



**MITSUBISHI  
HEAVY INDUSTRIES**

**AIR CONDITIONERS**

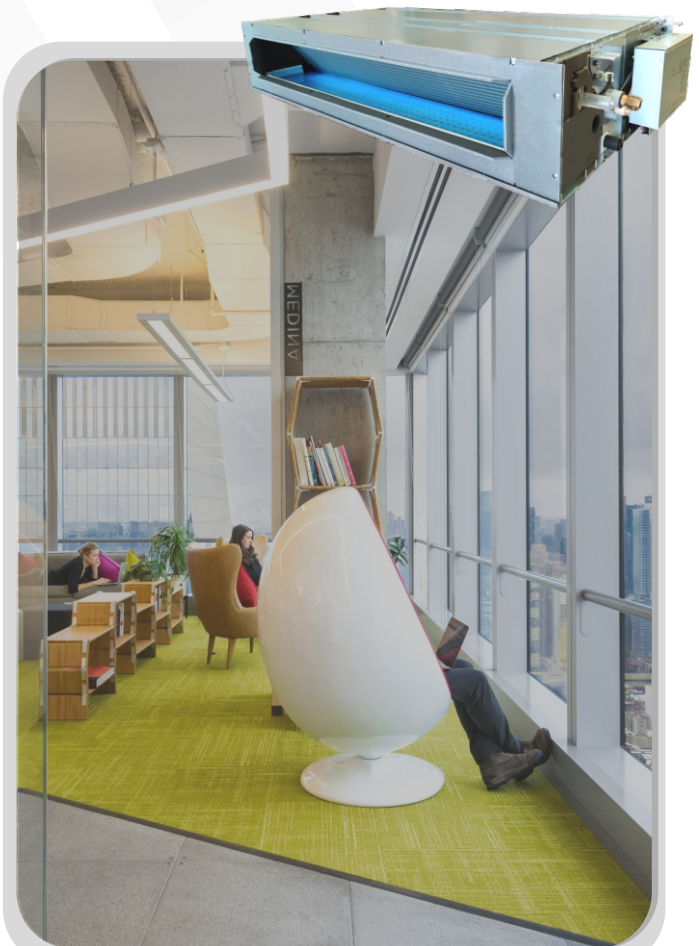
**HEAVY DUTY**

# HYPER INVERTER

Cassette | Ductable  
Cooling Only

Next  
Generation  
High  
Performance  
Airconditioning

Country of Origin : Thailand



# 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.

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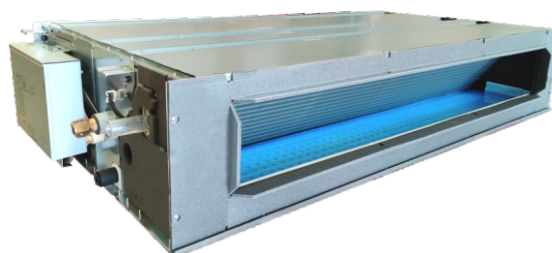
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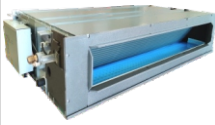







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### CASSETTE

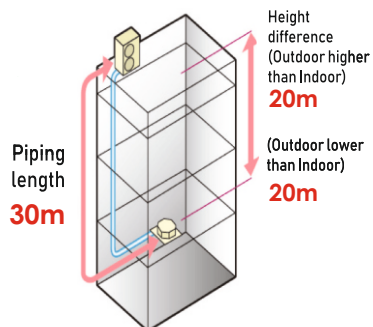


### DUCTABLE



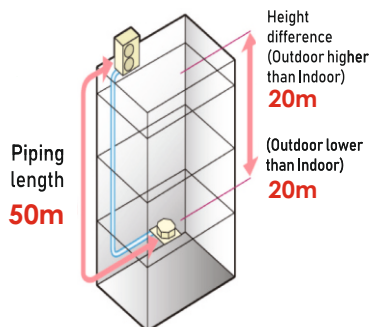
TYPE	CAPACITY							
	Ton	1.22	1.5	1.73	2.0	3.0	3.5	4.0
	KW	4.3	5.3	6.10	7.1	10.5	12.5	14.0
 CASSETTE	Indoor	–	–	–	FDT71YA-W6	FDT100YA-W6	FDT125YA-W6	FDT140YA-W6
	Outdoor	–	–	–	FDC71YNA-W6	FDC100YNA-W6	FDC125YNA-W6	FDC140YNA-W6
 DUCTABLE	Indoor	FDUM40YA-W6	FDUM50YA-W6	FDUM60YA-W6	FDUM71YNA-W6	FDU100YA-W6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

FDC71YA-W6



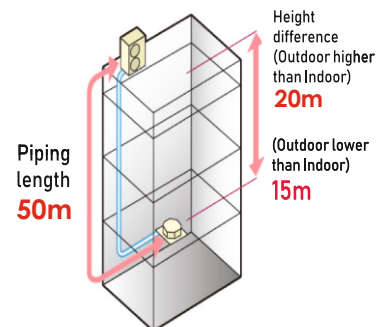
Pre-Charge piping length:  
**10m**

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.

## AIRFLOW



### Individual Flap Control System

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



### Vertical Auto Swing

The vertical louvers on your unit will move up and down continuously during operation. This function allows you to set the up/down swing position of the louver to your preferred operation angle.

## TIMER



### Sleep Timer

This function allows you to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate before switching off.



### Motion sensor (optional)

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



### Draft prevention setting (optional)

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



### Automatic Fan Speed

The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.

## 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		<b>ENERGY SAVING MODE</b> 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.		
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.		
	Automatic Fan Speed		The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.		
Timer	Sleep Timer		This function allows you to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate before switching off.		
	Weekly Timer		Set your unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.		
Convenient	Function Switch *		From the seven available functions on the unit, this function allows you to set two functions to operate automatically.		
	Favorite setting *		Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.		
	Select the language *		Set the language to be displayed on the remote control.		
	Air Filter		The air filter in the unit traps and removes airborne dust particles and other allergens to provide you with a clean air.		
	Filter Clean Indicator		This warning alerts you as to when the filter needs to be cleaned.		
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.		

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

## Next Generation

Aerodynamic Vane Design

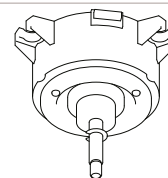
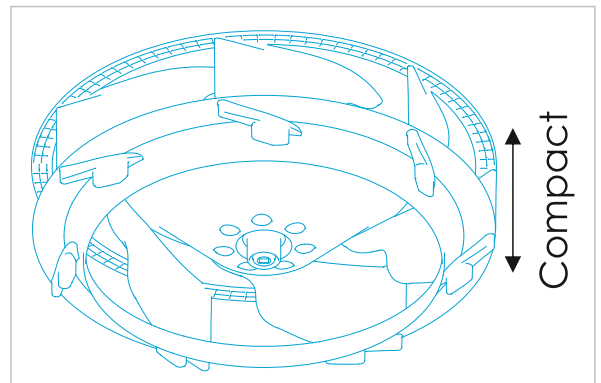
Draft Prevention Panel

Motion Sensor

Next Generation High Performance Airconditioning  
High energy efficiency with latest technology

