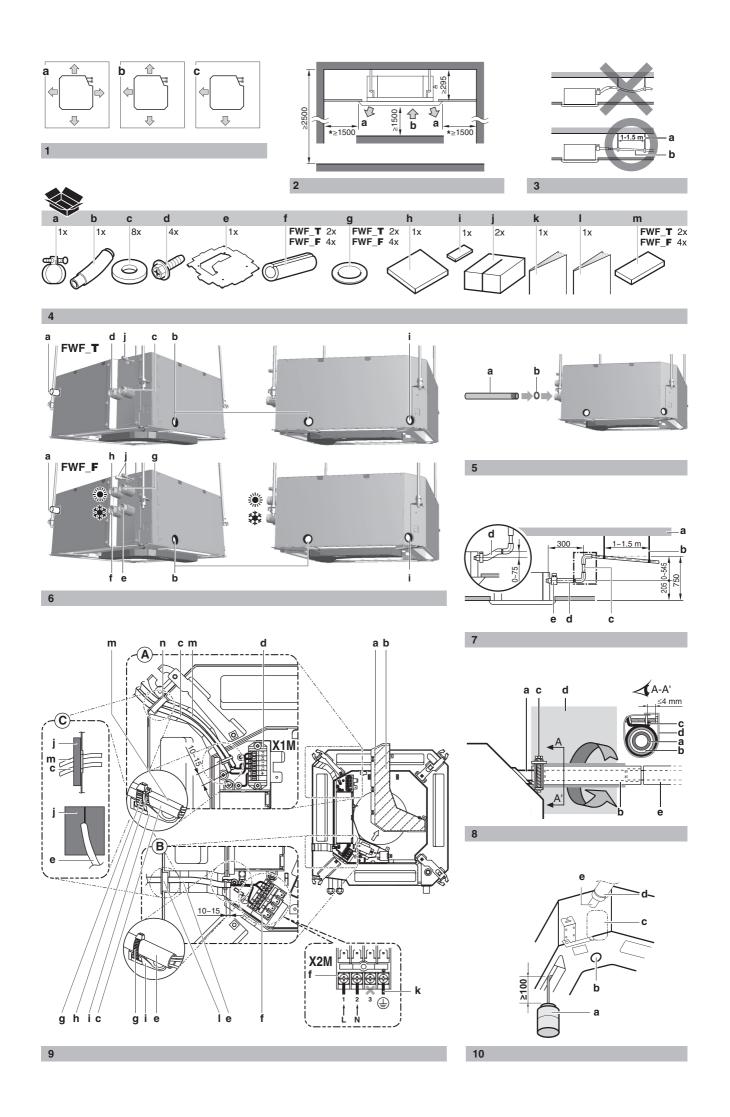


INSTALLATION MANUAL

Fan coil units

FWF02B7TV1B FWF03B7TV1B FWF05B7TV1B FWF02B7FV1B FWF03B7FV1B FWF04B7FV1B FWF05B7FV1B





CE - DECLARATION-OF-CONFORMITY
CE - KONFORMITÄTSERKLÄRUNG
CE - DECLARATION-DE-CONFORMITE
CE - CONFORMITEITSVERKLARING

CE - DECLARACION-DE-CONFORMIDAD CE - DICHIARAZIONE-DI-CONFORMITA CE - ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ

CE - DECLARAÇÃO-DE-CONFORMIDADE CE - 3A 9B DEH VIE-O-COOTBETCTBUN CE - OVERENSSTEMMELSESER KLÆRING CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE

CE - ERKLÆRING OM-SAMSVAR CE - ILMOITUS-YHDENMUKAISUUDESTA CE - PROHLÁŠENÍ-O-SHODĚ

CE - IZJAVA-O-USKLAĐENOSTI CE - MEGFELELŐSÉGI-NYILATKOZAT CE - DEKLARACJA-ZGODNOŠCI CE - DECLARAŢIE-DE-CONFORMITATE

CE - IZJAVA O SKLADNOSTI CE - VASTAVUSDEKLARATSIOON CE - ДЕКЛАРАЦИЯ-ЗА-СЪОТВЕТСТВИЕ

CE - ATITIKTIES-DEKLARACIJA CE - ATBILSTĪBAS-DEKLARĀCIJA CE - VYHLÁSENIE-ZHODY CE - UYUMLULUK-BEYANI

Daikin Europe N.V.

01 (GB) declares under its sole responsibility that the air conditioning models to which this declaration relates:

02 (D) erklärt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist:

03 (F) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration.

04 (NL) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft 05 (E) declara baja su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:

06 (☐) dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:

07 🕞 δηλώνει με αποκλειστική της ευθύνη ότι τα μοντέλα των κλιματιστικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση:

08 (P) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere.

39 (выз заявляет, исилочительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление: 10 (DK) erklærer under eneansvar, at klimaanlægmodellerne, som denne deklaration vedrører:

11 (S) deklarerar i egenskap av huvudansvarig, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att: 12 (N) erkiærer et fullstendig ansvar for at de luftkondisjoneringsmodeller som berøres av denne deklarasjon, innebærer at:

14 (CZ) prohlašuje ve své plné odpovědnosti, že modely klimatizace, k nimž se toto prohlášení vztahuje:

13 (Fin) ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoittamat ilmastointilaitteiden mallit:

15 (nii) izjarijuje pod iskijučivo vlastitom odgovomošću da su modeli klima urečaja na koje se ova izjava odnosi: 16 (n) teljes feletissešge tudadatvan kijelenti, hogy a klimaberendezes modellek, melyekre e nylatkozat vonatkozik

17 🖭 deklaruje na własną i wylączną odpowiedzialność, że modele klimatyzatorów, których dotyczy niniejsza deklaracja: 18 (RO) declară pe proprie răspundere că aparatele de aer condiționat la care se referă această declarație: 19 (sc) z vso odgovomostjo izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša:

20 (EST) kinnitab oma täielikul vastutusel, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid:

21 (®) двигарира на своя отоворност, че моделите климатична инсталация, за които се отнася тази двигарация: 22 (Ш) visiška savo atsakomybe skebia, kad oro kondidoravimo prietaisų modeliai, kuriems yra taikoma ši dekkaracija.

