



USER MANUAL

Fan coil units

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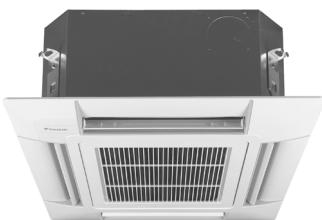


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1 Introduction

Thank you for purchasing this DAIKIN fan coil unit.

1.1. About fan coil units

A fan coil unit provides heating and/or cooling to individual spaces. It creates a comfortable environment in both commercial and residential applications. Fan coil units are widely used for the air conditioning of offices, hotels and houses.

The main components of fan coil units are:

- a fan,
- a heat exchanger.

The heat exchanger receives hot or cold water from a heating or cooling source.

DAIKIN offers a wide range of fan coil units for both concealed and exposed applications. Contact your installer for a list of related products.

1.2. About your fan coil unit

You have purchased the FWF model fan coil unit. The model identification code means:

FW	F	02	B	7	T	V1	B
FW	Water fan coil unit						
F	Subclass: Cassette F: 2x2						
02	Total cooling capacity (kW)						
B	Major model change						
7	Minor model change						
T	Coil type: T: 2-pipe F: 4-pipe						
V1	1 phase / 50 Hz / 220-240 V						
B	Produced in Europe						

The following models are available:

- FWF02-03-04-05B7TV1B
2-pipe fan coil units have a single-circuit heat exchanger. The device can be used for either cooling **or** heating.
- FWF02-03-04-05B7FV1B
4-pipe fan coil units have a double-circuit heat exchanger. The units can be connected to both cooling **and** heating systems. Use this type if you have a separate source for cooling and for heating.

1.3. About this document

This document is a user manual. It is written for the person who owns or operates this fan coil unit. It provides information on:

- the product itself ("[Introduction](#)" on page 1),
- what you should do before you operating the fan coil unit ("[Before operating](#)" on page 2),
- what you should do for optimal operation of your fan coil unit ("[Tips for optimal operation](#)" on page 3),
- how you should clean your fan coil unit ("[Clean your fan coil unit](#)" on page 4),
- what you should do when there is a problem with your fan coil unit ("[Solve problems with your fan coil unit](#)" on page 4),
- how you should dispose of your fan coil unit ("[Dispose of your fan coil unit](#)" on page 4),
- terms that have been used in this user manual that may need clarification ("[Glossary](#)" on page 4).



Important

This user manual does not explain how to operate your fan coil unit. You can only operate your fan coil unit by means of a controller. Therefore, the operating instructions are included in the controller box.

Keep this user manual close to hand. It may come in handy later. The original documentation is written in English. All other languages are translations of the original documentation.

1.3.1. Meaning of warnings and symbols

Warnings in this manual are classified according to their severity and probability of happening.



Danger: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



Warning: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Caution: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



Notice: Indicates situations that may result in damage to equipment or property.



Information: This symbol identifies useful information, but no hazardous situation warnings.

Some types of danger are represented by special symbols:



Electric current



Danger of burning or scalding

Other symbols:



This part of the manual is intended for the installer of this product.

2 Before operating

2.1. Check that you have all equipment and the corresponding documentation

Extra required equipment

The fan coil unit must be used in combination with additional equipment.

This equipment must be bought separately and is required to operate the fan coil unit safely and comfortably.

Overview of additional equipment required:

- decoration panel,
- controller.

An overview of the types that are available:

Decoration panel	Identification code	Description
Decoration panel	BYFQ60B	Decoration panel for the fan coil unit.
Panel spacer	KDBQ44B60	Decorative spacer to fill the gap between panel and unit when the height of the suspended ceiling is too small.

Mandatory equipment: Each fan coil unit must be connected to at least one of the listed controllers.

Controllers	Identification code	Description
Electronic remote controller - wireless (cooling and heating)	BRC7E530	Wireless remote controller to control each fan coil unit independently with cooling and heating functionality. Remark: <ul style="list-style-type: none"> ■ Refer to the VRV system in the operation manual. ■ The function "auto fan speed" is not available.
Electronic remote controller - wireless (cooling only)	BRC7E531	Wireless remote controller to control each fan coil unit independently with cooling functionality only. Remark: <ul style="list-style-type: none"> ■ Refer to the VRV system in the operation manual. ■ The function "auto fan speed" is not available.
Electronic remote controller - wired	BRC315D7	Wired remote controller to control each fan coil unit independently with cooling and heating functionality.
Central remote controller	DCS302CA51	Remote controller for centralized control of all connected units.
Intelligent touch controller	DCS601C51C	Advanced remote controller for centralized control of all connected units.
Unified ON/OFF controller	DCS301BA51	Remote controller to switch all connected units ON or OFF.

