

Futuristic Design
Comfort
Control

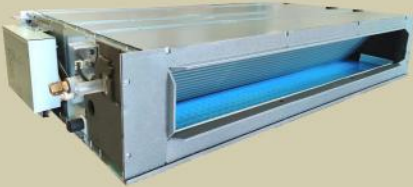


HYBRID+

Cassette | Ductable | Tower



Next Generation High Performance Airconditioning



Country of Origin : Thailand





Our Technologies, Your Tomorrow

Established Since - 1884

Future and technology for Air conditioning

Research and technological innovation have been the goals of Mitsubishi Heavy Industries for over a century and these have been translated into the excellent results in the air conditioning products.

The perfect harmony between energy, technology and innovation is manifested in the production of air conditioners designed to meet the engineering needs of the residential, commercial and industrial sectors. State of the art solutions applied to top quality to guarantee well being, energy saving and quality life.

For a better tomorrow

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

Harmonizing People and technology on a global scale

As a global manufacturer, the fields in which Mitsubishi Heavy Industries work, knows no limits, offering more than 700 products that fall in all sectors and meet different needs and lifestyles, with the aim of reconciling public needs and technological innovation. With its eyes on the future, MHI will continue to traverse uncharted lands.

TECHNOLOGY NEXT



IAPL GROUP

Vision for a Global Perspective

“Our determination to conduct business on a global scale is supported by, and reflected in, a fundamental philosophy: utilization of inherent business acumen & technological expertise accumulated over more than 40 years to assess changes that occur with the passage of time while continuously developing previously unexplored areas.



Shri. Jeevan Singh Chouhan
Chairman

Company Philosophy

We firmly believe that simple & direct method of operation brings about confidence in doing business more cohesively which strengthens our relation with our Dealers, our Channel partners in growth. Our increased involvement & deep collaboration with our Channel Partners makes the business simpler.”



Shri. Aman Chouhan
Managing Director

Mitsubishi Heavy Industries- IAPL Group is a Strategic alliance of Mitsubishi Heavy Industries - Mahajak Airconditioners Co. Ltd. & IAPL Group , for sales, marketing & service of Mitsubishi Heavy Ind. Heavy Duty Room, Commercial Airconditioners & VRF Systems in India.

IAPL Group with its nationwide network has supported a wide array of projects including residential & large commercial establishment, Offices, Business establishments, Hotels, Hospitals, Schools, Commercial Complexes, Industries, etc. We have participated in projects for large Air Conditioning Systems requiring SYSTEM INTEGRATION of imported air conditioning equipment as per the international standards lay down by our principal- M/s. Mitsubishi Heavy Industries Thermal Systems Ltd. We ensure much superior quality of workmanship with advanced engineering skills. We have full - fledged team of qualified engineers and technical staff in the air- conditioning divisions to meet all kind of requirements. IAPL has consistently provided Channel Partners with timely and high value service, competitively priced products without sacrificing quality.

Mitsubishi Heavy Industries Japan - Global Activity

136 years of technological innovations



Yataro Iwasaki,
founder of Mitsubishi



1884: the Nagasaki shipyards at the time
the company was founded

quality products through untiring technological research and development. From new energy development and environmental concerns to the exploration of space, with the advent of the 21st century MHI is confronting a variety of issues to ensure the realisation of a society in which there is harmony between mankind and technology.



- Crude Oil Storage Barges
- LNG Tanks
- Boilers & Turbines
- Oil Production Plants
- Contra-Rotating Propellers
- Thermal Power Plants
- Combined Cycle Plants
- Fuel Cells
- Water Turbines
- Wind Turbines
- Geothermal Power Plants
- PWR Nuclear Power Plants
- Uranium Enrichment Equipment
- FBRs
- Co-Generation Systems



- Ultra-High Steel Stacks
- Refuse Incineration Plants
- Night Soil Treatment Plants
- Electrostatic Precipitators
- Flue Gas Desulfurization System
- Fluidized Incinerators
- CFC Collecting Equipment



- Spillway Radial Gates
- Steel Bridges
- Penstocks
- Desalination Plants
- Physical Distribution Equipment
- Engines



- Unloader & Container Cranes
- Mechanical Parking Facilities
- Integrated Automated Storage Systems
- Rubber & Tyre Machinery
- Skyrails
- Monorail Cars
- New Transportation Systems
- Passenger Boarding Bridges

- Toll Collection Machine Systems
- Forklift Trucks
- Helicopters
- Aircraft
- Railway Maintenance Equipment
- LNG Carrier
- Container Ships



TRANSPORTATION

LOCAL DEVELOPMENT

ENVIRONMENT

RESOURCES/ENERGY



Our Technologies, Your Tomorrow

Established Since - 1884



- Chemical Plants
- Wind Tunnel/Experiment Equipment
- Casting Machines
- Strip Mill
- Cement Plant
- Stepless Variable Speed Gears
- Industrial Robots
- Injection Moulding Machines
- Pulp & Paper Machinery
- Corrugation Machines
- Box Making Machines
- Machine Tools



- Ceiling Recess Packaged Air Conditioners
- Automotive Air Conditioners
- Residential Use Split Air Conditioners
- Refrigeration Units
- Dry Cleaning Machines
- Food Machinery
- Cruise Ships
- Multi-purpose Dome
- Stage Machinery Systems



- Cable Layer
- Printing Machinery



- Oceanographic Research Ships
- Deep Submergence Research Vehicles
- Communications Satellite Rockets
- Space Transportation
- Rockets & Engines



INDUSTRIAL

LEISURE/LIFESTYLE

INFORMATION SYSTEM

DEVELOPMENT

DEFENCE



- Submarines
- Naval Vessels
- Jet Fighters
- Helicopters
- Missiles
- Tanks & Infantry Fighting Vehicles

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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CASSETTE










DUCTABLE



TOWER

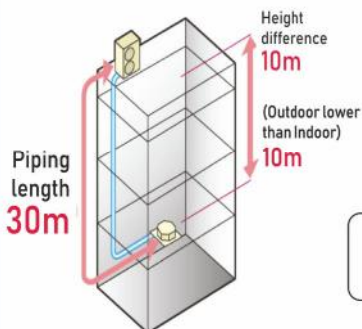
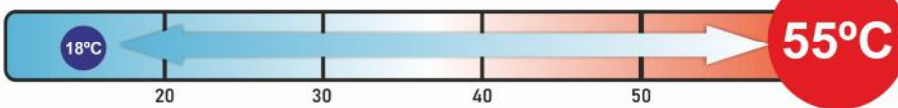


NON - INVERTER PAC

TYPE	CAPACITY				
	Ton Range	1.5	2.0	3.0	3.7
	KW Range	5.0	7.1	10.5	13.0
 CASSETTE	Indoor	FDT50CNV-S6	FDT71CNV-S6	FDT100CSV-S6	FDT125CSV-S6
	Outdoor	FDC50CNV-S6	FDC71CNV-S6	FDC100CSV-S6	FDC125CSV-S6
 DUCTABLE	Indoor	FDUM50CNV-S6	FDUM71CNV-S6	FDUM100CSV-S6	FDUM125CSV-S6
	Outdoor	FDC50CNV-S6	FDC71CNV-S6	FDC100CSV-S6	FDC125CSV-S6
 TOWER	Indoor	-	FDF71CNV-S6	-	FDF125CSV-S6
	Outdoor	-	FDC71CNV-S6	-	FDC125CSV-S6
OUTDOOR UNIT					

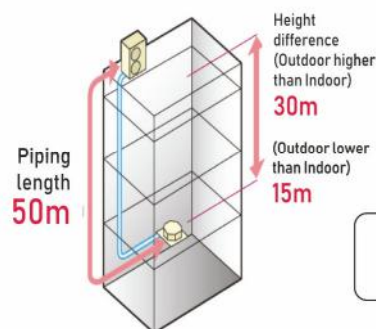
Design Condition

Outdoor Temperature



FDC50CNV-S6
FDC71CNV-S6

Pre-Charge piping length:
15m



FDC100CSV-S6
FDC125CSV-S6

Pre-Charge piping length:
30m



Futuristic
Design
Comfort
Control

Luxury Crafted

HYBRID⁺
Cassette

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



8 Meters
Air Flow



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.



Motion sensor (optional)

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

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.



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.



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.

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.



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.

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.

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 favourite setting.



