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- 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.

Special Warning

The refrigerant has been changed from R-22 to R-410A. Please read the Installation Manual carefully before installing this product.

R-410A

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.

Dealer

DAIKIN INDUSTRIES, LTD.

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Tokyo Office:
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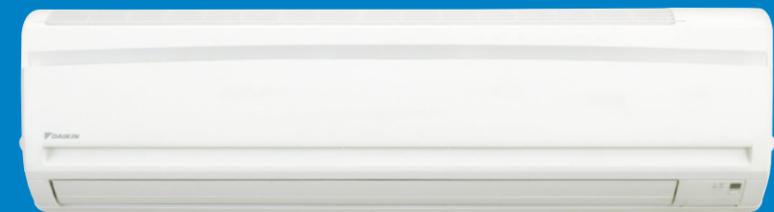
http://www.daikin.com/global_ac/

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Split Type Air Conditioners

Cooling Only [50 Hz] **R-410A**





Always around Us

They are always there, just like air. We believe air conditioners should have simple designs that merge smoothly with our daily lives. Daikin's subtle flat panel design blends seamlessly into any room interior. Uniform models of 5.0 and 6.0 kW, using R-410A HFC, are available now.



Energy Saving

The 5.0 kW model delivers a high COP of 3.23. A high COP is important for energy efficiency.

▶ See page 5.



Comfortable Airflow

Vertical and Horizontal Auto-Swing plus other airflow functions give you more comfortable airflow.

▶ See page 4 and 7



Clear Air with Less Dust and Odours

Air-Purifying Filter with Photocatalytic Deodorising function traps dust, decompose odours and even removes bacteria and viruses.

▶ See page 6.



A Refreshingly Simple Design

The stylish flat panel design creates a simplicity and sophistication that enhances any interior space. FTN series offer 5.0 and 6.0 kW models that are appropriate for spacious rooms as living rooms.



New Series



FTN50/60J

FTN50JV1 / RN50JV1

5.3 kW 18,090 Btu/h

FTN60JV1 / RN60JV1

6.7 kW 22,860 Btu/h



RN50J

RN60J

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 louvers 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. These functions can create comfortable airflow.



Function List

Indoor unit

Comfortable Airflow

-  Power-Airflow Dual Flaps
-  Wide-Angle Louvers
-  Vertical Auto-Swing (up and down)
-  Horizontal Auto-Swing (left and right)
-  3-D Airflow

Comfort Control

-  Programme Dry Function
-  Auto Fan Speed

Lifestyle Convenience

-  New Powerful Operation
-  Indoor Unit On/Off Switch

Cleanliness

-  Air-Purifying Filter with Photocatalytic Deodorising Function
-  Wipe-Clean Flat Panel

Timers

-  24-Hour On/Off Timer
-  Night Set Mode

Worry Free

-  Auto-Restart after Power Failure
-  Self-Diagnosis with Digital Display

Outdoor unit

Worry Free

-  Anticorrosion Treatment of Outdoor Heat Exchanger Fins

Energy Savings and Clean Air with Less Dust and Odours

High Energy Savings

FTN50J provides a high COP of 3.23. 5.0 and 6.0 kW models are appropriate for spacious rooms as living rooms.

What is COP?

An air conditioner's COP (Coefficient of Performance) indicates how efficiently the unit uses energy. A higher COP means greater energy efficiency. It also means lower electricity consumption, so you save money.

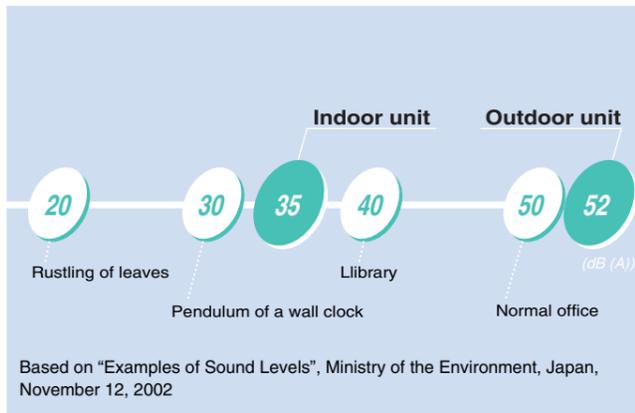
$$\text{COP (W/W)} = \frac{\text{Capacity (W)}}{\text{Power consumption (W)}}$$

	FTN50J	FTN60J
COP (W/W)	3.23	3.03

Quiet Sound Levels

The FTN series offers low sound levels. Sound levels for 5.0 kW model are 35 dB (A) for indoor unit operation and 50 dB (A) for outdoor unit operation.