Before operating

Extra optional equipment

Optionally, you can buy additional equipment for your fan coil unit to extend the life of your product, increase the level of automation and improve its ease of use.

Overview of the optional additional equipment for your fan coil unit: An overview of the types that are available:

- air handling options,
- sensor,
- timer,
- valves,
- electronic circuits (PCB).

Air handling options	Identification code	Description
Sealing member of air discharge outlet	KDBH44BA60	Blocking parts to close one or more air outlets of the fan coil unit.
Long-life replacement filter	KAFQ441BA60	High quality filter.
Fresh air intake kit	KDDQ44XA60	Kit which can be connected to the ventilation system in order to supply fresh air to the fan coil unit.

Sensor	Identification code	Description
Remote temperature sensor	KRCS01-1	Replacement sensor to measure temperature remotely from a location other than that in which the controller is installed.

Timer	Identification code	Description
Schedule timer	DST301BA51	Controller with schedule timing functionality.

Valves	Identification code	Description
2-way valve (ON/OFF type)	EKMV2C09B7	Electronic 2-way valve to control the water supply (+EKRP1C11).
3-way valve (ON/OFF type)	EKMV3C09B7	Electronic 3-way valve to control the water supply (+EKRP1C11).

Electronic circuits	Identification code	Description
Valve control PCB	EKRP1C11	Mandatory electronic circuit when 2-way or 3-way valve is used.
Optional PCB for Modbus connection	EKFCMBCB7	Electronic circuit with Modbus interface connections.
Wiring adaptor for electrical appendices	KRP4A(A)53 KRP2A52	Electronic circuit with additional connections for external input/output signals.
Remote "ON/OFF" and "Forced OFF" kit	EKROROA	Connection to control the ON/OFF operation remotely.

2.2. Read the safety precautions

Your fan coil unit is built to meet all recognized technical requirements. Operate your fan coil unit according to the instructions in the included documentation and the manuals of the additional equipment (e.g. controller). Any other usage is considered as improper and may result in property damage, serious physical injuries or death. Resulting damage caused by improper use is the sole responsibility of the user and the user alone.

To prevent any risk:

- carefully read the safety precautions,
- operate your fan coil unit according to the documentation.

Precautions for installation

The installer should install and connect your fan coil unit as described in the installation manual. Please note that the installer can only install your fan coil unit:

- in a concealed ceiling,
- in perfect condition.

Precautions before operating

Only operate your fan coil unit after it has been installed by a licensed installer. Verify that the installation has been completed by checking that the "[Annex: Handover of the installation to the user](#)" on page 5 has been filled in completely.

Precautions for operating

Only operate a fan coil unit if you are fully alert and aware.

Fan coil units are not intended for use by persons with reduced physical, sensory or mental capabilities or those who have not used the fan coil unit before, including children. When these persons want to use the fan coil unit, the person responsible for their safety must supervise them or instruct them in the use of the fan coil unit. Supervise children to ensure that they do not play with the fan coil unit. If you feel unsure about operating the fan coil unit, contact your installer for advice and information.

3 Tips for optimal operation

- Adjust the room temperature properly for a comfortable environment. Avoid excessive heating or cooling. Notice that it may take some time for the room temperature to reach the set temperature. Consider using the timer setting options.
- Prevent direct sunlight from entering a room during cooling operation by using curtains or blinds.
- Ventilate the room regularly. Using the unit for long periods of time requires attentive ventilation of the room.
- Keep doors and windows closed when the unit is in operation. If the doors and windows remain open, air will flow out and decrease the effect of cooling and heating.
- Never place objects near the air inlet and the air outlet of the unit. It may reduce the effectiveness or cause the unit to stop.
- Turn off the main power supply switch when not using the fan coil unit for long periods of time. Electricity is consumed so long as the switch is on. Turn off the main power supply switch in order to save energy.
- Fully use the function of air flow direction adjustment if available. As cold air gathers on the floor and warm air gathers against the ceiling, it is recommended to set the air flow direction during cooling operation parallel to the ceiling and to set it downwards during heating operation. Be sure that you do not direct air flow on to the inhabitants of the room.

4 Clean your fan coil unit

To clean the outside of your fan coil unit:

- 1 Switch off the fan coil unit.
- 2 Clean the outside of the fan coil unit with a soft cloth.



Notice

Do not pour any liquid on the fan coil unit. This could damage the components inside it.

Never clean your fan coil unit with:

- any aggressive chemical solvent,
- water hotter than 50°C.

For maintenance of your fan coil unit, contact your installer or service company.

5 Solve problems with your fan coil unit

When your fan coil unit does not function well, you can try to solve any problem with the corrective actions in this chapter.

