MITSUBISHI HEAVY INDUSTRIES

AIR CONDITIONERS

HEAVY DUTY

HYPER INVERTER

Cassette | Ductable

Cooling Only

Next Generation High Performance Airconditioning

Country of Origin : Thailand

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HEAVY DUTY

HYPER INVERTER
Cooling Only

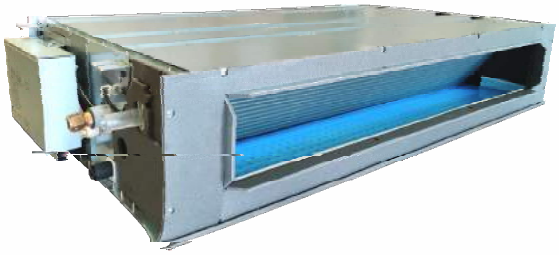
Next Generation High Performance Airconditioning

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.

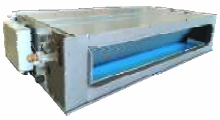
CONTENTS

CASSETTE

DUCTABLE

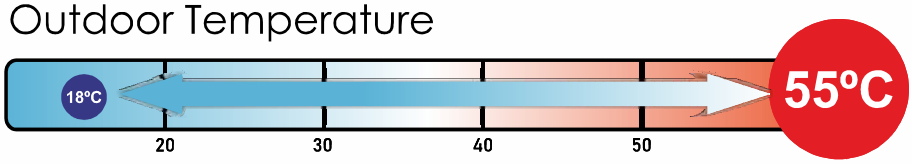


HYPER - INVERTER PAC

TYPE		CAPACITY						
	Ton	1.22	1.5	1.73	2.0	3.0	3.5	4.0
	KW	4.3	5.3	6.10	7.1	10.5	12.5	14.0
 CASSETTE	Indoor	–	–	–	FDT71YA-W6	FDT100YA-W6	FDT125YA-W6	FDT140YA-W6
	Outdoor	–	–	–	FDC71YNA-W6	FDC100YNA-W6	FDC125YNA-W6	FDC140YNA-W6
 DUCTABLE	Indoor	FDUM40YA-W6	FDUM50YA-W6	FDUM60YA-W6	FDUM71YNA-W6	FDU100YA-W6	FDU125YA-W6	FDT140YA-W6
	Outdoor	FDC40YNA-W6	FDC50YNA-W6	FDC60YNA-W6	FDC71YNA-W6	FDC100YNA-W6	FDC125YNA-W6	FDC140YNA-W6
OUTDOOR UNIT								

Design Condition

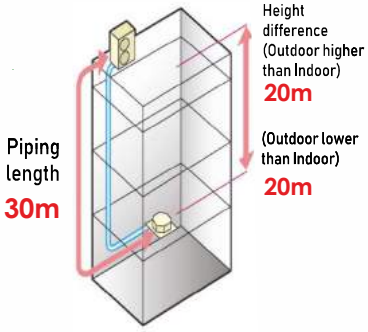
Outdoor Temperature



ROTARY COMPRESSOR

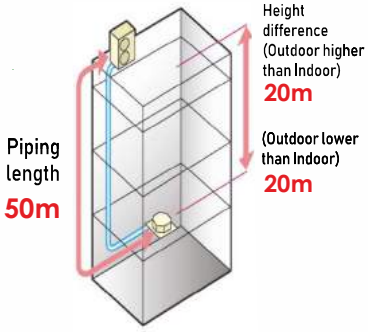
HIGHEST EFFICIENCY TWIN ROTARY COMPRESSOR

FDC71YA-W6



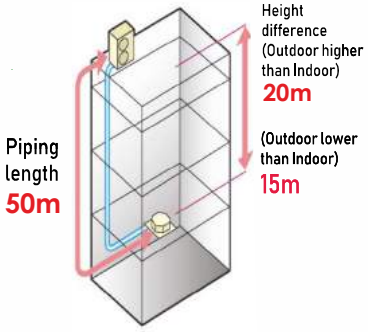
Pre-Charge piping length: **10m**

FDC100YA-W6



Pre-Charge piping length: **15m**

FDC125YA-W6 / FDC140YA-W6



Pre-Charge piping length: **30m**

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.

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.

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.

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.

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

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.

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.

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.

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

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.	○	○
Comfort	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.	○	
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.	○	
Air flow	Vertical Auto Swing	The vertical louvers on your unit will move up and down continuously during operation. This function allows you to set the up/down swing position of the louver to your preferred operation angle.	○ Option	
Air flow	Automatic Fan Speed	The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.	○	○
Timer	Sleep Timer	This function allows you to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate before switching off.	○	○
Timer	Weekly Timer	Set your unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.	○	○
Convenient	Function Switch ✱	From the seven available functions on the unit, this function allows you to set two functions to operate automatically.	○	○
Convenient	Favorite setting ✱	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.	○	○
Convenient	Select the language ✱	Set the language to be displayed on the remote control.	○	○
Convenient	Air Filter	The air filter in the unit traps and removes airborne dust particles and other allergens to provide you with a clean air.	○	○ Option
Convenient	Filter Clean Indicator	This warning alerts you as to when the filter needs to be cleaned.	○	○
Convenient	Outside Air Intake	This function provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.	○	○
Others	Self Diagnostics	The internal microcomputer automatically runs a diagnostic of the system in the event of a malfunction. This enables your authorised dealer to isolate and repair any issues.	○	○
Others	Built in Drain Pump	The built-in drain pump, allows greater flexibility with installation, offering a great solution for applications with limited space.	○	○
Others	Improved Serviceability	The fan unit (comprised of impeller and motor) is easily accessible from either the side or bottom of the unit and can be slid out for easy maintenance.		○

- FROST PREVENTION FOR HEAT EXCHANGER
- INDOOR FAN MOTOR PROTECTION
- ABNORMALITY OF OUTDOOR UNIT
- DRAIN WATER SPIL PROTECTION
- COMPRESSOR OVERHEAT PROTECTION
- SIGNAL TRANSMISSION ERROR PROTECTION

- SENSOR DISCONNECTION PROTECTION
- ROOM TEMPERATURE SENSOR
- INDOOR HEAT EXCHANGER TEMPERATURE SENSOR
- OUTDOOR HEAT EXCHANGER TEMPERATURE SENSOR
- DISCHARGE PIPE TEMPERATURE SENSOR
- OUTDOOR AIR TEMPERATURE SENSOR

HYPER INVERTER Cassette
Cooling Only

Futuristic Design
Comfort
Control

Next Generation

Aerodynamic Vane Design

Draft Prevention Panel

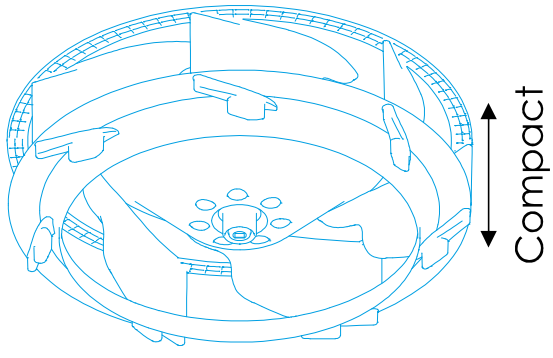
Motion Sensor

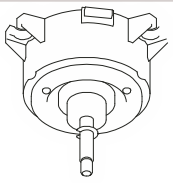
Next Generation High Performance Airconditioning

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.

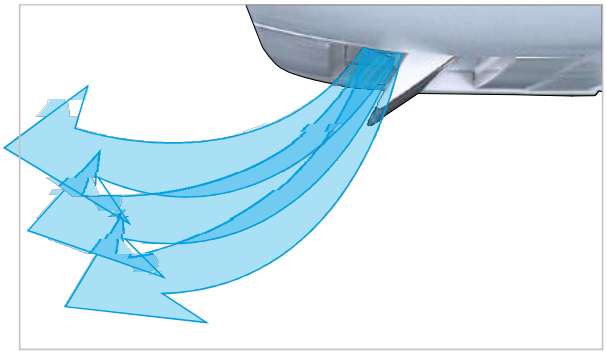




DC Motor
Noise Free
Hum Free
Energy Efficient

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.