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 Provision

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

Indoor Units

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

However, for RC-E5 (Remote control), functions  with 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	
Timer	Automatic Fan Speed 	The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.			
	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.			
Convenient	Weekly Timer 	Set your unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.			
	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.		Option	
	Filter Clean Indicator 	This warning alerts you as to when the filter needs to be cleaned.			
Others	Outside Air Intake 	This function provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.			
	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.			

HYBRID+ Cassette

Futuristic Design
Comfort
Control

Next Generation

Aerodynamic Vane Design

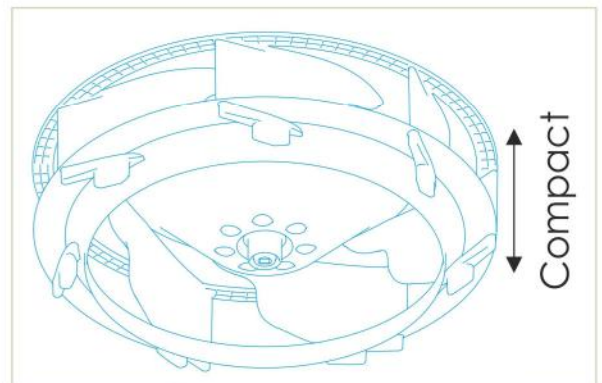
Draft Prevention Panel

Motion Sensor

Next Generation High Performance Airconditioning
High energy efficiency with latest technology

Aerodynamic Super Turbo Fan

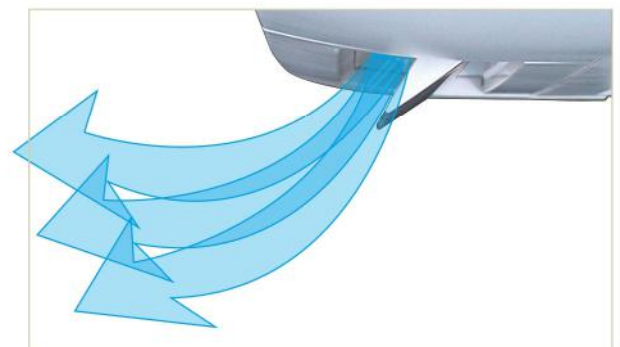
CFD (computational fluid dynamics), used in blade shape design of jet engines, has been applied to the design of air channels of the Super Turbo Fan of the Cassette AC to develop the ideal air channels system for air movement. The airflow created in this system by Large Diameter Slim Turbo Fan with WIDE 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.

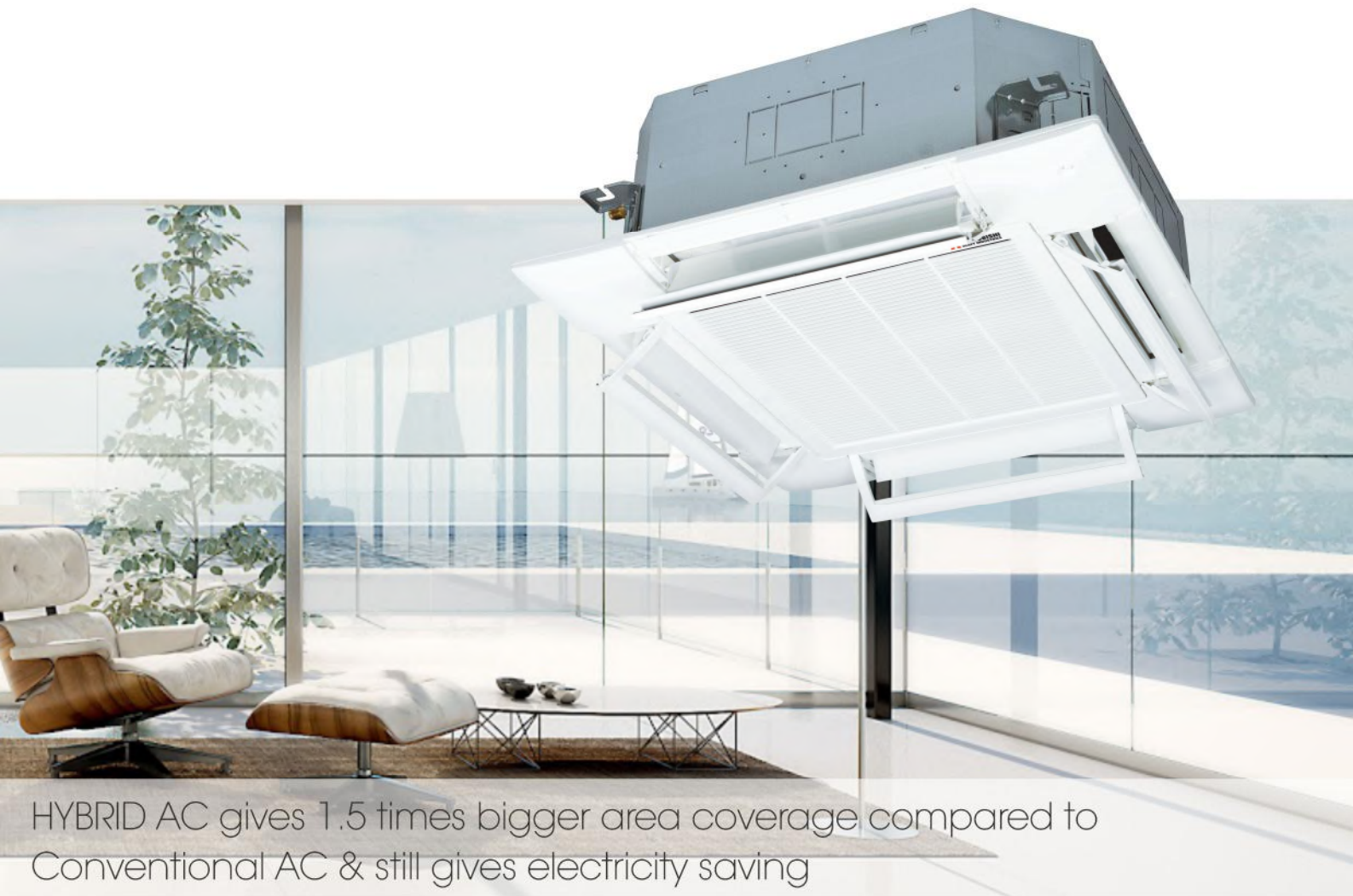


DC Motor
Noise Free
Hum Free
Energy Efficient

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.



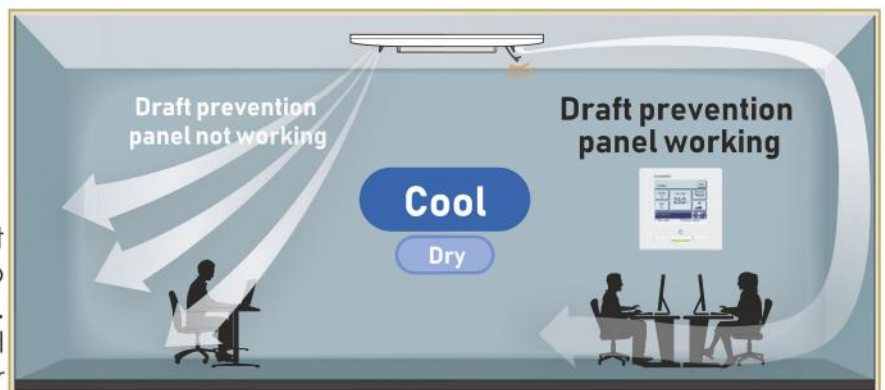


Draft Prevention Panel

(optional)

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

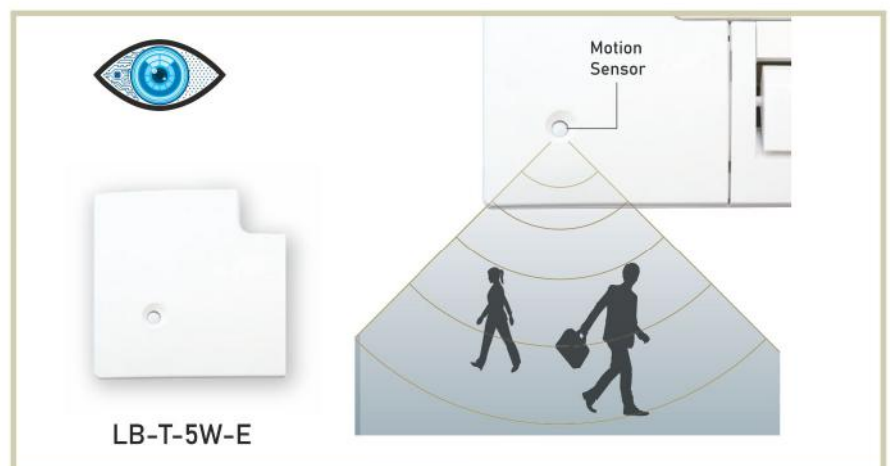
Draft Prevention Panel Prevents cold draft blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet. User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3A, RCN-T-5AW-E2).