If the problem persists or is not addressed in this chapter, contact your installer or service company.

Your fan coil unit does not function

If your fan coil unit does not function:

Check:	If yes,
Has the fan coil unit been switched OFF ?	Switch the fan coil unit ON .
Is there a power failure?	Restore the power supply.
Has the circuit breaker (fuse) been tripped?	Contact your installer or service company.

Your fan coil unit does not cool or heat well

If your fan coil unit does not cool or heat well:

Check:	If yes,
Is there an obstacle near the air inlet or air outlet?	Remove the obstacle.
Are any doors and windows open?	Close doors and windows.
Is the fan coil unit running at low speed ?	Select medium speed or high speed .
Are the air filters dirty?	Contact your installer or service company.

Your fan coil unit leaks water

Shut down the unit and contact your installer or service company.

6 Dispose of your fan coil unit

Your fan coil unit was designed to be environment friendly. DAIKIN has complied with the standards for environmentally-friendly disposal. This means that you have to dispose of your fan coil unit in accordance with the applicable legislation. By ensuring this product is disposed of correctly, you help to prevent potential negative consequences for the environment and human health.



Fig. 6.1: WEEE symbol

Your fan coil unit is categorized as an electrical and electronic product. It is marked with the symbol illustrated in figure "WEEE symbol" on page 4. This symbol means that your fan coil unit should be recycled and not disposed of in unsorted municipal waste.

To dispose of your fan coil unit, contact your installer. The installer and qualified instances will:

- dismantle the fan coil unit,
- re-use, recycle and recover parts of the fan coil unit.



Warning

Never dismantle the fan coil unit yourself.

DAIKIN and the environment thank you!

7 Glossary

Term	Meaning
Applicable legislation:	All international, European, national and local directives, laws, regulations and/or codes which are relevant and applicable for a certain product or domain
Circuit breaker (fuse):	Safety device used in electrical installations to prevent electric shock
Installer:	Technical skilled person who is qualified to install fan coil units and other DAIKIN products
Service company:	Qualified company which can perform or coordinate the required service to the fan coil unit



Annex: Handover of the installation to the user

To be filled in by the installer once the test run is finished and the fan coil unit(s) operate(s) properly.

Tick <input checked="" type="checkbox"/> when checked	
<input type="checkbox"/>	Explain to the user what system is installed on site . Complete the ID cards below for each installed fan coil unit. This information may be useful for the user in future servicing. Fill in the place of installation (room), the model name (see nameplate of the fan coil unit) and list the optional equipment which is installed.

Tick <input checked="" type="checkbox"/> when checked	
<input type="checkbox"/>	Ensure that the user has a printed version of the user manual and the installation manual and ask him/her to keep it for future reference.

<input type="checkbox"/>	Explain the user how to properly operate the system , and what he/she has to do in case of problems.
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<input type="checkbox"/>	Show the user what maintenance jobs he/she has to do in relation to cleaning the unit.
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Date:
Signature:

