


- Warning** 
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.
- If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

The specifications, designs and other content included in the brochure are current as of July 2019 and are subject to change without notice.

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PCRM1727A

Inverter Multi-Split Type Air Conditioner S Series

DC Inverter Control Cooling Only 50 Hz **R-32**



No Space for Three Outdoor Units?

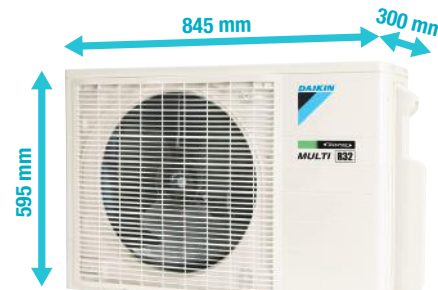
You need to cool three rooms but your balcony is too small for three outdoor units? Daikin has the perfect solution: S series multi-split air conditioners! Just one powerful outdoor unit can drive up to three indoor units. Both 5.0 and 7.0 kW class outdoor units feature highly compact dimensions.



Split-type air conditioners

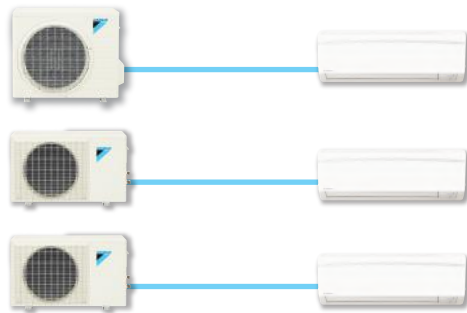


The 5.0 kW class outdoor unit

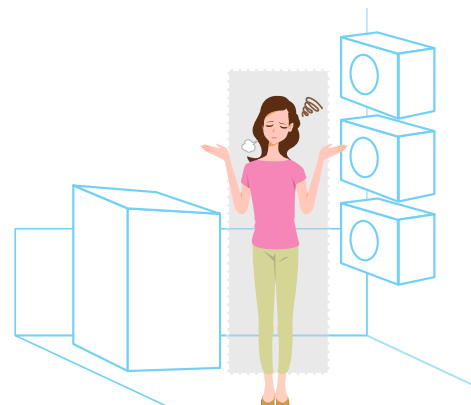


The 7.0 kW class outdoor unit

Split Type Air Conditioners

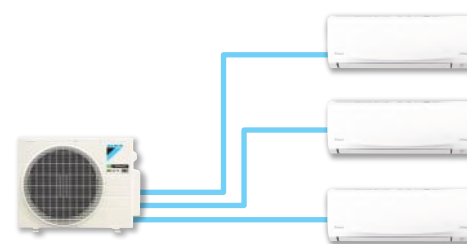


With split type air conditioners, you need one outdoor unit for every indoor unit. Three rooms mean three outdoor units.

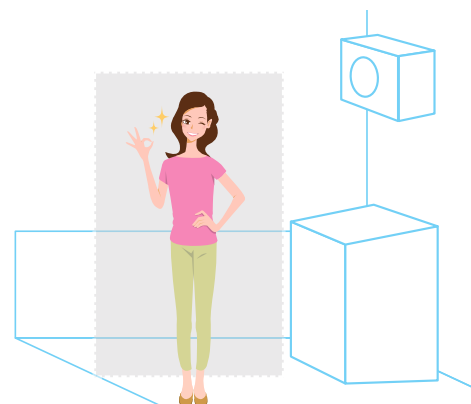


If three outdoor units are installed on a balcony, the workspace is too narrow.

Multi-Split Type Air Conditioners



With multi-split systems, a single outdoor unit can easily power several indoor units. Three rooms only require one outdoor unit.



If you install the S series multi-split outdoor unit, you always have enough space.

Fast Cooling and More Energy Saving Compared to Inverter Single Split System

If you think you have to choose between powerful cooling and energy saving, just try Daikin Inverter Multi S series.

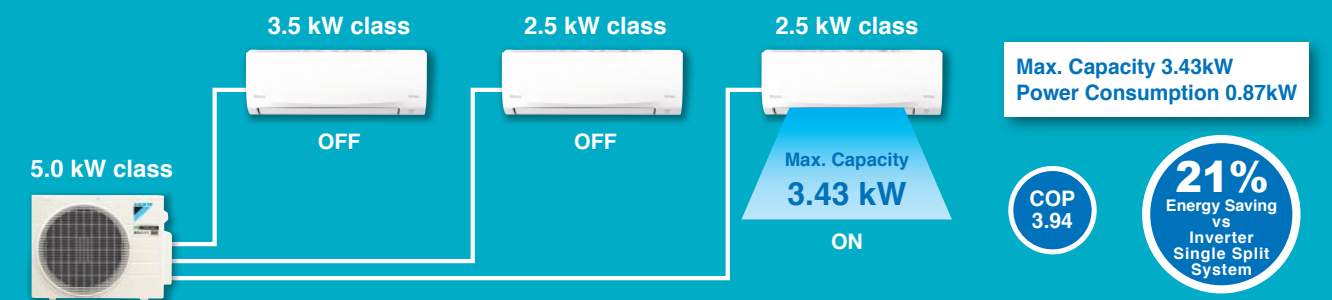
With Daikin multi split system, a single outdoor unit can achieve faster and more powerful cooling by 120% to 144% in case of one unit operation.

MAX CAPACITY AT 1 UNIT OPERATION

Outdoor Unit	Indoor Capacity (kW)	Max Capacity (kW)	Capacity Up (kW)
MKC50RVM	2.50	3.43	137%
	3.50	4.20	120%
MKC70SVM	2.50	3.60	144%
	3.50	4.60	131%
	5.00	6.10	122%

Daikin Inverter Multi S energy efficiency is higher especially when one unit is in operation as compared to Inverter Single Split system. Thus it helps to reduce electricity consumption.