	FTN50J	FTN60J
Indoor unit	FTN50J	FTN60J
Sound levels (L)	35	36
Outdoor unit	RN50J	RN60J
Sound levels	50	52

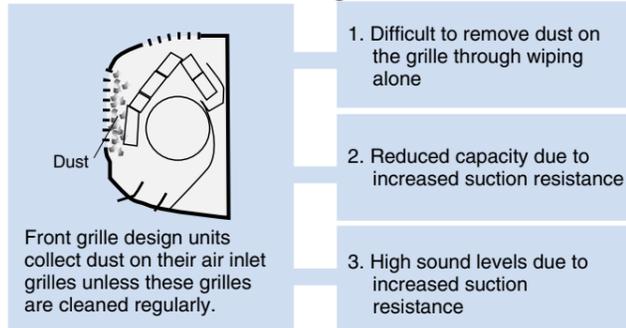


Wipe-Clean Flat Panel

Flat panel models can be cleaned instantly with a single wipe of a cloth across their smooth surface. If more thorough cleaning is required, the panel can also be easily removed from the unit.

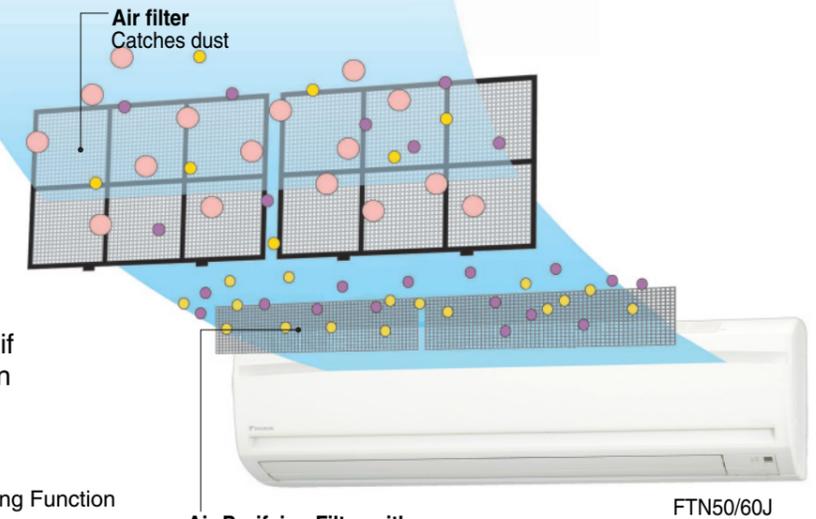


Conventional Front Grille Design



Air-Purifying Filter with Photocatalytic Deodorising Function

 Air-Purifying Filter with Photocatalytic Deodorising Function is able to trap microscopic particles, decompose odours and even remove bacteria and deactivate viruses. This filter features a large active surface area that effectively cleans the high volumes of air required to air-condition living rooms. The filter delivers consistent performance for approximately 3 years if washing with water is performed once in 6 months.



Air-Purifying Filter with Photocatalytic Deodorising Function



This filter is not a medical device. 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 Air-Purifying Filter with Photocatalytic Deodorising Function.

Bacteria removal test
 Testing method: Dropping method
 Testing organisation: Japan Spinners Inspecting Foundation
 Result certificate: No. 012553-1 and 012553-2

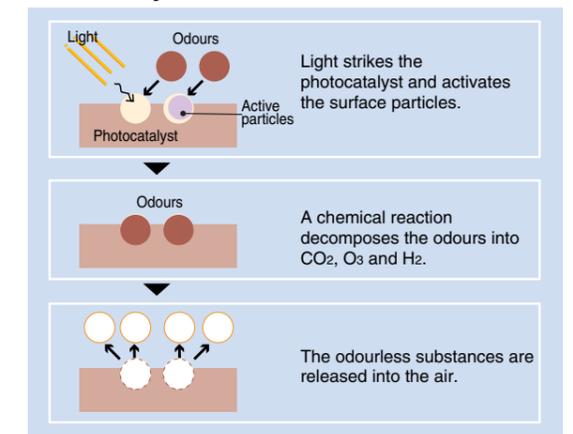
Air-Purifying Filter with Photocatalytic Deodorising Function

Traps microscopic particles, decomposes odours and even removes bacteria and viruses.

Photocatalytic deodorising mechanism

Photocatalytic deodorising filters are made of titanium oxide. When titanium oxide is exposed to light, a powerful oxidising action occurs. This decomposes substances adsorbed on the filter surface into odourless carbon dioxide and water.