## Aerodynamic Super Turbo Fan

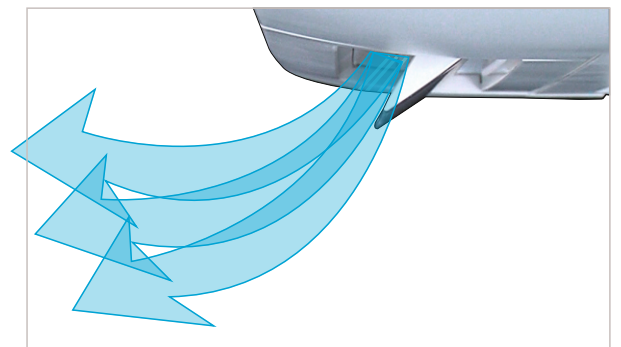
CFD (computational fluid dynamics), used in blade shape design of jet engines, has been applied to the design of air channels of the Super Turbo Fan of the Cassette AC to develop the ideal air channels system for air movement. The airflow created in this system by Large Diameter Slim Turbo Fan with WIDE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



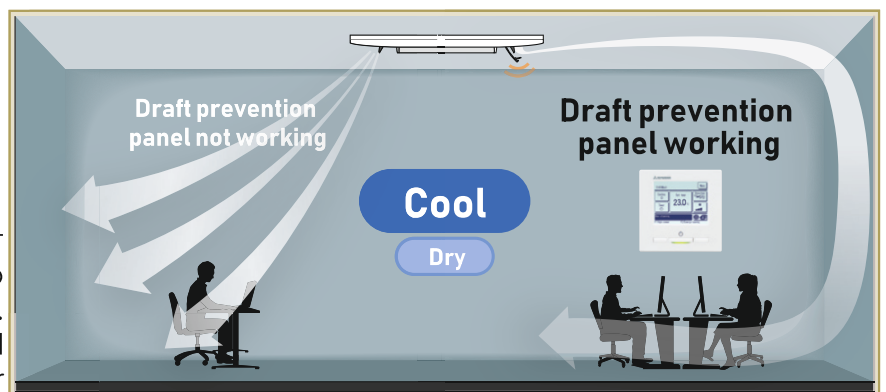


## Draft Prevention Panel

( optional )

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

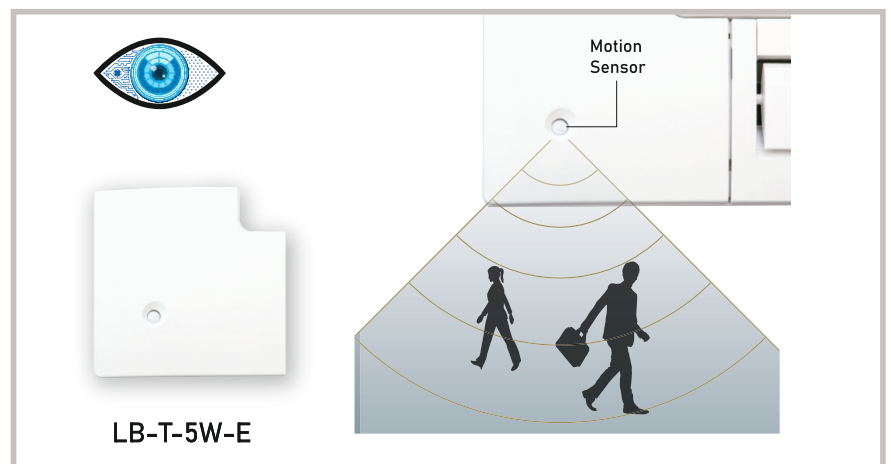
Draft Prevention Panel Prevents cold draft blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet. User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3A, LA-T-5BW-E1).



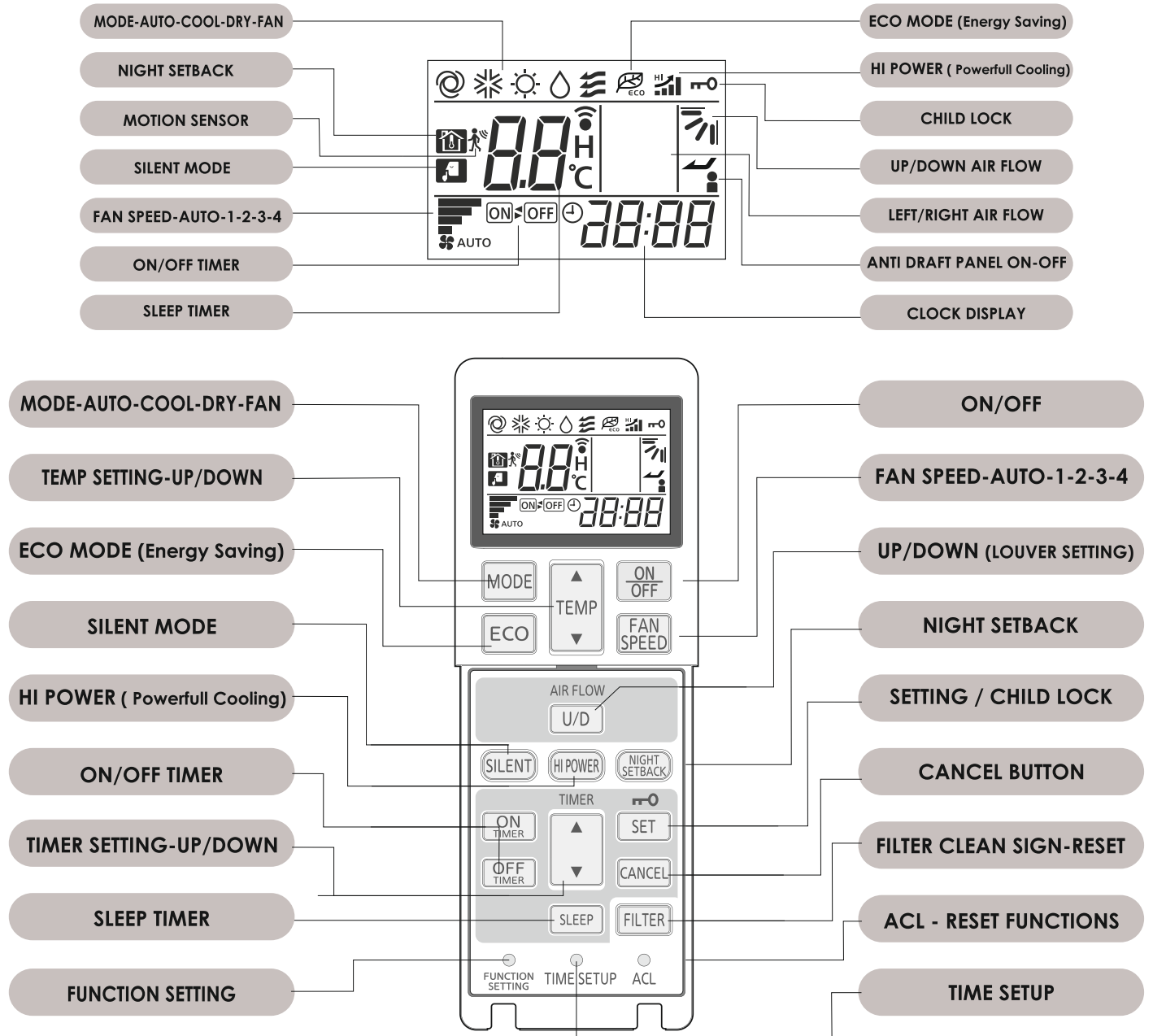
## Motion Sensor

( 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.