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.



Serviceability & Workability

Easy and quick installation and maintenance

Indoor unit is easily positioned and installed

Quick positioning !

1 Adjustable easier positioning of unit by new slits. FDT

New shape of slit is suitable to install the unit with more flexibility, according to many kinds of suspending bolt pitch on site. Any rectangular or squared pitch of suspending bolts are available with this slit.

Compatible with both square or rectangular bolt pitch

2 New slit in panel allows easier installation on site. FDT

Flexible positioning is available, which helps adjusting the direction of panel according to lines or pattern on the ceiling.

4 long slits are available.

Quick installation and maintenance

1 Easy access to component part for easy maintenance. FDT

1. The control box and bell mouth can be removed together. 2. Easy access to impeller and fan motor.

Remove

2 New shape of path of wiring. FDT

New shape of path gives easy wiring work for installation.

Easy wiring work

3 No need to remove screws to open the controller cover. FDT

It is possible to loose and slide open the cover without removing the screws. This prevents the cover from falling and causing damage on site.

No need to remove screws

Loosen Loosen

Slide Slide

Open

4 Safer installation by stopper of washer FDT

When unit is installed with hook between washers, this stopper helps to install the unit safely, without adjusting washer.

Separate the provisional washer securing material.

Stopper

Washer on the upper side

Good help for installation and maintenance

For smooth and easy working

1 Easy and flexible hook to remove the filter FDT

Hook of soft material helps to remove the filter without dust spreading.

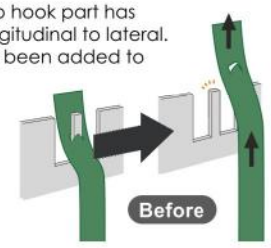
Press the filter tab to the outside and remove the filter.



Soft material

2 Securely fix the corner lid by strap FDT

The direction of the strap hook part has been changed from longitudinal to lateral. Furthermore, a barb has been added to the hook pin to prevent the strap from coming off.



Before

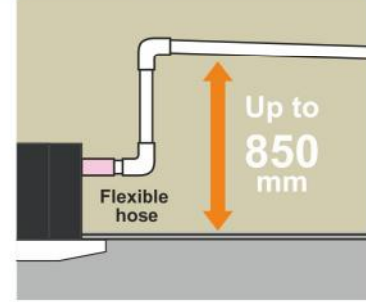
After

Easy to hook but not easy to loose

3 Drain-up-lift increases up to 850 mm FDT

The drain can be lifted up to 850 mm from the ceiling surface

	Previous	New
FDT	700	850




Up to 850 mm

Flexible hose

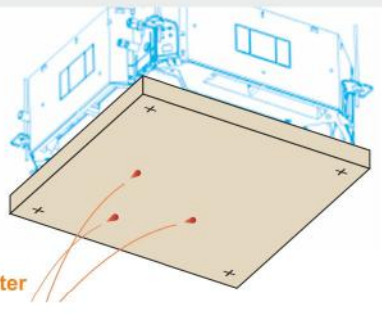
4 New port to check drain water flow FDT

A water supply port has been provided in the piping lid for easier testing of the drain water flow. (The port is usually sealed with a rubber cap.)



5 Re-use of packages during construction work FDT

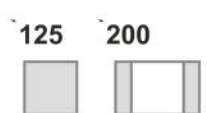
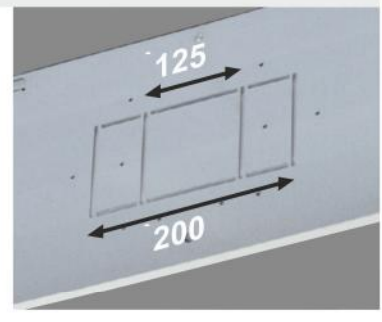
Package material (carton) help to protect the unit from unexpected welding spatter or coming dust to the new unit.



Spatter

6 More flexible outlet for ducting FDT

Both $\phi 125$ and $\phi 200$ (oval shaped) are available.

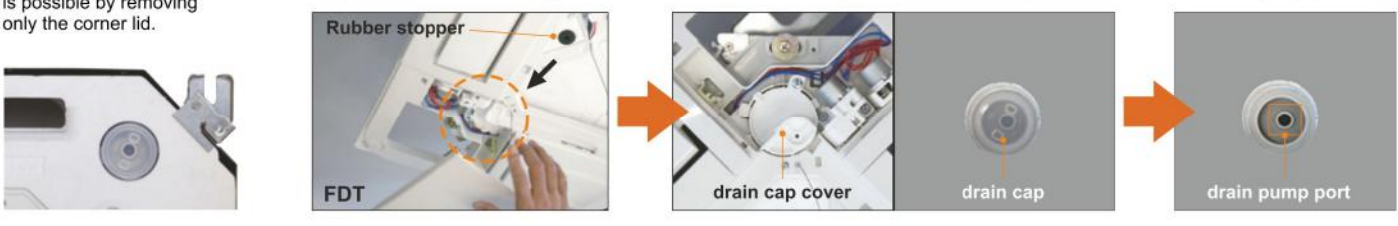



7 Easy check of drain pan FDT

Easy inspection of the condition of the drain pan is possible by removing only the corner lid.

Remove corner lid. Remove drain cap cover and check the condition. It is necessary to clean-up, firstly remove the rubber stopper to drain water out and secondly remove the drain cap.

Clean up the area around the drain pump port.



Rubber stopper

FDT

drain cap cover

drain cap

drain pump port

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



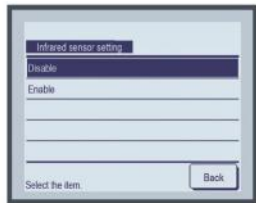
Motion Sensor Control

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

Select Enable / Disable Motion sensor control



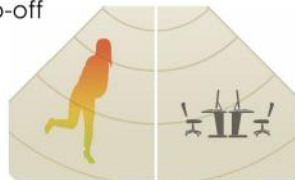
Enable / Disable



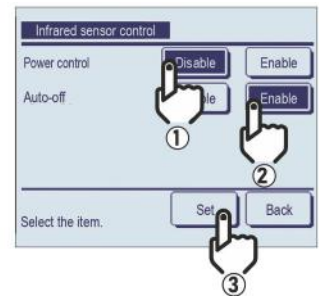
Select Enable / Disable for the motion sensor of the indoor unit connected to the R/C.

Select Enable / Disable per control

- Power control
- Auto-off



Enable / Disable

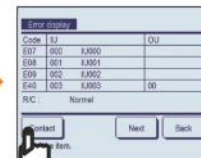
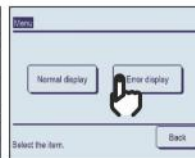
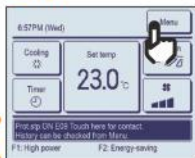


Contact company & Error display

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.



15

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.

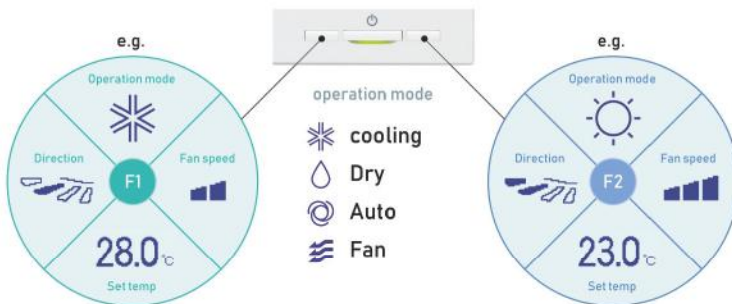


FILTER SIGN

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

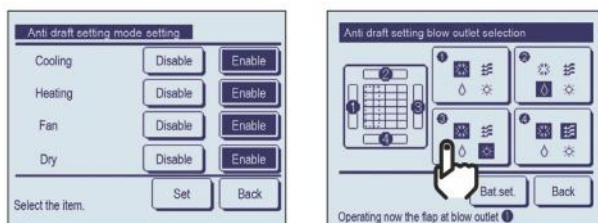
The brightness of the operation lamp behind Run/Stop switch can be adjusted by 10 stages.



