



Perfecting the Air

SkyAir

PLXDSHK2522A

Supersede PLXDSHK2522

R32 Non Inverter SkyAir Single-Split Series

Cool Efficiency, All Day Long



Introducing the **World's First R32 Air Conditioner**

Experience the ground-breaking R32 refrigerant, that perfectly balances energy efficiency, user-friendliness, and environmental sustainability. This innovative technology offers distinct advantages, providing you with comfort and peace of mind.





Ozone Layer Protection

1. Unlike R22, R32 does not contribute to ozone layer depletion.
2. R32 has one-third the global warming potential of R410A.



Life Cycle Climate Performance (LCCP)

1. LCCP measures the total global warming impact of refrigerants.
2. Factors considered in LCCP include emissions during:
 - Refrigerant manufacturing
 - Air conditioner manufacturing
 - Air conditioner operation, servicing, and disposal
3. R32 has the lowest LCCP, making it a superior choice for future refrigerants.



Economic Feasibility

1. R32 refrigerant is widely available worldwide, as it constitutes 50% of the composition of R410A.
2. With 9% lower liquid density compared to R410A, R32 requires less refrigerant charge for the same system.



Safety

R32 is a stable refrigerant with a minimal risk of ignition due to the low amount of refrigerant charge in the unit.



Energy Efficiency

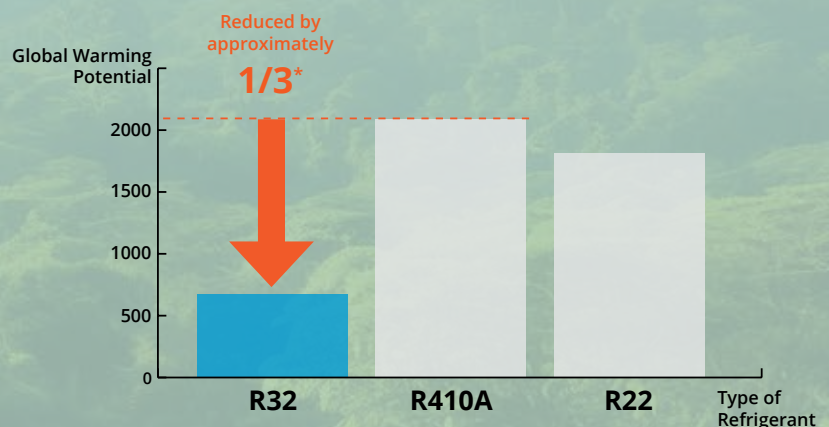
Several features enhance the efficiency of the R32 system:

- **Lower Vapor Density & System Mass Flow Rate:** This results in approximately 50% lower pressure drop.
- **Higher Latent Heat:** R32 offers 43-50% higher latent heat compared to R410A.
- **Higher Liquid Thermal Conductivity:** R32 has 41% better liquid thermal conductivity, allowing seamless and efficient heat transfer at the same mass flux.

Reducing Global Warming Impact

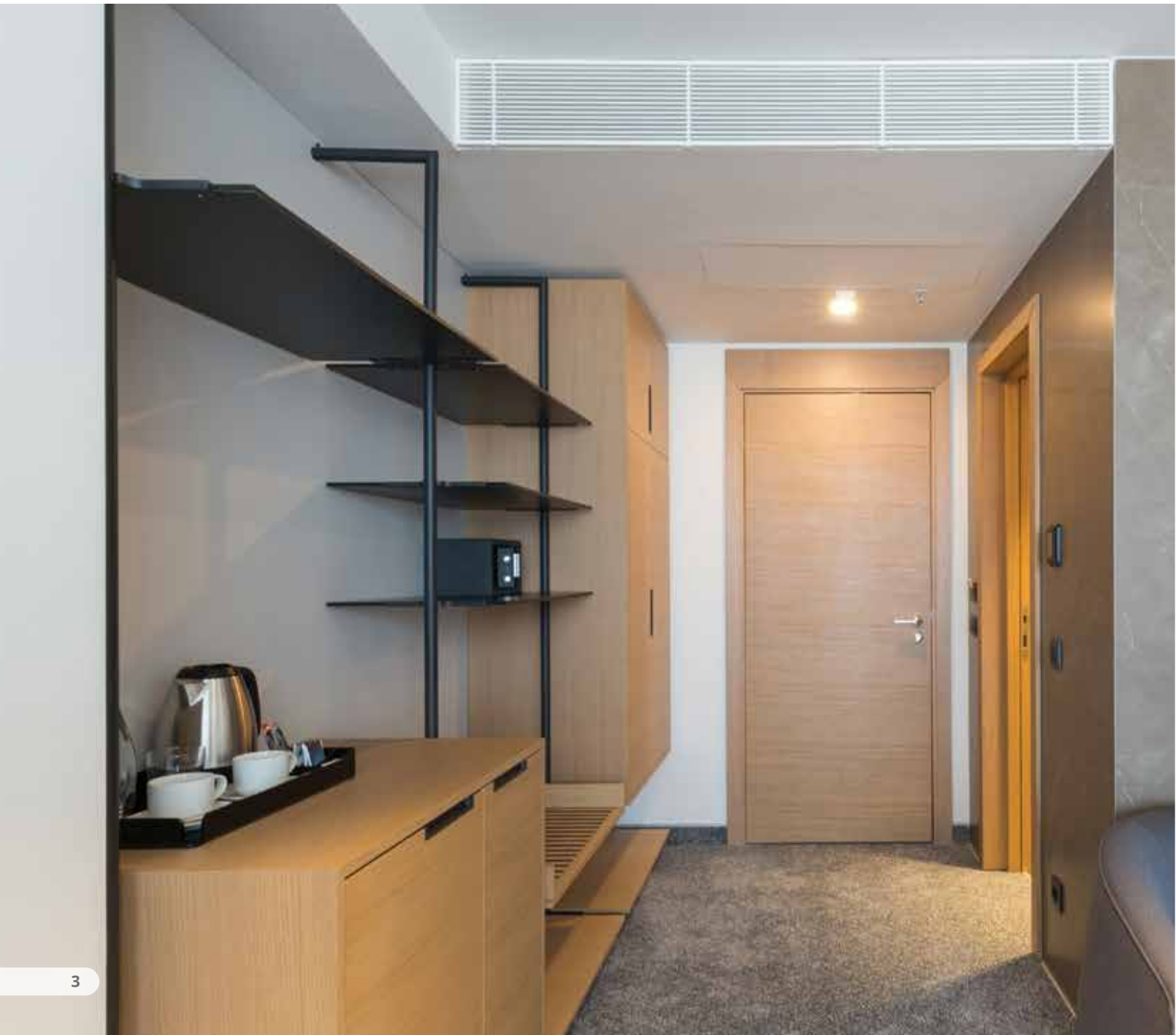
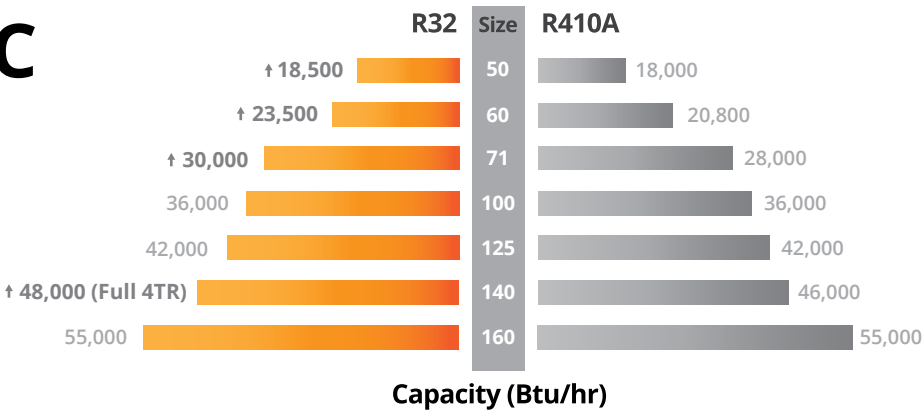
Our advanced R32 refrigerant system significantly decreases environmental impact by reducing the refrigerant charge by 10-30%. This not only lowers the overall global warming potential but also enhances system efficiency, making it a smart and responsible choice for a greener future.