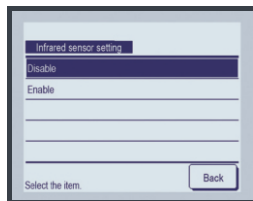
## Motion Sensor Control

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

### Select Enable / Disable Motion sensor control



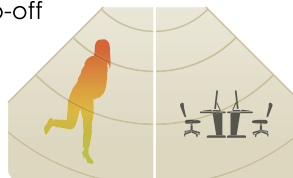
Enable / Disable



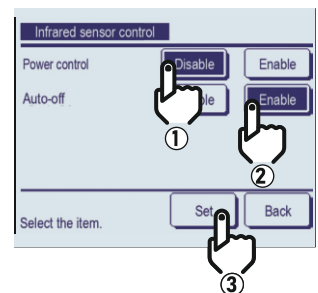
Select Enable / Disable for the motion sensor of the indoor unit connected to the R/C.

### Select Enable / Disable per control

- Power control
- Auto-off



Enable / Disable

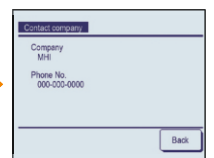
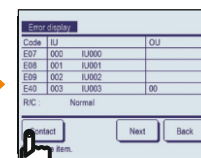
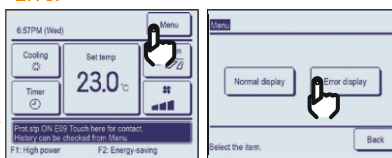


## Contact company & Error display

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.

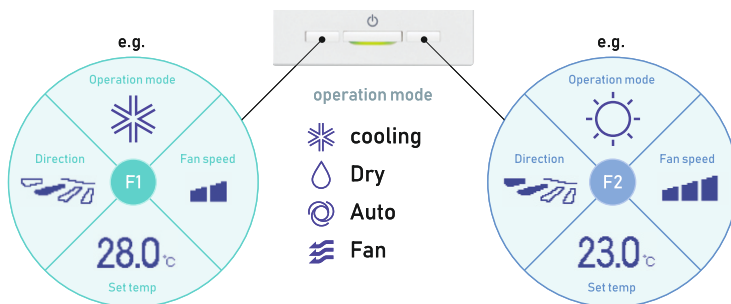


#### FITTER SIGN

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

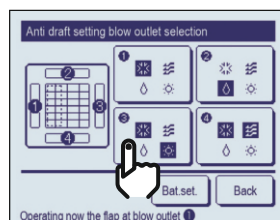
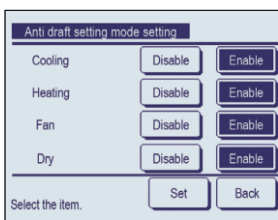
The brightness of the operation lamp behind Run/Stop switch can be adjusted by 10 stages.



### Draft Prevention Setting

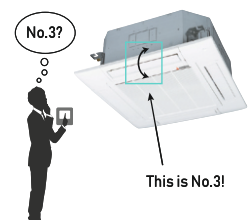
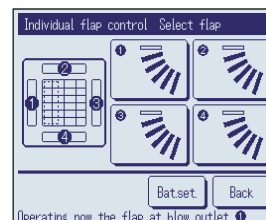
(only FDT series)

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

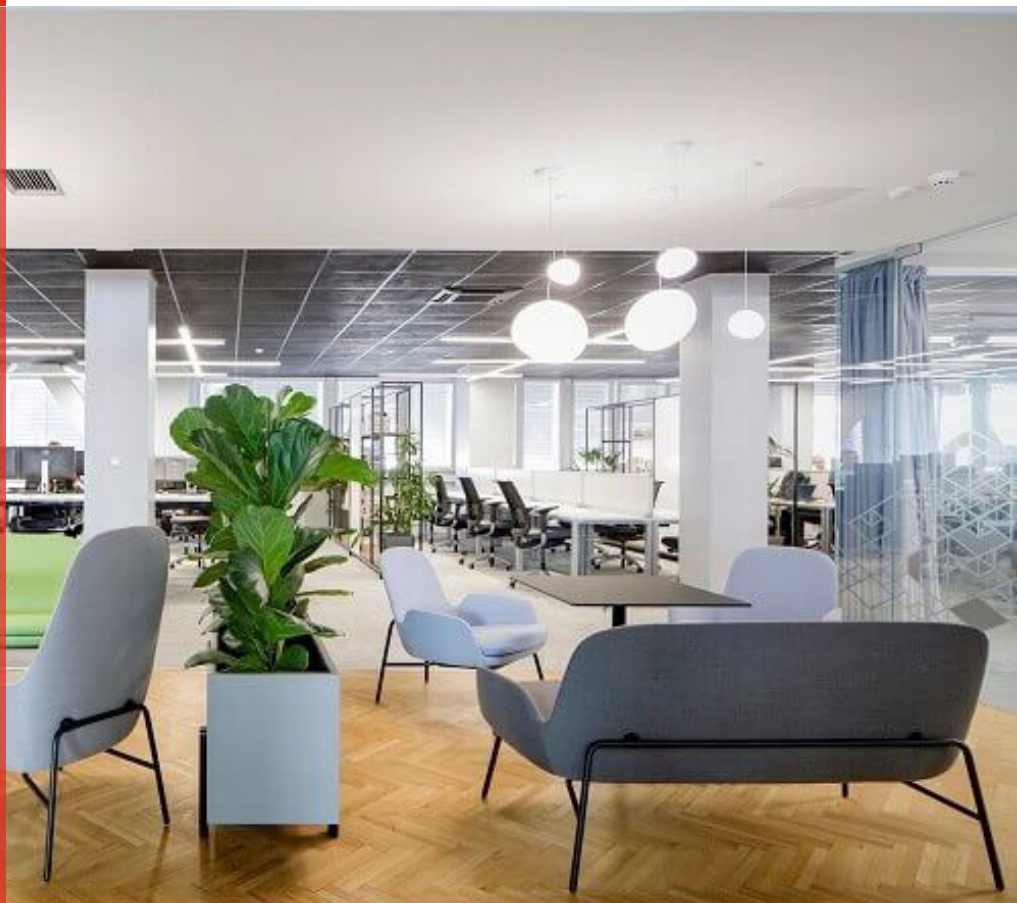
User can visually confirm and set the direction of louvers using the visual display on the remote controller.



# HYPER INVERTER Cassette Cooling Only

## 4 Way

Design  
Comfort  
Control



### REMOTE CONTROL

#### Wireless (Standard)



LA-T-5BW-E/1



RCN-E2B/1

#### 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

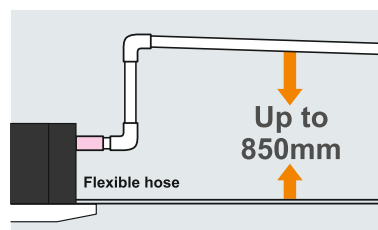


Draft Prevention (optional)

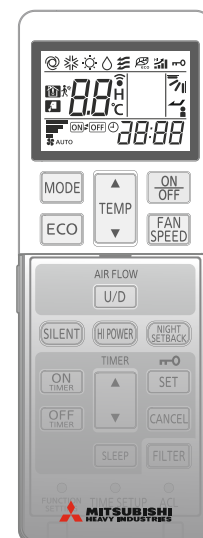


Individual Flap Control (Wired Remote)