Draft Prevention Setting

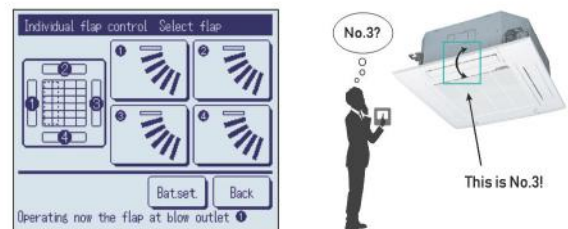
(only FDT series)

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)



RCN-T-5AW-E2 RCN-E2

Wired (Optional)



RC-E5



RCH-E3



RC-EX3A

ECONOMY



Energy Saving



Self Diagnostics

COMFORT



Automatic Operation



Sleep Timer



Motion sensor (optional)



Filter Clean Indicator

AIRFLOW



Automatic Fan



Outside Air Intake



Vertical Auto Swing

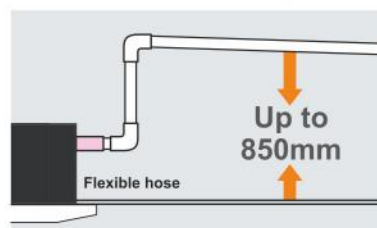


Draft Prevention (optional)

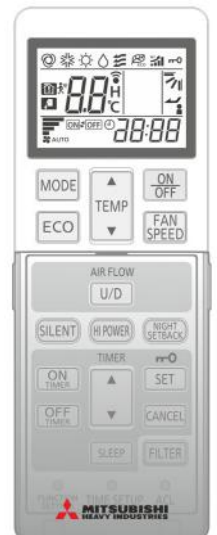


Individual Flap Control (Wired Remote)

850mm Drain Pump



RCN-E2
Standard



Individual Flap Control System

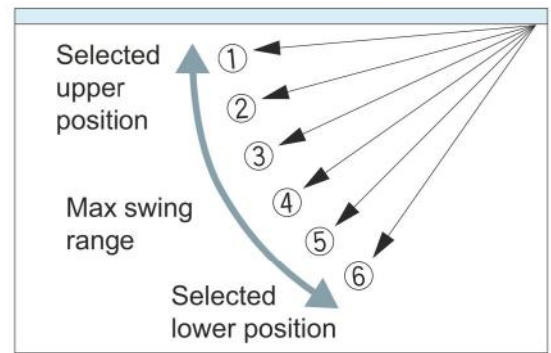
Wired Controller (optional)



RC-E5

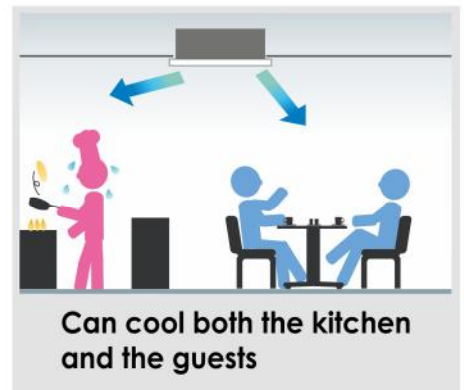
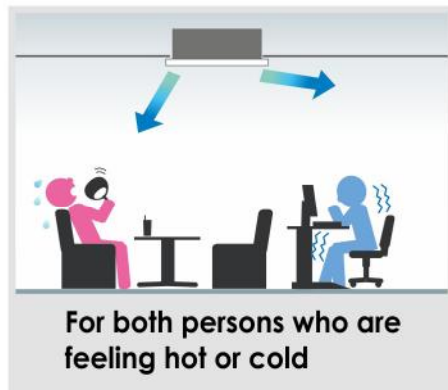
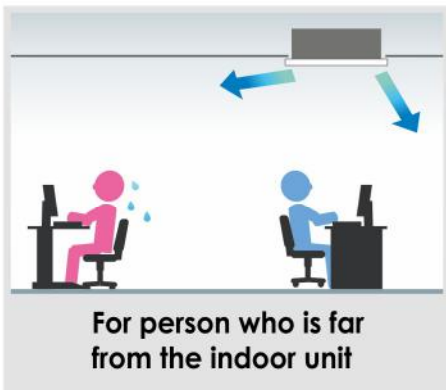


RC-EX3A



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)

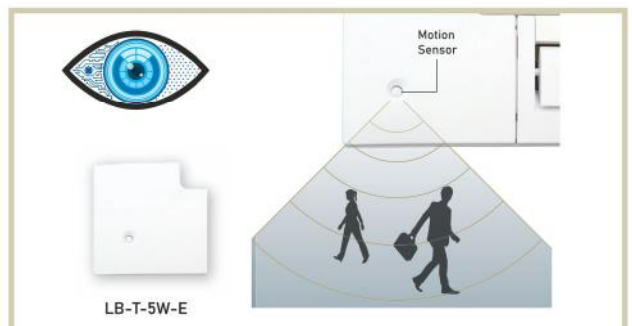
Draft Prevention Panel Prevents cold draft blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.

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.



Draft Prevention Panel

(optional)

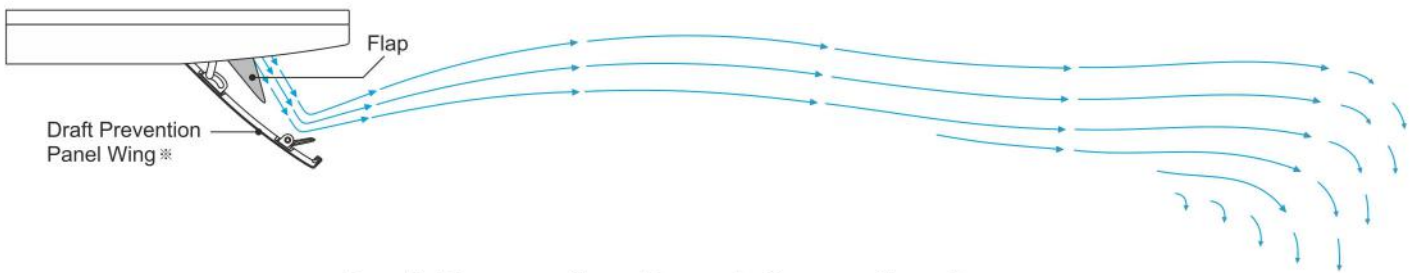


Keep maximum comfort with minimal draft:
New FDT control flaps with more flexibility.



GOOD DESIGN

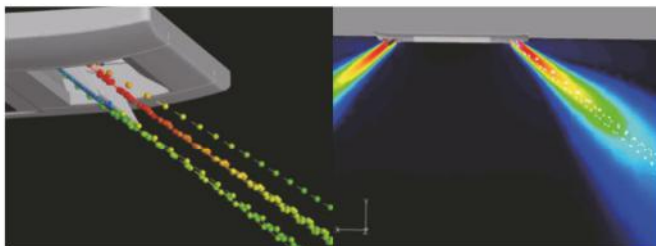
The Good Design Award is Japan's only comprehensive design evaluation and recommendation initiative, originating with the "Good Design Products Selection System" founded in 1957. It is now a global design award with participation from numerous Japanese and international companies and organizations. The "G Mark", the symbol of the Good Design Award, is known widely as a symbol of excellent design. (FDT)



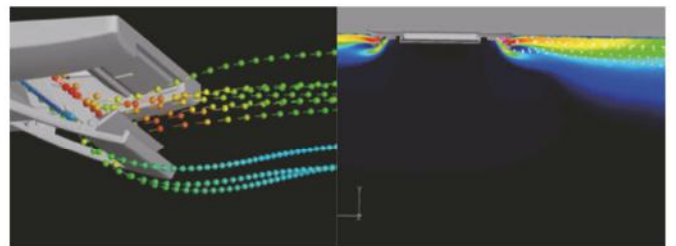
Draft Prevention Panel Operation Image



Draft Prevention Panel off



Draft Prevention Panel Working



Draft Prevention Panel provides a comfortable airflow 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.

Motion Sensor Eye



(optional)

Energy saving operation by detecting human movement

3 Step Control

- 1 Power Control** New motion sensor (option) detects human activity. Energy saving control is achieved by shifting set temperature according to detected amount of activity.
- 2 Stand by** Unit will go on stand-by mode when no activity is detected. When unit will detect activity again, unit will re-start operation automatically.
- 3 Auto Off** Unit will go off automatically when no activity is detected for 12 hours.

