Controller Max = 100 Pa - Using Wired Remote Controller		
Dimension (H x W x D)	Indoor Unit	mm	280 x 750 x 635	280 x 950 x 635	280 x 1370 x 740		
	Outdoor Unit		640 x 800 (+71) x 290		845 x 970 x 370		
Weight	Indoor Unit	Kgs	29	34	53	53	
	Outdoor Unit	Kgs	42	46	79	108	
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 Kgs (Upto 15mtrs.)	1.4 Kgs (Upto 15mtrs.)	2.65 Kgs (Upto 30mtrs.)	2.15 Kgs (Upto 30mtrs.)	
Charging requirement per mtrs		grams	25 grams (Above 15mtrs upto 30 mtrs)		50 grams (Above 30mtrs upto 50 mtrs)		
Maximum Piping Length		Mtrs	30 mtrs / 100 feet		50 mtrs / 164 feet		
Vertical Height Difference		Mtrs	Outdoor - Higher =10 mtrs / Lower=10 mtrs		Outdoor - Higher =30 mtrs Lower =15 mtrs		
Main Power Supply to	Outdoor Unit		2.5 mm2 x 3 cores (including earthing)		4 mm2 x 5 cores (including earthing)		
Connecting wiring	B/w IDU & ODU		2.5 mm2 x 4 cores (including earthing)			6 mm2 x 5 cores (including earthing)	
Area Coverage ***		Sq.Meter	15.97 - 18.58	18.58 - 25.54	25.54 - 32.51	32.51 - 44.12	
						44.12 ~ 60.40	

P-Hi - Powerful High Mode

FILTER KIT (OPTIONAL)

Anti- Bacterial Wire Mesh Filter -
Optional - Chargeable Extra - Procure Locally



REFRIGERANT PIPE LENGTH



Wireless Remote
RCN-KIT4-E2
Standard

FDUM50CNV-S6 / FDUM71CNV-S6

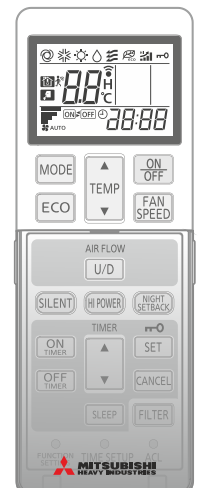
Maximum pipe length
30m
maximum height difference
10m

FDUM100CSV-S6 / FDUM125CSV-S6

Maximum pipe length
50m
maximum height difference
Outdoor if higher = 30mtrs
Outdoor if Lower = 15mtrs

FDUM140CSV-S6

Maximum pipe length
50m
maximum height difference
Outdoor if higher = 30mtrs
Outdoor if Lower = 15mtrs



** 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

*** Customers need to seek guidance from the Authorized Dealer / Expert for the AC unit capacity selection / duct design / air distribution & return air provisions, 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 / duct design - air distribution.

[E.S.P. = External Static Pressure can be changed using Wired Controller - Model RC-E5 / RC-EX1A]

HYBRID⁺

AIRCONDITIONERS
NON - INVERTER

CEILING SUSPENDED

FDE

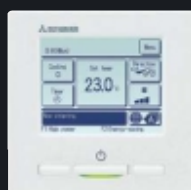


Models:
FDE71CNVX-S6
FDE125-CSV-S6

REMOTE CONTROL

Wireless (Standard)

Wired (optional)



RC-EX3A



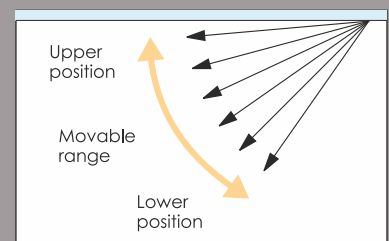
RC-E5



RCH-E3

Flap Control System

Selection of flap position is possible.
A flap can be set at different angles.



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	2100
Sound Pressure Level (H/M/L)	Indoor Unit	dB(A)	48 / 42 / 35
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
	Outdoor Unit		750 x 880 (+88) x 340
Weight	Indoor Unit	Kgs	32
	Outdoor Unit	Kgs	58
Refrigerant			R410A
Refrigerant Piping	Liquid/ Gas	mm	6.35 (1/4") / 15.88 (5/8")
Precharged Refrigerant		Kgs	1.5 Kgs (Upto 15mtrs.)
Charging requirement per mtrs		grams	25 grams (Above 15mtrs upto 30mtrs)
Maximum Piping Length		Mtrs	30
Vertical Height Difference		Mtrs	10
Main Power Supply to	Outdoor Unit		2.5 mm x 3 cores (including earthing)
Connecting wiring	B/w IDU & ODU		2.5 mm ² x 4 cores (including earthing)
Area Coverage ***		Sq.Meter	18.58 - 23.23