Inverter Multi-S System

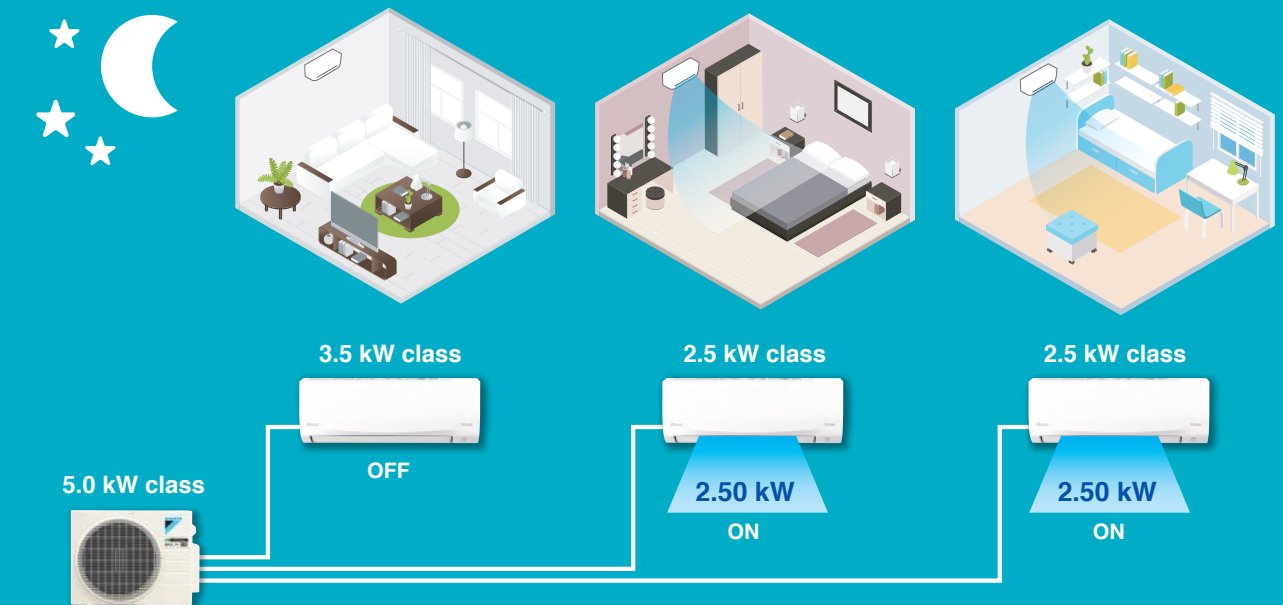


Inverter Single-Split System



Capacity Sharing between Indoor Units

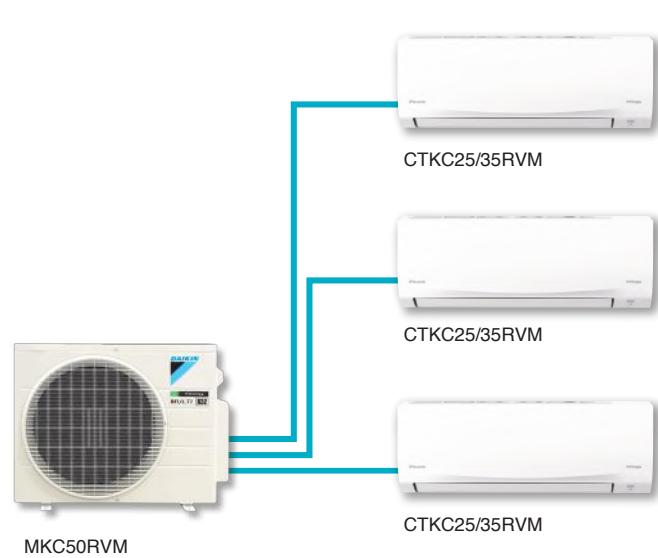
If you use three split indoor units of 3.5+2.5+2.5 kW, you also need three outdoor units with a total capacity of 8.5 kW. With the S series multi-split type air conditioner, you only require a single 5.0 kW outdoor unit. The S series outdoor unit can power indoor units with up to 170% of its rated capacity!



In most family homes, it is unusual for all indoor units to operate together. During the day, people tend to use shared spaces such as the family room. At night, they mainly use the bedrooms. This is why a multi-split outdoor unit can be connected to indoor units which exceed its capacity.

Daikin inverter multi-split type S series units are connectable at up to 170%. The outdoor unit shares power between indoor units as needed, allowing a smaller capacity to effectively air condition the areas which are being used. This helps to keep power consumption to a minimum.

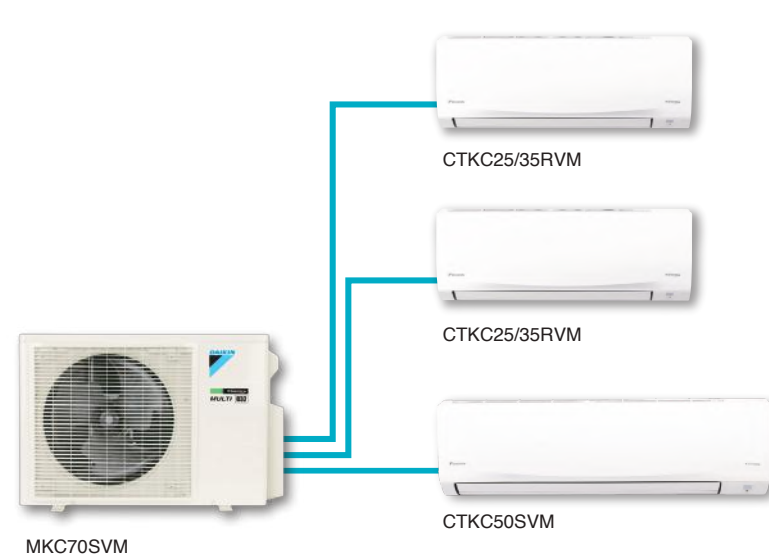
Inverter Multi-Split Type Air Conditioners S Series



DC Inverter R-32	
5.0 kW class MKC50RVM	
Connectable to up to three indoor units	
Maximum connected indoor unit capacity	8.5 kW
Rated cooling capacity	5.0 kW
2.5 kW class	CTKC25RVM
3.5 kW class	CTKC35RVM

Possible Combinations for Indoor and Outdoor Units

kW class	2.5	3.5	5.0
MKC50RVM	●	●	
MKC70SVM	●	●	●



DC Inverter R-32	
7.0 kW class MKC70SVM	
Connectable to up to three indoor units	
Maximum connected indoor unit capacity	12.0 kW
Rated cooling capacity	7.0 kW
2.5 kW class	CTKC25RVM
3.5 kW class	CTKC35RVM
5.0 kW class	CTKC50SVM

30% Energy Saving with Inverter Technology

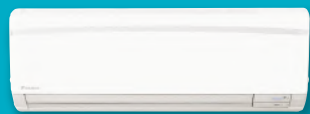
30% Less Electricity Use than Non-Inverter Types

Inverters are devices which are able to vary their capacity by adjusting operating frequency. This allows inverter air conditioners to reduce electricity use compared to non-inverter models.