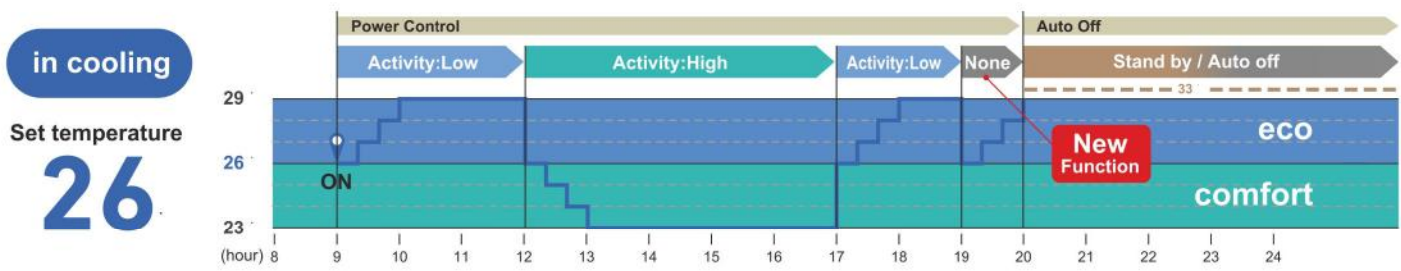
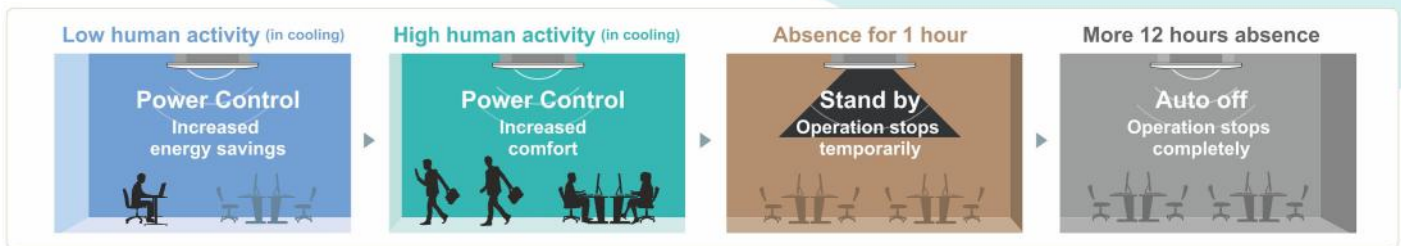
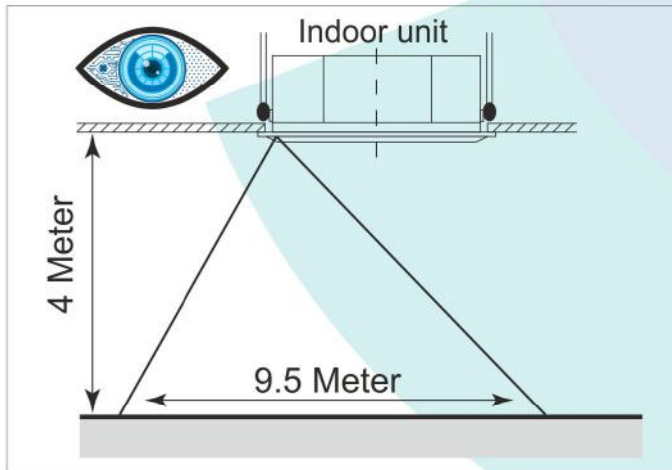
Optional for Models



FDT



FDUM



Operation mode and Control of Motion sensor		eco operation		Operation mode				
		eco operation	comfort operation	Auto	Cool		Dry	Fan
Power Control ※1	Human activity	Low		Cooling +3	+3	+3	-	-
		High		Cooling -3	-3	-3	-	-
		None		Cooling +3	+3	-3	-	-
Auto Off ※2				●	●	●	●	●

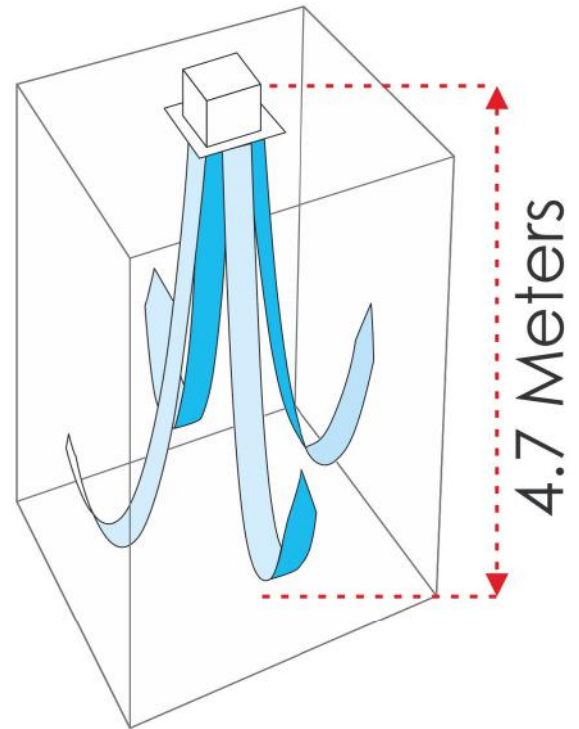
※1 Set temperature is revised maximum ±3°C at Cooling mode by detecting heat volume movement.
 ※2 Absence for 1 hour ⇒ Operation stops (Stand-by) More 12 hours absence ⇒ Operation stops completely

Compact Height



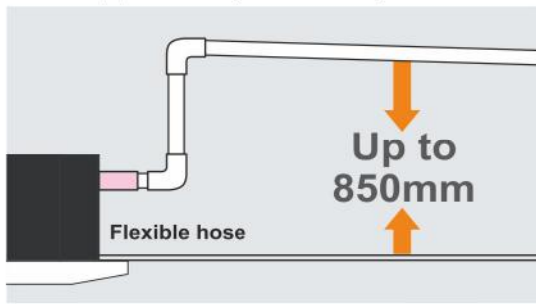
Suitable for High Ceilings

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.

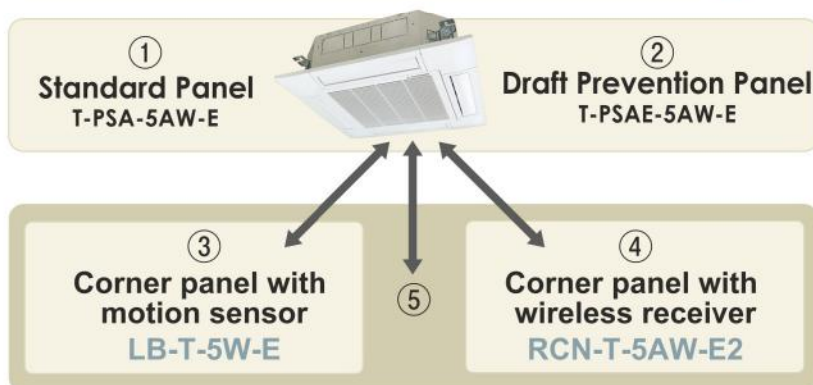


850mm Drain Pump

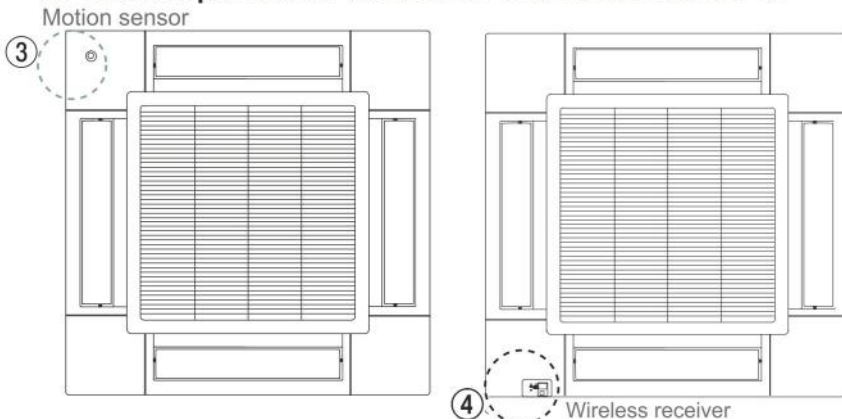
Drain can be discharged upwards up to 850mm from the ceiling surface, allowing a piping layout with a high degree of freedom. Thanks to the 185mm flexible hose, equipment supports easy workability.