*Source: Values for 100-year global warming potential(GWP) from IPCC Fourth Assessment Report. 100-year GWP: comparison of 2090 (HFC410A) and 675 (HFC32).



CEILING CONCEALED MEDIUM STATIC PRESSURE

Daikin's discreet ceiling concealed units delivers robust, energy-efficient cooling using advanced R32 refrigerant, offering comfort while preserving the aesthetic appeal of your space.



Fire Retardant Materials

The parts in the indoor unit are designed using fire retardant materials such as metal fan motor, class 0 fire rating internal insulation material, metal drain pan, metal conduit, and metal blower which will be suitable for the usage of public area in Hong Kong.



15%
more efficient for better
**energy
savings**

R32 refrigerant properties provide better heat transfer compared to R410A refrigerant, therefore, the efficiency is tremendously improved by 15%.

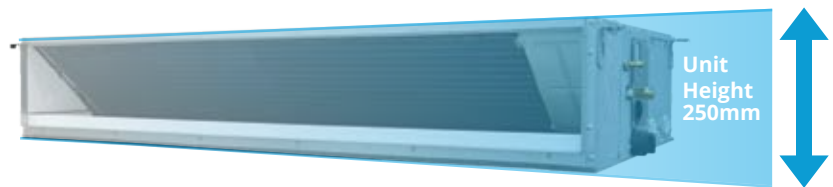
Sleek Design & Simple Installation

Daikin air conditioners boast a sleek, intuitive design that allows for hassle-free installation and effortless maintenance, offering a seamless experience from set-up to on-going service.



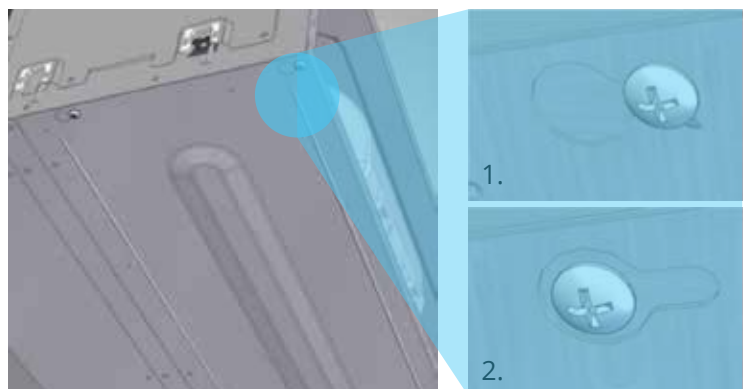
Ultra-Slim Unit Height

These units are ideal for installation in buildings with limited ceiling space, thanks to their ultra-low height.



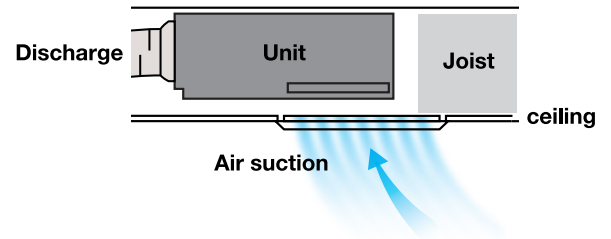
Pre-Holding Design for Easy Setup

The bottom panel and control box feature a Pre-Holding Design, simplifying installation and potentially reducing labour time and effort.