An inverter system can help to noticeably reduce electricity consumption. S series multi-split units reduce energy usage up to 30% compared to non-inverter split models thanks to Daikin's DC Inverter technology.

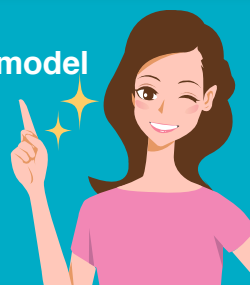
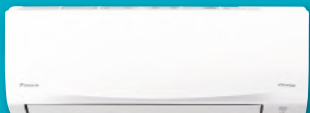
Energy efficiency

Non-inverter split model



100%

S series inverter multi-split model

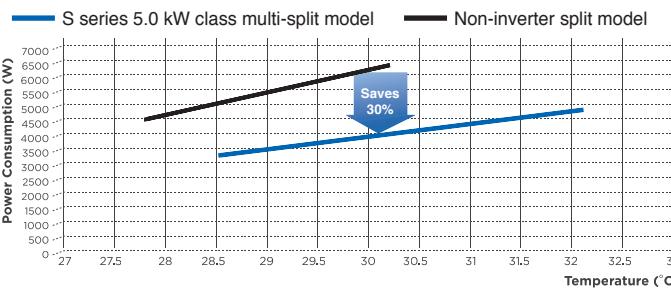


70%

Reduction of
30%

The value of 100% represents the amount of electricity used by a non-inverter model over a one month period. This was tested by Daikin in Thailand. Please see below.

Power Consumption and Average Ambient Temperature

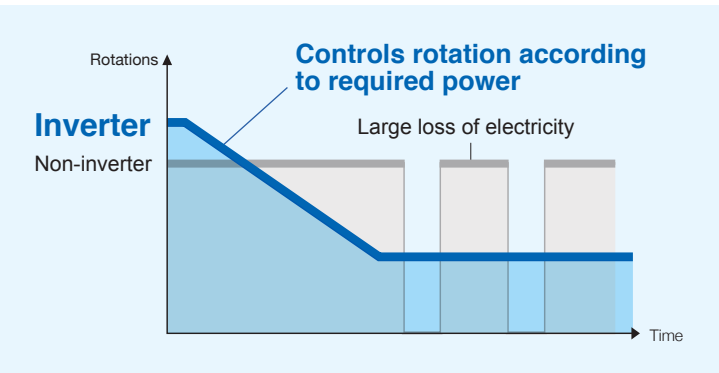


The S series 5.0 kW class multi-split unit delivered energy savings of up to 30% compared to the non-inverter model. It did this during a test period with outdoor temperatures which were up to 1.7°C higher!

Test Conditions
Method: Comparison of power consumption using a testing device for a one month period
Inverter model: One 5 kW S series multi-split unit for the Thailand market, with a rated COP of 4.10
Non-inverter model: Two 2.7 kW FTM-P series units for the Thailand market, with a rated COP of 3.70
Location: One bedroom and one family room of 34.05 m² in a condominium in Bangkok
Temperature: Operation with a set temperature of 25°C
Period: Non-inverter model from April 16 to May 16, Inverter model from May 16 to June 16
Timing: Family room on weekdays from 7:00 pm to 10:00 pm, Saturday from 12:00 pm to 9:00 pm, Sunday from 7:00 pm to 9:00 pm
Bedroom on weekdays from 9:00 pm to 7:00 am, Saturday and Sunday from 9:00 am to 9:00 pm

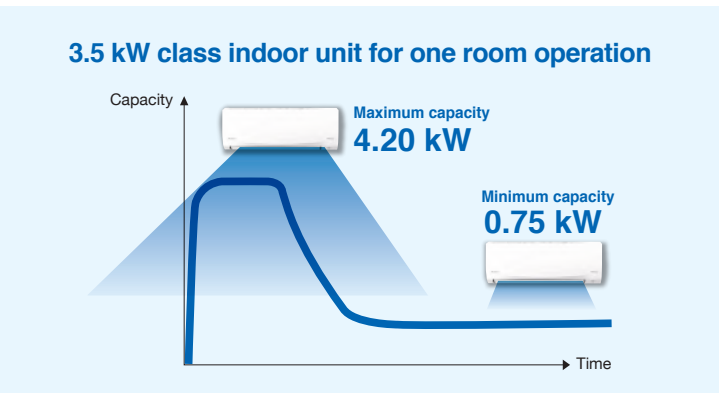
No Starting and Stopping

Inverter air conditioners vary their capacity by adjusting the rotation speed of their compressors. In contrast, non-inverter models have a fixed capacity and can only control the room temperature by starting or stopping their compressors.