### 850mm Drain Pump



**RCN-E2B/1**  
Standard



# Individual Flap Control System

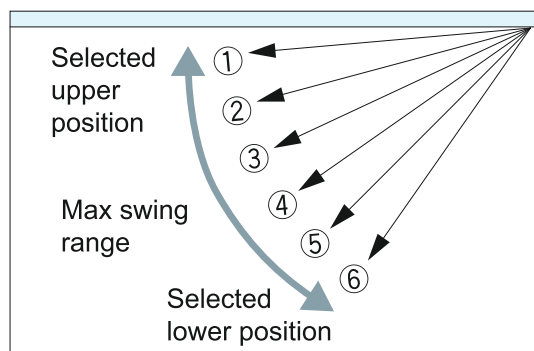
Wired Controller ( optional )



**RC-E5**

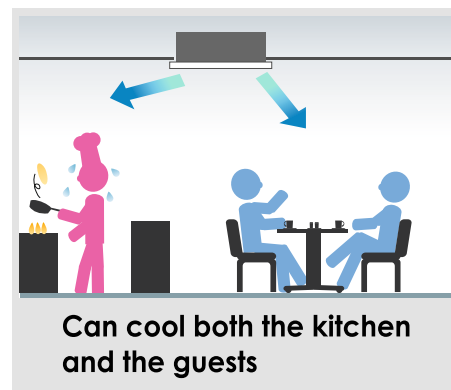
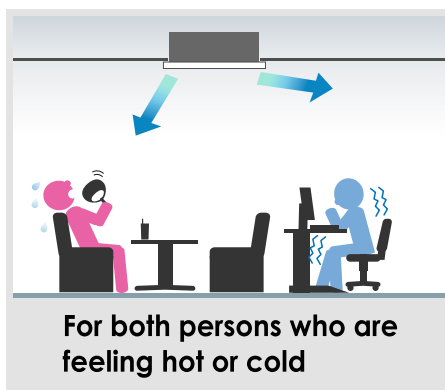
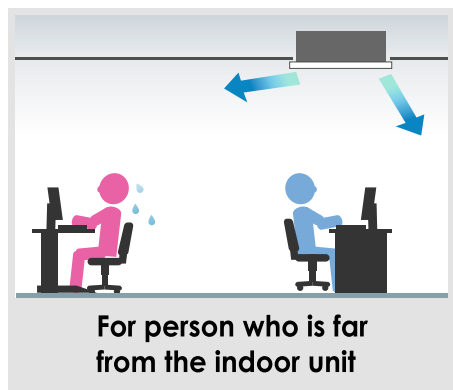
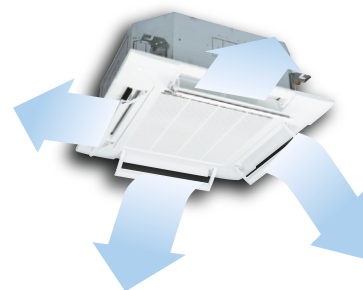
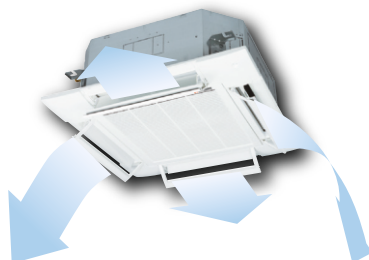
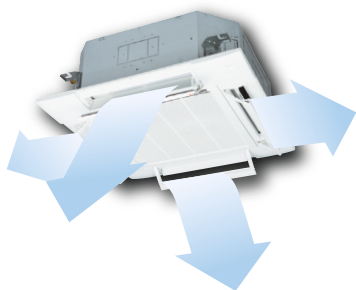


**RC-EX3A**



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

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



## Draft Prevention Panel ( optional )

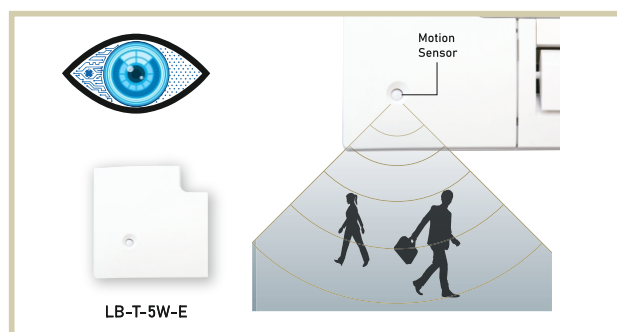
Draft Prevention Panel Prevents cold draft blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.

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



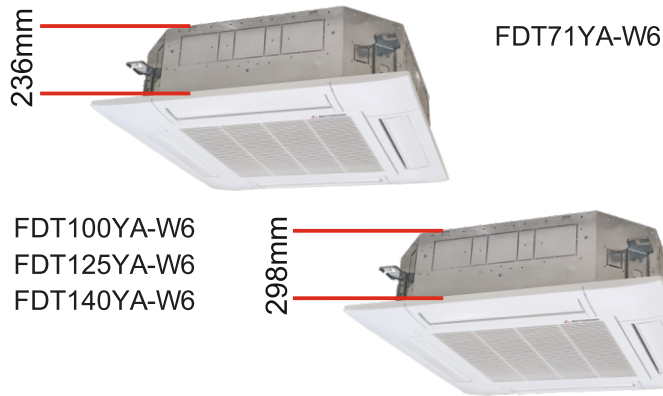
## Motion Sensor ( optional )

