Warning

- Daikin Industries, Ltd.'s products are manufactured for export to numerous countries throughout the world. Daikin Industries, Ltd. does not have control over which products are exported to and used in a particular country. Prior to purchase, please therefore confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- 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.

JMI-0107

Organization:
DAIKIN INDUSTRIES, LTD.
AIR CONDITIONING MANUFACTURING DIVISION

Scope of Registration:
THE DESIGN/DEVELOPMENT AND MANUFACTURE OF COMMERCIAL AIR CONDITIONING, HEATING, COOLING, REFRIGERATING EQUIPMENT, COMMERCIAL HEATING EQUIPMENT, RESIDENTIAL AIR CONDITIONING EQUIPMENT, HEAT RECLAIM VENTILATION, AIR CLEANING EQUIPMENT, MARINE TYPE CONTAINER REFRIGERATION UNITS, COMPRESSORS AND VALVES.

JQA-1452

Organization:
DAIKIN INDUSTRIES (THAILAND) LTD.

Scope of Registration:
THE DESIGN/DEVELOPMENT AND MANUFACTURE OF AIR CONDITIONERS AND THE COMPONENTS INCLUDING COMPRESSORS USED FOR THEM

EC99J2044

All of the Daikin Group's business facilities and subsidiaries in Japan are certified under the ISO 14001 international standard for environment management.

Đại lý phân phối

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DAIKIN

SUPER MULTI HW

Advanced technology utilising waste heat

EVERYWHERE WITH YOU

Multi-Split-Type Air Conditioners
with Waste Heat Utilisation for Hot Water

INVERTER R-410A

Imagine an air conditioner that also supplies hot water—Daikin has made this dream come true.

An innovative air conditioner that generates hot water using waste heat

Air conditioning works by exchanging heat between the room's air and the refrigerant, and then releasing the heat via the refrigerant to the outside of the room—you can feel this heat being giving off if you stand in front of the outdoor unit. Daikin's new Super Multi HW uses this waste heat to heat water instead of just emitting it as exhaust, making heated water a by-product of air conditioning. Depending on conditions of use, this can reduce the cost of heating water to nearly zero. It cools the room to a comfortable level and provides water for refreshing showers. This comfortable life can be a reality with Super Multi HW.

Contents

Key concepts for Super Multi HW

Enjoy the comfort and luxury of your dreams.

Innovative and reliable system

Daikin's Super Multi HW is an innovative and reliable system: waste heat generated through air conditioning is efficiently applied to heat water for use in showers.

Improved efficiency

By reusing the waste heat that previous air conditioning systems simply emitted as waste heat, Daikin's Super Multi HW delivers high-efficiency operations and reduced power consumption.

Intelligent technologies

The DC motor, swing compressor and other advanced technologies make for energy-efficient operation that achieves high COPs.

Ideal environment

The quiet operation mode helps create a more pleasant living environment.

Interior & exterior flexibility

The wide range of indoor unit options provides ample choice. A single compact outdoor unit reduces installation space requirements, while long maximum piping lengths provide flexibility for connections.

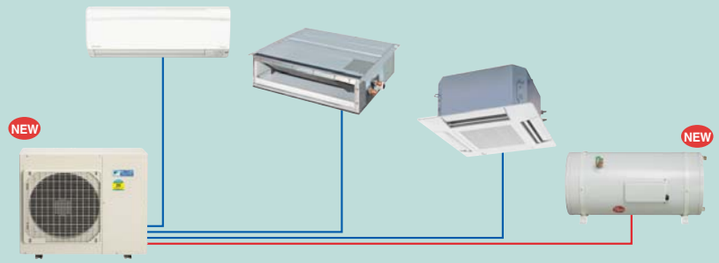
Individual control

The individual indoor units in different rooms can be controlled independently. The priority-room setting function lets you specify a room to receive preference in air conditioning operation.

SUPER MULTI HW

In 1969, Daikin developed the first air conditioner in Japan requiring only one outdoor unit to operate several indoor air conditioning units. Now, Daikin provides the Super Multi series of air conditioners for residential use employing DC inverter technology. The Super Multi NX and Super Multi PLUS are well recognized as space saving and energy saving products. Riding on the success of the Super Multi series, a new and reliable system, Super Multi HW makes its debut in 2011.

3MWKS series



Up to three indoor units and one storage water heater can be connected.

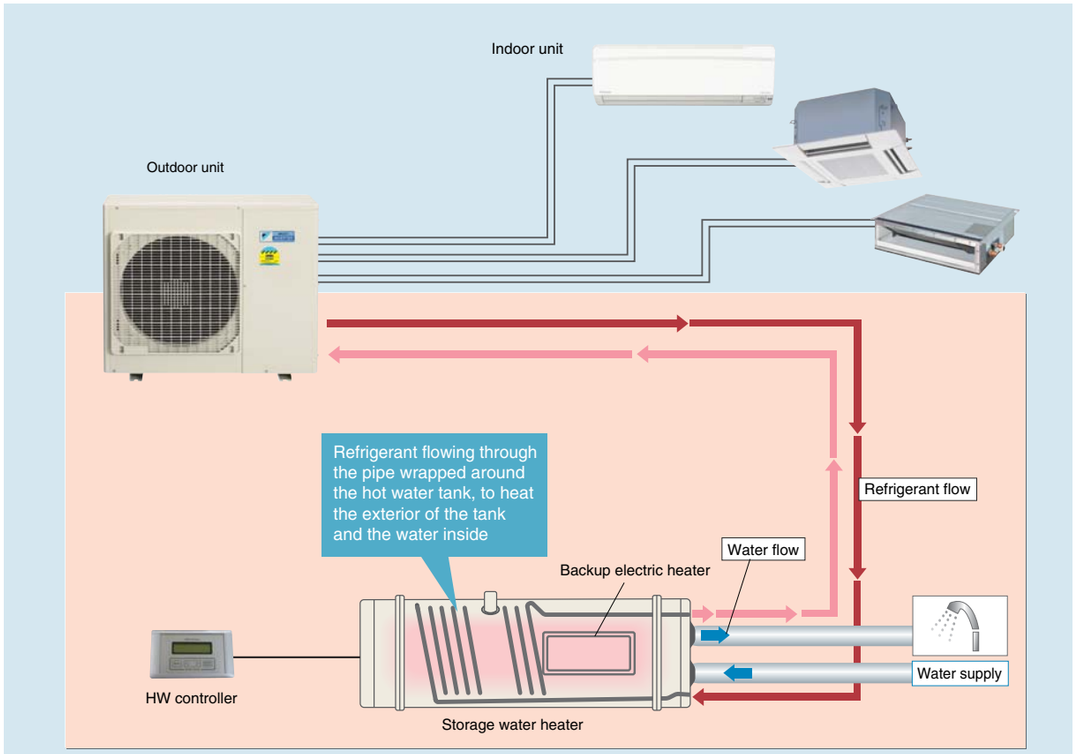
Connect 3 indoor units to a single outdoor unit

Innovative and reliable system

An innovative and reliable system, developed based on Daikin's many years of experience in multi-room air conditioners.

Air conditioners with waste heat utilisation

During air conditioner operation, hot air (waste heat) is emitted from the outdoor unit. Using the Super Multi HW system, waste heat is sent to the storage water heater to heat the water inside to 60°C. This system aims to make usage of electricity for heating water unnecessary when the air conditioner is operating.



HW Storage water heater

- Energy efficient
- Reliable and durable
- Good heat insulation
- Backup electric heater
- Easy to install and maintain

HW controller

Features

- Water temperature indicator
- Manual on/off for backup electric heater
- Scheduler

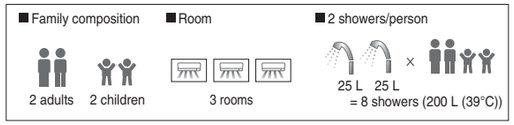
* At necessary intervals, the water is automatically heated to prevent the risk of bacteria growth.

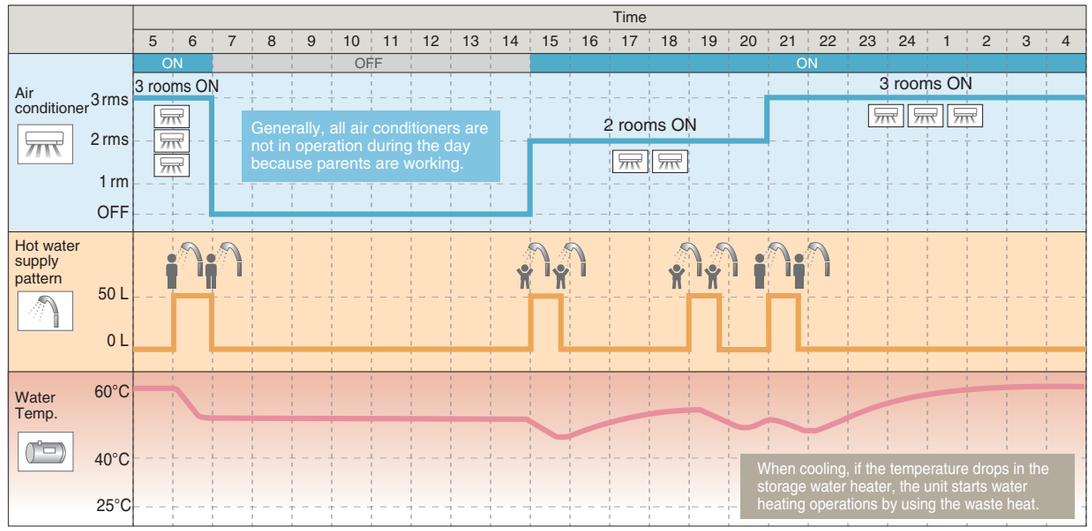
Improved efficiency

Because waste heat, which is normally released as exhaust, is now used to heat water. Thus, almost no electricity costs are incurred to raise the water temperature.