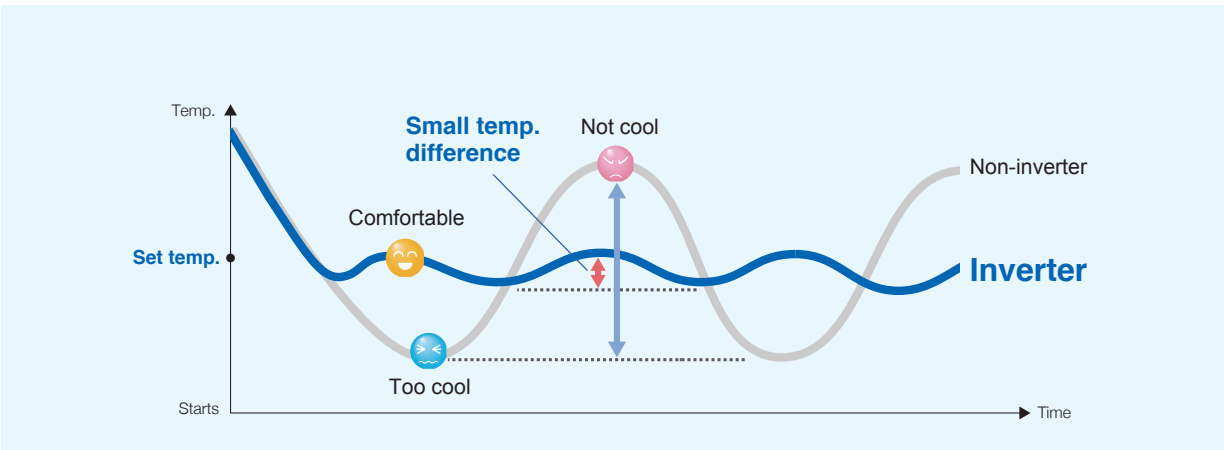
Powerful and Energy Saving

Inverter models operate at maximum capacity (100% load) to quickly reach the set temperature. They then reduce operation to low capacity (partial load), which is sufficient to maintain the set temperature. This allows inverter models to operate at low capacity most of the time.



Constant Comfort

Inverter models finely adjust their capacity according to the heat load, minimising the difference between the set temperature and room temperature. This ensures higher comfort levels than with non-inverter models.



Rapid Cooling Whenever Necessary



Super Powerful

Super Powerful mode boosts airflow to high volume until the set temperature is reached. This convenient function enables rapid cooling of a room if guests visit unexpectedly or you are just about to go to bed.

Even if all indoor units are operating, capacity is immediately diverted to the unit for which you press the Powerful button. Only multi-split systems can adjust capacity between multiple units in this way.

Multi-split type S series



Capacity is concentrated.
It only takes 19 minutes to achieve the set temperature.



Capacity is suppressed.



Capacity is suppressed.

Test Conditions

Method: Measurement of the average time required to reach a set temperature at a position 1.4 m from the installation wall
Inverter model: S series multi-split MKC50R outdoor and CTKC25R indoor units for the Thailand market
Non-inverter model: FTNE25M unit for the Thailand market
Location: Daikin laboratory (about 13 m²)
Temperature: Outdoor temperature of 35°C at 70% relative humidity, set temperature of 26°C
Airflow: Auto for the non-inverter unit and Super Powerful for the S series multi-split unit
Angle of flap and louver: Horizontal flap at the lowest angle and vertical louver at the front

Non-inverter split model

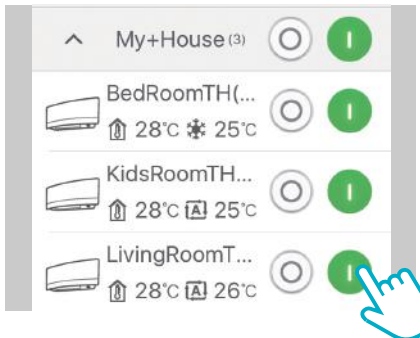


It takes 30 minutes to achieve the set temperature.



Daikin Mobile Controller (optional adaptor)

The Daikin Mobile Controller application ensures a comfortable air conditioned environment is waiting whenever you return home. The application lets you manage your S series multi-split system from anywhere.



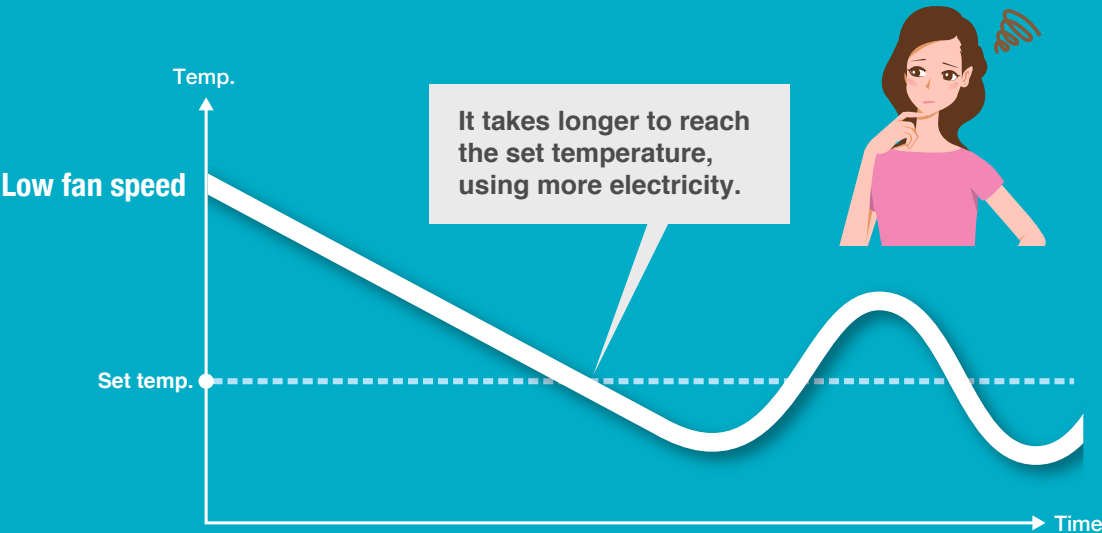
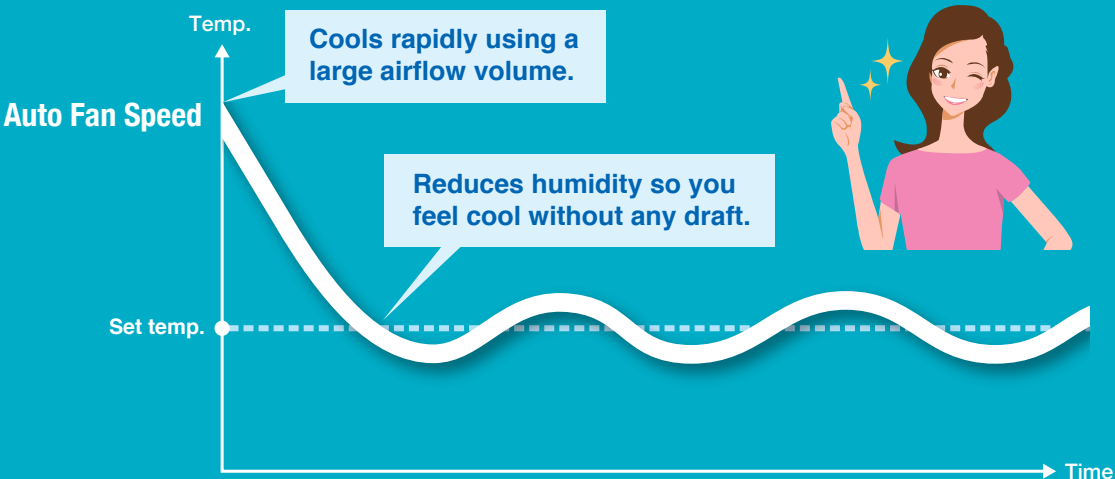
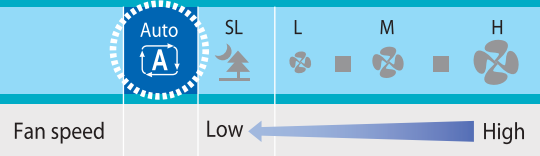
Efficiency and Comfort with No Further Setting