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



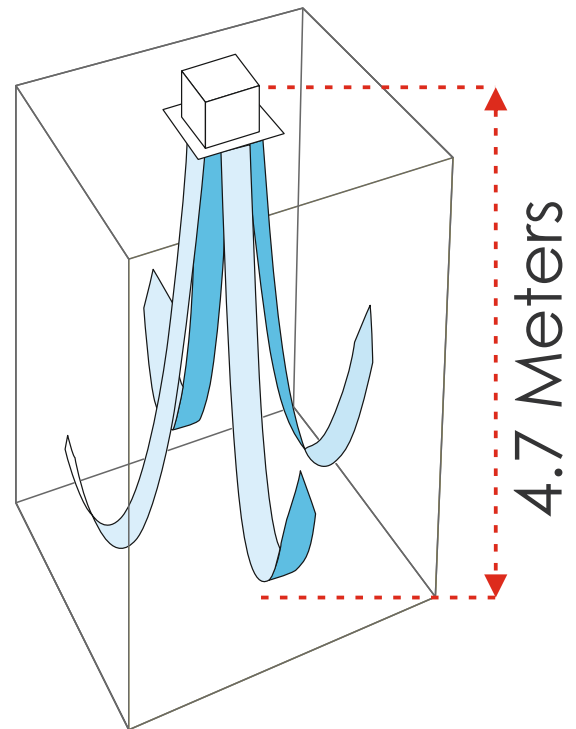


## Compact Height



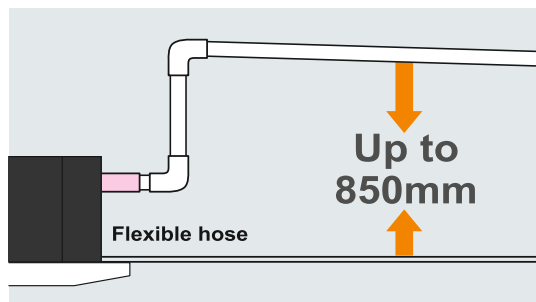
## Suitable for High Ceilings

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

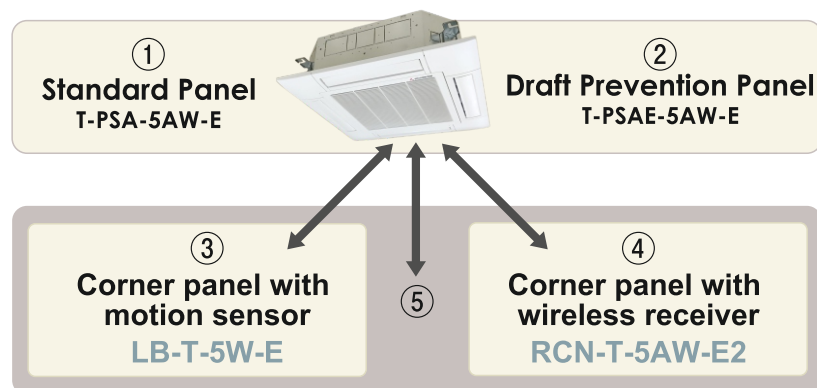


## 850mm Drain Pump

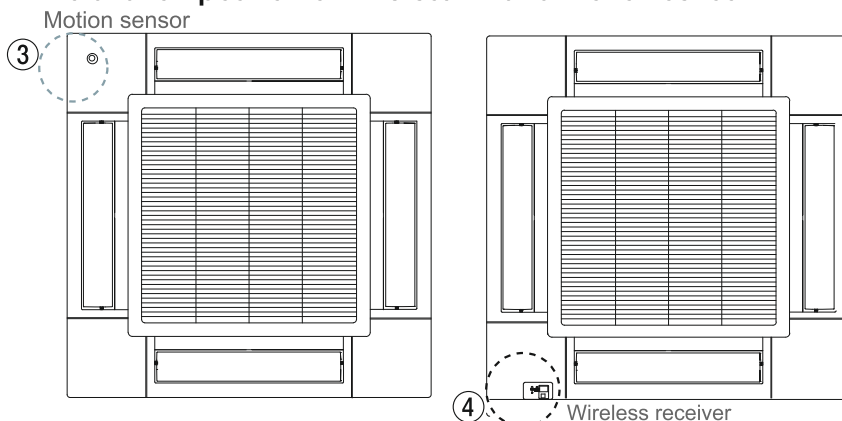
Drain can be discharged upwards up to 850mm from the ceiling surface, allowing a piping layout with a high degree of freedom. Thanks to the 185mm flexible hose, equipment supports easy workability.



## Panel Select Pattern (optional)



### 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

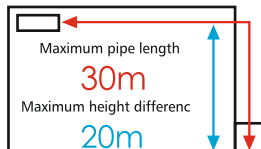


# SPECIFICATIONS

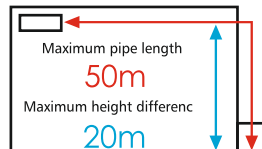
SPECIFICATIONS		ECO SMART - HYPER INVERTER CASSETTE AC - COOLING ONLY (R32)			
Model		FDT71YA-W6	FDT100YA-W6	FDT125YA-W6	FDT140YA-W6
Unit	Indoor Unit	FDT71YA-W6	FDT100YA-W6	FDT125YA-W6	FDT140YA-W6
	Outdoor Unit	FDC71YNA-W6	FDC100YNA-W6	FDC125YNA-W6	FDC140YNA-W6
Ton - Cooling Only (minimum ~ maximum)		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 iPM (Intelligent Power Module )		15 ~ 30 RPM - Using iPM (Intelligent Power Module )	
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 )		iPM (Intelligent Power Module )	
Power Source		1 Phase, 220 - 240 V, 50 Hz		1 Phase, 220 - 240 V, 50 Hz	
Maximum Cooling Capacity **		26272	39238	43674	49474
Rated Cooling Capacity ( 100% Load )	BTU/hr	24822	36508	42650	47812
Rated Cooling Capacity ( 50% Load )		11840	18169	21308	25802
Maximum Cooling Capacity **		7700	11500	12800	14500
Rated Cooling Capacity ( 100% Load )	Watts	7275	10700	12500	14013
Rated Cooling Capacity ( 50% Load )		3470	5325	6245	7562
Rated Power Consumption (100% Full Load)		1985	2860	3870	4414
Rated Power Consumption ( 50% Half Load)		628	990	1200	1411
Rated EER (100% Load )	W/w	3.7	3.7	3.23	3.17
Rated EER ( 50% Load )		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
Long Reach Airflow Up to	Indoor Unit	Meter	4.57	5.18	6.00
Sound Level (H/M/L)	Indoor Unit	dB(A)	46 / 34 / 32 / U/o-27	47 / 39 / 36 / U/o- 30	48 / 39 / 37 / 30
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	Powerful - High / High / Medium / Low	
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
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)
	Outdoor Unit	Kgs	37	51	67.5
Refrigerant			R32		R32
Refrigerant Piping	Liquid	mm / inch	6.35 ( 1/4" )	IDU Side: 9.52 (3/8")/ Reducer / Pipe : 6.35 (1/4")/ ODU Side: 6.35 (1/4")	9.52 ( 3/8" )
	Gas		12.7 ( 1/2" )	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)
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
Vertical Height Difference		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 )
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

## REFRIGERANT PIPE LENGTH

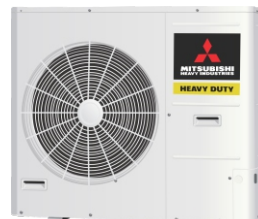
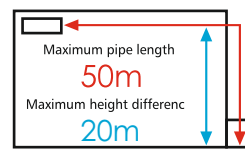
FDC71YNA-W6



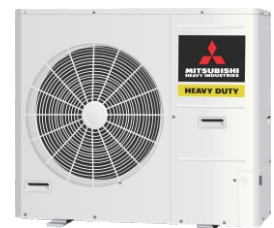
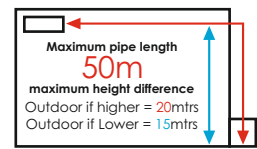
FDC100YNA-W6