Example on usage of HW system

In a standard family model of two adults and two children, the waste heat generated by air conditioning is sufficient to supply hot water for everybody's showers.





Air conditioner load conditions Operation time: 15 hours/day

Water-heating load
Tank capacity: 75 L
Boiling temperature: 25°C to 60°C (tap water)

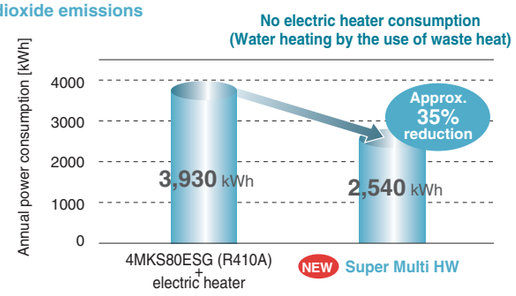
Amount of hot water per person per time (standard): 25 L/shower (39°C) (water dispensed: 5 L/min.; shower time: 5 min./shower)
Amount of water required in tank to dispense 39°C hot water: 10 L/shower (60°C) + 15 L of tap water (25°C)
Amount of hot water required per day: 80 L (60°C)

Comparison between Super Multi HW, and an AC and electric heater pair

Because waste heat is used to heat water, annual electricity consumption can be reduced approximately 35% compared with consumption for separate operation of air conditioning and an electric water heater.

Effect of carbon dioxide emissions

2.5 + 2.5 + 3.5



Note

Indoor air temp	Outdoor air temp	Condition of load	Operating time	A/C load	Combination
27°C	27°C	21:00–7:00	10 hours	3 rooms	2.5 + 2.5 + 3.5
27°C	33°C	7:00–21:00	6 hours	2 rooms	2.5 + 2.5

Rated strage: 75 L
Hot water supply: 25 L (39°C)/one time
Water inlet: 25°C
Water heater temperature: 25°C to 60°C
AC set temperature: 24°C

Intelligent technologies

High energy efficiency through advanced technologies delivers high COP.

High energy savings

3MWKS80KV1

	Cooling operation
COP	3.62

* During rated capacity operation of 3 indoor units (5.0 + 5.0 + 5.0 kW class).

What is COP?

An air conditioner's COP (coefficient of performance) indicates how efficiently it uses energy. A high COP means high energy efficiency.

$$COP = \frac{\text{Capacity (W)}}{\text{Power consumption (W)}}$$

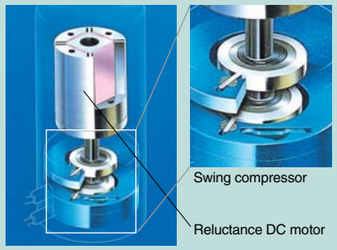
Granted the Singapore 4-tick energy label

Super Multi HW has earned the Singapore 4-tick energy label for household electrical appliances. (3MWKS80KV1)

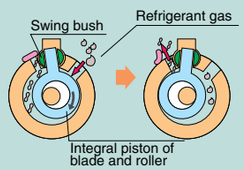
Daikin energy-saving technologies

INVERTER

Swing compressor



Thanks to its smooth rotation, the swing compressor decreases friction and vibration. It also prevents the leakage of refrigerant gas during compression. These advantages provide quiet and efficient operation.



The swing compressor can reduce operational vibration and sound because its piston moves smoothly inside the compressor.

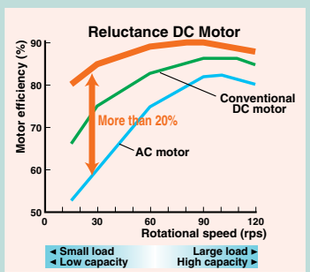
This marked the development of a high-performance swing compressor that was compatible with alternative fluorocarbons. The prize was presented in 1997.

Reluctance DC motor

Neodymium magnets are used in the pink-coloured area.

Daikin DC Inverter models are equipped with the Reluctance DC motor for compressor. The Reluctance DC motor uses 2 different types of torque, neodymium magnet*1 and reluctance torque*2. This motor can save energy because it generates more power with a smaller electric power than an AC or conventional DC motor.

*1. A neodymium magnet is approximately 10 times stronger than a standard ferrite magnet.
*2. The torque created by the change in power between the iron and magnet parts.



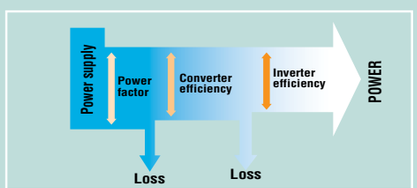
Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory.

This was the first scroll compressor to be equipped with the Reluctance DC motor in commercial-use air conditioners. The Institute of Electrical Engineers of Japan presented the award in 1998.

PAM control

Pulse Amplitude Modulation (PAM) control reduces energy loss by controlling the amount of switching on/off of the converter.

PAM control



Ideal environment

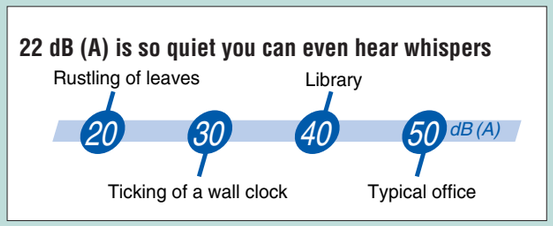
Convenient features to realise your ideal environment

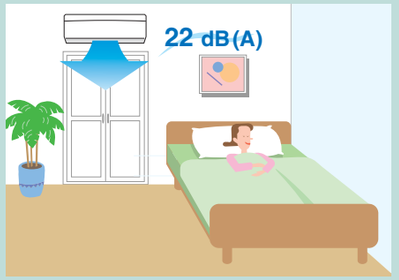
Quiet operation

Indoor unit

A quiet indoor unit is important for your personal comfort. Super Multi HW offers the quiet sound level of 22 dB (A) during Indoor Unit Quiet Operation of the FTKS25D.

Note: Capacity may decrease when quiet functions are selected.





Outdoor unit

A quiet outdoor unit is essential for your comfort and peace in your neighbourhood. Super Multi HW achieves a quiet sound level of 45 dB (A) during Outdoor Unit Quiet Operation of the 3MWKS80K.

Higher capacity models selectable

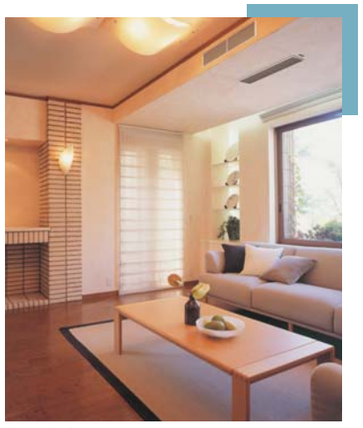
SUPER MULTI HW offers a more powerful outdoor unit to families living in **HDB** apartments with a limited current of 8.5 A or 11 A.
Note: Please direct enquiries to local dealers.

Interior & exterior flexibility

Wide array of choices to match your interior

Stylish indoor units for elegant interiors

The stylish flat panel design of the wall-mounted type provides an excellent match for interiors.



Only 240 mm is required above the ceiling for installation.

The compact and flexible design is suited to commercial spaces.

Compact outdoor units for a less obtrusive exterior look

The system requires only a single outdoor unit. The compact design provides installation flexibility and takes up less space, for a less obtrusive exterior look.

Needs just one outdoor unit—keep your home exterior beautiful!

Compact design enables installation of the storage water heater in the bathroom ceiling, for minimal installation space.

Long piping lengths for installation flexibility

The ample maximum piping length between indoor and outdoor unit of 60 m permits more freedom in the placement of air conditioner units and facilitates the optimisation of interior space.

Model name			3MWKS80K
Max. piping length	Indoor unit connection	Total	60 m
		For one room	25 m
	Storage water heater connection		15 m

Individual control

Individual control for each room to match your family's lifestyle

User friendly remote controllers

Wide variety of controller systems permit individual control of settings such as temperature, airflow volume, and operation duration.