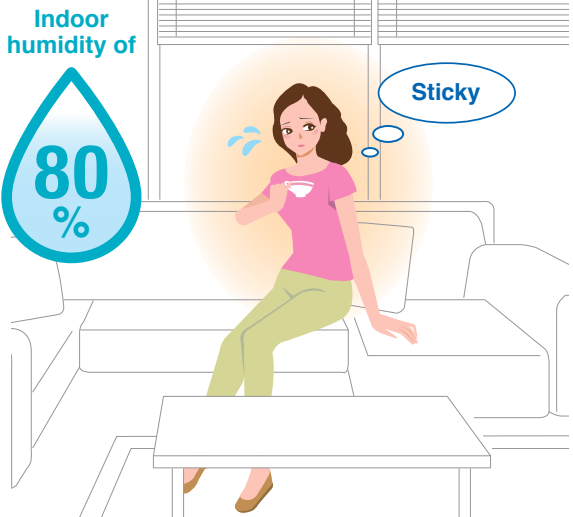
Comfortable Auto Fan Speed

If you select Comfortable Auto Fan Speed, the S series operates at maximum efficiency and comfort without any further setting. This function precisely maintains the room temperature using automatic control.

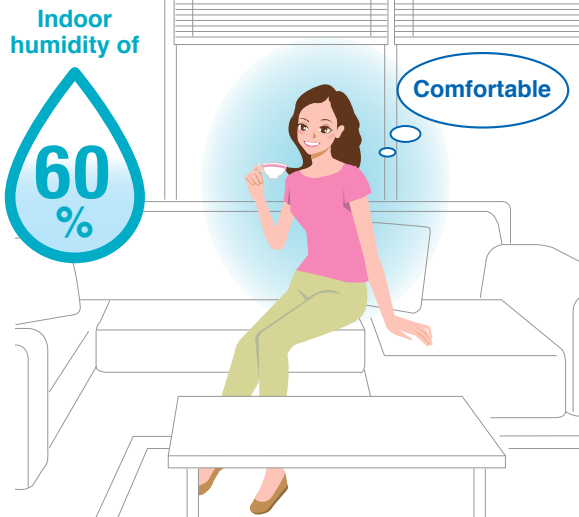
After adjusting the fan speed to high to rapidly reach the set temperature, it switches to low. When the room and set temperatures are close, it slightly increases speed to reduce humidity and ensure a comfortable balance between temperature and humidity so you feel cool without any draft¹.



Indoor temperature of 25°C

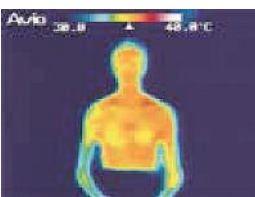


Indoor temperature of 25°C



Humans release body heat by evaporating moisture on our skin, meaning we feel cooler with lower humidity. Daikin has used this knowledge to create a more comfortable balance between temperature and humidity.

Temp.: 25°C
Humidity: 80%

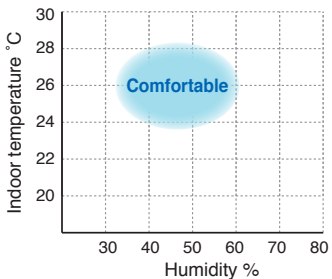


Hot and humid

Temp.: 25°C
Humidity: 50%



Comfortable



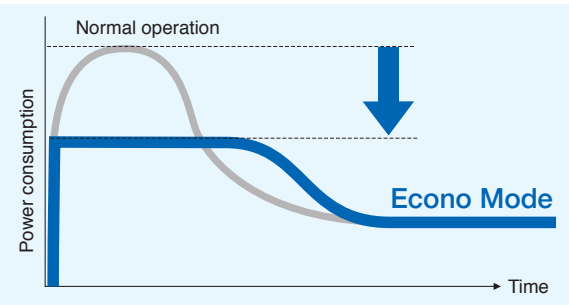
People can experience the same comfort with an indoor humidity of 40 to 60% even at 2°C above the set temperature.



Econo Mode

This function limits the maximum power consumption. It helps to reduce power usage if the cooling load is high, for example, at startup or during large gatherings and periods of direct sunshine.

Maximum capacity decreases during Econo Mode, requiring more time to reach the set temperature.



Standby Electricity Saving

In an average home, standby electricity accounts for approximately 6% of annual consumption². Many appliances have clock and monitor displays or they exchange standby instructions with wireless remote controllers. This means they continue to use electricity even when they are not operating. This function dramatically reduces standby electricity use.

Notes: 1. Suppression of humidity may not be possible depending on the heat load in a room.
2. Based on the "Standby Electricity Report", published by Japan's Ministry of Economy, Trade and Industry in 2008.