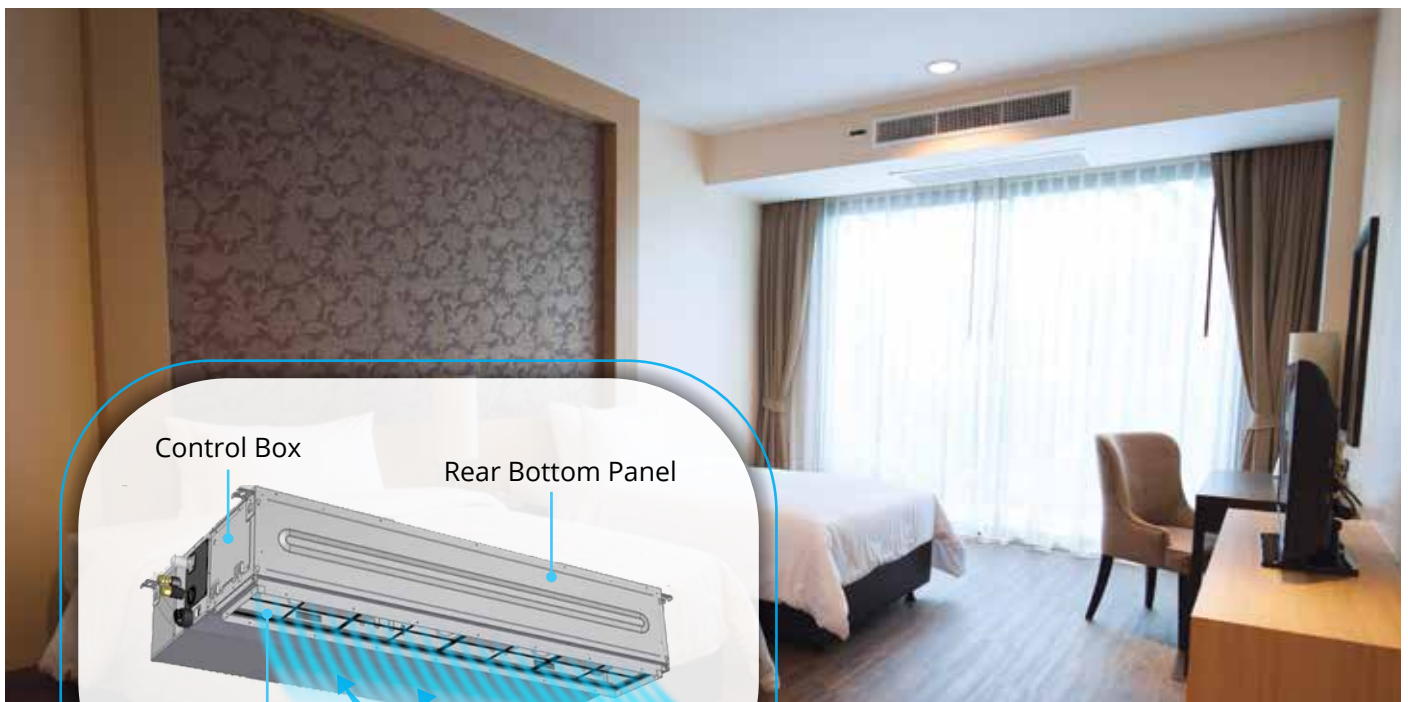


Versatile Air Return Options

The ceiling-concealed units offer flexible air return configurations, allowing easy adjustment from rear to bottom return, ensuring they adapt perfectly to the building's structural design.



Free Rear Return

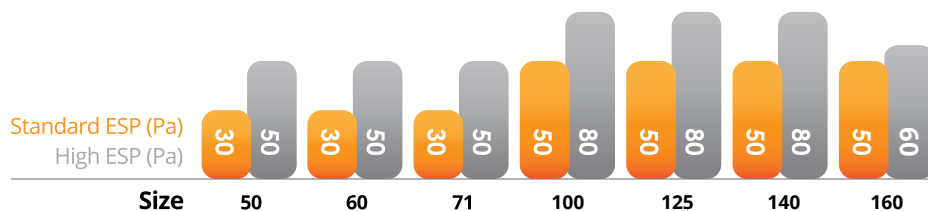
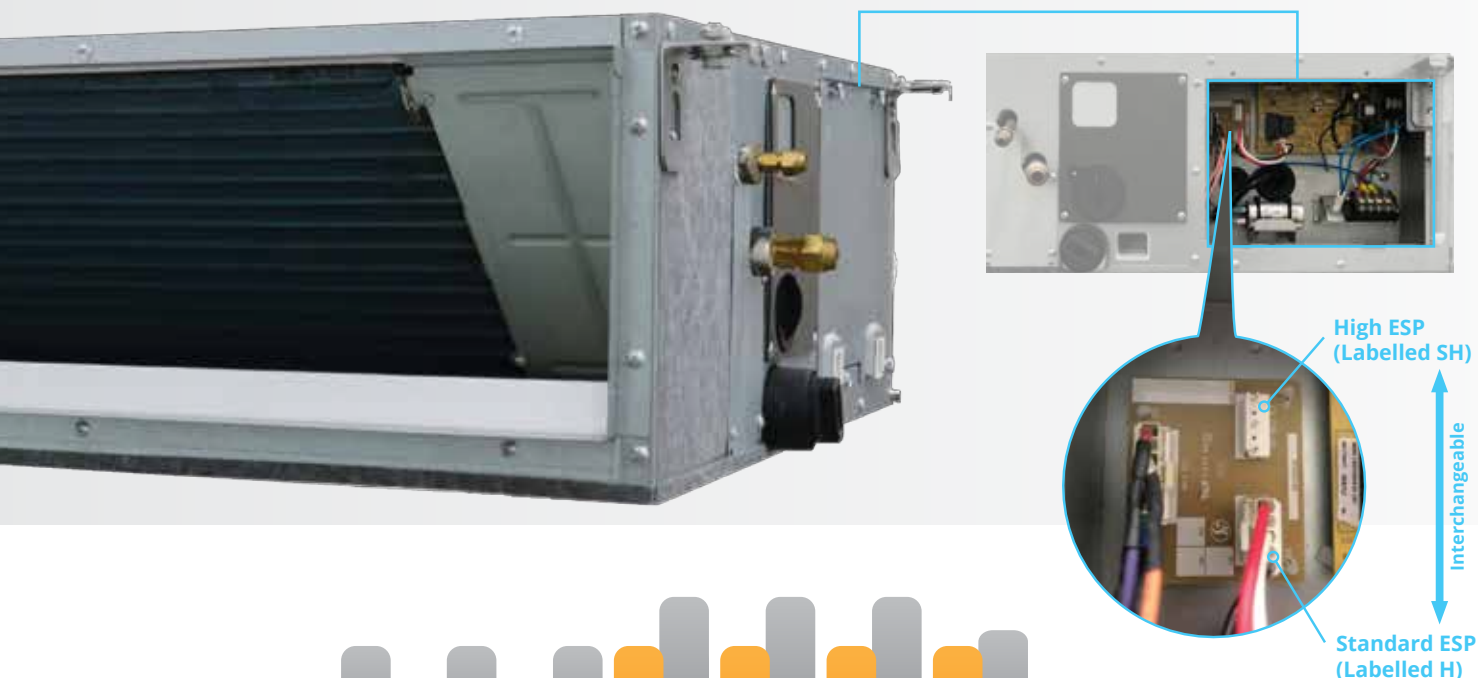