Wireless remote controller

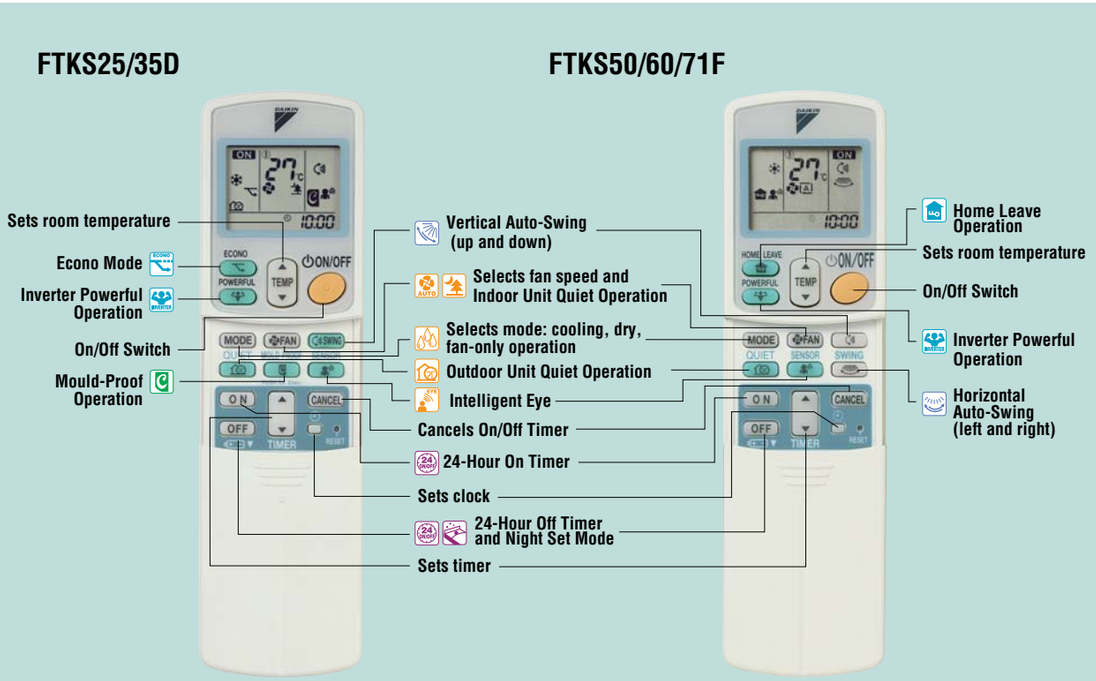
5-room centralised controller (option)

Central remote controller (option)

Unified on/off controller (option)

* These remote controllers cannot be used to control the storage water heater.

Easy-to-use wireless remote controller



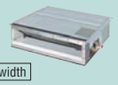
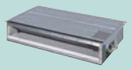
A wide range of models to choose from that deliver comfort and convenience

Outdoor unit

Model	Model name	Capacity class	Max. piping length*	Max. height difference*
Connectable to up to 3 indoor units 	3MWKS80KV1	8.0 kW	60 m	15 m

* Between indoor and outdoor unit

Indoor unit

Model \ Capacity class	2.5 kW	3.5 kW	5.0 kW	6.0 kW	7.1 kW
Wall-mounted type	FTKS25DVM	FTKS35DVM			
			FTKS50FVM	FTKS60FVM	FTKS71FVM
Duct-connected type  700 mm width	FDKS25EAVMB	FDKS35EAVMB			
 900/1,100 mm width	FDKS25CAVMB	FDKS35CAVMB	FDKS50CVMB	FDKS60CVMB	
Compact multi flow ceiling-mounted cassette type 	FFQ25BV1B	FFQ35BV1B	FFQ50BV1B	FFQ60BV1B	

Storage water heater

Model	Model name	Pipe connection	Water heater volume	Max. piping length	Max. height difference
	TUR-55KVM	Right side	55 L	15 m	7.5 m
	TUL-55KVM	Left side			
	TUR-75KVM	Right side	75 L	15 m	7.5 m
	TUL-75KVM	Left side			
	TUR-100KVM	Right side	100 L	15 m	7.5 m
	TUL-100KVM	Left side			

An array of indoor unit models with innovative and attractive designs make it easy to find the ideal match for each room in your home.

Wall-mounted type

An attractive match for large rooms with refined interiors is provided by the stylish flat panel design.

Duct-connected type

Fits in shallow ceiling recesses only 240 mm deep thanks to the new slim and compact design.

Compact multi flow ceiling-mounted cassette type

The compact and flexible design is suited to commercial spaces.

Wall-Mounted Type

2.5 kW class	3.5 kW class
FTKS25DVM	FTKS35DVM

5.0 kW class	6.0 kW class	7.1 kW class
FTKS50FVM	FTKS60FVM	FTKS71FVM

Quiet operation

Wall-mounted type indoor units achieve quiet sound levels of 22 dB (A) during Indoor Unit Quiet Operation.

(H/L/**SL**)

FTKS25D	FTKS35D
37/25/**22** dB (A)	38/26/**23** dB (A)

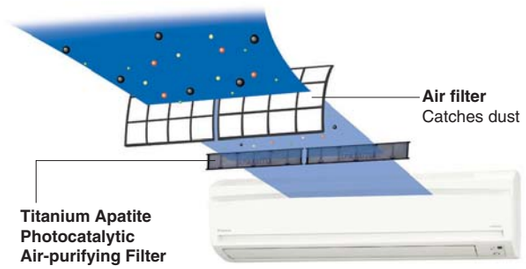
3-D airflow

3-D Airflow combines Vertical and Horizontal Auto-Swing to circulate air to every part of a room for uniform cooling of even large spaces.

Clean air

Uses a Titanium Apatite Photocatalytic Air-Purifying Filter. Titanium apatite is a photocatalytic material with high adsorption power. It effectively adsorbs and removes bacteria.

▶ See page 17 for details.



Easy cleaning

Flat panel can be cleaned with just a single pass of a cloth across its smooth surface.

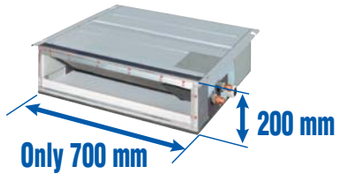
Duct-Connected Type

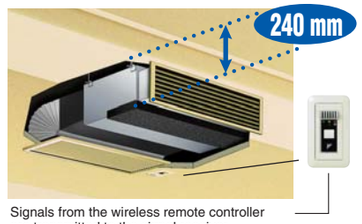
2.5 kW class	3.5 kW class	5.0 kW class	6.0 kW class
〈700 mm width type〉			
FDKS25EAVMB	FDKS35EAVMB		
〈900/1,100 mm width type〉			
FDKS25CAVMB	FDKS35CAVMB	FDKS50CVMB	FDKS60CVMB

Slim and compact design

Models in the FDKS-EA series are only 700 mm in width and 21 kg in weight, so are easily installed in limited spaces. Just 200 mm in height, all models can be installed in rooms with as little as 240 mm depth between the drop ceiling and ceiling slab, making them ideal for even shallow ceilings.

FDKS-EA



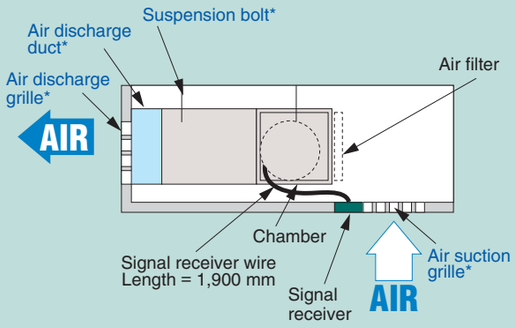


Signals from the wireless remote controller are transmitted to the signal receiver.

	FDKS25EA	FDKS35EA	FDKS25CA	FDKS35CA
Dimensions (H x W x D)	200 x 700 x 620 mm		200 x 900 x 620 mm	
Weight	21 kg		25 kg	
Airflow rate (H)	8.7 m^3/min		9.5 m^3/min	10 m^3/min
External static pressure	30 Pa		40 Pa	

Quiet operation

Quiet operation sound level of only 29 dB (A) is achieved for 2.5 and 3.5 kW class models.



Option

Suction grille (KDGF19A45)

* Locally obtained parts

Notes:
1. To prevent an increase in operation noise, avoid installing the air suction grille directly below the suction chamber.
2. Grilles, piping connections, ducts, and installation parts should be obtained locally.
   Duct-connected types do not have drain-up pumps.
3. The signal receiver unit must be located near the air suction inlet, because the unit includes a sensor that detects room temperature.

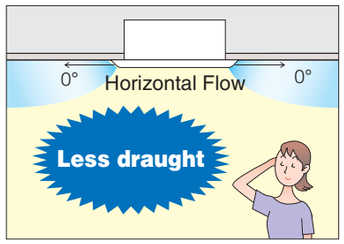
Indoor unit lineup

Compact Multi Flow Ceiling-Mounted Cassette Type

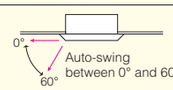
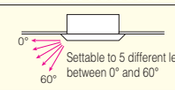
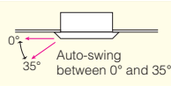
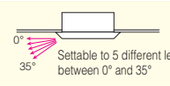
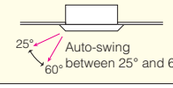
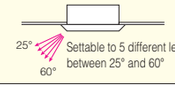
Wired LCD remote controller	Wireless LCD remote controller	Signal receiver unit
		
Option	Option	Wireless remote controller and signal receiver unit are sold as a set.