FDC125YNA-W6



FDC140YNA-W6

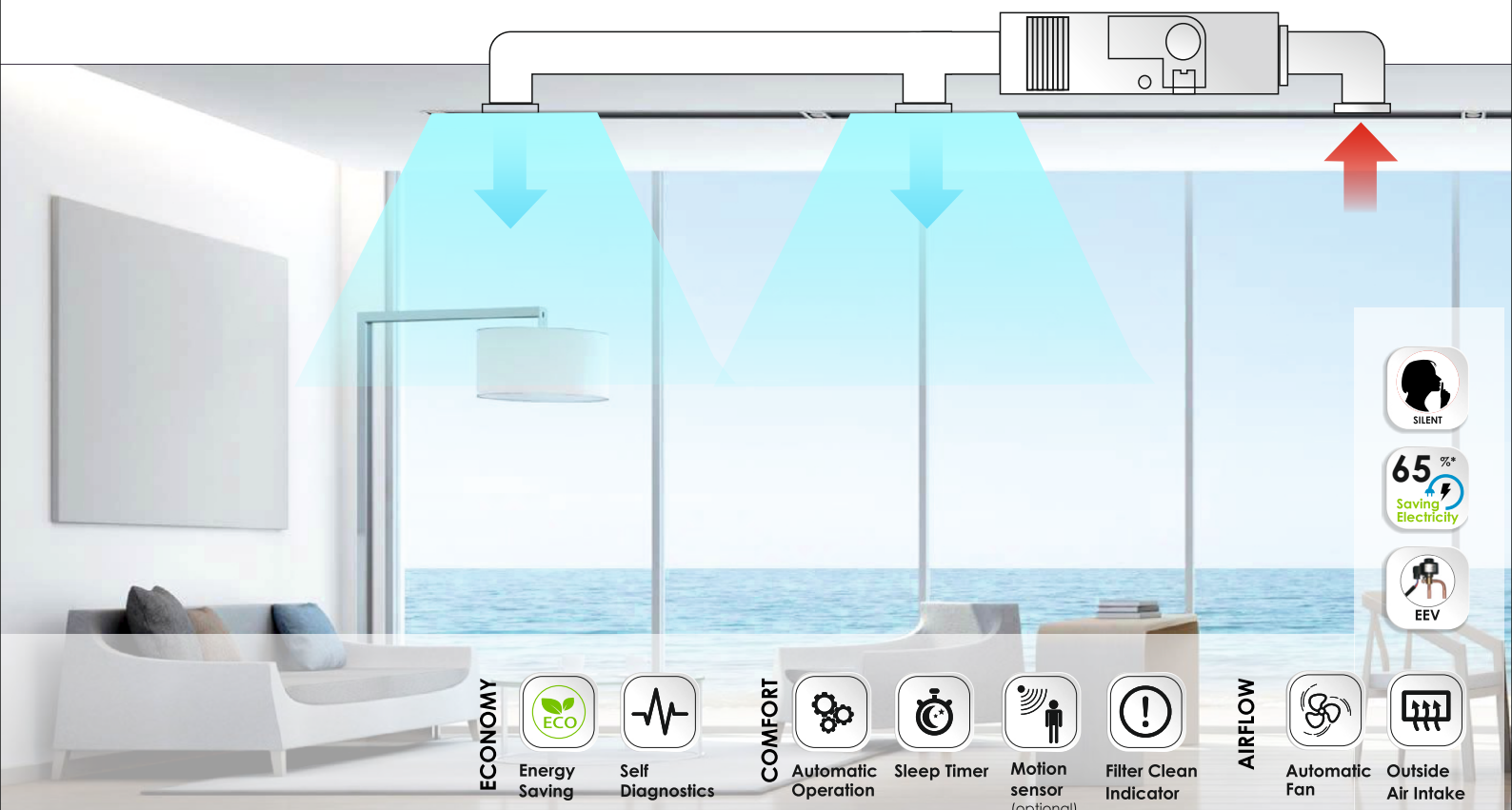
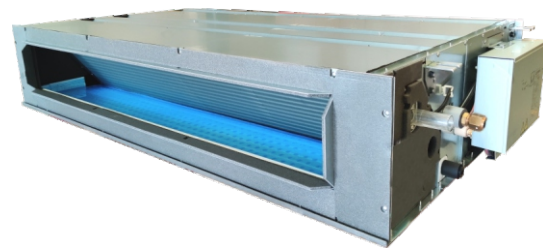


\*\* Under Standard Installation & Lab Test Condition Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without any prior notice

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

# 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.

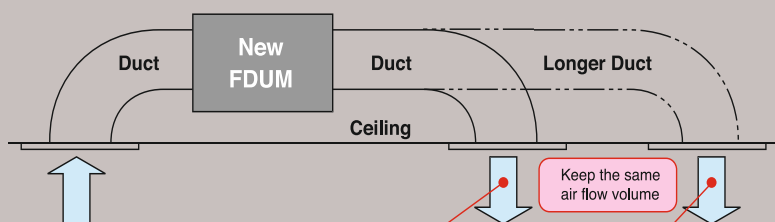
### Wireless Remote



RCN-E2B1

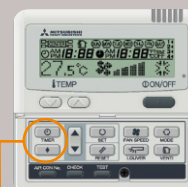


LA-KIT-E1  
Standard

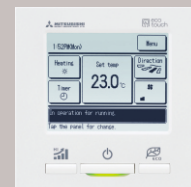


Setting No.	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10
E.S.P.	10Pa	20Pa	30Pa	40Pa	50Pa	60Pa	70Pa	80Pa	90Pa	100Pa

### Wired (Optional)



RC-E5

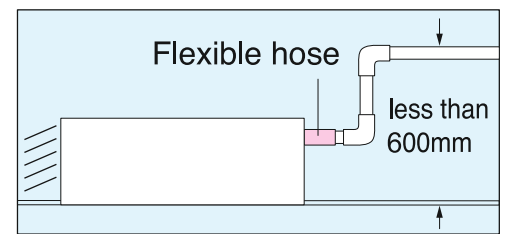


RC-EX3A

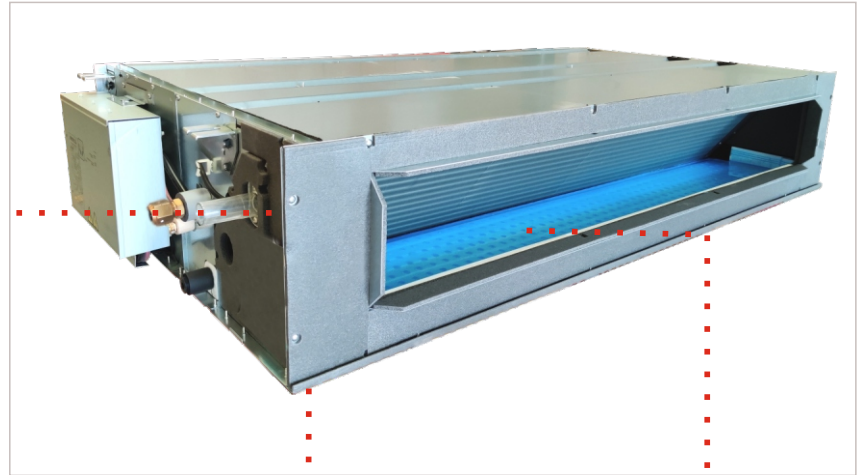
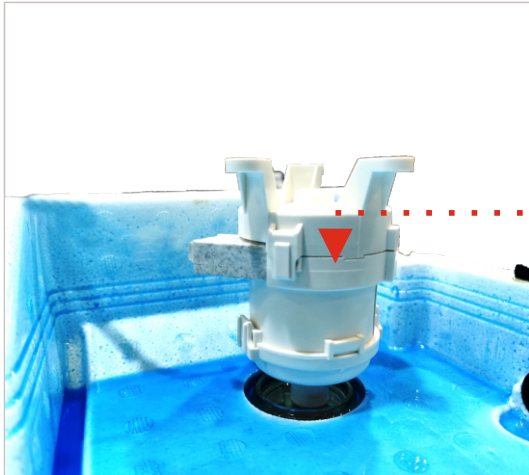
External Static Pressure (E.S.P.) can be set by E.S.P. button.