Bottom Return

Easily Adjustable External Static Pressure (ESP)

The system allows for simple ESP adjustment with two selectable levels, made by switching the connector inside the control box, as illustrated below. Based on the ductwork design tailored for optimal comfort, this adjustment can be quickly configured during installation directly at the control box.

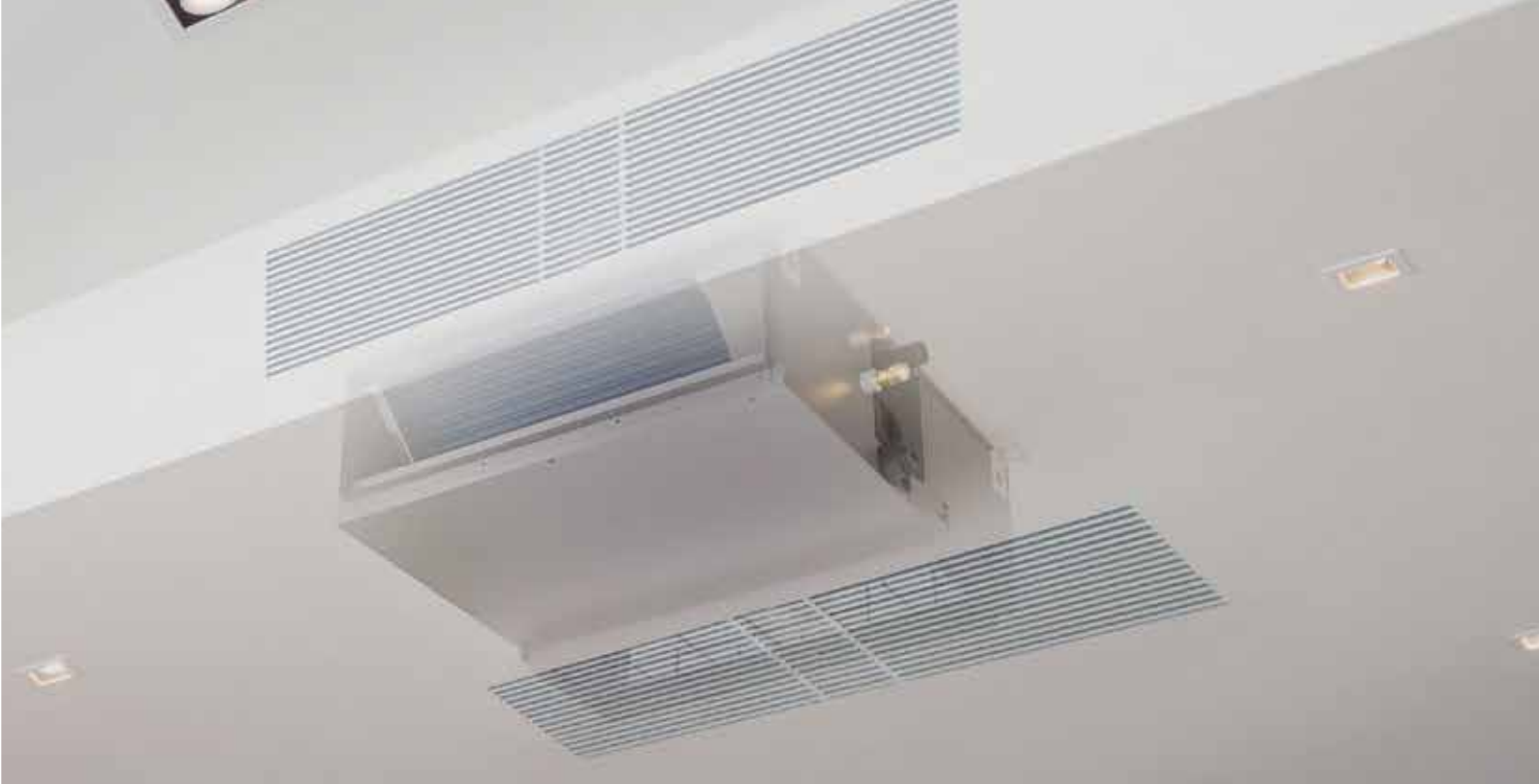
Control Box



Quiet Operation

With a new ceiling concealed design incorporating a blow-through concept, this unit ensures consistent airflow and operates with minimal noise, creating a calm and serene environment.