2.5 kW class	3.5 kW class	5.0 kW class	6.0 kW class
FFQ25BV1B	FFQ35BV1B	FFQ50BV1B	FFQ60BV1B

Low draft performance is designed for your comfort

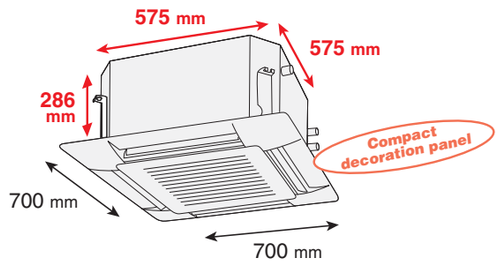


Comfortable across all areas

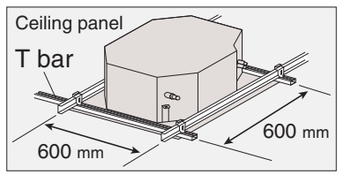
	Conditioned air is distributed evenly by Auto-swing operation.	Adjustable airflow angle to suit all room conditions.
	AUTO-SWING	**5 directions**
Standard setting		
Draft prevention setting (Set on site)		
Setting to prevent soiling of ceiling (Set on site)		

Note: Angles shown above are provided as a guide. They may differ depending on the installation site.

Designed to fit 600 mm wide ceiling grids



- T-bar grid does not need to be cut



- Even for modules other than 600 x 600, no inspection opening is required. Maintenance can be performed after simply removing the grille, because the switchbox is built into the unit.

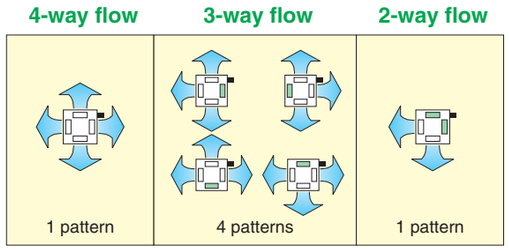
• Quiet sound level of only 24.5 dB (A)

At low fan speeds, the 2.5 kW model produces sound of only 24.5 dB (A), and even the 6.0 kW model as low as 32 dB (A). This is due to a spiral hub cover that reduces internal airflow resistance.

(H/L)

FFQ25	FFQ35	FFQ50	FFQ60
29.5/24.5 dB(A)	32/25 dB(A)	36/27 dB(A)	41/32 dB(A)

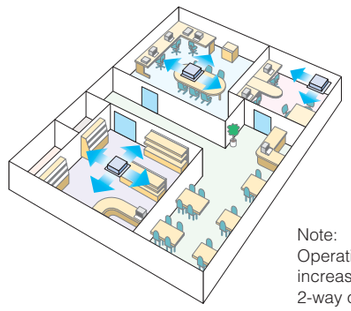
• Multi-Flow System



"■" denotes piping direction. "▭" denotes sealing member for air discharge outlet (option).

Note: For 3-way or 2-way flow installation, the sealing member for air discharge outlet (option) must be used to close off the unused outlet(s).

• Air discharge patterns can be selected according to installation.



Note:
Operation sound increases when using 2-way or 3-way flow.

• Two selectable temperature sensors

Both indoor unit and wired remote controller (option) contain temperature sensors. Temperature sensing can be set at the unit or, to further improve comfort level, closer to the target area at the wired remote control. This feature requires initial setting by the installer.

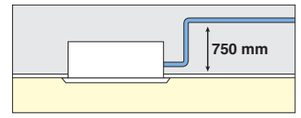
*Temperature sensor on indoor unit must be used when the air conditioner is controlled from another room.
(Wireless remote controller does not have a temperature sensor.)

• Programme "Dry"

Programme Dry gives priority to reducing the level of humidity rather than room temperature. Dehumidification is computer controlled to prevent abrupt and uncomfortable changes in air temperature.

• Switchable fan speed: High/Low

• Provided with drain pump



• Auto-restart

If there is a power failure while the unit is operating, the system will restart in the same mode when power is restored.

• Long-life filter

Maintenance is not required for one year.

• Ceiling soiling prevention function

Daikin's innovative air discharge mechanism keeps airflow away from the ceiling. Ceiling cleaning is required less frequently.

• Filter sign

When the filter requires cleaning, the filter icon is displayed on the remote controller.

Energy savings plus quick return to favourite comfort setting levels

Intelligent Eye

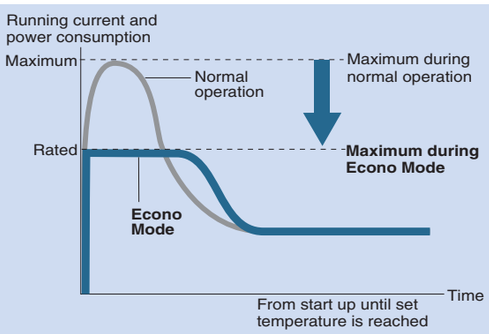
Intelligent Eye with its infrared sensor automatically controls air conditioner operation according to human movement in a room. When there is no movement, it adjusts the temperature by 2˚C for energy savings. (Available for all wall-mounted models.)

When you are in the room

When you go out

Econo Mode

Econo Mode is a function that reduces the maximum running current and the maximum power consumption of the outdoor unit to the rated values. This mode is useful for preventing circuit breakers from being overloaded by the use of multiple air conditioners and other electrical devices. The function is easily activated from the remote controller by pushing the ECONO button. (Available for the FTKS25/35D.)



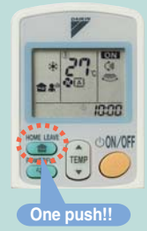
- This diagram is a representation for illustrative purposes only.
- Maximum capacity decreases during Econo Mode, requiring more time to reach the set temperature.

Home Leave Operation

Home Leave Operation prevents large rises in the indoor temperature by continuing operation* while you are sleeping or out of your home. This means that an air-conditioned welcome awaits when you wake or return. It also means that the indoor temperature can quickly return to your favourite comfort setting. (Available for the FTKS50/60/71F, FDKS25/35EA, FDKS25/35/50/60C.)

* Home Leave Operation can be selected for any temperature from 18 to 32˚C.

23˚C for the room temperature setting, and 28˚C for the home leave setting.



Start Home Leave Operation simply by pushing its button on the remote controller.

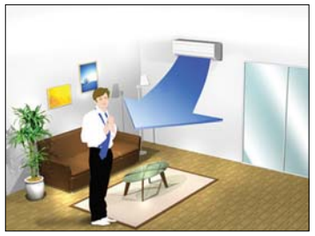
When you are out of your home, your air conditioner prevents large rises in the indoor temperature by continuing to operate using Home Leave Operation settings.

When you return, you will be greeted by an air-conditioned room. Just push the HOME LEAVE button again to return to your previous settings.

Uniform cooling of the whole living room

Inverter Powerful Operation

Inverter Powerful Operation boosts cooling performance for a 20-minute period. This is convenient both when you first turn on your air conditioner and when you want to quickly change the temperature during operation. (Available for all indoor unit models.)



Power-Airflow Dual Flaps Wide-Angle Louvres

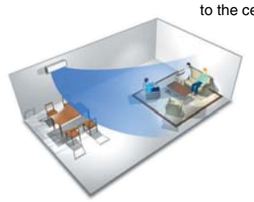
Power-Airflow Dual Flaps and Wide-Angle Louvres work in tandem to precisely control both vertical and horizontal airflow for even distribution of air. (Available for all wall-mounted models.)

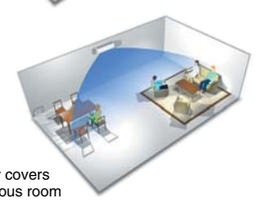
Power-Airflow Dual Flaps

The flaps flatten out during operation so that cool air slides off to reach the farthest corners of the room.

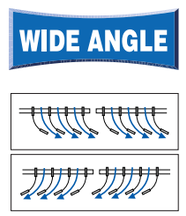
Wide-Angle Louvres

From a corner to the centre





Entirely covers a spacious room



The louvres can be adjusted by hand for the FTKS25/35D. The louvres can be adjusted with the wireless remote controller for the FTKS50/60/71F.

Vertical Auto-Swing (up and down)

Horizontal Auto-Swing (left and right)

3-D Airflow

Vertical Auto-Swing automatically moves the flaps up and down and Horizontal Auto-Swing automatically moves the louvres to the left and right. 3-D Airflow combines Vertical and Horizontal Auto-Swing to circulate air to every part of a room for uniform cooling of even large spaces. (3-D Airflow available for the FTKS50/60/71F, Horizontal Auto-Swing available for the FTKS50/60/71F, Vertical Auto-Swing available for the FTKS25/35D and the FTKS50/60/71F.)

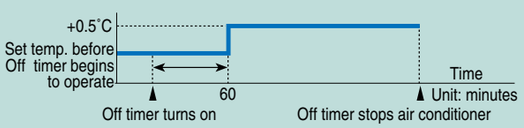
Indoor Unit On/Off Switch

The unit can be conveniently started manually in the event the wireless remote controller is misplaced or the wireless remote controller batteries are not charged. (Available for all indoor unit models.)