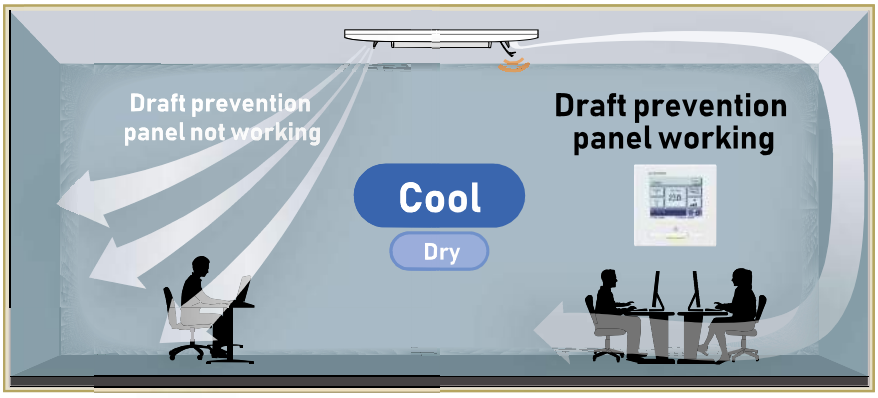
HYPER INVERTER AC gives 1.3 times bigger area coverage compared to Conventional AC & still gives electricity saving

Draft Prevention Panel

(optional)

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

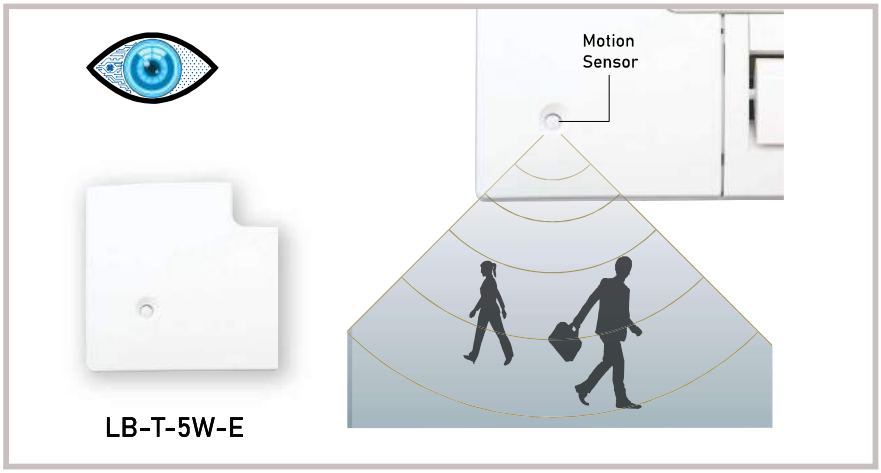
Draft Prevention Panel Prevents cold draft blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet. User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3A, LA-T-5BW-E1).



Motion Sensor

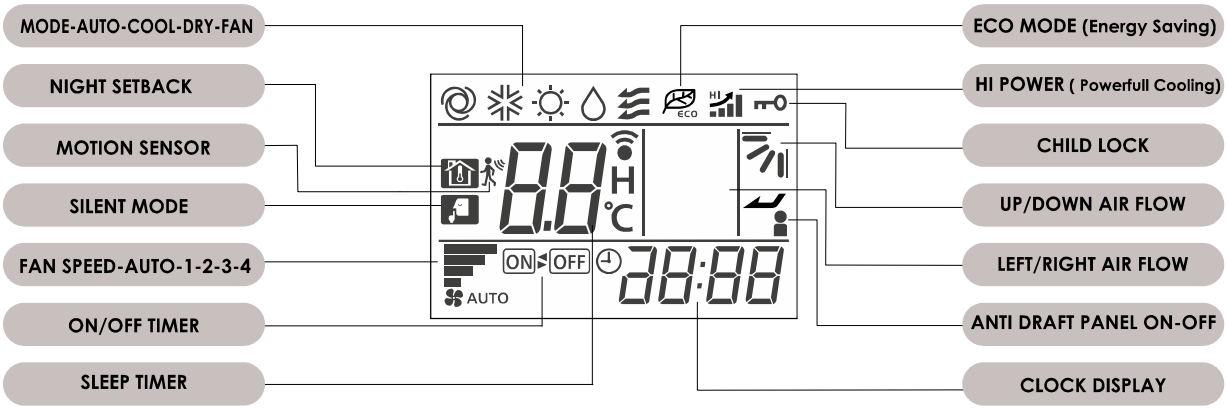
(optional)

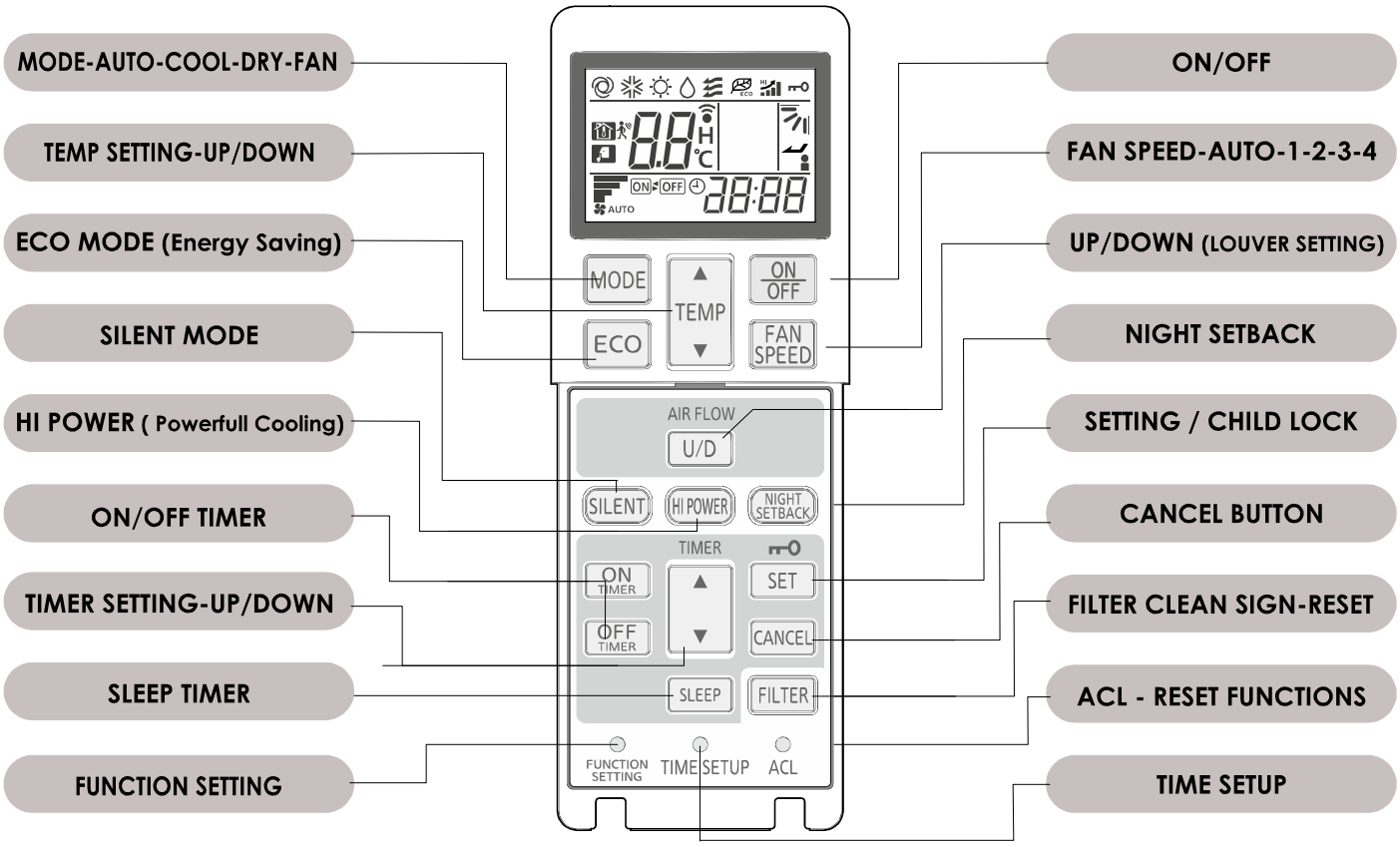
Motion sensor is equipped in the panel corner and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



WIRELESS REMOTE CONTROLLER

RCN-E2B/1
Standard



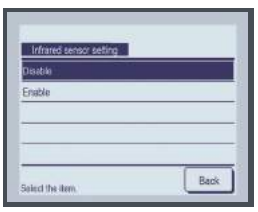


Motion Sensor Control

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

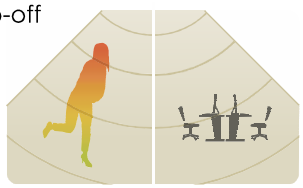
Select Enable / Disable Motion sensor control

Enable / Disable

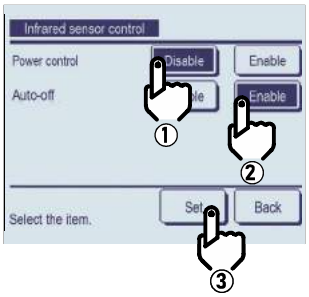


Select Enable / Disable for the motion sensor of the indoor unit connected to the R/C.