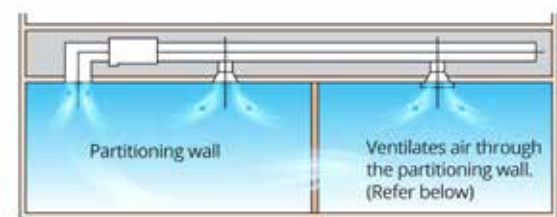
As low as 37dBA
(Based on class 50)



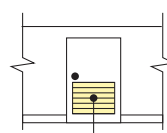
Dual-Room Air Conditioning and Ventilation Grilles (Ventilation Opening)

When cooling two rooms simultaneously, it's essential to ensure proper air circulation between the spaces. To facilitate this, a ventilation duct should be installed in each room, or a ventilation grille can be placed on the partition wall or beneath the door, enabling the airflow to return to the air conditioner.

Note: The under-door cutout method should be used only when there is a small volume of airflow.

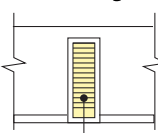


Door-installed
Ventilation Grille



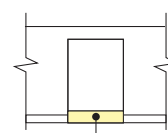
Ventilation Grille

Wall-installed
ventilation grille



Ventilation Grille

Under-door
cutout



Under-door Cutout

CEILING CONCEALED LOW STATIC PRESSURE

Daikin's discreet ceiling concealed units delivers robust, energy-efficient cooling using advanced R32 refrigerant, offering comfort while preserving the aesthetic appeal of your space.



Fire Retardant Materials

The parts in the indoor unit are designed using fire retardant materials such as metal fan motor, class 0 fire rating internal insulation material, metal drain pan, metal conduit, and metal blower which will be suitable for the usage of public area in Hong Kong.

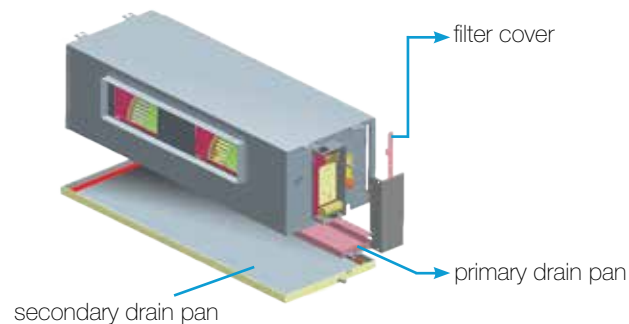


9% more efficient for better energy savings

R32 refrigerant properties provide better heat transfer compared to R410A refrigerant. Therefore, the efficiency is improved by 9%

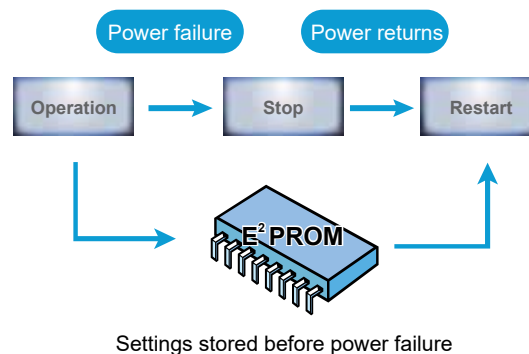
Double Drain Pan Protection

The primary drain pan is designed with high thermal insulation material and moulded in gradient for better condensate water drainage. The extra secondary drain pan built into the standard unit offers extra protection against possible water leaking problems.



Auto Random Restart with Last-State-Memory

In the event of a sudden power failure during operation, unit restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed). This ensures that air conditioners in building resume randomly instead of all units the same resuming at the same time, preventing power surge after a blackout.



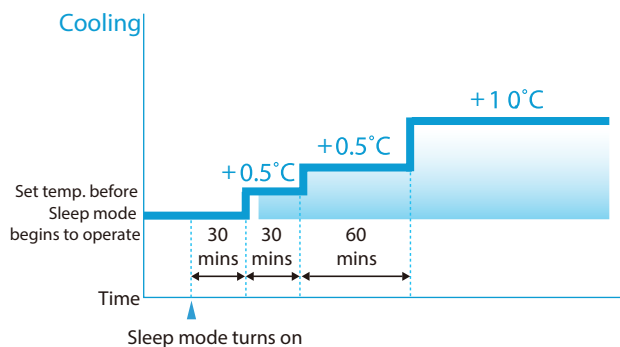
Self Diagnosis Feature

The microprocessor provides the possibility to detect and diagnose any faults that occur in the system. Faults are displayed as error codes in the wired controller. This eases troubleshooting process.



Sleep Mode

Pressing the Sleep button activates the Sleep Mode. This function prevents excessive cooling for a pleasant sleep.



Cooling operation:

- 1) After 30 minutes, room temperature is raised by 0.5°C.
- 2) After 60 minutes, room temperature is raised by 0.5°C.
- 3) After 120 minutes, room temperature is raised by 1°C.



Quiet Operation

Enjoy uniform air distribution and extremely quiet operation.

As low as 32dBA

OUTDOOR UNITS

Achieve superior cooling performance with our high performance R32 Compressor, designed for optimal energy efficiency and environmental friendliness. Enjoy dependable comfort while reducing energy expenses.



High Performance R32 Compressor

R32 Non-Inverter SkyAir is utilizing high performance compressors to achieve higher efficiency.

Outdoor Heat Exchanger

Anti-Corrosion Gold fin is supply as standard from factory. It provide longer life span of the heat exchanger as compared with normal aluminium bare fin.