Indoor Unit On/Off Switch

Night Set Mode

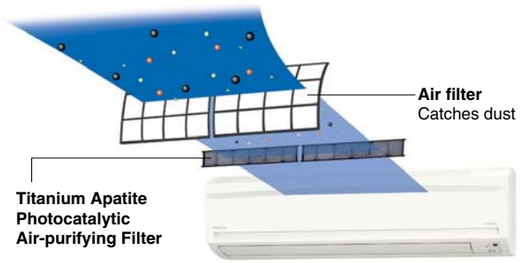
Pressing the Off timer button automatically selects the Night Set Mode. This function prevents excessive cooling for pleasant sleep conditions. (Available for all indoor unit models.)



Room temperature is raised by 0.5˚C after 60 minutes.

Clean air with less dust or odours

Super Multi HW indoor units offer a range of features, including advanced photocatalytic air-purifying filters, to help keep indoor air clean. These advanced filters are able to remove bacteria.



Titanium Apatite Photocatalytic Air-Purifying Filter

Titanium apatite is a photocatalytic material with high adsorption power. Besides mould and odours, titanium apatite also effectively adsorbs and decomposes bacteria across its entire surface. The photocatalyst is activated simply by exposure to light. (Available for the FTKS25/35D, FDKS25/35EA, FDKS25/35/50/60C.)

These filters are not medical devices. Benefits such as the adsorption and decomposition of bacteria and viruses are only effective for substances that are collected on and in direct contact with the Titanium Apatite Photocatalytic Air-Purifying Filter.

Bacteria Removal Test
Testing method: dropping method
Result certificate: No. 012553-1 and 012553-2
Testing organisation: Japan Spinners Inspecting Foundation

	FTKS25/35D and FTKS50/60/71F
Filter type	Titanium apatite photocatalytic air-purifying filter
Maintenance	Soak in water containing detergent once every 6 months
Replacement	3 years
Number	2 pieces

Mould-Proof Operation

When cooling or dry operation is stopped, fan-only operation runs automatically for one hour. This airflow dries the inside of the indoor unit to reduce the generation of mould and the odours caused by mould. (Available for the FTKS25/35D.)

Functions \ Models	Indoor units: Wall-mounted type: FTKS25/35D	Indoor units: Wall-mounted type: FTKS50/60/71F	Indoor units: Duct-connected type: FDKS25/35EA FDKS25/35/50/60C	Indoor units: Compact multi flow ceiling-mounted cassette type: FFQ25/35/50/60B	Outdoor units: 3MWKS80KV1
Comfortable Airflow					
Power-Airflow Dual Flaps	●	●			
Wide-Angle Louvres	●	●			
Vertical Auto-Swing (up and down)	●	●		●	
Horizontal Auto-Swing (left and right)		●			
3-D Airflow		●			
Comfort Control					
Indoor Unit Quiet Operation	●	●	●		
Outdoor Unit Quiet Operation					●
Night Quiet Mode					●
Intelligent Eye	●				
Programme Dry Function	●	●	●	●	
Auto Fan Speed	●	●	●		
Lifestyle Convenience					
Inverter Powerful Operation	●	●	●		
Econo Mode	●				
Home Leave Operation		●	●		
Indoor Unit On/Off Switch	●	●	●		
Cleanliness					
Titanium Apatite Photocatalytic Air-Purifying Filter	●	●			
Mould-Proof Operation	●				
Wipe-Clean Flat Panel	●	●			
Filter Cleaning Indicator				●	
Timers					
24-Hour On/Off Timer	●	●	●		
72-Hour On/Off Timer				●	
Night Set Mode	●	●	●		
Worry Free					
Auto-Restart after Power Failure	●	●	●	●	
Self-Diagnosis with Digital Display	●	●	●	●	●
Anticorrosion Treatment of Outdoor Heat Exchanger Fins					●

Comfortable Airflow

Power-Airflow Dual Flaps
Power-Airflow Dual Flaps can flatten out during operation to deliver cool air to the corners of a room.
▶ See page 18

Wide-Angle Louvres
Smoothly curved Wide-Angle Louvres provide wide airflow coverage for effective cooling no matter where the indoor unit is placed in a room.
▶ See page 18

Vertical Auto-Swing (up and down)
Vertical Auto-Swing automatically moves the flaps up and down to provide an even distribution of air throughout a room.
▶ See page 18

Horizontal Auto-Swing (left and right)
Horizontal Auto-Swing automatically moves the louvres to the left and right to cover a room with cool air.
▶ See page 18

3-D Airflow
This function combines Vertical and Horizontal Auto-Swing to circulate a cloud of cool air right to the corners of even large spaces.
▶ See page 18

Comfort Control

Indoor Unit Quiet Operation
Indoor unit operating sound levels are decreased by 2 or 3 dB (A) from the low setting fan speed using the wireless remote controller.
▶ See page 8

Outdoor Unit Quiet Operation
Outdoor unit operating sound levels are decreased by 3 dB (A) from the rated operation sound using the wireless remote controller.
▶ See page 8

Night Quiet Mode
Outdoor unit operating sound levels are automatically decreased by 3 dB (A) from the rated operation sound when the outdoor temperature has dropped by 6˚C from the maximum temperature recorded during the daytime. Initial setting is required during installation.

Intelligent Eye
Intelligent Eye with its infrared sensor automatically controls air conditioner operation according to human movement in a room. When there is no movement, it adjusts the temperature by 2˚C for energy savings.
▶ See page 17

Programme Dry Function
This function automatically reduces the level of humidity.

Auto Fan Speed
The microprocessor automatically controls fan speed to adjust the room temperature to the set temperature.

Lifestyle Convenience

Inverter Powerful Operation
This function is convenient for boosting cooling performance for a 20-minute period both when you first turn on your air conditioner and want to quickly change the room temperature.
▶ See page 18

Econo Mode
Econo Mode reduces the maximum running current and maximum power consumption of the outdoor unit to the rated values. This is useful when using multiple air conditioners and other electrical devices at the same time.
▶ See page 17

Home Leave Operation
Home Leave Operation continues operation to prevent a room from becoming too hot while you are sleeping or out of your home. Any temperature from 18 to 32˚C can be selected.
▶ See page 17

Indoor Unit On/Off Switch
The unit can be conveniently started manually in the event the wireless remote controller is misplaced or the wireless remote controller batteries are not charged.
▶ See page 18

Cleanliness

Titanium Apatite Photocatalytic Air-Purifying Filter
This filter combines the Air-Purifying Filter and Titanium Apatite Photocatalytic Deodorising Filter in a single highly effective unit. The filter traps microscopic particles and removes bacteria. It lasts for 3 years without replacement if washed about once every 6 months.
▶ See page 19

Mould-Proof Operation
Mould-Proof Operation automatically runs fan-only operation for 1 hour when cooling or dry operation is stopped. This airflow prevents the generation of mould and mould odours inside the indoor unit.
▶ See page 19

Wipe-Clean Flat Panel
The flat panel models can be cleaned with only the single pass of a cloth across their smooth surface. The flat panel can also be easily removed for more thorough cleaning.
▶ See page 13

Filter Cleaning Indicator
Dust deposited on the air filters is not only unhygienic, it also reduces the operating efficiency of the air conditioner. A message indicates when the air filters need cleaning.

Timers

24-Hour On/Off Timer
This timer can be preset to start and stop at any time within a 24-hour period. The air conditioner is started/stopped simply by pressing the On/Off timer button on the wireless remote controller.

72-Hour On/Off Timer
This timer can be set to start and stop at any time within a 72-hour period. Simply press the On timer button, and the air conditioner will automatically start to operate at the preset time.

Night Set Mode
Pressing the Off timer button automatically selects the Night Set Mode. This function prevents excessive cooling for pleasant sleep conditions.
▶ See page 18

Worry Free

Auto-Restart After Power Failure
The air conditioner memorises the settings for mode, airflow, temperature, etc., and automatically returns to them when power is restored after a power failure.

Self-Diagnosis with Digital Display
Malfunction codes for each indoor unit are shown on the digital display panel of the wireless remote controller for fast and easy maintenance.

Anticorrosion Treatment of Outdoor Heat Exchanger Fins
The outdoor unit's heat exchanger fins are processed using a special anticorrosion treatment. The surface is covered with a thin acrylic resin layer to enhance the fins' resistance to acid rain and salt corrosion.

Others

Worry Free
Wiring Error Check
Microcomputer checking and diagnosis of wiring errors during installation prevents problems.

Flexibility
Either Side Drain (left or right)
The wall-mounted type indoor unit is designed so that drain piping can be connected to either the left or right side.

▶ Refer to page 20 to check the functions offered by individual models.

Specifications

Outdoor unit

Model name			3MWKS80KV1
Power supply			1 phase, 220-240 V, 50 Hz
Casing colour			Ivory white
Compressor type			Hermetically sealed swing type
Sound levels*1		dB (A)	48/45
Dimensions (H x W x D)		mm	770 x 900 x 320
Machine weight		kg	73
Operation range		˚CDB	10 to 46*2
Max. piping length	For indoor unit connection	m	60 (total)/25 (for one room)
	For water heater connection		15 (between water heater and outdoor unit)
Necessity of additional charge		g/m	20 (for 30 m or more)*3
Max. installation height difference	For indoor unit connection	m	15 (between indoor and outdoor units)/7.5 (between indoor units)
	For water heater connection		7.5 (between water heater and outdoor unit)

Notes: *1 The first value, to the left of slash, is the rated condition. The value to the right of the slash is the sound level when using outdoor unit quiet operation.
*2 For 230 V.
*3 Not including pipe length between water heater and outdoor unit.