Select Enable / Disable per control
- Power control
- Auto-off

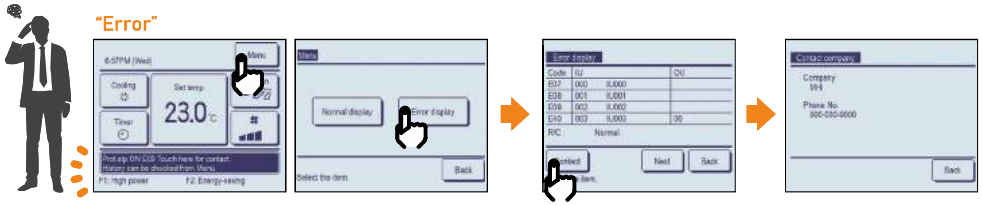


Enable / Disable



Contact company & Error display

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



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

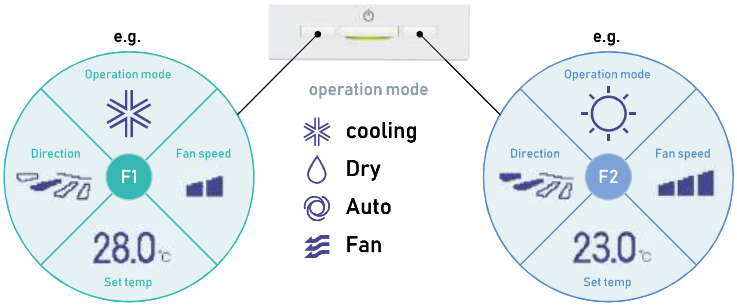
Operation mode, set temperature, fan speed and air flow direction are automatically adjusted to the programmed favorite setting.

FITTER SIGN

Announces the due time for cleaning the air filter.

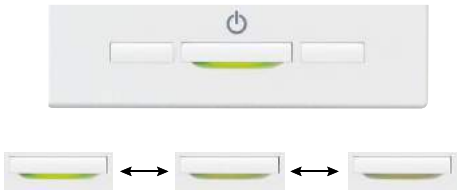
Favourite Mode

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

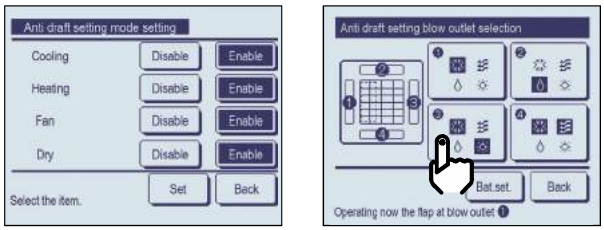
The brightness of the operation lamp behind Run/Stop switch can be adjusted by 10 stages.



Draft Prevention Setting

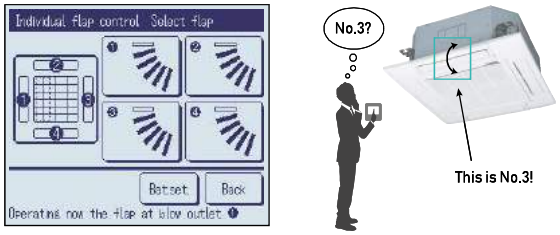
(only FDT series)

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.



HYPER INVERTER Cassette

Cooling Only

4 Way

Futuristic Design
Comfort
Control

SILENT

65 %* Saving Electricity

EEV

ECONOMY COMFORT AIRFLOW

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

REMOTE CONTROL

Wireless (Standard)

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

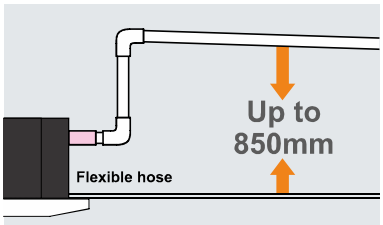
Wired (Optional)

RC-E5

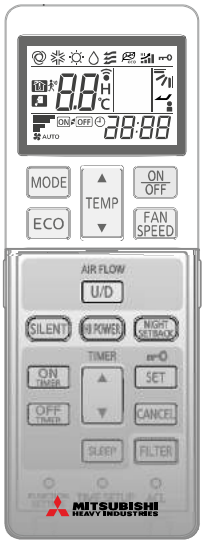
RCH-E3

RC-EX3A

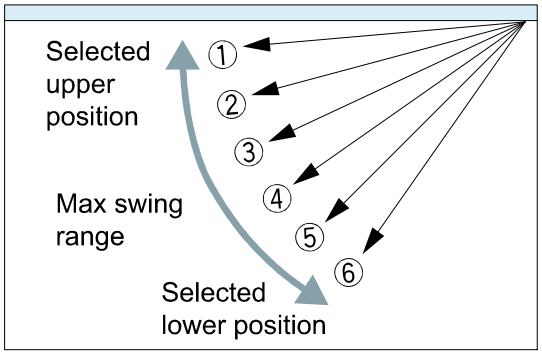
850mm Drain Pump



RCN-E2B/1
Standard



Individual Flap Control System



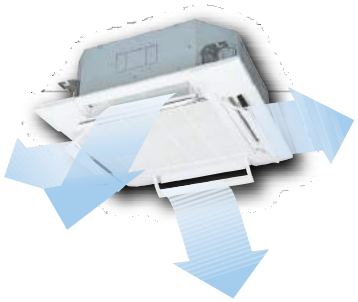
The wireless remote control is not applicable to the Individual flap control system.

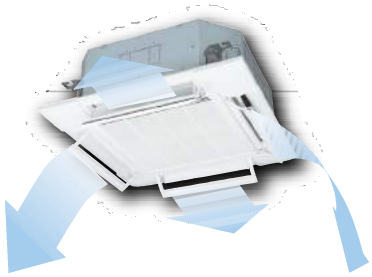
Wired Controller (optional)

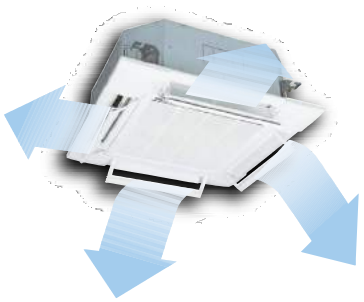
RC-E5

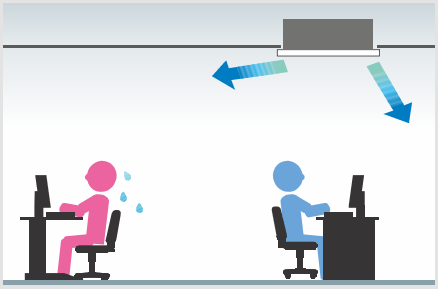
RC-EX3A

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

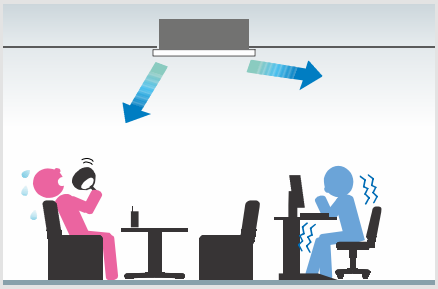




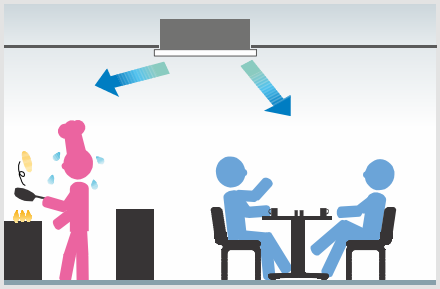




For person who is far from the indoor unit



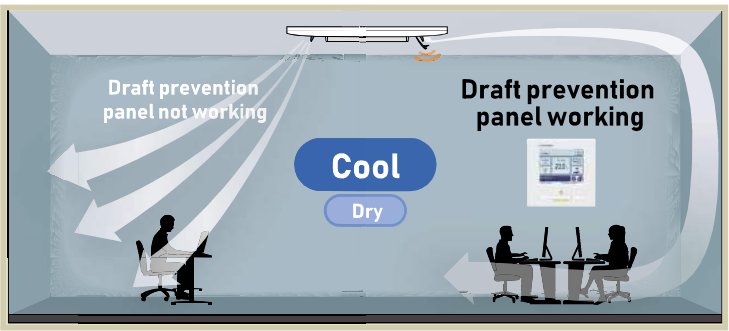
For both persons who are feeling hot or cold



Can cool both the kitchen and the guests

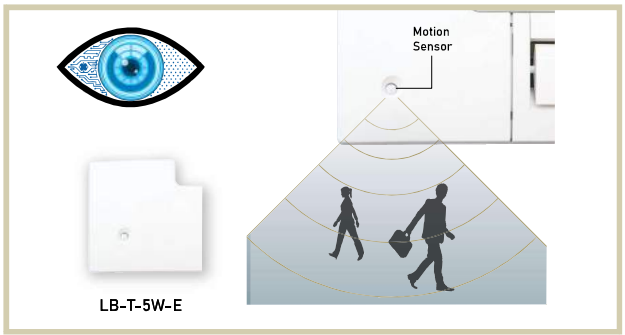
Draft Prevention Panel (optional)

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.