Enhanced Durability

Adopted zinc coated heavy gauge galvanized steel, with exterior surfaces finished with a weather resistant polyester powder casing, painted with ivory white colour to increase durability.

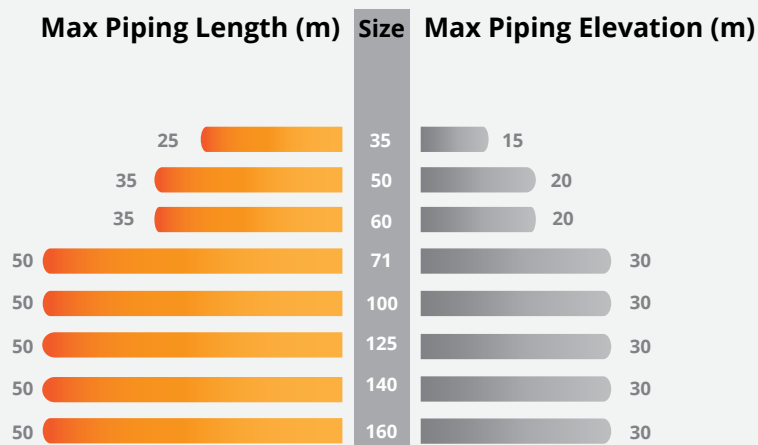
V-cut Propeller Fan

Utilizing a V-cut propeller fan inspired by the graceful efficiency of migratory swans, our design guarantees smooth airflow by minimizing friction loss. This innovation not only significantly boosts performance but also lowers sound pressure levels.



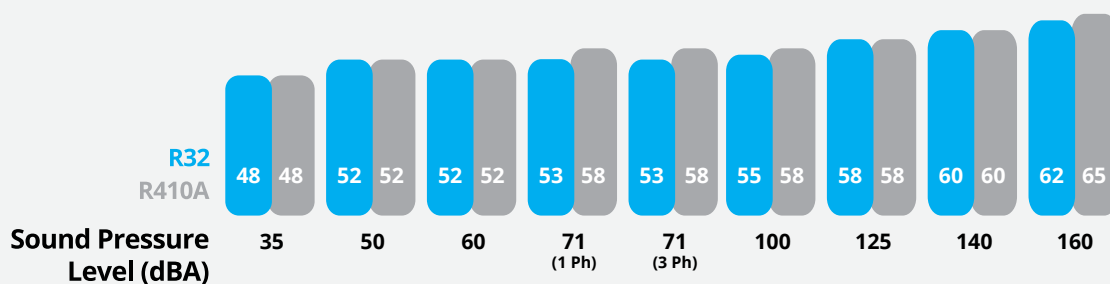
Long Piping Length

Improved piping length to provide installation flexibility.



Quiet Operation

Enjoy the comfort of exceptional calmness with advanced sound reduction technology.

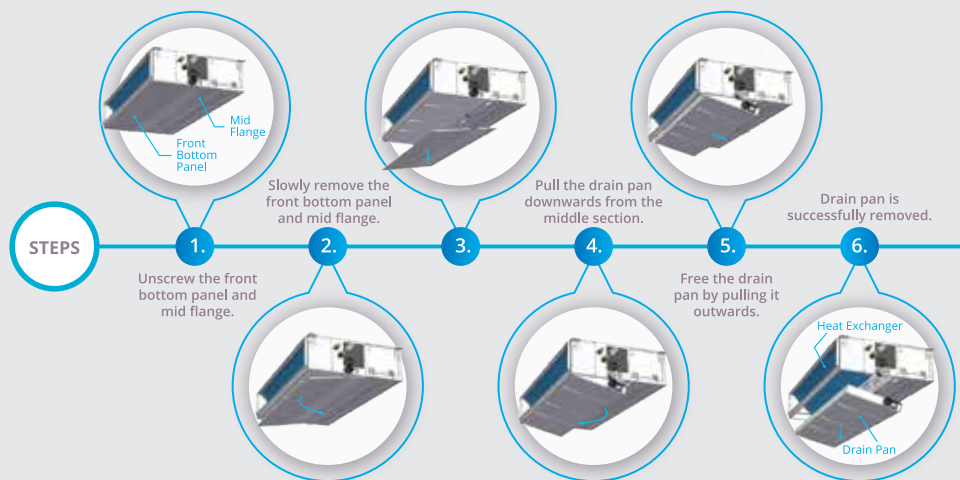




CEILING CONCEALED

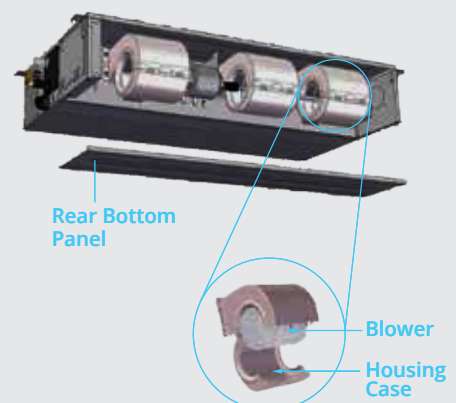
Easy Access to Drain Pan and Coil

The drain pan and coil are effortlessly accessible by simply removing the front bottom panel and middle flange. By following the steps outlined below, you'll have clear access to the coil after removing the drain pan.



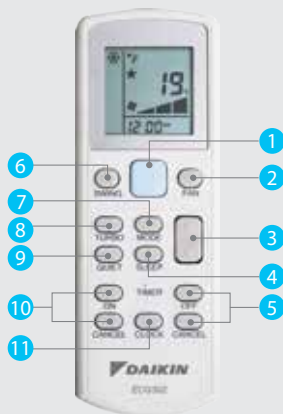
Convenient Access to Blowers and Motors

Blowers and motors can be easily reached by removing the rear bottom panel and mid flange. Additionally, blowers can be detached from the housing swiftly by opening the housing case.