Photocatalytic Mechanism



Airflow and Reliable Functions

Power-Airflow Dual Flaps



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

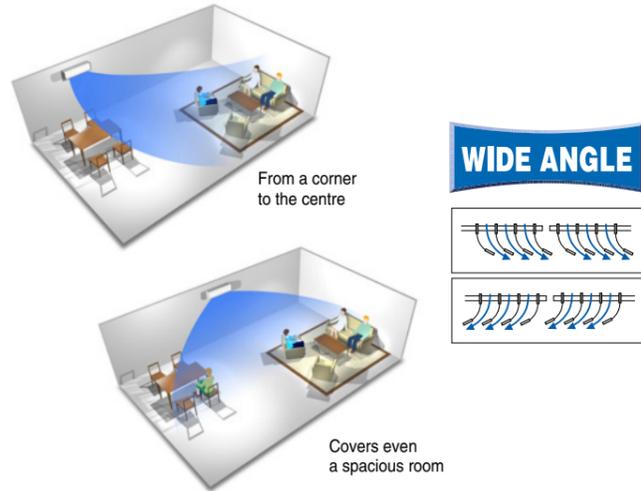


Cool air slides off to reach the corner of the room.

Wide-Angle Louvers



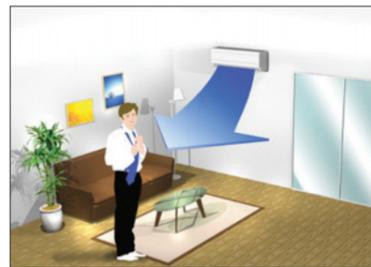
The smoothly curved Wide-Angle Louvers provide wide airflow coverage for effective cooling operation no matter where the indoor unit is placed in a room. The louvers can be adjusted by hand.



New Powerful Operation



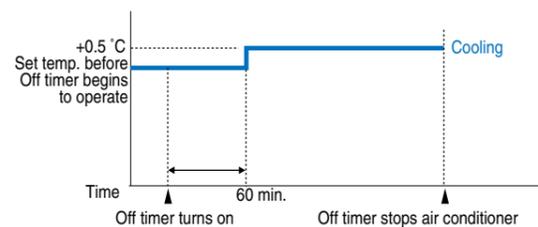
New Powerful Operation boosts airflow to maximum volume for a 20-minute period. After this, the unit automatically returns to its previous settings. This function is activated by pushing the POWERFUL button on the remote controller. So, for example, now when you come home on a hot day, a powerful airflow will always be right at your fingertips.



Night Set Mode



Pressing the Off timer button automatically selects Night Set Mode. This function prevents excessive cooling for your pleasant sleep. Room temperature is raised by 0.5 °C after 60 minutes for cooling operation.



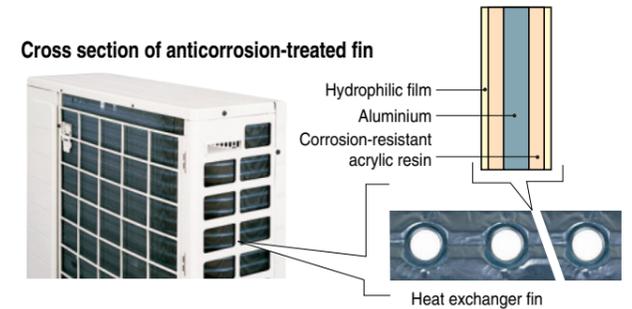
Cooling operation: Room temperature is raised by 0.5 °C after 60 minutes.

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. A hydrophilic film layer also prevents rust caused by the run off of water droplets. Additional durability is provided by a rustproof steel sheet on the bottom of the unit.