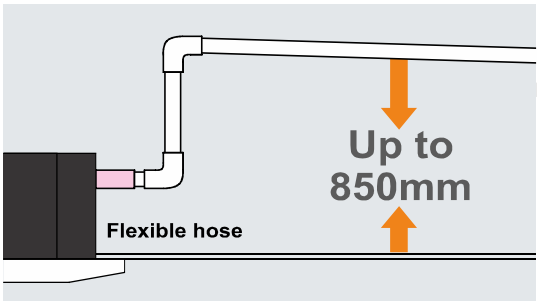
Compact Height

FDT71YA-W6

FDT100YA-W6
FDT125YA-W6
FDT140YA-W6

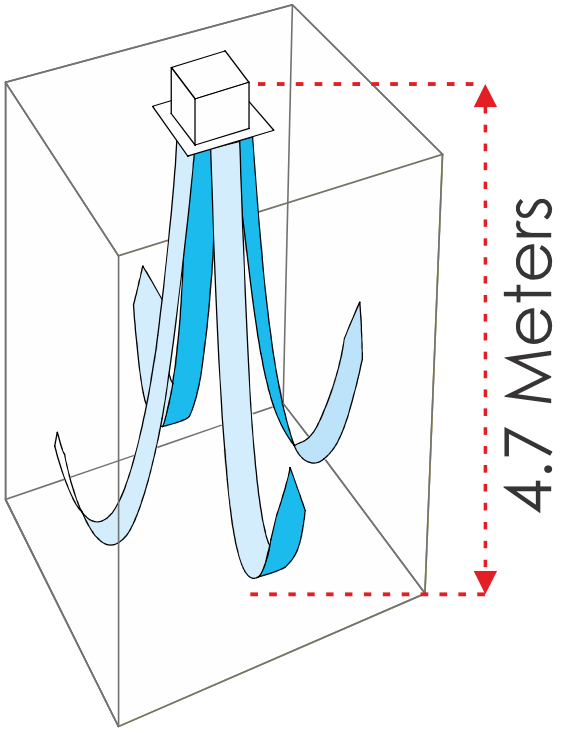
850mm Drain Pump

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

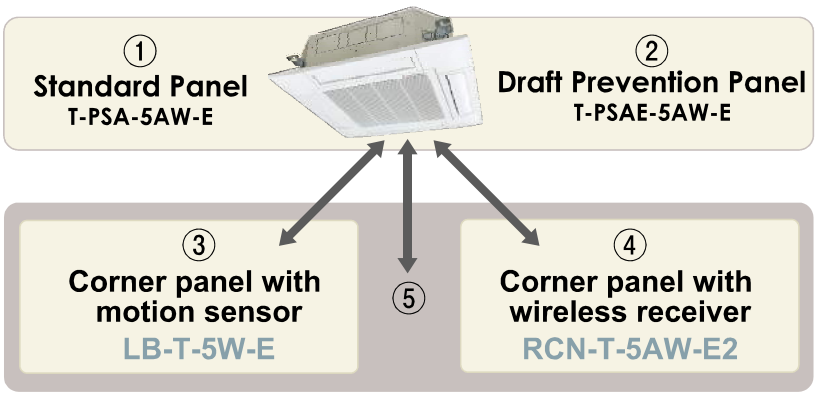


Suitable for High Ceilings

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.



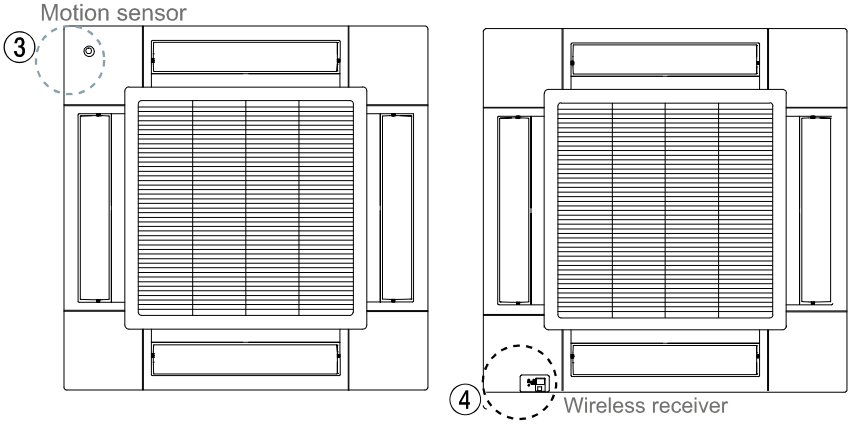
Panel Select Pattern (optional)



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**

Installation position of Wireless kit and Motion sensor kit



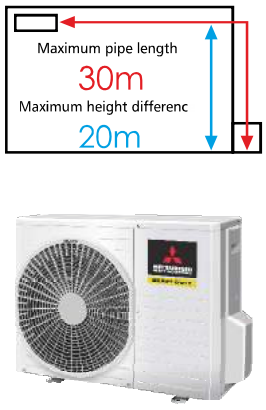
* Wireless receiver and Motion sensor can be installed to the position as shown