## 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.

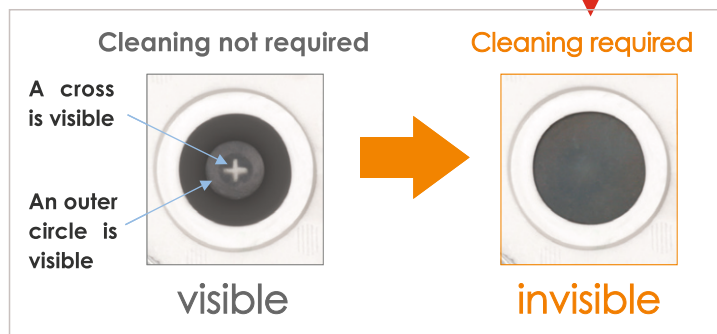


600MM DRAIN PUMP

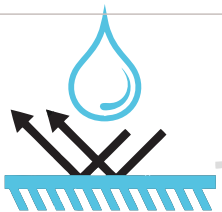


## Transparent Inspection Window

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



Anti Water



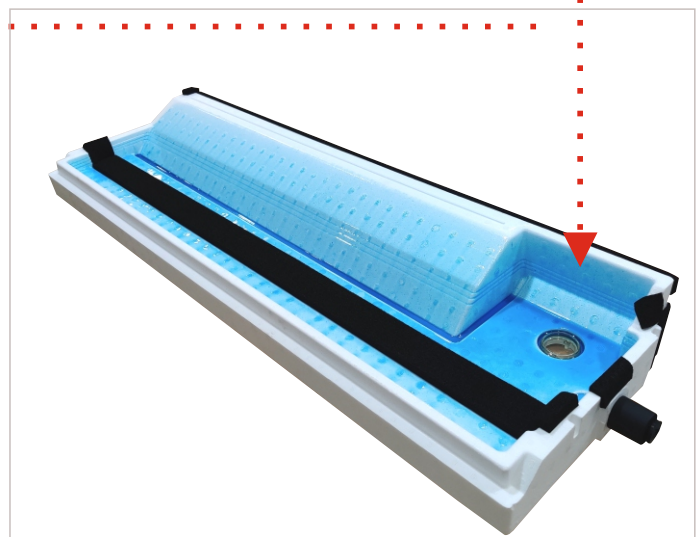
Anti Fungal



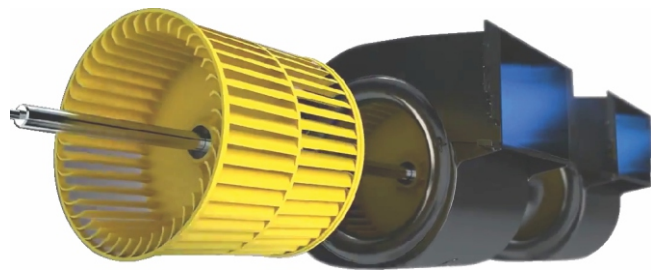
Anti Chemical



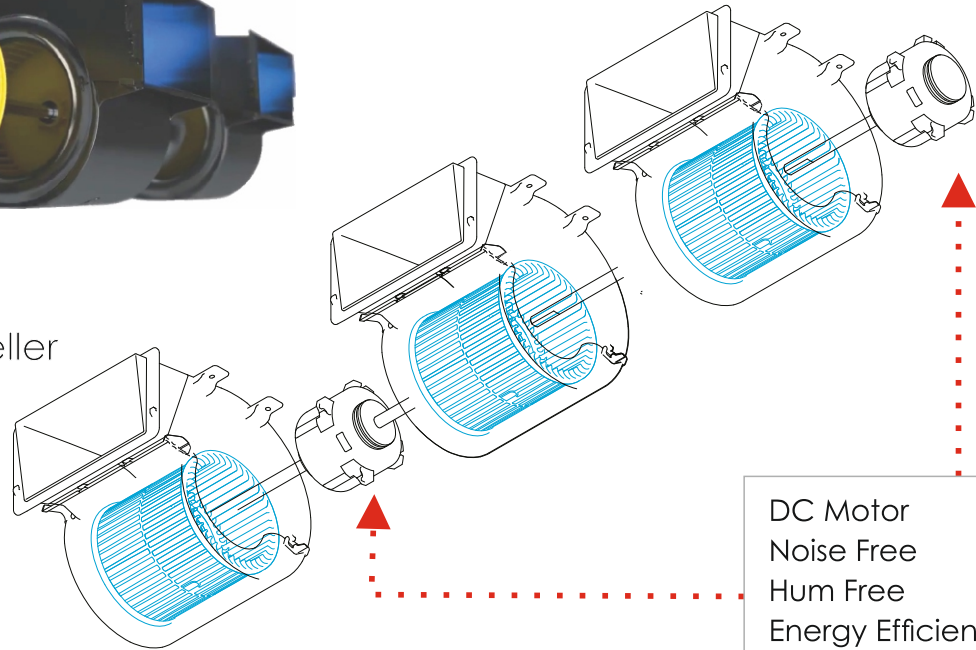
Anti Bacterial





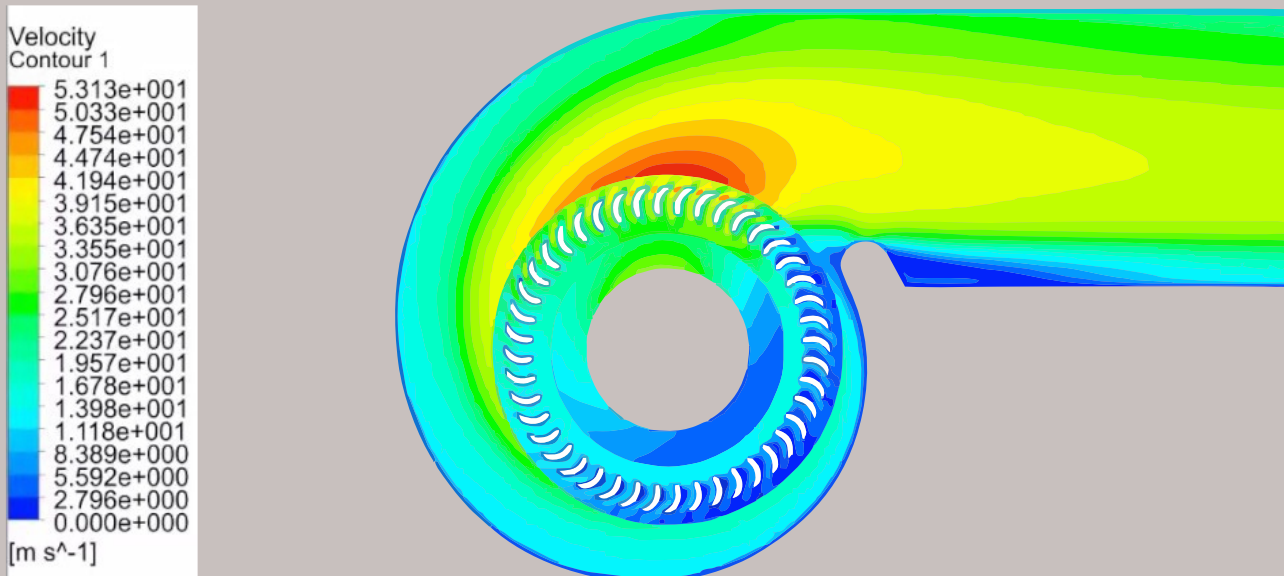


Aerodynamic Impeller



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 iPM (Intelligent Power Module)		
Refrigerant Volume Control Using			Motorized Electronic Expansion Valve for Variable Refrigerant Flow		
Compressor Controller			iPM (Intelligent Power Module)		
Power Source			1 Phase, 220 / 240 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 Up to	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		
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