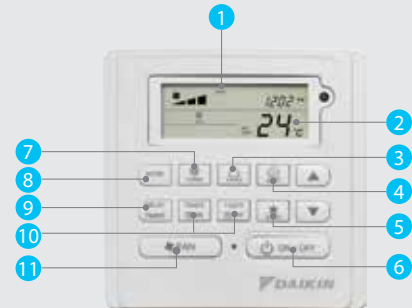
CONTROLLER

Wireless Controller BRC52A62 (Optional)



- 1 "Glow-in-the-dark" ON/OFF switch
- 2 Fan speed selection: Low, Medium, High, Auto
- 3 Temperature setting: Up & down
- 4 Sleep mode function
- 5 Off timer setting
- 6 Vertical auto-swing
- 7 Selectable mode: Cool, Dry, Fan
- 8 Turbo function
- 9 Quiet function
- 10 On timer setting
- 11 Real time clock

Wired Controller BRC51A62



- 1 Real time clock and day display
- 2 Temperature operate in °C and °F
- 3 Swing function
- 4 Quiet function
- 5 Sleep function
- 6 ON/OFF switch
- 7 Turbo function
- 8 Cool, Dry, Fan mode
- 9 Delay timer (1 or 2 hours)
- 10 7-days programmable timer
- 11 Low, Medium, High, Auto fan speed

Wired Controller BRC51D62 (Optional)



- 1 Temperature Setting
- 2 ON/OFF Button
- 3 Mode: Press to select operating mode: COOL, DRY or FAN
- 4 Timer
- 5 Features Selection (Sleep)
- 6 Fan Operation
- 7 View (Backlight)

Remark : The remote wired controller BRC51A62 is supplied as standard. Kindly refer to the Function Overview for applicable functions.

Built-in Temperature Sensor in Wired Controllers

All wired controllers has a built-in temperature sensor that enables temperature sensing closer to target area for improved comfort. It can be connected directly to the unit's main board to start operating without extra settings or modifications. This feature can be set by installers during the commissioning.

FUNCTIONS OVERVIEW

Comfort Airflow	4-way Airflow Operation	
	8-way Airflow Operation	
	Auto Fan Speed	
	Indoor Unit Quiet Operation	
	Auto Swing	
Operation	Program Dry Function	
	Fan Only	
Lifestyle Convenience	Indoor Unit ON/OFF Button	
	Signal Receiving Sign	
	R/C With Back Light	
Cleanliness	Saranet Filter	
	Gin-ION Filter	
	Ionizer	
	Washable Grille	
Worry Free (Reliability & Durability)	Auto-Restart After Power Failure	
	Self-Diagnosis	
	Wiring Error Check Function	
	Anti-Corrosion Treatment of Outdoor Heat Exchanger	
Flexibility	ESP Selection	
	Water Pump (Water Drainage Pipe Flexibility)	
	F/°C Changeover R/C Temperature Display (Factory Setting: °C)	
Remote Control (R/C)	Wireless LAN Connectivity	
	Weekly Timer (Wired Controller)	
	24-hour ON/OFF Timer	
	BAG Plus Connectivity	
	Wireless (BRC52A62)	
	Wired (BRC51A62)	
	Wired (BRC51D62) (Backlight)	

- Not Available
- Standard
- * Optional
- *1 Optional (The use of wireless controller requires the connection of wired controller to receive signal)



Ceiling Concealed
(M.S.P)



Ceiling Concealed
(L.S.P)

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	-	-
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	●	●
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	●*	●*
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	-	-
	-	-
	-	-
	●	●
	●	●
	All 3-phase models (class 71 - 160)	-
	Gold Fin	Gold Fin
	●	-
	●*	●*
	●	●
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	●	●
	●*	●*
	●*	●*
	●*1	●*1
	●	●
	●*	●*

SPECIFICATIONS



FDMC-A



FDBC35AV1H

Ceiling Concealed Specifications

MODEL			INDOOR UNIT	FDBC35A	FDMC50A	FDMC60A	FDMC71A
			OUTDOOR UNIT	RC35A	RC50A	RC60A	RC71A (1 Ph)
Rated Cooling Capacity			Btu/h	12000	18500	23500	30000
			kW	3.52	5.42	6.89	8.79
Total Power			W	1143	1750	2290	2770
Total Current			A	5.05	7.74	10.30	12.20
EER			W/W	3.08	3.10	3.01	3.17
Power supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Indoor	Airflow (H/M/L)		CFM	510/460/370	590/525/460	590/525/460	950/810/700
	External Static Pressure (Std/High)		Pa	36/-	30/50	30/50	30/50
	Sound Pressure Level (H/M/L)		dBA	39/36/32	43/40/37	43/40/37	43/40/37
	Dimension (H x W x D)	Unit	mm	261 X 905 X 411	250 X 700 X 700	250 X 700 X 700	250 X 1000 X 700
		Package	mm	376 X 1091 X 541	337 X 916 X 924	337 X 916 X 924	337 X 1216 X 924
	Weight	Unit	kg	22	29	29	39
Outdoor	Sound Pressure Level		dBA	48	52	52	53
	Dimension (H x W x D)	Unit	mm	550 X 658 X 273	615 X 845 X 300	615 X 845 X 300	695 X 930 X 350
		Package	mm	610 X 781 X 363	679 X 992 X 414	679 X 992 X 414	760 X 1084 X 473
	Weight	Unit	kg	28	40	46	56
Pipe Connection Size			Liquid	mm	6.4	6.4	9.5
Pipe Connection Size			Gas	mm	9.5	12.7	15.9
Maximum Piping Length			m	25	35	35	50
Maximum Piping Elevation			m	15	20	20	30
Heat Insulation				Both Liquid and Gas Piping			