Indoor unit

Wall-mounted type

Model name			FTKS25DVM	FTKS35DVM	FTKS50FVM	FTKS60FVM	FTKS71FVM
Power supply			1 phase, 220-240 V/220-230 V, 50/60 Hz				
Front panel colour			White				
Airflow rates (H)		m^3/min (cfm)	8.7 (307)	8.9 (314)	14.7 (519)	16.2 (572)	17.4 (614)
Sound levels (H/L/SL)		dB (A)	37/25/22	39/26/23	43/34/31	45/36/33	46/37/34
Fan speed			5 steps, quiet and automatic				
Temperature control			Microcomputer control				
Dimensions (H x W x D)		mm	283 x 800 x 195		290 x 1,050 x 238		
Machine weight		kg	9		12		
Piping connections	Liquid (flare)	mm	ø6.4				
	Gas (flare)		ø9.5		ø12.7		ø15.9
	Drain		ø18.0				
Heat insulation			Both liquid and gas pipes				

Duct-connected type 〈700 mm width〉

Model name			FDKS25EAVMB	FDKS35EAVMB
Power supply			1 phase, 230 V, 50 Hz	
Airflow rates (H)		m^3/min (cfm)	8.7 (307)	
Sound levels (H/L/SL)*		dB (A)	35/31/29	
Fan speed			5 steps, quiet and automatic	
Temperature control			Microcomputer control	
Dimensions (H x W x D)		mm	200 x 700 x 620	
Machine weight		kg	21	
Piping connections	Liquid (flare)	mm	ø6.4	
	Gas (flare)		ø9.5	
	Drain		VP20 (External Dia. 26/Internal Dia. 20)	
Heat insulation			Both liquid and gas pipes	
External static pressure		Pa	30	

Duct-connected type 〈900/1,100 mm width〉

Model name			FDKS25CAVMB	FDKS35CAVMB	FDKS50CVMB	FDKS60CVMB
Power supply			1 phase, 230 V, 50 Hz			
Airflow rates (H)		m^3/min (cfm)	9.5 (335)	10.0 (353)	12.0 (424)	16.0 (565)
Sound levels (H/L/SL)*		dB (A)	35/31/29		37/33/31	38/34/32
Fan speed			5 steps, quiet and automatic			
Temperature control			Microcomputer control			
Dimensions (H x W x D)		mm	200 x 900 x 620			200 x 1,100 x 620
Machine weight		kg	25		27	30
Piping connections	Liquid (flare)	mm	ø6.4			
	Gas (flare)		ø9.5		ø12.7	
	Drain		VP20 (External Dia. 26/Internal Dia. 20)			
Heat insulation			Both liquid and gas pipes			
External static pressure		Pa	40			

Note: * The operation sound level values represent those for rear-suction operation and an external static pressure of 30 Pa for FDKS-EA and 40 Pa for FDKS-C. Sound level values for bottom-suction operation can be obtained by adding 6 dB (A) for FDKS-EA and 5 dB (A) for FDKS-C.

Compact multi flow ceiling-mounted cassette type

Model name			FFQ25BV1B	FFQ35BV1B	FFQ50BV1B	FFQ60BV1B
Power supply			1 phase, 220-240 V, 50 Hz			
Airflow rate (H)		m^3/min (cfm)	9.0 (318)	10.0 (353)	12.0 (424)	15.0 (530)
Sound level* (H/L)		dB (A)	29.5/24.5	32/25	36/27	41/32
Fan speed			2 steps			
Temperature control			Microcomputer control			
Unit dimensions (H x W x D)		mm	286 x 575 x 575			
Machine weight		kg	17.5			
Piping connections	Liquid (flare)	mm	ø6.4			
	Gas (flare)		ø9.5		ø12.7	
	Drain		VP20 (External Dia. 26/Internal Dia. 20)			
Heat insulation			Both liquid and gas pipes			
Panel (option)	Model		BYFQ60B8W1			
	Colour		White			
	Dimensions (H x W x D)	mm	55 x 700 x 700			
	Weight	kg	2.7			

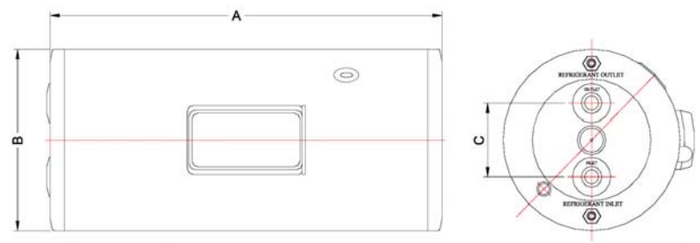
Note: * Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

Measurement conditions
1. Data is based on the following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; piping length 7.5 m.
2. Sound levels are anechoic conversion values. These values are normally somewhat higher during actual operation as a result of ambient conditions.

Storage water heater

Model Number			TUR-55KVM TUL-55KVM	TUR-75KVM TUL-75KVM	TUR-100KVM TUL-100KVM
Rated storage		L	55	75	100
Rated power		kW	(220 V) 2.5 / (230 V) 2.75 / (240 V) 3.0		
Rated electric current		A	(220 V) 11.4 / (230 V) 12 / (240 V) 12.5		
Without airconditioners on, time of hot water at 40˚C rise by electric heater		min.	63 (220 V) 57 (230 V) 52 (240 V)	86 (220 V) 78 (230 V) 71 (240 V)	114 (220 V) 104 (230 V) 95 (240 V)
Length	A	mm	790	1130	962
Diameter	B	mm	ø370		ø458
	C	mm	150		240
Power			220-240 V/50 Hz 220-230 V/60 Hz		
Temperature setting		˚C	65		
Max. inlet water pressure		kPa	800		
T&P relief valve set (pressure/temp)		kPa/˚C	(Pressure) 1000 / (Temp) 99		
Pipe sizes for inlet and outlet			3/4" /20 BSP		
Pipe size for safety valve			3/4" /20 BSP		
Refrigerant pipe size for inlet and outlet			3/4"-16 UNF (2A)		
Package weight		kg	26	33	37

Diagram



Options

Outdoor unit

No.	Item	3MWKS80K
1	Air direction adjustment grille	KPW945A4
2	Drain plug	KKP945A4*

Note: * One set includes 1 piece for 1 unit.

Air direction adjustment grille
KPW945A4

Indoor unit

No.	Item	Wall-mounted type		Duct-connected type			
		FTKS25/35D	FTKS50/60/71F	FDKS25/35EA	FDKS25/35CA	FDKS50C	FDKS60C
1	5-room centralised controller*1	KRC72					
2	Wiring adaptor for time clock/remote controller*2 (Normal open pulse contact/normal open contact)	KRP413AB1S					
3	Titanium apatite photocatalytic air-purifying filter*3	KAF970A46	KAF952B42	–			
4	Remote controller loss prevention chain	KKF917A4					
5	Suction grille	–		KDGF19A45			
6	Insulation kit for high humidity	–		KDT25N32	KDT25N50		KDT25N63

Notes: *1. A wiring adaptor (KRP413AB1S) is also required for each indoor unit.
*2. Time clock and other devices should be obtained locally.
*3. Filter is a standard accessory. It should be replaced approximately 3 years.

5-room centralised controller
KRC72

Titanium apatite photocatalytic air-purifying filter
KAF970A46

Titanium apatite photocatalytic air-purifying filter
KAF952B42

Remote controller loss prevention chain
KKF917A4

No.	Item		Compact multi flow ceiling-mounted cassette type
1	Decoration panel		BYFQ60B8W1
2	Remote controller	Wired type*1	BRC1C61
		Wireless type	BRC7E531W
3	Adaptor for wiring*2		KRP1BA57
4	Wiring adaptor for electrical appendices*2		KRP4AA53
5	Installation box for adaptor PCB		KRP1BA101
6	Remote sensor (for indoor temperature)		KRCS01-1B
7	Replacement long-life filter		KAFQ441BA60
8	Fresh air intake kit	Direct installation type	KDDQ44XA60
9	Sealing member of air discharge outlet		KDBH44BA60
10	Panel spacer		KDBQ44BA60A

Notes: *1. Wiring for wired remote controller should be obtained locally.
*2. Installation box for adaptor PCB (KRP1BA101) is necessary.

Control system

No.	Item	Wall-mounted type	Duct-connected type	Compact multi flow ceiling-mounted cassette type
1	Central remote controller*	DCS302CA61		
2	Unified on/off controller*	DCS301BA61		
3	Schedule timer*	DST301BA61		
4	Interface adaptor	KRP928BB2S		DTA112BA51

Note: * Interface adaptor (KRP928BB2S or DTA112BA51) is also required for each indoor unit.