Panel Select Pattern (optional)



Installation position of Wireless kit and Motion sensor kit



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

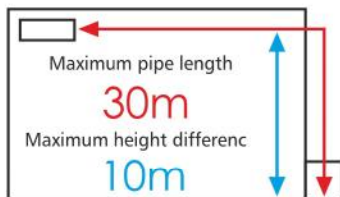
* Wireless receiver and Motion sensor can be installed to the position as shown

SPECIFICATIONS

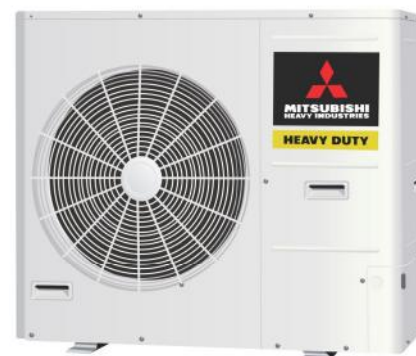
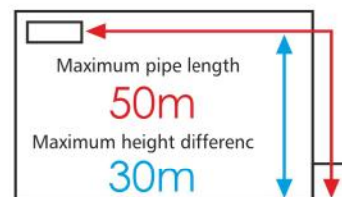
SPECIFICATIONS			HYBRID - CEILING CASSETTE - 4WAY (R410A)			
Unit			FDT50CNV-S6	FDT71CNV-S6	FDT100CSV-S6	FDT125CSV-S6
Model	Indoor Unit		FDT50CNV-S6	FDT71CNV-S6	FDT100CSV-S6	FDT125CSV-S6
	Outdoor Unit		FDC50CNV-S6	FDC71CNV-S6	FDC100CSV-S6	FDC125CSV-S6
Super Tropical - Return cooled Compressor			Rotary		Rotary	Scroll
Type of AC			Heavy Duty AC		Hybrid AC	
Power Source			1 Phase, 220 - 240 V, 50 Hz		3 Phase, 380 - 440 V, 50 Hz	
Rated Cooling Capacity	Ton		1.5	2.1	3.0	3.7
	Watts		5000	7300	10400	13000
	BTU/h		17060	24908	35485	44356
Input Power ** (Minimum - Maximum)	watts		1350 - 1550	2000 - 2250	2580 - 2880	3860 - 4160
Rated EER / COP	W/w		3.23	3.24	3.61	3.13
Air flow	Indoor Unit	CMH	1280 (P-Hi=1320)	1680 (P-Hi=1920)	2050 (P-Hi=2300)	2200 (P-Hi=2500)
Long Reach Airflow Up to	Indoor Unit	Meter	3.65	4.57	5.18	5.18
Sound Level (H/M/L)	Indoor Unit	dB(A)	39 / 38 / 37 / 34	46 / 43 / 39 / 37	44 / 40 / 38 / 34	44 / 41 / 39 / 36
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			
Fan	Indoor Unit		Super Turbo Fan			
DC Fan Motor Speed	Indoor Unit		Powerful - High / High / Medium / Low / Dry			
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	
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)
	Outdoor Unit	Kgs	40	46	79	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 Kgs (Up to 15mtrs.)	1.4 Kgs (Up to 15mtrs.)	2.15 Kgs (Up to 30mtrs.)	2.65 Kgs (Up to 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 mm ² x 3 cores (including earthing)		4 mm ² x 5 cores (including earthing)	
Connecting wiring	B/w IDU & ODU		1.5 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

REFRIGERANT PIPE LENGTH

FDT50CNV-S6 / FDT71CNV-S6



FDT100CSV-S6 / FDT125CSV-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

HYBRID⁺ Ductable

Futuristic Design
Comfort
Control

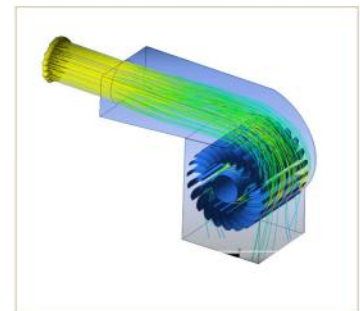
Next Generation



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

Aerodynamic Impeller Design

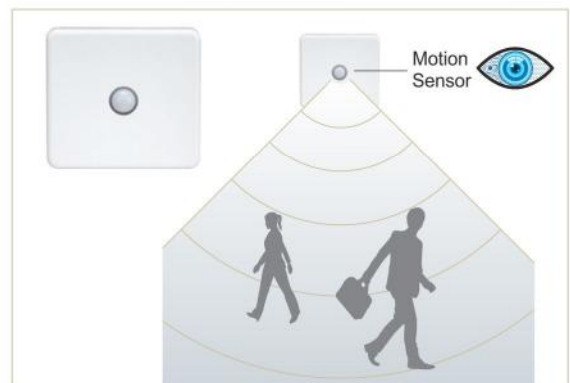
Aerodynamic design of the impeller, produces an even laminar airflow to ensure the highest air flow & air throw at the lowest noise levels.

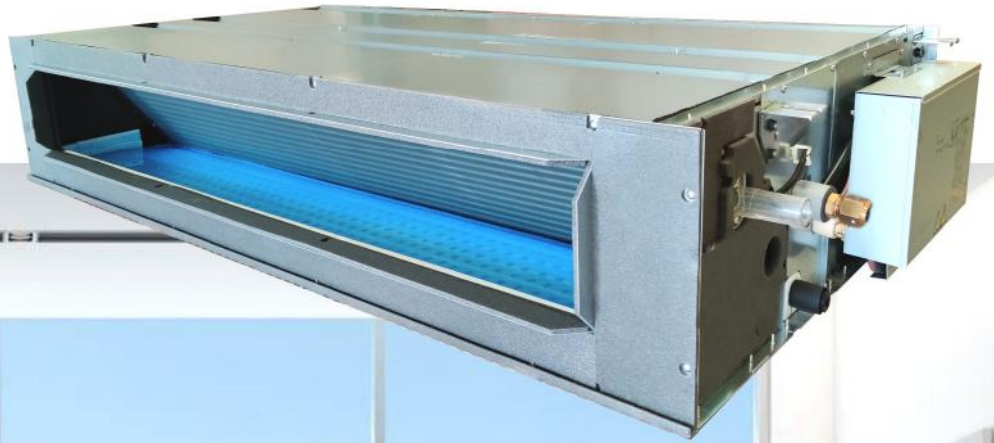


Motion Sensor

(optional)

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





ECONOMY



Energy Saving



Self Diagnostics

COMFORT



Automatic Operation



Sleep Timer



Motion sensor (optional)



Filter Clean Indicator

AIRFLOW



Automatic Fan



Outside Air Intake

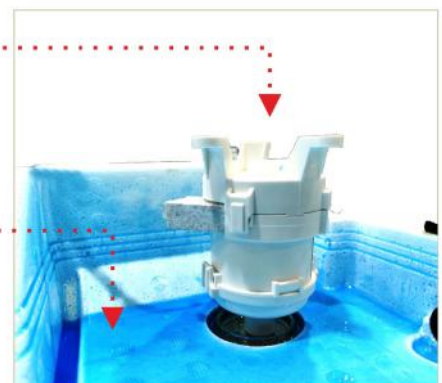
Wireless Remote Control

Infrared Wireless Remote Controller is sleek, versatile and allows you to control all the functions of your Ductable AC with ease. The large LCD display and buttons make it easy-to-understand and easy-to-use.



Built in Drain Pump

Drain Tray with Polyurethane Ethoxyline Resin Coating



Automatic External Static Pressure Control

(optional)

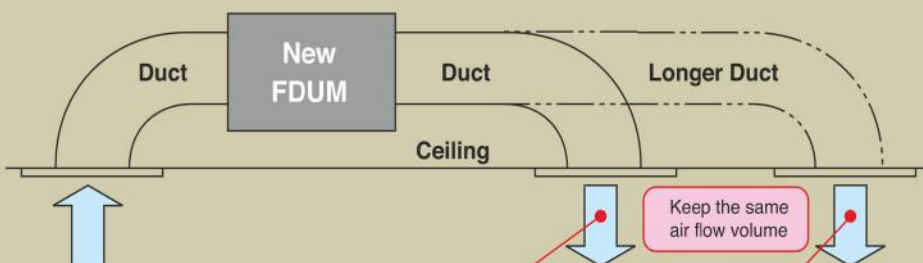


Automatic External Static Pressure (E.S.P.) Control

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.