REFRIGERANT PIPE LENGTH

FDC71CNVX-S6

Maximum pipe length
30m

Maximum height difference
10m

FDC125CSV-S6

Maximum pipe length
50m

Maximum height difference
15m



** Under Standard Installation & Lab Test Condition

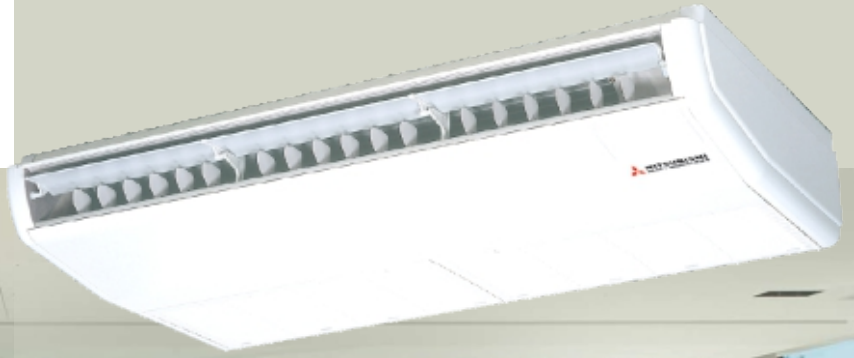
*** Customers need to seek guidance from the Authorized Dealer / Expert for the AC unit capacity selection before ordering any AC unit. Area coverage is subject to checking of the site conditions like - Terrace / Wall / Glass windows exposed to direct sunlight, of the area to be Air-conditioned & room 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

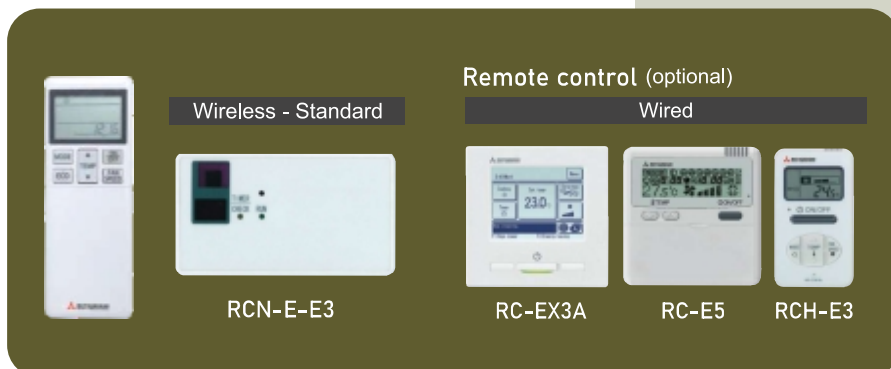
CEILING SUSPENDED

FDE



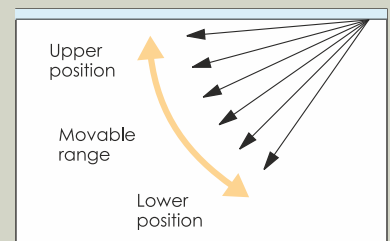
Models:
FDE100YA-W6

REMOTE CONTROL



Flap Control System

Selection of flap position is possible.
A flap can be set at different angles.



Specifications



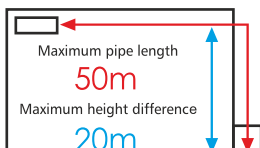
SPECIFICATIONS		HYPER INVERTER - CEILING SUSPENDED AC - R32	
Model			FDE100YA-W6
Unit	Indoor Unit		FDE100YA-W6
	Outdoor Unit		FDC100YNA-W6
Ton - Cooling Only	(minimum ~ maximum)		3.0 (0.56Ton ~ 3.26Ton)
Super Tropical Compressor Type			Twin Rotary
VFD - Variable Frequency Drive			Inverter Vector Control 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 ² x 3 cores (including earthing)
Connecting wiring	B/w IDU & ODU		2.5 mm ² 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


















FDC100YNA-W6



















** 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.

Indoor units BENEFITS SUMMARY

		FDE INVERTER	FDE NON - INVERTER
Energy-Saving 	 Inverter Technology Inverter control technology delivers high efficiency and a smooth operation from high speed to low speed. A smooth sine voltage wave is attained.	●	
	 Energy-Saving Operation * Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.	●	
	 Motion Sensor * This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.	● Optional	
	 Home Leave Operation 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.	●	
	 Set Temperature Auto Return * This function allows the user to program a preferred set temperature that the unit will return to each time it is operated.	●	●
Comfort 	 Automatic Operation This function automatically selects the required heating or cooling function based on the current room conditions.	●	●
	 Silent Operation 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.	●	
	 Hi Power Operation 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.	●	
Air Flow 	 Flap Control System 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.	●	●
	 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 the preferred operation angle.	●	●
	 Draft Prevention Setting * 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.		
	 Automatic Fan Speed The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.	●	●

Indoor Unit

		FDE INVERTER	FDE NON - INVERTER
Timer 	 Sleep Timer 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.	●	●
	 Peak-Cut Timer * 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.	●	
	 Weekly Timer Set the unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.	●	●
Convenience 	 Function Switch * From the seven available functions on the unit, this function allows the user to set two functions to operate automatically.	●	●
	 Favourite Setting * Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favourite 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 particle and other allergens to provide you clean air.	●	●
	 Filter Sign This warning alerts 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 authorised dealers 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.	 Not Available	 Not Available
	 Improved Serviceability The fan unit (comprised of impeller and motor) is easily accessible from bottom of the unit and can be slide 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.

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

Sales, Service & Marketing Headquarter (India)



IAPL GROUP

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Sales & Service office

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Our factories are ISO9001 and ISO14001 certified.

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Air Conditioning & Refrigeration Systems Headquarters
Certificate Number : JG4378

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