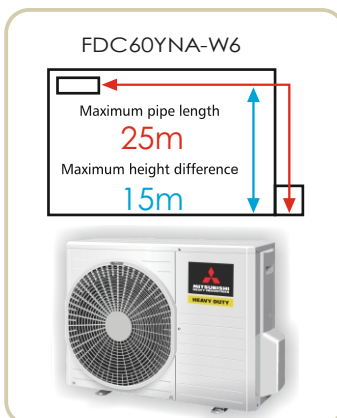
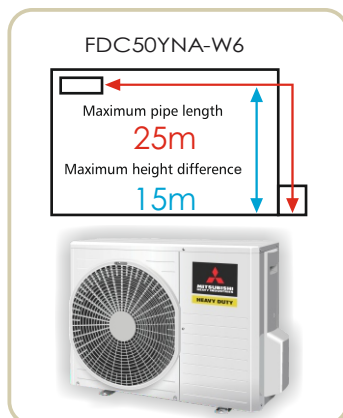
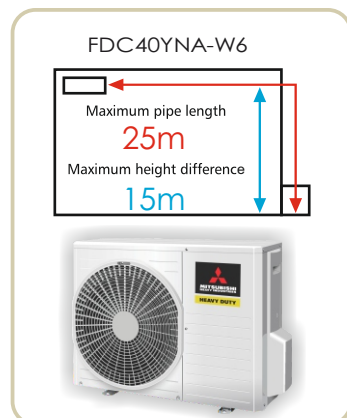
P-Hi - Powerful High Mode

## FILTER KIT (OPTIONAL)

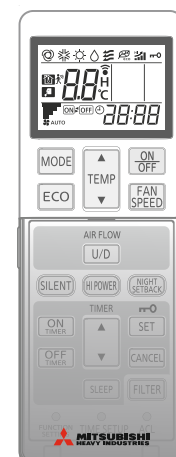
Anti- Bacterial Wire Mesh Filter -  
Optional - Chargeable Extra - Procure Locally



## REFRIGERANT PIPE LENGTH



Wireless Remote  
Standard



\*\* Under Standard Installation & Lab Test Condition. Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without any prior notice.

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

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

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 iPM (Intelligent Power Module )				
Refrigerant Volume Control Using			Motorized Electronic Expansion Valve for Variable Refrigerant Flow				
Compressor Controller			iPM (Intelligent Power Module)				
Power Source			1 Phase, 220 - 240 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 Up to	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				
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 3 cores ( including earthing )	8.0 mm2 x 3 cores( including earthing )	8.0 mm2 x 3 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	

P-Hi - Powerful High Mode

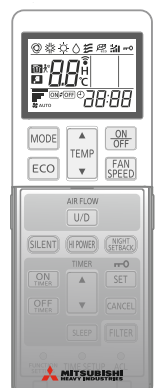
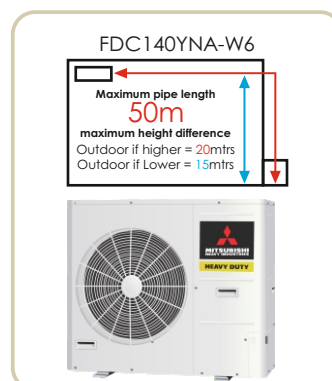
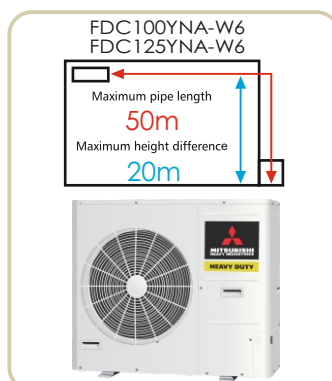
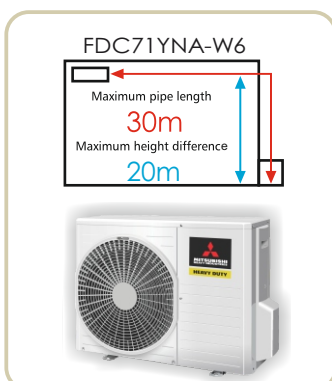
## FILTER KIT (OPTIONAL)

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



## REFRIGERANT PIPE LENGTH

Wireless Remote  
Standard



\*\* Under Standard Installation & Lab Test Condition Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without any prior notice

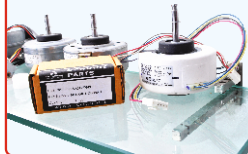
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# [E.S.P. = External Static Pressure can be changed using Wired Controller - Model RC-ES / RC-EXTA]

# Genuine Spares & Service Center



Indoor Motor



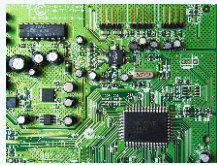
PCB



Compressor



Outdoor PCB



Indoor Blower



Outdoor Motor / Swing Motor



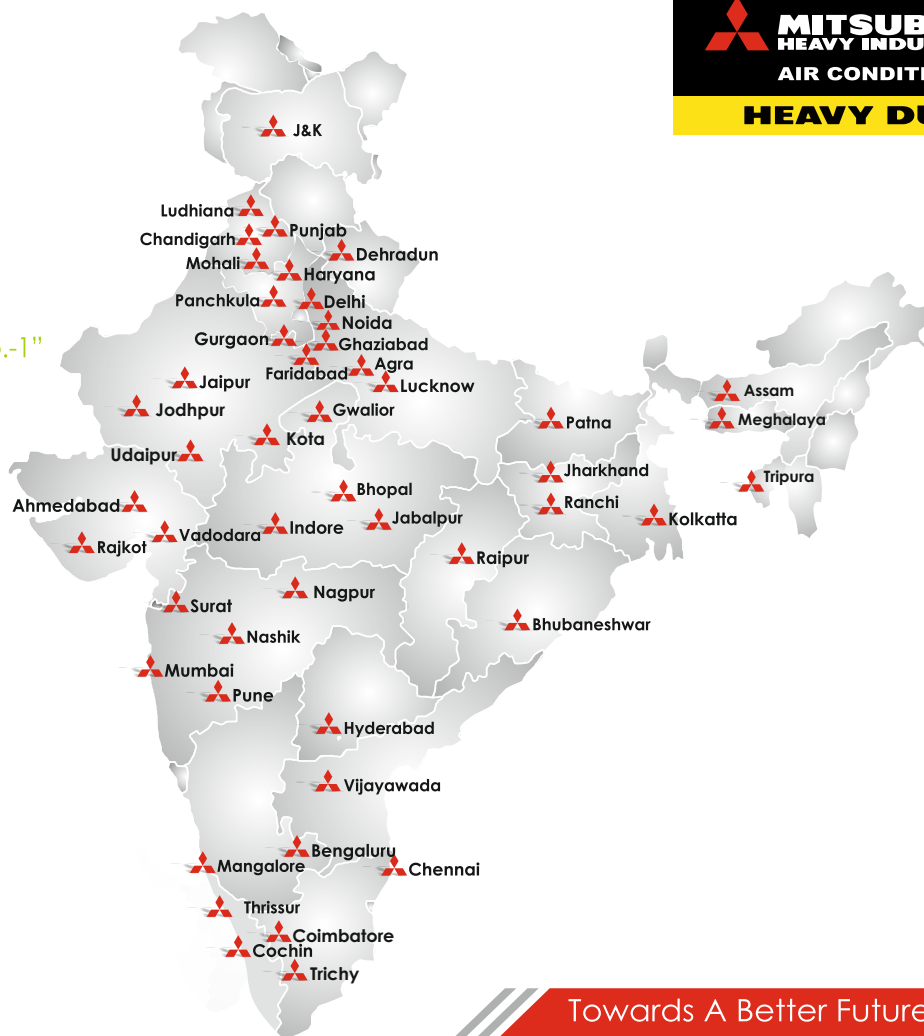
Expansion Valve







Our Motto  
"Customer Satisfaction Index No.-1"



Towards A Better Future Together

## PRECAUTIONS

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

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

Sales, Service & Marketing Headquarter (India)



IAPL GROUP

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Tel.: 011-47230000-99, Toll Free No.: 1800 102 0055  
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## Sales & Service office

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Our factories are ISO9001 and ISO14001 certified.

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