Cross section of anticorrosion-treated fin

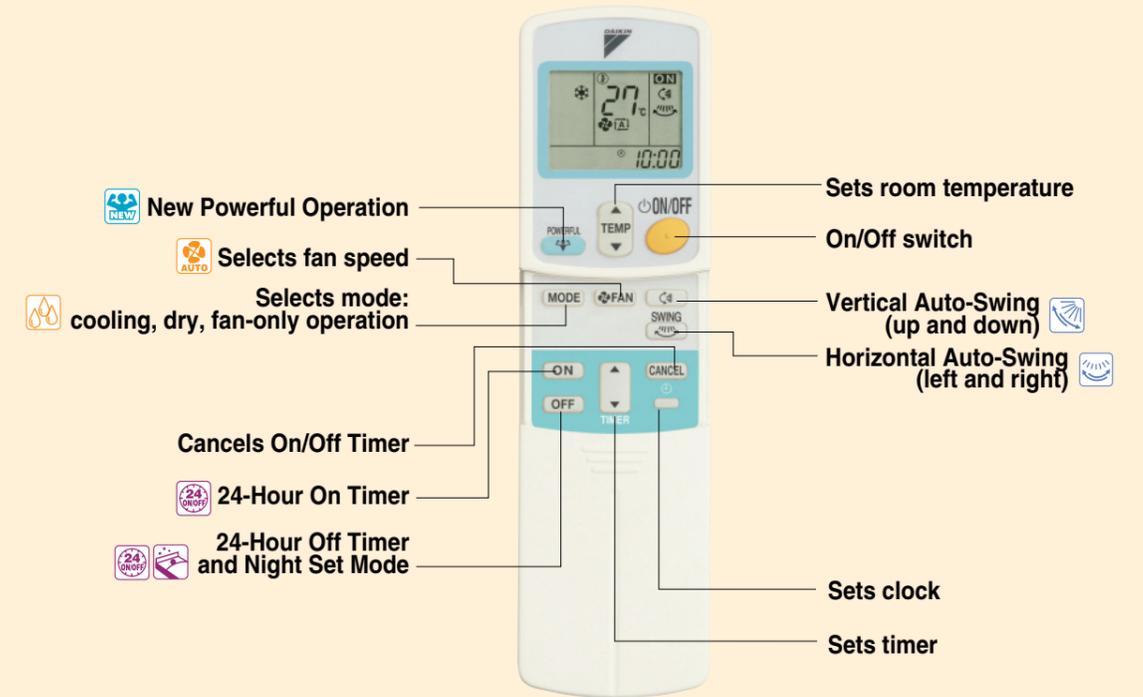


Self-Diagnosis with Digital Display



Malfunction codes are shown on the digital display panel of the wireless remote controller for fast and easy maintenance.

Wireless remote controller for FTN50/60J



Comfortable Airflow



Power-Airflow Dual Flaps

Power-Airflow Dual Flaps can flatten out during cooling operation to deliver cool air to the corners of a room.
▶ See page 7



Wide-Angle Louvres

The smoothly curved Wide-Angle Louvres provide wide airflow coverage for effective operation no matter where the indoor unit is placed in a room.
▶ See page 7



Vertical Auto-Swing (up and down)

This function automatically moves the flaps up and down to distribute air across a room.
▶ See page 4



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 4



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 4

Lifestyle Convenience



New Powerful Operation

New Powerful Operation boosts airflow to maximum volume for a 20-minute period. After this, the unit automatically returns to its previous settings.
▶ See page 7



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.

Cleanliness



Air-Purifying Filter with Photocatalytic Deodorising Function

This filter traps microscopic particles, decomposes odours and even removes bacteria and viruses. It can be used for up to 3 years.
▶ See page 6



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 5

Comfort Control



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.

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/setting timer button on the wireless remote controller.



Night Set Mode

Pressing the Off timer button automatically selects Night Set Mode. Room temperature is raised by 0.5 °C after 60 minutes to prevent excessive cooling for your pleasant sleep.
▶ See page 7

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 are shown on the digital display panel of the wireless remote controller for fast and easy maintenance.
▶ See page 8



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.
▶ See page 8

Specifications

Model name	Indoor unit		FTN50JV1	FTN60JV1
	Outdoor unit		RN50JV1	RN60JV1
Capacity	kW		5.3	6.7
	Btu/h		18,090	22,860
Power supply	1 phase, 220-240 V, 50Hz			
Running current	A		7.5	10.2
Power consumption	W		1,640	2,210
COP	W/W		3.23	3.03
Indoor unit			FTN50JV1	FTN60JV1
Front panel colour	White			
Airflow rate (H)	m ³ /min (cfm)		17.5 (618)	18.5 (653)
Fan speed	5 steps and automatic			
Sound levels (H/L)	dB (A)		45/35	47/36
Dimensions (H x W x D)	mm		290 x 1,050 x 238	
Machine weight	kg		12	
Outdoor unit			RN50JV1	RN60JV1
Casing colour	Ivory white			
Compressor	Type		Hermetically sealed rotary type	
	Motor output	W	1,300	1,700
Refrigerant charge (R-410A)	kg		1.6	2.0
Sound levels	dB (A)		50	52
Dimensions (H x W x D)	mm		735 x 825 x 300	770 x 900 x 320
Machine weight	kg		48	63
Operation range	°CDB		19.4 to 46	
Piping connections	Liquid		ø6.4	
	Gas	mm	ø12.7	ø15.9
	Drain		ø18.0	
Max. piping length			30	
Max. height difference	m		20	

Note: The above values are based on operation with a 220V, 50Hz power supply.

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 levels are based on temperature condition in 1 above. These are anechoic conversion values. These values are normally somewhat higher during actual operation as a result of ambient conditions.

Options

Indoor unit

No.	Item	FTN50/60JV1
1	Air-purifying filter with photocatalytic deodorising function without frame *1	KAF952A42
2	Remote controller loss prevention with chain	KKF917A4

Notes: *1. The filter is a standard accessory. It should be replaced after approximately every 3 years.



Air-purifying filter with photocatalytic deodorising function without frame
KAF952A42



Remote controller loss prevention with chain
KKF917A4

Outdoor unit

No.	Item	RN50/60JV1
1	Air direction adjustment grille	KPW945A4
2	Drain plug	KKP937A4