SPECIFICATIONS

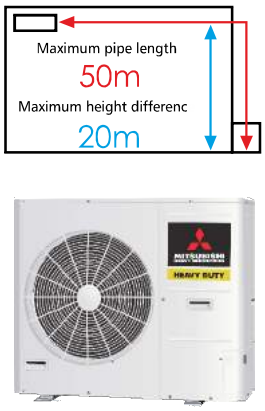
SPECIFICATIONS			ECO SMART - HYPER INVERTER CASSETTE AC - COOLING ONLY (R32)			
Model			FDT71YA-W6	FDT100YA-W6	FDT125YA-W6	FDT140YA-W6
Unit	Indoor Unit		FDT71YA-W6	FDT100YA-W6	FDT125YA-W6	FDT140YA-W6
	Outdoor Unit		FDC71YNA-W6	FDC100YNA-W6	FDC125YNA-W6	FDC140YNA-W6
Ton - Cooling Only (minimum ~ maximum)			2.1 (0.37Ton ~ 2.2Ton)	3.0 (0.56Ton ~ 3.3Ton)	3.55 Ton (0.88 Ton ~ 3.64 Ton)	4.0 Ton (0.90 Ton ~ 4.12 Ton)
BEE STAR RATING - 2023			4 Star	4 Star	5 STAR	5 STAR
Super Tropical Compressor Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
VFD - Variable Frequency Drive			Inverter Vector Control Technology for Higher Efficiency		Inverter Vector Control Technology for Higher Efficiency	
Minimum Compressor RPM			15 ~ 30 RPM - Using Vector Control Technology		15 ~ 30 RPM - Using Vector Control Technology	
Refrigerant Volume Control Using			Motorized Electronic Expansion Valve for Variable Refrigerant		Motorized Electronic Expansion Valve for Variable Refrigerant Flow	
Compressor Controller			iPM (Intelligent Power Module with Artifical Intelligence)		iPM (Intelligent Power Module with Artifical Intelligence)	
Power Source			1 Phase, 220 / 230 V, 50 Hz		1 Phase, 220 / 230 V, 50 Hz	
Maximum Cooling Capacity **		BTU/hr	26272	39238	43674	49474
Rated Cooling Capacity (100% Load)		BTU/hr	24822	36508	42650	47812
Rated Cooling Capacity (50% Load)		BTU/hr	11840	18169	21308	25802
Maximum Cooling Capacity **		Watts	7700	11500	12800	14500
Rated Cooling Capacity (100% Load)		Watts	7275	10700	12500	14013
Rated Cooling Capacity (50% Load)		Watts	3470	5325	6245	7562
Rated Power Consumption (100% Full Load)		watts	1985	2860	3870	4414
Rated Power Consumption (50% Half Load)		watts	628	990	1200	1411
Rated EER (100% Load)		W/w	3.7	3.7	3.23	3.17
Rated EER (50% Load)		W/w	5.5	5.4	5.2	5.4
Rated Indian Seasonal Energy Efficiency Ratio		ISEER	4.92	4.88	4.48	4.56
Current (minimum ~ maximum) **		A	1.0 ~ 9.1	2 ~ 12.8	3 ~ 17.6	3.2 ~ 20.2
Input Power ** (Minimum - Maximum)		watts	250 - 1985	350 - 2860	650 ~ 3870	700 ~ 4400
Air flow (P-Hi)	Indoor Unit	CMH	1750	2220	2280	2280
Long Reach Airflow Upto	Indoor Unit	Meter	4.57	5.18	6.00	6.70
Sound Level (H/M/L)	Indoor Unit	dB(A)	46 /34/ 32/ Ulo-27	47 / 39 / 36 / Ulo - 30	48 / 39 / 37 / 30	49 / 42 / 39 / 32
Louver Swing	Indoor Unit		Yes (Individual Flap Control System Possible in Wired Controller)		Yes (Individual Flap Control System Possible in Wired Controller)	
Remote Control	Indoor Unit		Standard - Wireless Remote Controller Included / Wired Controller Optional		Standard - Wireless Remote Controller Included / Wired Controller Optional	
Self Diagnosis Function	Indoor Unit		Yes		Yes	
Filter	Indoor Unit		Anti- Bacterial		Anti- Bacterial	
Fan	Indoor Unit		Super Turbo Fan		Super Turbo Fan	
DC Fan Motor Speed	Indoor Unit		Powerful - High / High / Medium / Low / Dry		Powerful - High / High / Medium / Low / Dry	
External Static Pressure E.S.P. (Pascal)#	Indoor Unit	Pa	Not Applicable		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	Unit : 298 x 840 x 840 Panel : 35 x 950 x 950	
	Outdoor Unit		640 x 800 (+71) x 290	750 x 880 (+88) x 340	845 x 970 x 370	845 x 970 x 370
Weight	Indoor Unit	Kgs	26.0 (Unit:21 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	37	51	67.5	68
Refrigerant			R32		R32	
Refrigerant Piping	Liquid	mm / inch	6.35 (1/4")	**IDU Side: 9.52 (3/8") / Reducer /ODU Side: 6.35 (1/4")**	9.52 (3/8")	9.52 (3/8")
	Gas	mm / inch	**12.7 (1/2")**	**15.88 (5/8")**	**15.88 (5/8")**	**15.88 (5/8")**
Precharged Refrigerant		Kgs	1.05 Kgs (for piping length upto 10mtrs)	1.55 Kgs (for piping length upto 15mtrs)	1.7 Kgs (for piping length upto 30mtrs)	1.7 Kgs (for piping length upto 30mtrs)
Charging requirement	per mtrs	grams	25 grams (Above 10/15mtrs upto 30 mtrs) - Check with		25 grams (Above 15mtrs upto 30 mtrs) - Check with Service Engg.	
Maximum Piping Length		Mtrs	30 mtrs / 100 feet	50 mtrs / 165 feet	50 mtrs / 165 feet	50 mtrs / 165 feet
Vertical Height Difference		Mtrs	Outdoor- Higher = 20 mtrs / Lower = 20 mtrs	Outdoor- Higher = 20 mtrs / Lower = 20 mtrs	Outdoor- Higher = 20 mtrs / Lower = 20 mtrs	Outdoor- Higher = 20 mtrs / Lower = 15 mtrs
Main Power Supply to	Outdoor Unit		2.5 mm2 x 3 cores (including earthing)	6.0 mm2 x 5 cores (including earthing)	8.0 mm2 x 5 cores (including earthing)	8.0 mm2 x 5 cores (including earthing)
Connecting wiring	B/w IDU & ODU		2.5 mm2 x 4 cores (including earthing)		2.5 mm2 x 4 cores (including earthing)	
Area Coverage ***	Sq.Meter		22.50 ~ 25.54	25.54 ~ 32.51	32.51 ~ 39.50	39.49 ~ 46.46

REFRIGERANT PIPE LENGTH

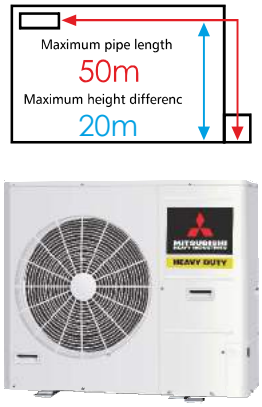
FDC71YNA-W6



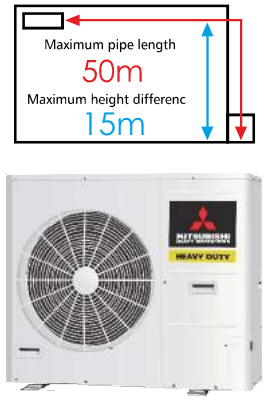
FDC100YNA-W6



FDC125YNA-W6



FDC140YNA-W6

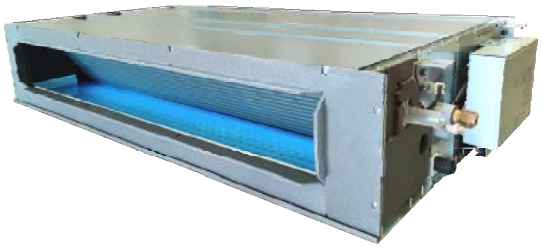


** Under Standard Installation & Lab Test Condition

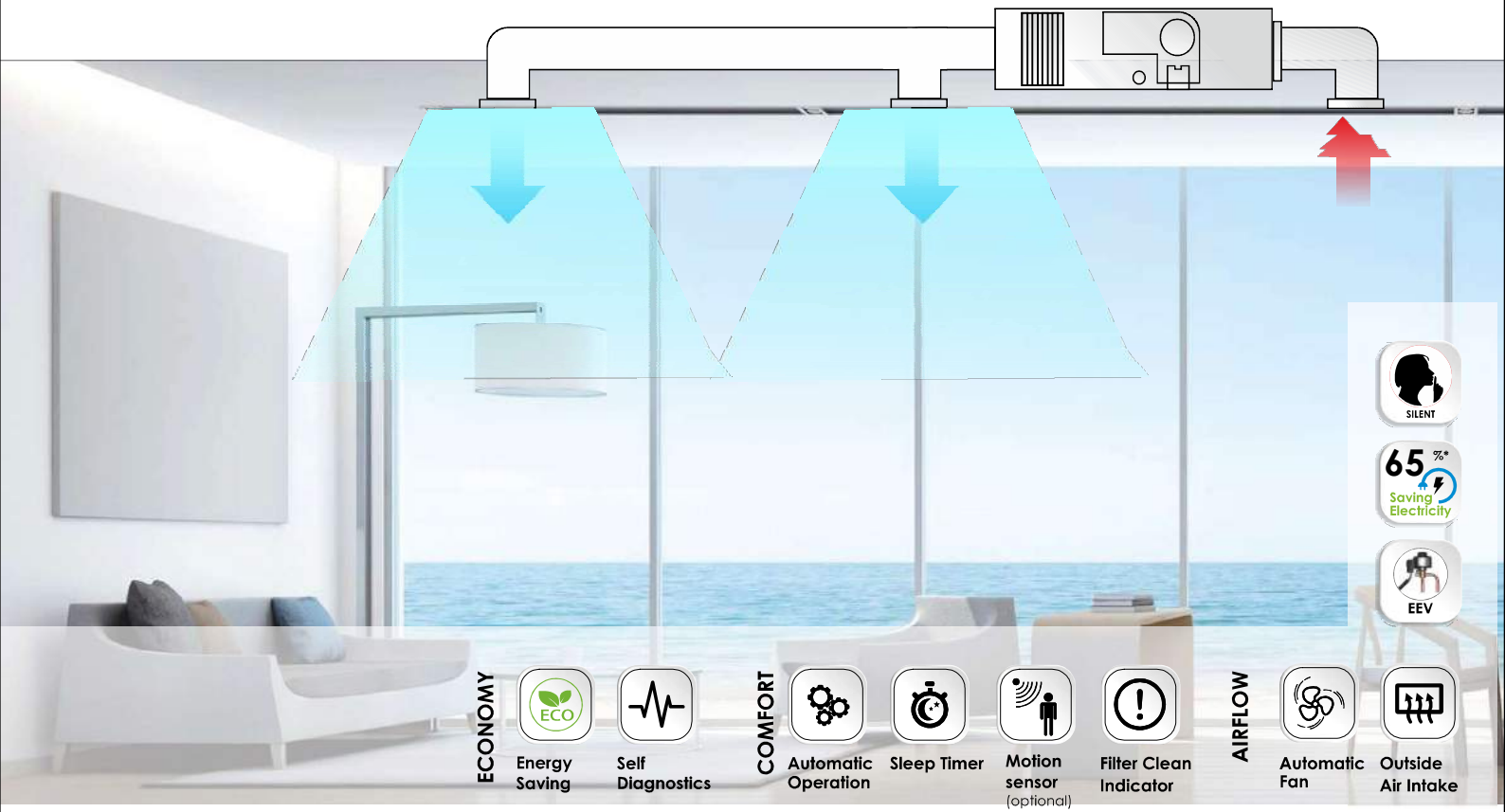
*** Check for design condition and corresponding parameters like roof / window exposed to direction sunlight, of the area to be Air-conditioned and please take expert advise before selecting / installing the airconditioners

Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without any prior notice

HYPER INVERTER Ductable Cooling Only



Next Generation



HYPER INVERTER AC gives 1.3 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

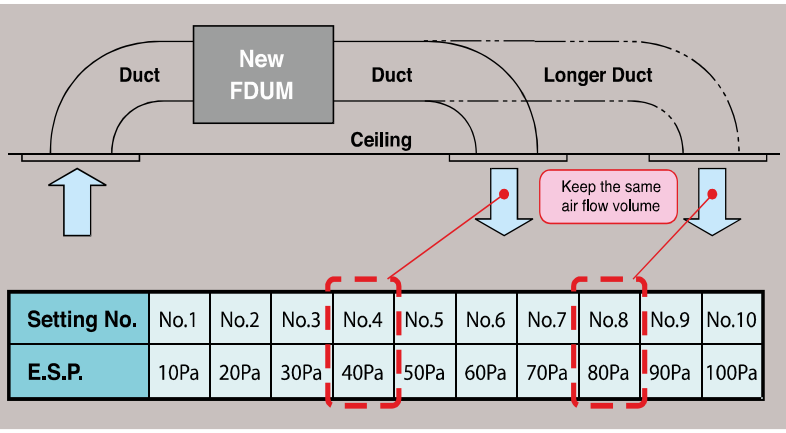
Duct design was simplified, using DC motor. The most optimum air flow volume can be achieved by this automatic control. Indoor unit will recognize external static pressure by itself automatically and keep rated air flow volume.

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-E2B1

LA-KIT-E1
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)

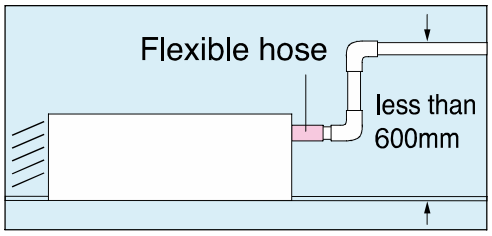
RC-E5

RC-EX3A

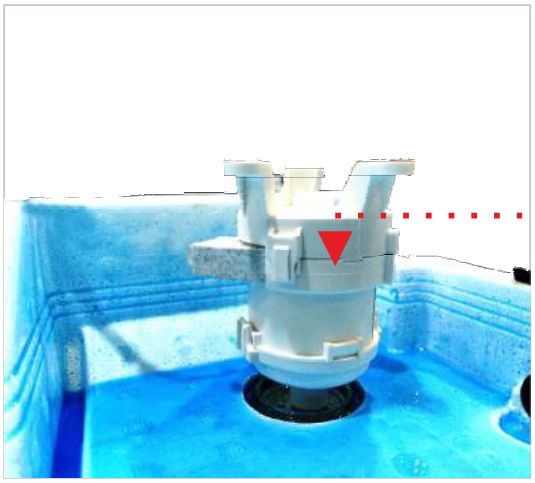
External Static Pressure (E.S.P.) can be set by E.S.P. button.

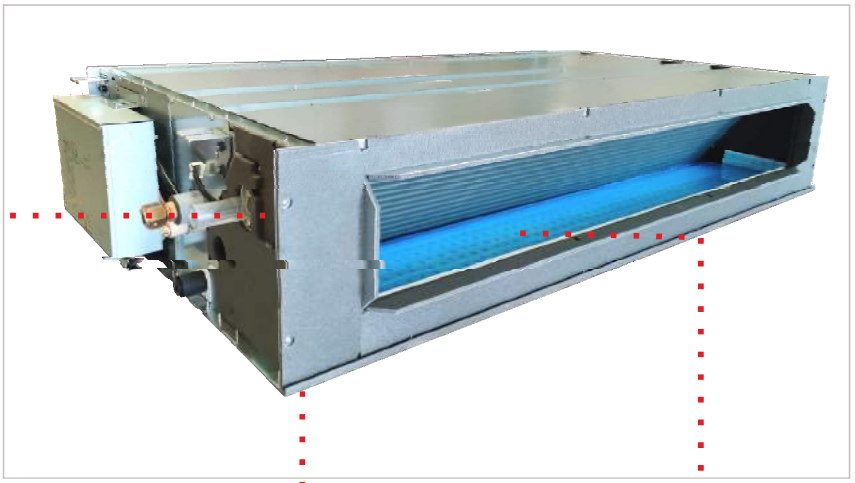
Built in Drain Pump

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.



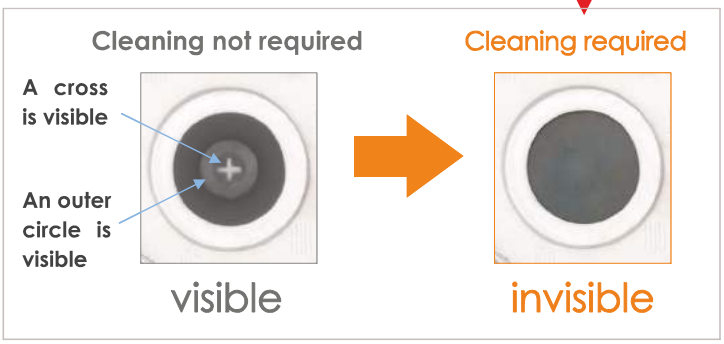
600MM DRAIN PUMP



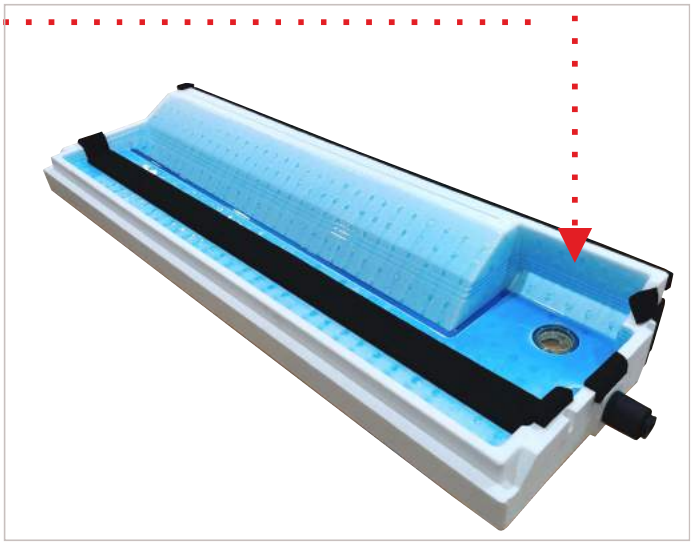


Transparent Inspection Window

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.