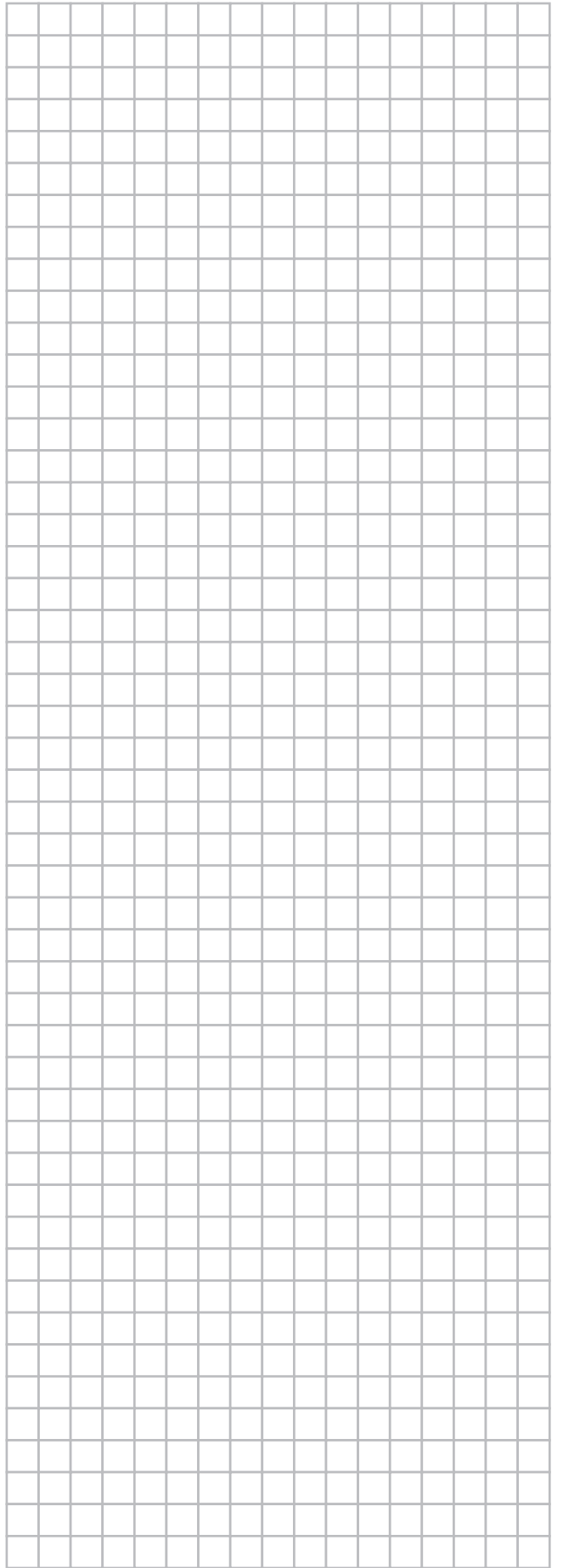
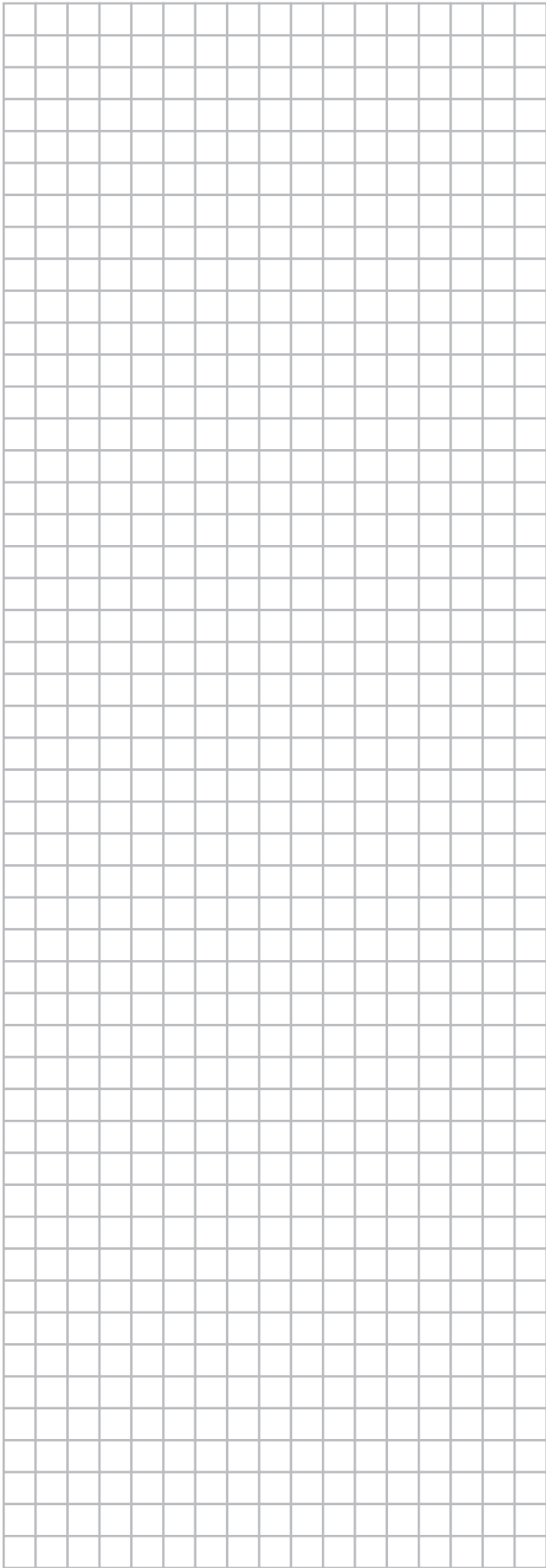
Your DAIKIN product was installed by:

Fan coil unit 1		Fan coil unit 2	
Place of installation:		Place of installation:	
Model name:		Model name:	
Optional equipment:		Optional equipment:	

Fan coil unit 3		Fan coil unit 4	
Place of installation:		Place of installation:	
Model name:		Model name:	
Optional equipment:		Optional equipment:	

Fan coil unit 5		Fan coil unit 6	
Place of installation:		Place of installation:	
Model name:		Model name:	
Optional equipment:		Optional equipment:	

Fan coil unit 7		Fan coil unit 8	
Place of installation:		Place of installation:	
Model name:		Model name:	
Optional equipment:		Optional equipment:	





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