Clean and Quiet Environment



Titanium Apatite Deodorising Filter¹ (optional)

While the filter's micron-level fibres trap dust, titanium apatite effectively adsorbs odours and allergens, as well as deodorises odours. This filter delivers consistent performance for approximately three years if it is washed with water once every six months.



Odour Removal

When the cooling or dry operation starts, the indoor unit absorbs unpleasant odours before distributing the air.



Mould-Proof Air Filter

Mould-Proof Air Filter is hygienic with a mould-proof treatment.



Indoor Unit Quiet Operation

This convenient function will help you to sleep more comfortably at night. It decreases the sound pressure level by a further 3 to 7 dB(A) below the low fan speed setting.

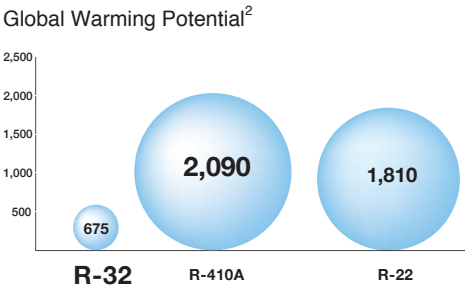
CTKC25RVM	
Fan speeds	Sound pressure levels
High (H)	38 dB(A)
Low (L)	25 dB(A)
Quiet (SL)	22 dB(A)

3 dB(A)

	Auto	SL	L	M	H
Fan speed					
Sound pressure level	Each decrease in airflow volume reduces the sound pressure level.				

Next-Generation R-32 Refrigerant

As the sole worldwide manufacturer of both air conditioning equipment and refrigerants, Daikin is continuously researching refrigerants as well as new technologies which can reduce energy consumption. Use of refrigerants with a lower impact on global warming is urgently required as climate change has become one of the most critical global issues. Daikin has now adopted R-32. This next-generation refrigerant does not deplete the ozone layer and has a lower impact on global warming.



Notes: 1. This filter is not a medical device. Benefits such as the adsorption of odours and allergens and deodorisation of odours are only effective for substances which are directly attached to the Titanium Apatite Deodorising Filter.
2. Global warming potential values are based on the Fourth Assessment Report from the Intergovernmental Panel on Climate Change.



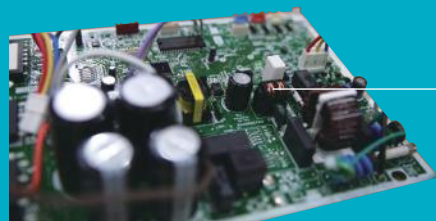
Worry-Free and Durable Design

Anti-Corrosion and Acid Rain Resistance



Heat exchanger
The surfaces of the heat exchanger fins are covered with a thin layer of acrylic resin to enhance their resistance to acid rain and salt damage. This anti-corrosion treatment meets standard JRA9002 created by the Japan Refrigeration and Air Conditioning Industry Association.

Printed circuit boards
The printed circuit boards of the indoor and outdoor units are coated with moisture-proof insulation to protect them.



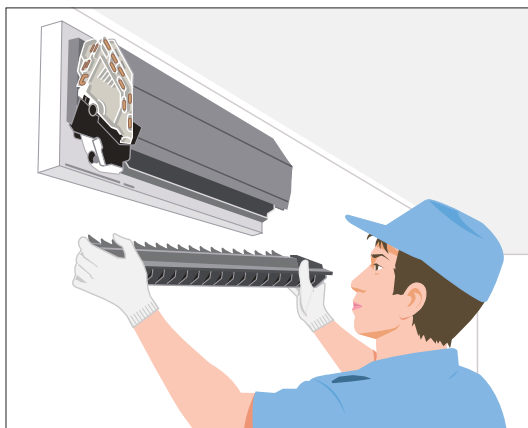
Screws and bolts
The outdoor units use highly durable screws and bolts which have passed the JASOM609 corrosion test for automotive materials.

Metal sheets
All metal sheets including the frames on the bottom of outdoor units are covered with a special corrosion-resistant layer.



Removable Drain Pan

The drain pan collects condensation formed on the indoor heat exchanger fins during cooling operation. The S series is equipped with a drain pan which can be removed easily without any disassembly. This design dramatically reduces cleaning time and ensures a perfect finish.

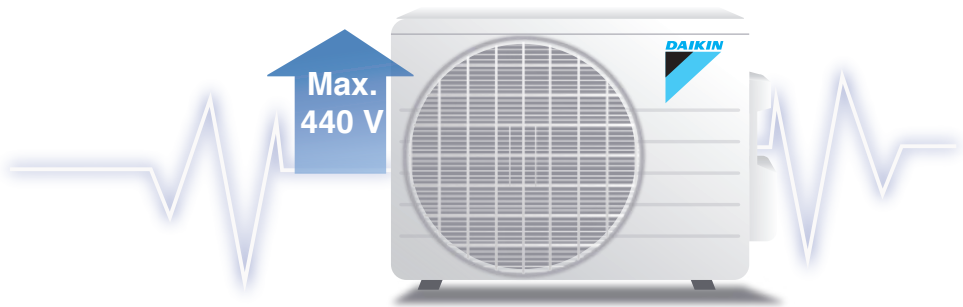


The drain pan and louvers can be easily detached after simply removing the front panel and screws.



Low/High Voltage Shield

In air conditioners, printed circuit boards work like a brain, controlling the electrical components. If this brain does not operate properly, due to problems such as an unstable power supply, your air conditioner will not function properly. To ensure the S series always operates reliably, Daikin designed all electrical components in both the indoor and outdoor units to be extremely durable. The printed circuit boards can easily handle large variations in voltage.



Auto-Restart after Power Failure

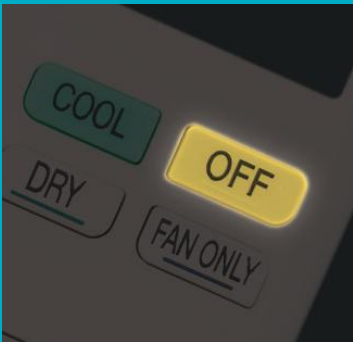
The air conditioner memorises the settings for the operation mode (cooling, dry and fan only), airflow, temperature, etc., and automatically returns to them when power is restored after a power failure.