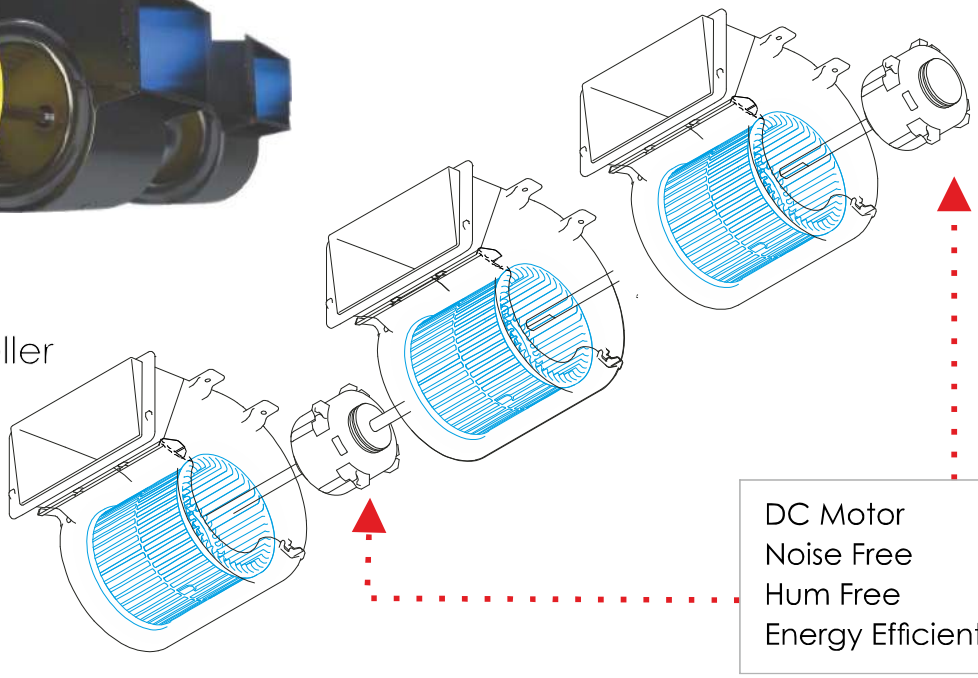
Drain Tray with Polyurethane Ethoxyline Resin Coating



Aerodynamic Impeller Design

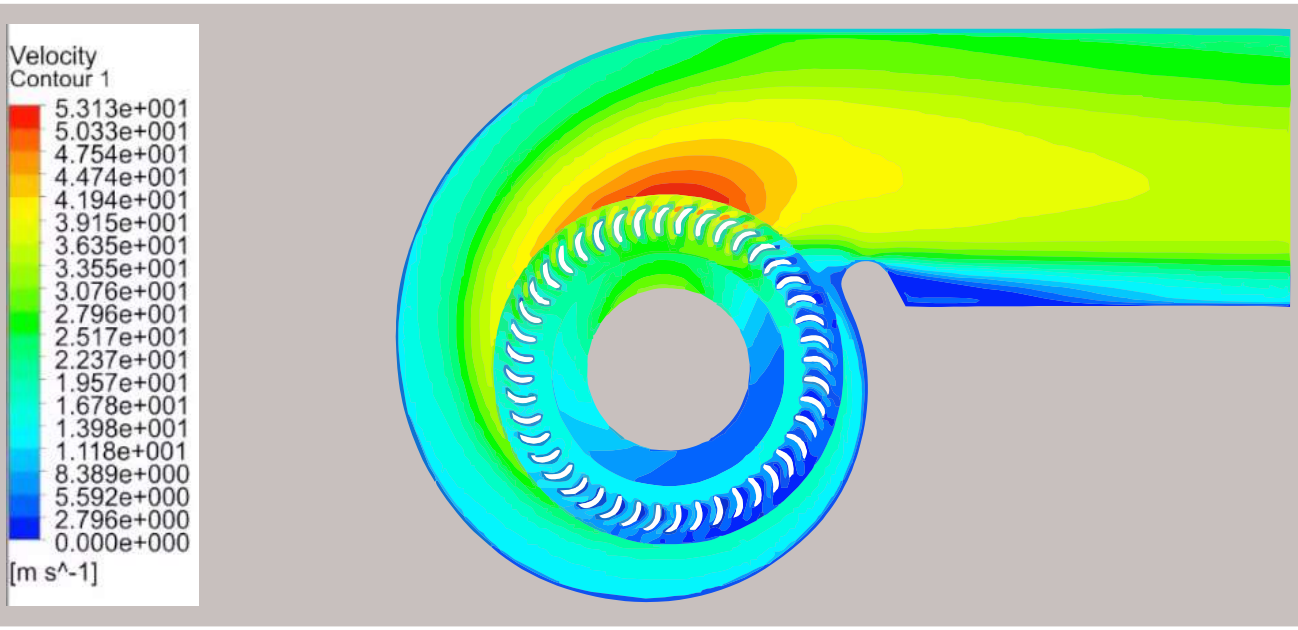
MITSUBISHI HEAVY INDUSTRIES
AIR CONDITIONERS
HEAVY DUTY

Aerodynamic Impeller



DC Motor
Noise Free
Hum Free
Energy Efficient

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.

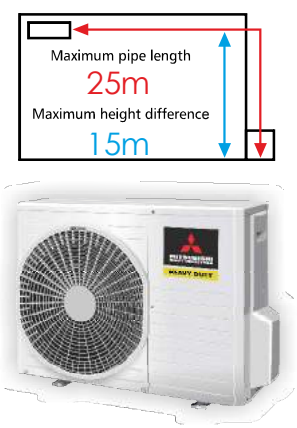


SPECIFICATIONS

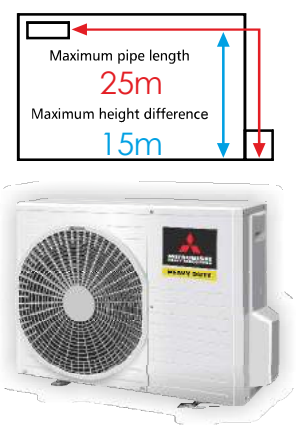
SPECIFICATIONS			HYPER INVERTER - DUCTABLE AC - LOW / MID STATIC		
Unit			FDUM40YA-W6	FDUM50YA-W6	FDUM60YA-W6
Model	Indoor Unit		FDUM40YA-W6	FDUM50YA-W6	FDUM60YA-W6
	Outdoor Unit		FDC40YNA-W6	FDC50YNA-W6	FDC60YNA-W6
Ton - Cooling Only	(minimum ~ maximum)		1.22 Ton (0.45 Ton ~ 1.36 Ton)	1.5 Ton (0.45 Ton ~ 1.62 Ton)	1.73 Ton (0.45 Ton ~ 1.85 Ton)
BEE STAR RATING			BEE STAR RATING NOT APPLICABLE ON DUCTABLE AC		
Super Tropical Compressor Type			Rotary	Rotary	Rotary
VFD - Variable Frequency Drive			Inverter Vector Control Technology for Higher Efficiency		
Minimum Compressor RPM			15 ~ 30 RPM - Using Vector Control Technology		
Refrigerant Volume Control Using			Motorized Electronic Expansion Valve for Variable Refrigerant Flow		
Compressor Controller			iPM (Intelligent Power Module with Artifical Intelligence)		
Power Source			1 Phase, 220 / 230 V, 50 Hz		
Maximum Cooling Capacity **			16378	19448	22178
Rated Cooling Capacity		BTU/hr	14672	18084	20813
Maximum Cooling Capacity **			4800	5700	6500
Rated Cooling Capacity		Watts	4300	5300	6100
Rated Power Consumption		watts	1130	1590	1770
Rated EER		W/w	3.81	3.33	3.45
Current (minimum ~ maximum) **		A	1.0 ~ 5.2	1.0 ~ 7.3	1.0 ~ 8.1
Input Power ** (Minimum - Maximum)		watts	218 ~ 1130	218 ~ 1590	218 ~ 1770
Air flow (P-Hi)	Indoor Unit	CMH	780	780	1200
Long Reach Airflow Upto	Indoor Unit	Meter	4.00	4.00	5.00
Sound Level (P-Hi/H/M/L)	Indoor Unit	dB(A)	32 / 26 / 25 / 23	32 / 26 / 25 / 23	33 / 27 / 26 / 23
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 Blowers		
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 with - Wireless Remote Controller / Maximum : 100 pa Adjustable with (Wired Remote Controller)		
Dimension (H x W x D)	Indoor Unit	mm	280 x 750 x 635	280 x 750 x 635	280 x 950 x 635
	Outdoor Unit		595 x 780 (+62) x 290	595 x 780 (+62) x 290	595 x 780 (+62) x 290
Weight	Indoor Unit	Kgs	29	29	34
	Outdoor Unit	Kgs	32	32	32
Refrigerant			R32	R32	R32
Refrigerant Piping	Liquid	mm / inch	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
	Gas	mm / inch	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
Precharged Refrigerant		Kgs	0.83 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	25 mtrs / 82 feet	25 mtrs / 82 feet	25 mtrs / 82 feet
Vertical Height Difference		Mtrs	Outdoor- Higher = 15 mtrs / Lower = 15 mtrs	Outdoor- Higher = 15 mtrs / Lower = 15 mtrs	Outdoor- Higher = 15 mtrs / Lower = 15 mtrs
Main Power Supply to	Outdoor Unit		2.5 mm2 x 3 cores (including earthing)		
Connecting wiring	B/w IDU & ODU		2.5 mm2 x 4 cores (including earthing)		
Area Coverage ***		Sq.Meter	13.0 ~ 14.0	15.0 ~ 18.58	18.58 ~ 22.50