Central remote controller
DCS302CA61

Unified on/off controller
DCS301BA61

Schedule timer
DST301BA61

Capacity without ampere limitation

230 V, 50 Hz

Outdoor unit	Combinations of indoor units	Capacity of each indoor unit (kW)			Total capacity (kW) Rated (Min.–Max.)	Total power consumption (W) Rated (Min.–Max.)	Total current (A) Rated (Min.–Max.)
		A room	B room	C room			
3MWKS80KV1	25	2.50			2.50 (1.79– 3.54)	740 (450–1,060)	3.3 (2.0– 4.7)
	35	3.50			3.50 (1.83– 4.51)	1,180 (450–1,300)	5.2 (2.0– 5.8)
	50	5.00			5.00 (1.98– 6.18)	1,600 (460–2,030)	7.1 (2.0– 9.0)
	60	6.00			6.00 (2.08– 6.75)	1,990 (430–2,300)	8.8 (1.9–10.2)
	71	7.10			7.10 (2.18– 7.68)	2,680 (460–2,980)	11.9 (2.0–13.2)
	25+25	2.50	2.50		5.00 (1.98– 6.29)	1,430 (430–2,040)	6.3 (1.9– 9.1)
	25+35	2.50	3.50		6.00 (2.08– 6.84)	1,990 (430–2,350)	8.8 (1.9–10.4)
	25+50	2.40	4.81		7.21 (2.24– 7.76)	2,450 (470–2,680)	10.9 (2.1–11.9)
	25+60	2.21	5.29		7.50 (2.37– 8.25)	2,630 (500–3,000)	11.7 (2.2–13.3)
	25+71	2.03	5.78		7.81 (2.51– 8.48)	2,870 (540–3,130)	12.7 (2.4–13.9)
	35+35	3.50	3.50		7.00 (2.18– 7.31)	2,630 (460–2,680)	11.7 (2.0–11.9)
	35+50	3.09	4.41		7.50 (2.37– 8.09)	2,680 (500–2,930)	11.9 (2.2–13.0)
	35+60	2.87	4.92		7.79 (2.50– 8.47)	2,870 (540–3,120)	12.7 (2.4–13.8)
	35+71	2.63	5.32		7.95 (2.64– 8.49)	2,940 (570–3,130)	13.0 (2.5–13.9)
	50+50	3.95	3.95		7.90 (2.57– 8.70)	2,620 (540–3,200)	11.6 (2.4–14.2)
	50+60	3.64	4.36		8.00 (2.70– 8.90)	2,680 (570–3,140)	11.9 (2.5–13.9)
	50+71	3.31	4.69		8.00 (2.84– 9.11)	2,680 (610–3,280)	11.9 (2.7–14.6)
	60+60	4.00	4.00		8.00 (2.83– 9.28)	2,620 (610–3,350)	11.6 (2.7–14.9)
	60+71	3.66	4.34		8.00 (2.97– 9.31)	2,560 (640–3,360)	11.4 (2.8–14.9)
	71+71	4.00	4.00		8.00 (3.12– 9.33)	2,500 (640–3,360)	11.1 (2.8–14.9)
	25+25+25	2.40	2.40	2.40	7.20 (2.24– 7.70)	2,450 (470–2,630)	10.9 (2.1–11.7)
	25+25+35	2.18	2.18	3.06	7.42 (2.37– 8.25)	2,570 (500–3,000)	11.4 (2.2–13.3)
	25+25+50	1.94	1.94	3.89	7.77 (2.57– 8.91)	2,500 (540–3,140)	11.1 (2.4–13.9)
	25+25+60	1.82	1.82	4.36	8.00 (2.70– 9.12)	2,620 (580–3,220)	11.6 (2.6–14.3)
	25+25+71	1.65	1.65	4.70	8.00 (2.84– 9.32)	2,620 (610–3,360)	11.6 (2.7–14.9)
	25+35+35	2.01	2.82	2.82	7.65 (2.50– 8.49)	2,750 (540–3,130)	12.2 (2.4–13.9)
	25+35+50	1.82	2.55	3.63	8.00 (2.70– 9.06)	2,680 (580–3,210)	11.9 (2.6–14.2)
	25+35+60	1.67	2.33	4.00	8.00 (2.83– 9.30)	2,620 (610–3,360)	11.6 (2.7–14.9)
	25+35+71	1.53	2.14	4.33	8.00 (2.97– 9.33)	2,620 (610–3,360)	11.6 (2.7–14.9)
	25+50+50	1.60	3.20	3.20	8.00 (2.89– 9.56)	2,420 (610–3,220)	10.7 (2.7–14.3)
	25+50+60	1.48	2.96	3.56	8.00 (3.02– 9.76)	2,420 (610–3,370)	10.7 (2.7–15.0)
	25+50+71	1.37	2.74	3.89	8.00 (3.17– 9.78)	2,360 (640–3,380)	10.5 (2.8–15.0)
	25+60+60	1.38	3.31	3.31	8.00 (3.16– 9.95)	2,360 (640–3,450)	10.5 (2.8–15.3)
	25+60+71	1.28	3.08	3.64	8.00 (3.30–10.37)	2,300 (680–3,920)	10.2 (3.0–17.4)
	35+35+35	2.63	2.63	2.63	7.89 (2.63– 8.78)	2,870 (570–3,460)	12.7 (2.5–15.4)
	35+35+50	2.33	2.33	3.34	8.00 (2.83– 9.23)	2,750 (610–3,350)	12.2 (2.7–14.9)
	35+35+60	2.15	2.15	3.70	8.00 (2.96– 9.31)	2,690 (610–3,360)	11.9 (2.7–14.9)
	35+35+71	1.99	1.99	4.02	8.00 (3.10– 9.39)	2,630 (640–3,430)	11.7 (2.8–15.2)
	35+50+50	2.08	2.96	2.96	8.00 (3.02– 9.64)	2,420 (610–3,300)	10.7 (2.7–14.6)
	35+50+60	1.93	2.76	3.31	8.00 (3.16– 9.77)	2,420 (640–3,370)	10.7 (2.8–15.0)
	35+50+71	1.80	2.56	3.64	8.00 (3.30–10.23)	2,360 (680–3,760)	10.5 (3.0–16.7)
	35+60+60	1.80	3.10	3.10	8.00 (3.29–10.35)	2,360 (680–3,920)	10.5 (3.0–17.4)
	50+50+50	2.67	2.67	2.67	8.00 (3.30–10.50)	2,210 (650–3,620)	9.8 (2.9–16.1)

Capacity with ampere limitation

230 V, 50 Hz

Outdoor unit	Combinations of indoor units	Capacity of each indoor unit (kW)			Total capacity (kW) Rated (Min.–Max.)	Total power consumption (W) Rated (Min.–Max.)	Total current (A) Rated (Min.–Max.)
		A room	B room	C room			
3MWKS80KV1 (8.5 A)	25	2.50			2.50 (1.79–3.54)	740 (450–1,060)	3.3 (2.0–4.7)
	35	3.50			3.50 (1.83–4.51)	1,180 (450–1,300)	5.2 (2.0–5.8)
	50	5.00			5.00 (1.98–6.09)	1,600 (460–1,920)	7.1 (2.0–8.5)
	60	5.93			5.93 (2.08–5.93)	1,920 (430–1,920)	8.5 (1.9–8.5)
	71	5.94			5.94 (2.18–5.94)	1,920 (460–1,920)	8.5 (2.0–8.5)
	25+25	2.50	2.50		5.00 (1.98–5.99)	1,430 (430–1,920)	6.3 (1.9–8.5)
	25+35	2.48	3.46		5.94 (2.08–5.94)	1,920 (430–1,920)	8.5 (1.9–8.5)
	25+50	2.14	4.27		6.41 (2.24–6.41)	1,920 (470–1,920)	8.5 (2.1–8.5)
	25+60	1.89	4.55		6.44 (2.37–6.44)	1,920 (500–1,920)	8.5 (2.2–8.5)
	25+71	1.68	4.77		6.45 (2.51–6.45)	1,920 (540–1,920)	8.5 (2.4–8.5)
	35+35	2.97	2.97		5.94 (2.18–5.94)	1,920 (460–1,920)	8.5 (2.0–8.5)
	35+50	2.64	3.78		6.42 (2.37–6.42)	1,920 (500–1,920)	8.5 (2.2–8.5)
	35+60	2.37	4.07		6.44 (2.50–6.44)	1,920 (540–1,920)	8.5 (2.4–8.5)
	35+71	2.13	4.33		6.46 (2.64–6.46)	1,920 (570–1,920)	8.5 (2.5–8.5)
	50+50	3.40	3.40		6.79 (2.57–6.79)	1,920 (540–1,920)	8.5 (2.4–8.5)
	50+60	3.10	3.71		6.81 (2.70–6.81)	1,920 (570–1,920)	8.5 (2.5–8.5)
	50+71	2.82	4.01		6.83 (2.84–6.83)	1,920 (610–1,920)	8.5 (2.7–8.5)
	60+60	3.42	3.42		6.84 (2.83–6.84)	1,920 (610–1,920)	8.5 (2.7–8.5)
	60+71	3.17	3.76		6.93 (2.97–6.93)	1,920 (640–1,920)	8.5 (2.8–8.5)
	71+71	3.51	3.51		7.02 (3.12–7.02)	1,920 (640–1,920)	8.5 (2.8–8.5)
	25+25+25	2.15	2.15	2.15	6.45 (2.24–6.45)	1,920 (470–1,920)	8.5 (2.1–8.5)
	25+25+35	1.90	1.90	2.65	6.45 (2.37–6.45)	1,920 (500–1,920)	8.5 (2.2–8.5)
	25+25+50	1.71	1.71	3.40	6.82 (2.57–6.82)	1,920 (540–1,920)	8.5 (2.4–8.5)
	25+25+60	1.56	1.56	3.73	6.85 (2.70–6.85)	1,920 (580–1,920)	8.5 (2.6–8.5)
	25+25+71	1.42	1.42	4.03	6.87 (2.84–6.87)	1,920 (610–1,920)	8.5 (2.7–8.5)
	25+35+35	1.70	2.38	2.38	6.46 (2.50–6.46)	1,920 (540–1,920)	8.5 (2.4–8.5)
	25+35+50	1.55	2.17	3.11	6.83 (2.70–6.83)	1,920 (580–1,920)	8.5 (2.6–8.5)
	25+35+60	1.43	2.00	3.43	6.86 (2.83–6.86)	1,920 (610–1,920)	8.5 (2.7–8.5)
	25+35+71	1.31	1.84	3.72	6.87 (2.97–6.87)	1,920 (610–1,920)	8.5 (2.7–8.5)
	25+50+50	1.46	2.92	2.92	7.29 (2.89–7.29)	1,920 (610–1,920)	8.5 (2.7–8.5)
	25+50+60	1.36	2.71	3.25	7.32 (3.02–7.32)	1,920 (610–1,920)	8.5 (2.7–8.5)
	25+50+71	1.26	2.51	3.56	7.33 (3.17–7.33)	1,920 (640–1,920)	8.5 (2.8–8.5)
	25+60+60	1.25	3.01	3.01	7.27 (3.16–7.27)	1,920 (640–1,920)	8.5 (2.8–8.5)
	25+60+71	1.18	2.83	3.35	7.36 (3.30–7.36)	1,920 (680–1,920)	8.5 (3.0–8.5)
	35+35+35	2.15	2.15	2.15	6.45 (2.63–6.45)	1,920 (570–1,920)	8.5 (2.5–8.5)
	35+35+50	1.99	1.99	2.85	6.83 (2.83–6.83)	1,920 (610–1,920)	8.5 (2.7–8.5)
	35+35+60	1.83	1.83	3.13	6.79 (2.96–6.79)	1,920 (610–1,920)	8.5 (2.7–8.5)
	35+35+71	1.71	1.71	3.46	6.88 (3.10–6.88)	1,920 (640–1,920)	8.5 (2.8–8.5)
	35+50+50	1.90	2.70	2.70	7.30 (3.02–7.30)	1,920 (610–1,920)	8.5 (2.7–8.5)
	35+50+60	1.77	2.52	3.03	7.32 (3.16–7.32)	1,920 (640–1,920)	8.5 (2.8–8.5)
	35+50+71	1.66	2.34	3.34	7.34 (3.30–7.34)	1,920 (680–1,920)	8.5 (3.0–8.5)
	35+60+60	1.65	2.85	2.85	7.35 (3.29–7.35)	1,920 (680–1,920)	8.5 (3.0–8.5)
	50+50+50	2.59	2.59	2.59	7.76 (3.30–7.76)	1,920 (650–1,920)	8.5 (2.9–8.5)