Easy to Operate with Quick Access and Luminous Button

Wireless Remote Controller

All functions are located on the front surface of this wireless remote controller for quick access. A luminous button makes it easy to stop operation in the dark.



The luminous off button is easy to see in the dark.

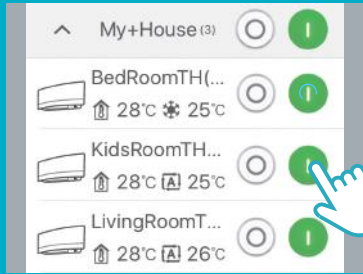


The rounded controller is easy to operate.

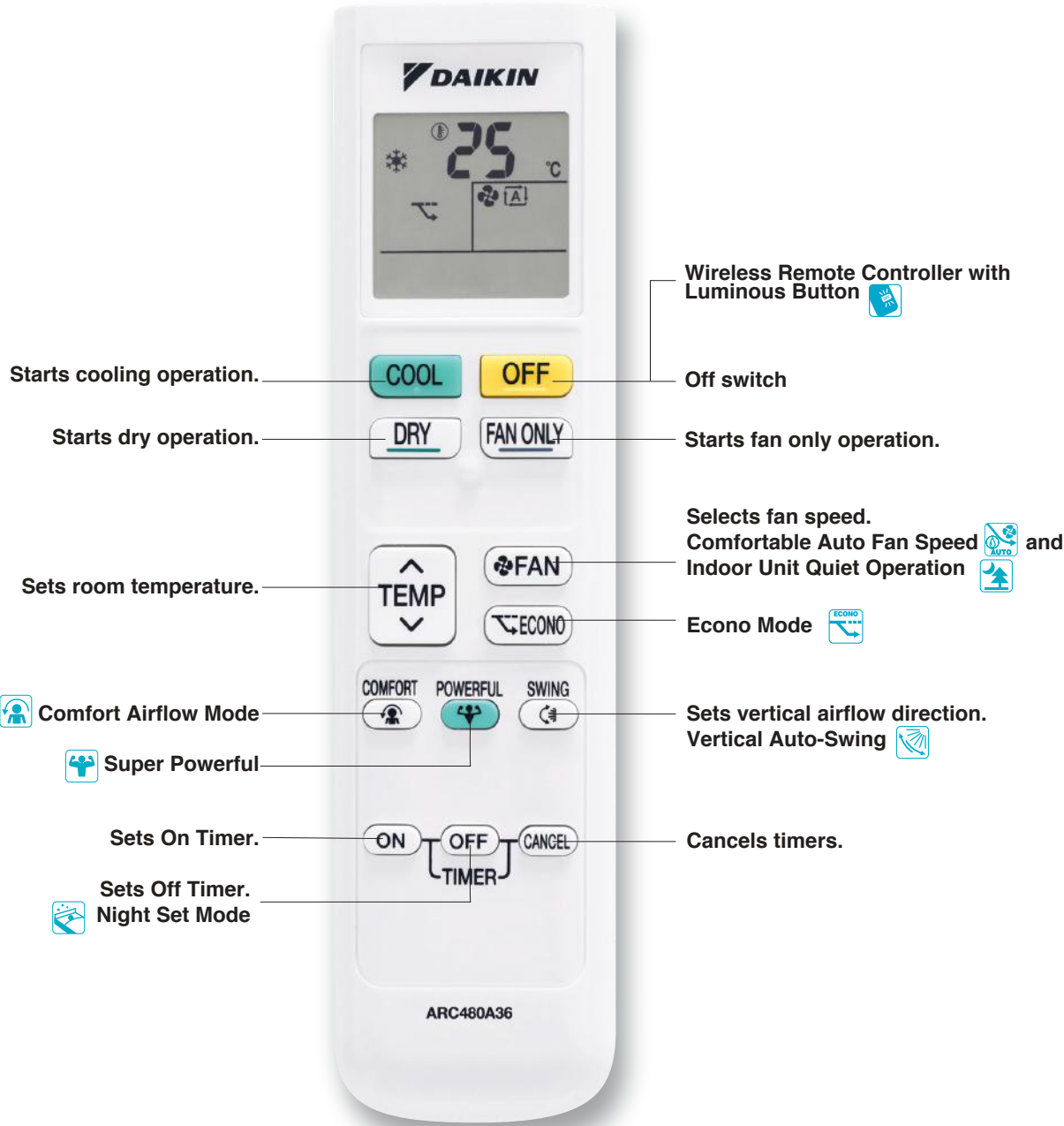


Daikin Mobile Controller (optional adaptor)

At home, the Daikin Mobile Controller application turns your smartphone into a centralised remote controller.¹ It only takes a few easy taps to check and adjust the temperature in your child's room from the family room. You can also start and stop the air conditioner in the family room from your bedroom.



Wireless Remote Controller



Note 1. In-home control of air conditioners using the Daikin Mobile Controller application will depend on the effective coverage area of your LAN.

Specifications and Options

Specifications

Outdoor unit

Model name			MKC50RVM	MKC70SVM
Power supply			1 phase, 220-240 V, 50 Hz / 1 phase, 220-230 V, 60 Hz	
Max. connected indoor unit capacity			8.5	12.0
Casing colour			Ivory white	
Compressor type			Hermetically sealed swing type	
Refrigerant type			R-32	
Sound pressure level	H/L	dB(A)	49/44	51/46
Dimensions	H x W x D	mm	550 x 675 x 284	595 x 845 x 300
Machine weight		kg	37	47
Operation range		°CDB	10 to 46	
Max. piping length		m	50 (total)	
			25 (for one room)	
Additional charge		g/m	Chargeless	
Max. level difference		m	15 (between indoor and outdoor units) / 7.5 (between indoor units)	

Indoor unit

Model name			CTKC25RVM		CTKC35RVM		CTKC50SVM	
Power supply			1 phase, 220-240 V, 50 Hz / 1 phase, 220-230 V, 60 Hz					
Front panel colour			White (N9.5)					
Airflow rate (H)		m³/min (cfm)	11.0 (388)		11.5 (406)		19.2 (678)	
Sound pressure level	H/L/SL	dB(A)	38/25/22		39/26/22		44/35/28	
Fan speed			5 steps, quiet and automatic					
Temperature control			Microcomputer control					
Dimensions	H x W x D	mm	285 × 770 × 223				295 × 990 × 263	
Machine weight		kg	9				12	
Piping connections	Liquid	mm	ø6.4					
	Gas		ø9.5				ø12.7	
	Drain		ø16.0					
Heat insulation			Both liquid and gas pipes					

Measurement conditions
1. Cooling capacity is based on: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; piping length 7.5 m.
2. Sound pressure levels are measured in an anechoic chamber based on temperature condition 1 above.
These values are normally somewhat higher during actual operation as a result of ambient conditions.