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)

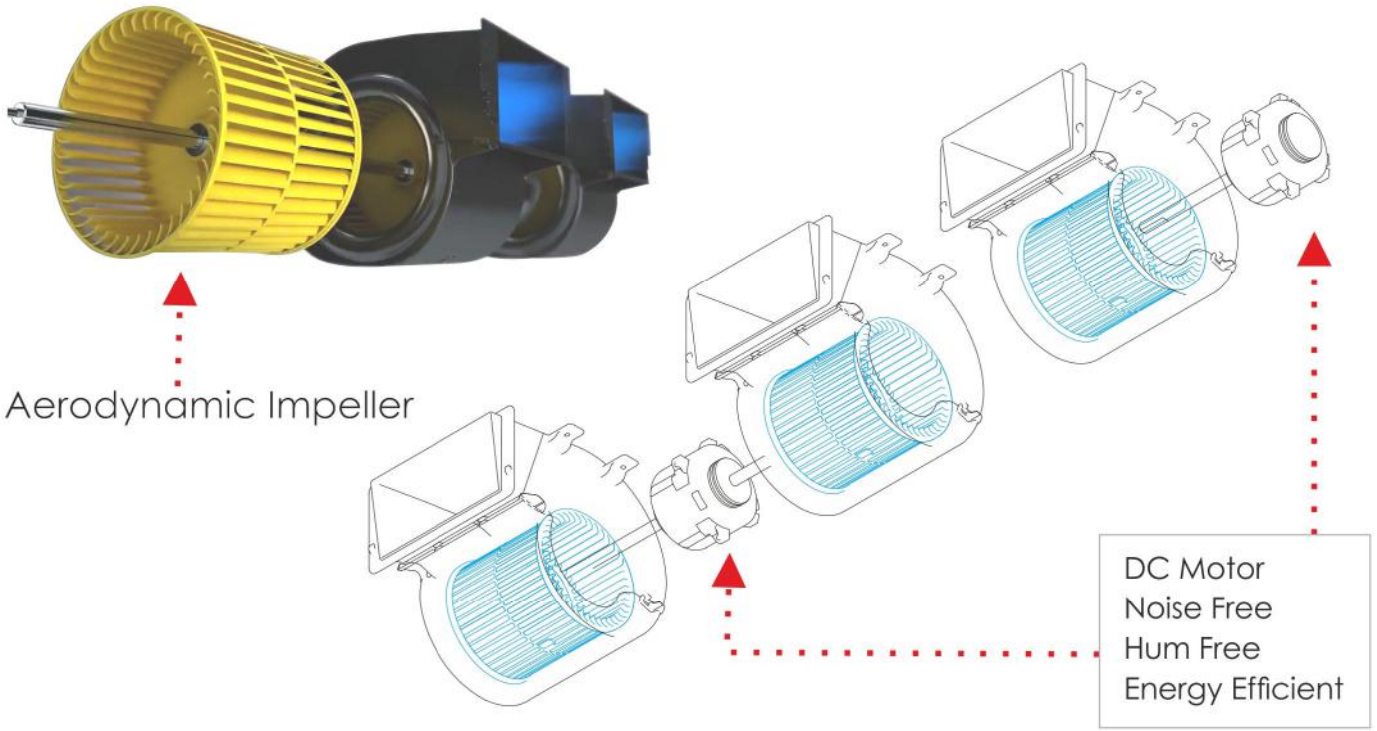


RC-E5

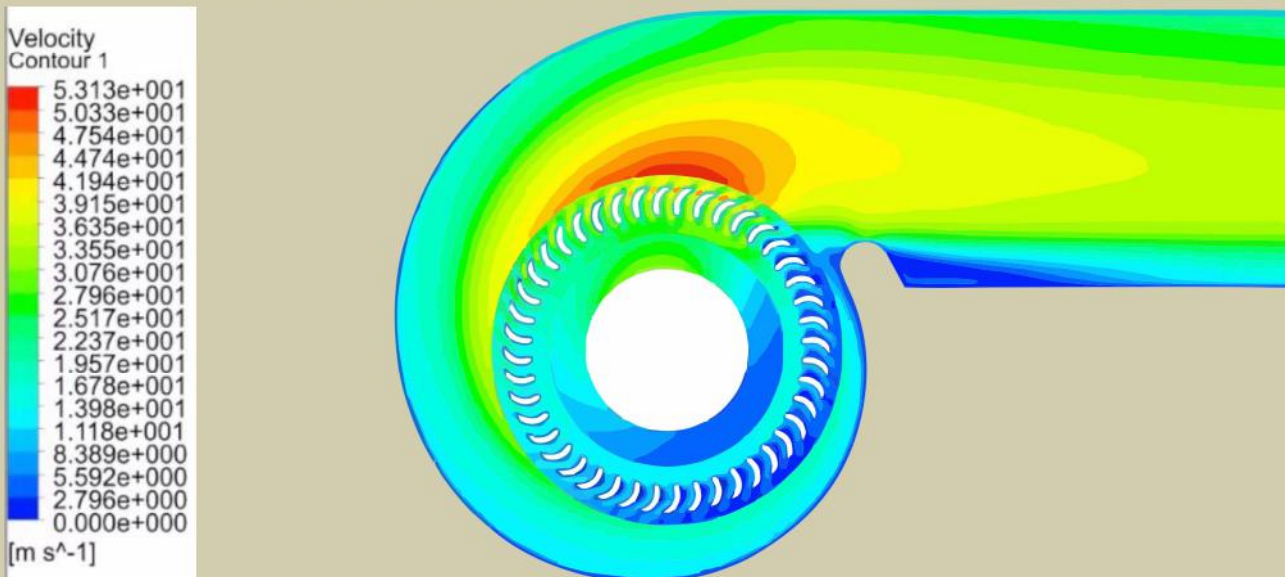


RC-EX3A

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

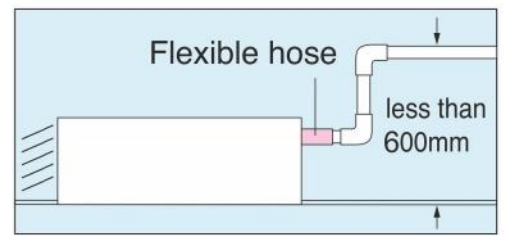


CFD (computational fluid dynamics), used in blade shape design of jet engines, has been applied to the design of air channels in the impeller of the air conditioners to develop the ideal air channels system for air movement. The air flow of the jets created in this system enables a large volume of air 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.

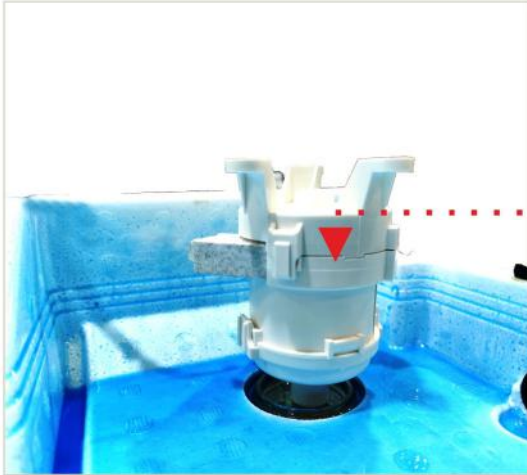


Built in Drain Pump

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.