Outdoor unit	Combinations of indoor units	Capacity of each indoor unit (kW)			Total capacity (kW) Rated (Min.–Max.)	Total power consumption (W) Rated (Min.–Max.)	Total current (A) Rated (Min.–Max.)
		A room	B room	C room			
3MWKS80KV1 (11 A)	25	2.50			2.50 (1.79–3.54)	740 (450–1,060)	3.3 (2.0– 4.7)
	35	3.50			3.50 (1.83–4.51)	1,180 (450–1,300)	5.2 (2.0– 5.8)
	50	5.00			5.00 (1.98–6.18)	1,600 (460–2,030)	7.1 (2.0– 9.0)
	60	6.00			6.00 (2.08–6.75)	1,990 (430–2,300)	8.8 (1.9–10.2)
	71	6.86			6.86 (2.18–6.86)	2,480 (460–2,480)	11.0 (2.0–11.0)
	25+25	2.50	2.50		5.00 (1.98–6.29)	1,430 (430–2,040)	6.3 (1.9– 9.1)
	25+35	2.50	3.50		6.00 (2.08–6.84)	1,990 (430–2,350)	8.8 (1.9–10.4)
	25+50	2.40	4.81		7.21 (2.24–7.31)	2,450 (470–2,480)	10.9 (2.1–11.0)
	25+60	2.16	5.18		7.34 (2.37–7.34)	2,480 (500–2,480)	11.0 (2.2–11.0)
	25+71	1.92	5.44		7.36 (2.51–7.36)	2,480 (540–2,480)	11.0 (2.4–11.0)
	35+35	3.43	3.43		6.86 (2.18–6.86)	2,480 (460–2,480)	11.0 (2.0–11.0)
	35+50	3.01	4.30		7.31 (2.37–7.31)	2,480 (500–2,480)	11.0 (2.2–11.0)
	35+60	2.71	4.64		7.35 (2.50–7.35)	2,480 (540–2,480)	11.0 (2.4–11.0)
	35+71	2.43	4.93		7.36 (2.64–7.36)	2,480 (570–2,480)	11.0 (2.5–11.0)
	50+50	3.88	3.88		7.76 (2.57–7.76)	2,480 (540–2,480)	11.0 (2.4–11.0)
	50+60	3.54	4.25		7.79 (2.70–7.79)	2,480 (570–2,480)	11.0 (2.5–11.0)
	50+71	3.23	4.58		7.81 (2.84–7.81)	2,480 (610–2,480)	11.0 (2.7–11.0)
	60+60	3.91	3.91		7.82 (2.83–7.82)	2,480 (610–2,480)	11.0 (2.7–11.0)
	60+71	3.63	4.29		7.92 (2.97–7.92)	2,480 (640–2,480)	11.0 (2.8–11.0)
	71+71	3.99	3.99		7.98 (3.12–7.98)	2,480 (640–2,480)	11.0 (2.8–11.0)
	25+25+25	2.40	2.40	2.40	7.20 (2.24–7.34)	2,450 (470–2,480)	10.9 (2.1–11.0)
	25+25+35	2.16	2.16	3.04	7.36 (2.37–7.36)	2,480 (500–2,480)	11.0 (2.2–11.0)
	25+25+50	1.94	1.94	3.89	7.77 (2.57–7.77)	2,480 (540–2,480)	11.0 (2.4–11.0)
	25+25+60	1.78	1.78	4.27	7.83 (2.70–7.83)	2,480 (580–2,480)	11.0 (2.6–11.0)
	25+25+71	1.62	1.62	4.61	7.85 (2.84–7.85)	2,480 (610–2,480)	11.0 (2.7–11.0)
	25+35+35	1.94	2.71	2.71	7.36 (2.50–7.36)	2,480 (540–2,480)	11.0 (2.4–11.0)
	25+35+50	1.77	2.48	3.55	7.80 (2.70–7.80)	2,480 (580–2,480)	11.0 (2.6–11.0)
	25+35+60	1.63	2.28	3.92	7.83 (2.83–7.83)	2,480 (610–2,480)	11.0 (2.7–11.0)
	25+35+71	1.50	2.10	4.25	7.85 (2.97–7.85)	2,480 (610–2,480)	11.0 (2.7–11.0)
	25+50+50	1.60	3.20	3.20	8.00 (2.89–8.23)	2,420 (610–2,480)	10.7 (2.7–11.0)
	25+50+60	1.48	2.96	3.56	8.00 (3.02–8.26)	2,420 (610–2,480)	10.7 (2.7–11.0)
	25+50+71	1.37	2.74	3.89	8.00 (3.17–8.28)	2,360 (640–2,480)	10.5 (2.8–11.0)
	25+60+60	1.38	3.31	3.31	8.00 (3.16–8.19)	2,360 (640–2,480)	10.5 (2.8–11.0)
	25+60+71	1.28	3.08	3.64	8.00 (3.30–8.28)	2,300 (680–2,480)	10.2 (3.0–11.0)
	35+35+35	2.46	2.46	2.46	7.38 (2.63–7.38)	2,480 (570–2,480)	11.0 (2.5–11.0)
	35+35+50	2.28	2.28	3.25	7.81 (2.83–7.81)	2,480 (610–2,480)	11.0 (2.7–11.0)
	35+35+60	2.09	2.09	3.58	7.76 (2.96–7.76)	2,480 (610–2,480)	11.0 (2.7–11.0)
	35+35+71	1.95	1.95	3.96	7.86 (3.10–7.86)	2,480 (640–2,480)	11.0 (2.8–11.0)
	35+50+50	2.08	2.96	2.96	8.00 (3.02–8.24)	2,420 (610–2,480)	10.7 (2.7–11.0)
	35+50+60	1.93	2.76	3.31	8.00 (3.16–8.27)	2,420 (640–2,480)	10.7 (2.8–11.0)
	35+50+71	1.80	2.56	3.64	8.00 (3.30–8.29)	2,360 (680–2,480)	10.5 (3.0–11.0)
	35+60+60	1.80	3.10	3.10	8.00 (3.29–8.28)	2,360 (680–2,480)	10.5 (3.0–11.0)
	50+50+50	2.67	2.67	2.67	8.00 (3.30–8.76)	2,210 (650–2,480)	9.8 (2.9–11.0)

Notes:1. 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 15.6 kW.

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