Options


Outdoor unit

No.	Item	MKC50RVM	MKC70SVM
1	Air direction adjustment grille	KPW937F4	

Indoor unit

No.	Item	CTKC25/35RVM	CTKC50SVM
1	Titanium apatite deodorising filter	KAF970A46	KAF970A45
2	Dust collection filter	BAFP046A41	BAFP046A42
3	Remote controller loss prevention with chain	KKF936A4	
4	Daikin mobile controller	*1	BRP072C42
5	Remote control PC board set	BRP067A42	BRP980B42

Note: *1. A remote control PC board set (KRP067A41 or KRP980B2) is also required for each indoor unit.

	Daikin mobile controller	BRP072C42
	Dimensions (H x W x D)	79 x 52 x 17.5 mm
	Gross weight	40 g
	Wireless LAN standard	IEEE802.11 b/g/n (2.4 GHz)
	Accessories	Wire harness (1,600 mm), screws (two pieces), double-faced tape, installation manual



Titanium apatite deodorising filter
KAF970A46



Dust collection filter
BAFP046A42

Capacity Tables

Cooling only

220 V, 50 Hz

Outdoor unit	Combinations of indoor units	Each capacity at rated capacity (kW)			Total capacity (kW) Rated (Min.-Max.)	Total power consumption (kW) Rated (Min.-Max.)	Total current (A) Rated (Min.-Max.)
		Room A	Room B	Room C			
MKC50RVM	25	2.50			2.50 (0.75-3.43)	0.58 (0.14-0.87)	2.8 (0.7-4.2)
	35	3.50			3.50 (0.75-4.20)	0.93 (0.14-1.37)	4.4 (0.7-6.6)
	25+25	2.50	2.50		5.00 (1.00-5.30)	1.32 (0.16-1.49)	6.3 (0.8-7.1)
	25+35	2.08	2.92		5.00 (1.00-5.45)	1.29 (0.16-1.56)	6.2 (0.8-7.5)
	35+35	2.50	2.50		5.00 (1.00-5.60)	1.29 (0.16-1.63)	6.2 (0.8-7.8)
	25+25+25	1.67	1.67	1.67	5.00 (1.20-5.94)	1.16 (0.21-1.66)	5.6 (1.0-7.9)
	25+25+35	1.47	1.47	2.06	5.00 (1.20-6.20)	1.16 (0.21-1.81)	5.6 (1.0-8.7)

Notes: 1. Cooling operation data is based on the following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB.
2. The total capacity of connected indoor units is up to 8.5 kW.
3. A single indoor unit cannot be connected.

Cooling only

220 V, 50 Hz

Outdoor unit	Combinations of indoor units	Each capacity at rated capacity (kW)			Total capacity (kW) Rated (Min.-Max.)	Total power consumption (kW) Rated (Min.-Max.)	Total current (A) Rated (Min.-Max.)
		Room A	Room B	Room C			
MKC70SVM	25	2.50			2.50 (0.75-3.60)	0.58 (0.13-0.96)	2.8 (0.6-4.6)
	35	3.50			3.50 (0.75-4.60)	0.93 (0.13-1.47)	4.4 (0.6-7.0)
	50	5.00			5.00 (0.95-6.10)	1.29 (0.13-1.95)	6.2 (0.6-9.3)
	25+25	2.50	2.50		5.00 (1.00-6.10)	1.12 (0.15-1.58)	5.4 (0.7-7.6)
	25+35	2.50	3.50		6.00 (1.00-6.60)	1.52 (0.15-1.85)	7.3 (0.7-8.9)
	25+50	2.33	4.67		7.00 (1.15-7.17)	1.79 (0.15-1.86)	8.6 (0.7-8.9)
	35+35	3.50	3.50		7.00 (1.00-7.10)	2.10 (0.15-2.17)	10.0 (0.7-10.4)
	35+50	2.88	4.12		7.00 (1.15-7.30)	1.75 (0.15-1.93)	8.4 (0.7-9.2)
	50+50	3.50	3.50		7.00 (1.30-7.50)	1.62 (0.15-1.87)	7.8 (0.7-8.9)
	25+25+25	2.33	2.33	2.33	7.00 (1.20-7.32)	1.59 (0.19-1.72)	7.6 (0.9-8.2)
	25+25+35	2.06	2.06	2.88	7.00 (1.20-7.56)	1.59 (0.19-1.83)	7.6 (0.9-8.8)
	25+25+50	1.75	1.75	3.50	7.00 (1.60-7.92)	1.52 (0.20-1.95)	7.3 (1.0-9.3)
	25+35+35	1.84	2.58	2.58	7.00 (1.20-7.80)	1.59 (0.19-1.98)	7.6 (0.9-9.5)
	25+35+50	1.59	2.23	3.18	7.00 (1.60-8.16)	1.52 (0.20-2.07)	7.3 (1.0-9.9)
	35+35+35	2.33	2.33	2.33	7.00 (1.20-8.04)	1.59 (0.19-2.09)	7.6 (0.9-10.0)
	35+35+50	2.04	2.04	2.92	7.00 (1.60-8.40)	1.52 (0.20-2.23)	7.3 (1.0-10.7)

Notes: 1. Cooling operation data is based on the following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB.
2. The total capacity of connected indoor units is up to 12.0 kW.
3. A single indoor unit cannot be connected.