REFRIGERANT PIPE LENGTH

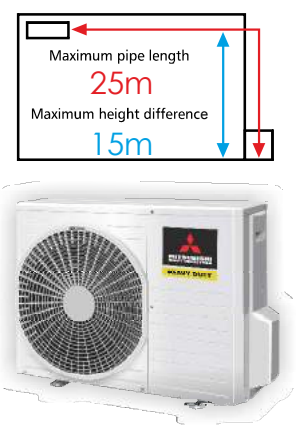
FDC40YNA-W6



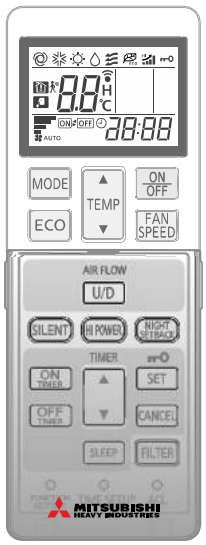
FDC50YNA-W6



FDC60YNA-W6



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 and please take expert advise before selecting / installing the airconditioners
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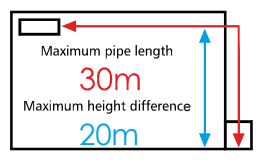
SPECIFICATIONS

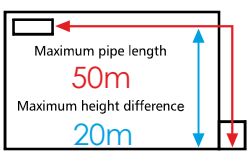
SPECIFICATIONS			HYPER INVERTER - DUCTABLE AC - LOW / MID STATIC	HYPER INVERTER - DUCTABLE AC - MID / HIGH STATIC		
Unit			FDUM71YA-W6	FDU100YA-W6	FDU125YA-W6	FDU140YA-W6
Model	Indoor Unit		FDUM71YA-W6	FDU100YA-W6	FDU125YA-W6	FDU140YA-W6
	Outdoor Unit		FDC71YNA-W6	FDC100YNA-W6	FDC125YNA-W6	FDC140YNA-W6
Ton - Cooling Only	(minimum ~ maximum)		2.0 (0.36 Ton ~ 2.2 Ton)	3.0 (0.56 Ton ~ 3.3 Ton)	3.41 (0.85 Ton ~ 3.41 Ton)	4.0 (0.90 Ton ~ 4.12 Ton)
BEE STAR RATING			BEE STAR RATING NOT APPLICABLE FOR DUCTABLE AC			
Super Tropical Compressor Type			Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
VFD - Variable Frequency Drive			Inverter Vector Control Technology for Higher Efficiency			
Minimum Compressor RPM			15 ~ 30 RPM - Using Vector Control Technology			
Refrigerant Volume Control Using			Motorized Electronic Expansion Valve for Variable Refrigerant Flow			
Compressor Controller			iPM (Intelligent Power Module with Artifical Intelligence)			
Power Source			1 Phase, 220 / 230 V, 50 Hz			
Maximum Cooling Capacity **			26272	39238	40944	49474
Rated Cooling Capacity		BTU/hr	24225	35826	40944	47768
Maximum Cooling Capacity **		Watts	7700	11500	12000	14500
Rated Cooling Capacity		Watts	7100	10500	12000	14000
Rated Power Consumption		watts	2200	3100	3820	4500
Rated EER		W/w	3.23	3.39	3.14	3.11
Current (minimum ~ maximum) **		A	0.8 ~ 10.1	2 ~ 14.1	2.5 ~ 17.4	2.6 ~ 20.6
Input Power ** (Minimum - Maximum)		watts	175 - 2200	436 - 3100	545 - 3820	566 - 4500
Air flow (P-Hi)	Indoor Unit	CMH	1440	2160	2340	2880
Long Reach Airflow Upto	Indoor Unit	Meter	5.18	6.09	6.70	7.60
Sound Level (P-Hi/H/M/L)	Indoor Unit	dB(A)	38 / 33 / 29 / 25	39 / 35 / 33 / 30	39 / 34 / 30 / 28	42 / 35 / 31 / 28
Louver Swing	Indoor Unit		Not applicable	Not applicable	Not applicable	Not applicable
Remote Control	Indoor Unit		Standard - Wireless Remote Controller Included / Wired Controller Optional			
Self Diagnosis Function	Indoor Unit		Yes	Yes	Yes	Yes
Filter	Indoor Unit		Anti - Bacterial Wire Mesh Filter - Optional - Chargeable Extra - Procure Locally			
Fan	Indoor Unit		Centrifugal Blowers			
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 with - Wireless Remote Controller / Maximum : 100 pa Adjustable with (Wired Remote Controller)	Standard : 40 pa with - Wireless Remote Controller / Maximum :200 pa Adjustable with (Wired Remote Controller)		
Dimension (H x W x D)	Indoor Unit	mm	280 x 950 x 635	280 x 1370 x 740	280 x 1370 x 740	280 x 1370 x 740
	Outdoor Unit		640 x 800 (+71) x 290	750 x 880 (+88) x 340	845 x 970 x 370	845 x 970 x 370
Weight	Indoor Unit	Kgs	34	54	54	54
	Outdoor Unit	Kgs	37	51	67.5	68
Refrigerant			R32	R32	R32	R32
Refrigerant Piping	Liquid	mm / inch	6.35 (1/4")	IDU Side: 9.52 (3/8")/ Pipe : 6.35 (1/4")/ ODU Side: 6.35 (1/4")	9.52 (3/8")	9.52 (3/8")
	Gas	mm / inch	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
Precharged Refrigerant		Kgs	1.05 Kgs (for piping length upto 10mtrs)	1.55 Kgs (for piping length upto 15mtrs)	1.70 Kgs (for piping length upto 30mtrs)	1.70 Kgs (for piping length upto 30mtrs)
Charging requirement per mtrs		grams	25 grams (Above 15mtrs upto 30 mtrs) - Check with Service Engg.	25 grams (Above 15mtrs upto 30 mtrs) - Check with Service Engg.	25 grams (Above 30mtrs upto 50 mtrs) - Check with Service Engg.	25 grams (Above 30mtrs upto 50 mtrs) - Check with Service Engg.
Maximum Piping Length		Mtrs	30 mtrs / 98.4 feet	50 mtrs / 165 feet	50 mtrs / 165 feet	50 mtrs / 165 feet
Vertical Height Difference		Mtrs	Outdoor- Higher = 20 mtrs / Lower = 20 mtrs	Outdoor- Higher = 20 mtrs / Lower = 20 mtrs	Outdoor- Higher = 20 mtrs / Lower = 20 mtrs	Outdoor- Higher = 20 mtrs / Lower = 15 mtrs
Main Power Supply to	Outdoor Unit		2.5 mm2 x 3 cores (including earthing)	6.0 mm2 x 5 cores (including earthing)	8.0 mm2 x 5 cores(including earthing)	8.0 mm2 x 5 cores (including earthing)
Connecting wiring	B/w IDU & ODU		2.5 mm2 x 4 cores (including earthing)	2.5 mm2 x 4 cores (including earthing)		
Area Coverage ***		Sq.Meter	22.50 ~ 25.54	25.54 ~ 32.51	32.51 ~ 39.50	39.49 ~ 46.46

REFRIGERANT PIPE LENGTH

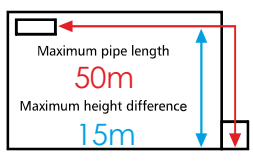
FDC71YNA-W6



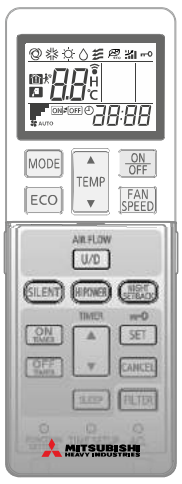
FDC100YNA-W6
FDC125YNA-W6



FDC140YNA-W6



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 and please take expert advise before selecting / installing the airconditioners
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"

MITSUBISHI HEAVY INDUSTRIES
AIR CONDITIONERS
HEAVY DUTY

Towards A Better Future Together

PRECAUTIONS

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

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

JAPAN

Our factories are ISO9001 and ISO14001 certified.

Certified ISO 9001 Certified ISO 14001