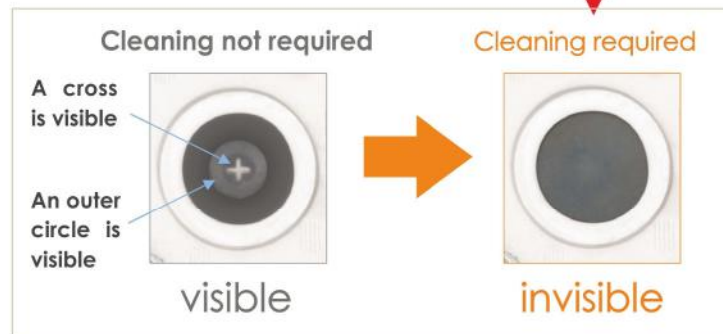


600MM DRAIN PUMP



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



SPECIFICATIONS

SPECIFICATIONS		HYBRID - DUCTABLE MEDIUM STATIC - FDUM SERIES (R410A)				
Unit		FDUM50CNV-S6	FDUM71CNV-S6	FDUM100CSV-S6	FDUM125CSV-S6	
Model	Indoor Unit	FDUM50CNV-S6	FDUM71CNV-S6	FDUM100CSV-S6	FDUM125CSV-S6	
	Outdoor Unit	FDC50CNV-S6	FDC71CNV-S6	FDC100CSV-S6	FDC125CSV-S6	
Super Tropical - Return cooled Compressor		Rotary		Rotary	Scroll	
Type of AC		Heavy Duty AC		Hybrid AC		
Power Source		1 Phase, 220 - 240 V, 50 Hz		3 Phase, 380 - 440 V, 50 Hz		
Rated Cooling Capacity	Ton	1.5	2.0	3.0	3.7	
	Watts	5000	7100	10400	13000	
	BTU/h	17060	24225	35485	44356	
Input Power ** (Minimum - Maximum)	watts	1400 - 1613	2000 - 2290	2900 - 3100	4000 - 4460	
Rated EER / COP	W/w	3.10	3.10	3.10	2.91	
Air flow	Indoor Unit	CMH	600 (P-Hi=800)	1200 (P-Hi=1440)	1950 (P-Hi=2340)	2200 (P-Hi=2880)
Long Reach Airflow Upto	Indoor Unit	Meter	2.43	3.65	6.09	6.09
Sound Level (H/M/L)	Indoor Unit	dB(A)	35 / 31 / 29 / 27	38 / 33 / 31 / 29	42 / 36 / 32 / 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			
DC Fan Motor Speed	Indoor Unit		Powerful - High / High / Medium / Low / Dry			
External Static Pressure E.S.P. (Pascal) #	Indoor Unit	Pa	Standard = 35 Pa / Max = 100 Pa		Standard = 60 Pa / Max = 100 Pa	
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	34	36	53	53
	Outdoor Unit	Kgs	42	46	79	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 Kgs (Upto 15mtrs.)	1.4 Kgs (Upto 15mtrs.)	2.15 Kgs (Upto 30mtrs.)	2.65 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		1.5 mm2 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

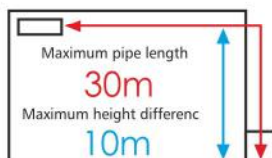
FILTER KIT (OPTIONAL)

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

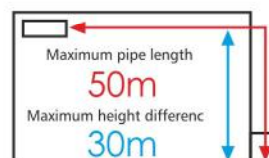


REFRIGERANT PIPE LENGTH

FDUM50CNV-S6 / FDUM71CNV-S6



FDUM100CSV-S6 / FDUM125CSV-S6



Wireless Remote
RCN-KIT4-E2
Standard



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

HYBRID+ TOWER

Futuristic Design
Comfort
Control!

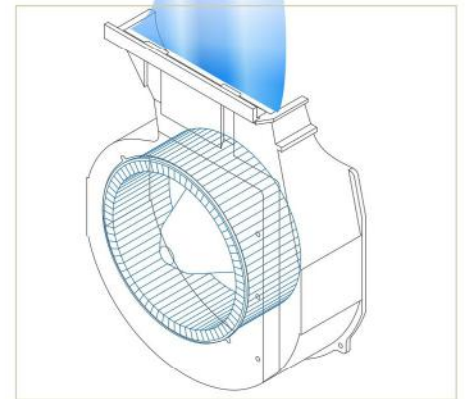
Next Generation



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

Aerodynamic Impeller Design

Aerodynamic design of the impeller, produces an even laminar airflow to ensure the highest air flow & air throw at the lowest noise levels.



Wireless Remote Control

Infrared Wireless Remote Controller is sleek, versatile and allows you to control all the functions of your Floor Standing AC with ease. The large LCD display and buttons make it easy-to-understand and easy-to-use.





Auto Horizontal Swing

Auto horizontal swing enables wide and powerful airflow, increase your comfort, realizing high efficiency in combination with our highly advanced outdoor units



Easy Installation

EASY TRANSPORTATION AND INSTALLATION WORKABILITY

Piping and drain hose connection can be selected out of 4 directions and the selection makes installation workability more effective. Due to slim design (Depth:320mm), easy transportation and installation is possible.

Easy Maintenance

The surface of heat exchanger can be visible on removing the front panel. Easy cleaning of heat exchanger is possible.



HYBRID+ TOWER

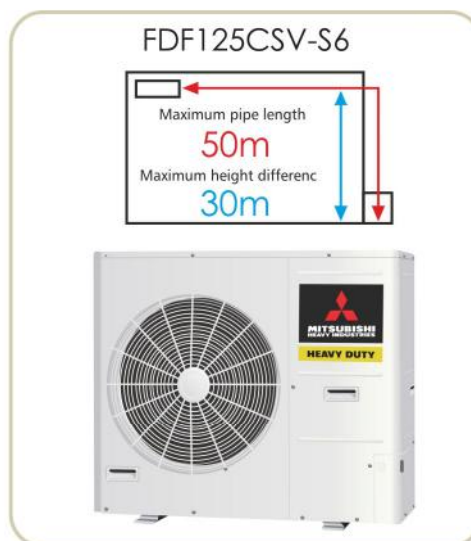
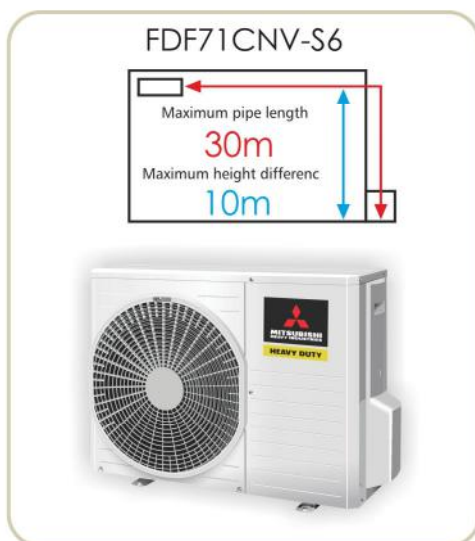


SPECIFICATIONS

SPECIFICATIONS			HYBRID - TOWER AC (R410A)	
Unit			FDF71CNV-S6	FDF125CSV-S6
Model	Indoor Unit		FDF71CNV-S6	FDF125CSV-S6
	Outdoor Unit		FDC71CNV-S6	FDC125CSV-S6
Super Tropical - Return cooled Compressor			Rotary	Scroll
Type of AC			Heavy Duty AC	Hybrid AC
Power Source			1 Phase, 220 - 240 V. 50Hz	3 Phase, 380 - 440 V. 50Hz
Rated Cooling Capacity	Ton		2.0	3.70
	Watts		7100	12500
	BTU/h		24225	42650
Input Power ** (Minimum - Maximum)			watts	2300 - 2500
Rated EER / COP			W/w	2.84
Air flow	Indoor Unit	CMH	2250	2700
Long Reach Airflow Upto	Indoor Unit	Meter	9.14	12.19
Sound Level (H/M/L)	Indoor Unit	dB(A)	48 / 40 / 35	51 / 41 / 37
Louver Swing	Indoor Unit		Yes (Vertical)	
Remote Control	Indoor Unit		Standard - Wireless Remote Controller Included + Controller Inbuilt on Indoor unit	
Self Diagnosis Function	Indoor Unit		Yes	
Filter	Indoor Unit		Anti- Bacterial	
Fan	Indoor Unit		Impaler Fan	
DC Fan Motor Speed	Indoor Unit		High / Medium / Low / Dry	
External Static Pressure E.S.P. (Pascal)#	Indoor Unit	Pa	Not Applicable	
Dimension (H x W x D)	Indoor Unit	mm	1850 x 600 x 320	1850 x 600 x 320
	Outdoor Unit		640 x 800 (+71) x 290	845 x 970 x 370
Weight	Indoor Unit	Kgs	51	53
	Outdoor Unit	Kgs	46	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	1.4 Kgs (Upto 15mtrs.)	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= 15mtrs
Main Power Supply to	Outdoor Unit		2.5 mm ² x 3 cores (including earthing)	4 mm ² x 5 cores (including earthing)
Connecting wiring	B/w IDU & ODU		1.5 mm ² x 4 cores (including earthing)	
Area Coverage ***		Sq.Meter	18.58 - 27.87	37.16 - 46.45

REFRIGERANT PIPE LENGTH

Wireless Remote Standard



** 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.

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Our factories are ISO9001 and ISO14001 certified.

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