MODEL			INDOOR UNIT	FDMC71A	FDMC100A	FDMC125A	FDMC140A	FDMC160A
			OUTDOOR UNIT	RC71A (3 Ph)	RC100A	RC125A	RC140A	RC160A
Rated Cooling Capacity			Btu/h	29500	36000	42000	48000	55000
			kW	8.65	10.55	12.31	14.07	16.12
Total Power			W	2720	3250	3660	4100	4950
Total Current			A	4.52	6.00	6.85	7.51	8.73
EER			W/W	3.18	3.25	3.36	3.43	3.26
Power supply			V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Indoor	Airflow (H/M/L)		CFM	950/810/700	1260/1095/920	1260/1095/920	1260/1095/920	1400/1280/1120
	External Static Pressure (Std/High)		Pa	30/50	50/80	50/80	50/80	50/60
	Sound Pressure Level (H/M/L)		dBA	43/40/37	44/41/38	44/41/38	44/41/38	46/44/41
	Dimension (H x W x D)	Unit	mm	250 X 1000 X 700	250 X 1400 X 700	250 X 1400 X 700	250 X 1400 X 700	250 X 1400 X 700
		Package	mm	337 X 1216 X 924	337 X 1616 X 924	337 X 1616 X 924	337 X 1616 X 924	337 X 1616 X 924
	Unit Weight	Unit	kg	39	51	51	54	55
Outdoor	Sound Pressure Level		dBA	53	55	58	60	62
	Dimension (H x W x D)	Unit	mm	695 X 930 X 350	852 X 1030 X 400	852 X 1030 X 400	852 X 1030 X 400	852 X 1030 X 400
		Package	mm	760 X 1084 X 473	995 X 1136 X 516	995 X 1136 X 516	995 X 1136 X 516	995 X 1136 X 516
	Unit Weight		kg	57	64	79	84	84
Pipe Connection Size		Liquid	mm	9.5	9.5	9.5	9.5	9.5
Pipe Connection Size		Gas	mm	15.9	15.9	15.9	15.9	19.1
Maximum Piping Length			m	50	50	50	50	50
Maximum Piping Elevation			m	30	30	30	30	30
Heat Insulation			m	Both Liquid and Gas Piping				

Remarks:

1. Due to product innovation, all specifications are subjected to change by the manufacturer without prior notice.
2. All units are being tested and comply to ISO13253 (Ceiling Concealed unit).
3. Nominal cooling capacity are based on the conditions: 27°C DB / 19°C WB indoor and 35°C DB outdoor.
4. Sound pressure levels are measured in anechoic chamber. During actual operation, sound pressure level will be higher as a result of room specification condition.

PRODUCT FEATURES

Comfort Airflow

Auto Fan Speed

Airflow rate is automatically controlled in accordance with the difference between room temperature and set temperature.

Operation

Program Dry Function

Dehumidification is microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature. Useful for reducing uncomfortable humidity without uncomfortable cooling of the room.

Fan Only

Unit will only operate with fan which provides airflow without supply of cool air.

Lifestyle Convenience

Remote Controller with Back Light

Lit up display for SHIRO wired controller allows user to use in the dark.

Control

Weekly Timer (Wired Controller)

Up to five operation ON/OFF settings and temperature settings can be programmed per day and each day of the week.

24-Hour ON/OFF Timer

Operation starts when the preset time of ON timer elapses and stops when preset time of the OFF timer elapses.

Worry Free

Auto-Restart with Surge Protection

If there is a sudden power failure, the unit will automatically restart with 64 different recovery patterns according to its last settings. This also prevents a sudden surge of electricity to your power source.

Self – Diagnosis Function

This intelligent feature helps to detect faults of malfunctioning in the system. Warning can be found through display error code in wired LCD remote controller. This information can be found in Installation Manual.

Wiring Error Check Function

Protection to prevent wrong wiring connection for 3 phase models.

Anti-Corrosion Treatment Outdoor (Gold Fin)

Gold fin offers increased corrosion resistance of outdoor fin.

Flexibility

ESP Selection

2-different ESP can be easily selected by switching the connector inside the control box. According to duct design required for comfort, the adjustment can be done easily during installation at control box. (FDMC-A only)

°F/°C Changeover

Set temperature can be set to °F or °C on remote controller.

Water Pump (Water Drainage Pipe Flexibility)

Drain pump is an optional accessory for new ceiling concealed model. If drain pump is required, it could be purchased as accessories.

Accessories List

NO	Optional Accessories	FDBC-A	FDMC-A
1	Wireless Controller, BRC52A62		R04089036296A
2	Wired Controller (SHIRO), BRC51D62		R50089045240B
3	BMS Access Gateway (BAG) Plus		R04084168512
4	Internal Drain Pump **	N/A	BDU511A160V1

Note:
Model number will be subjected to be changed by manufacturer
It is advisable to check with DAMA Spare Parts Team for the latest

** The optional drain pumps listed are not comply to FSD.

Daikin Malaysia Sdn. Bhd.

Lot 60334, Persiaran Bukit Rahman Putra 3,
Taman Perindustrian Bukit Rahman Putra,
47000 Sungai Buloh, Selangor Darul Ehsan,
Malaysia.

www.daikinmalaysia.com

DAIKIN INDUSTRIES, LTD.

Head office:

Osaka Umeda Twin Towers South, 1-13-1, Umeda,
Kita-Ku, Osaka, 530-0001, Japan.

*Note: 1) Specifications, design and other content
appearing in this brochure are current as of October
2025 by subject to change without prior notice.
2) All pictures shown are for illustration purpose
only. Actual product may vary due to product
enhancement.*