23 (LV) ar pilnu atbildību apliecina, ka tālāk uzskaitīto modeļu gaisa kondicionētāji, uz kuriem attiecas šī deklarācija:

24.68> vyhlasuje na vlastnú zodpovednost; že tielo klimatizačné modely, na ktoré sa vzfahuje tuto vyhlásenie: 28.69> tamamen kendi socumlubýunda olmak úzere bu blidírním igali obtogu klima modellerími asagídakí gpi obtoguru beyan eder.

FWF02B7FV1B*, FWF03B7FV1B*, FWF04B7FV1B*, FWF05B7FV1B* FWF02B7TV1B*, FWF03B7TV1B*, FWF04B7TV1B*, FWF05B7TV1B* *= , ,1,2,3,...,9

01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our 02 deriden folgenden Norm(en) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung, instructions:

03 sont conformes à la/aux norme(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions: daß sie gemäß unseren Anweisungen eingesetzt werden:

04 conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies: 05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normativo(s), siempre que sean utilizados de acuerdo con 06 sono conformi alíi) seguente(i) standard(s) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle

07 είναι σύμφωνα με το(α) ακόλουθο(α) πρότυπο(α) ή άλλο έγγραφο(α) κανονισμών, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα

mukaisesti: με τις οδηγίες μας:

08 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de 09 соответствуют следующим стандартам или другим нормативным документам, при условии их использования согласно нашим acordo com as nossas instruções:

10 overholder følgende standard(er) eller andet/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore инструкция м: instrukser: 11 respektive utrustning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under förutsättning att användning sker i överensstämmelse med våra instruktioner:

12 respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutssetning av at 13 vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimuksia edellytäen, että niitä käytetään ohjeidemme disse brukes i henhold til våre instrukser:

15 u skladu sa slijedećim standardom(ima) ili drugim normativnim dokumentom(ima), uz uvjet da se oni koriste u skladu s našim uputama: 14 za předpokladu, že jsou využívány v souladu s našími pokyny, odpovídají následujícím normám nebo normatívním dokumentům:

17 spełniają wymogi następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi 16 megfelelnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják:

18 sunt în conformitate cu următorul (următoarele) standard(e) sau att(e) document(e) normativ(e), cu condiția ca acestea să fie utilizate îr

conformitate cu instrucțiunile noastre:

21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите 20 on vastavuses järgmis(1)e standardi (te)ga või teiste normatiivsete dokumentidega, kui neid kasutatakse vastavalt meie juhenditele: 19skladni z naslednjimi standardi in drugimi normativi, pod pogojem, da se uporabljajo v skladu z našimi navodili:

22 atitinka žemiau nurodytus standartus ir (arba) kitus norminius dokumentus su salyga, kad yra naudojami pagal mūsų nurodymus: инструкции

24 sú v zhode s nasledovnou(ými) normou(ami) alebo iným(i) normatívnym(i) dokumentom(ami), za predpokladu, že sa používajú v súlade 23 tad, ja lietoti atbilstoši ražotāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem: s našim návodom:

25 ürünün, talimatlarımıza göre kullanılması koşuluyla aşağıdaki standartlar ve norm belirten belgelerle uyumludur

19 Direktive z vsemi spremembami.

20 Direktiivid koos muudatustega.

Electromagnetic Compatibility 2004/108/EC * * Machinery 2006/42/EC Low Voltage 2006/95/EC

> 23 ievērojot prasības, kas noteiktas: 25 bunun koşullarına uygun olarak:

24 održiavajúc ustanovenia:

17 zgodnie z postanowieniami Dyrektyw:

18 în urma prevederilor:

09 в соответствии с положениями:

22 laikantis nuostatų, pateikiamų:

21 следвайки клаузите на:

12 gitt i henhold til bestemmelsene i: 14 za dodržení ustanovení předpisu:

03 conformément aux stipulations des: 04 overeenkomstig de bepalingen van:

02 gemäß den Vorschriften der:

01 following the provisions of:

05 siguiendo las disposiciones de: 07 με τήρηση των διατάξεων των: 08 de acordo com o previsto em:

06 secondo le prescrizioni per:

11 enligt villkoren i:

13 noudattaen määräyksiä:

15 prema odredbama:

16 követi a(z):

19 ob upoštevanju določb:

10 under iagttagelse af bestemmelserne i:

20 vastavalt nõuetele:

10 Direktiver, med senere ændringer. както е изложено в <А> и оценено положително 07 Οδηγιών, όπως έχουν τροποποιηθεί. 08 Directivas, conforme alteração em. 09 Директив со всеми поправками. 05 Directivas, según lo enmendado. 04 Richtlijnen, zoals geamendeerd 03 Directives, telles que modifiées 21 Забележка * 02 Direktiven, gemäß Änderung. 06 Direttive, come da modifica. 01 Directives, as amended. 16 Negjegyzés * a(z) <A> alapján, a(z) igazotta a megfelelést, a(z) <C> tanúsítvány szerint.

25 Değiştirilmiş halleriyle Yönetmelikler. 21 Директиви, с техните изменения. 23 Direktīvās un to papildinājumos. 22 Direktyvose su papildymais. DAIKIN.TCF.028/10-2010 24 Smernice, v platnom znení. 13 Direktiivejä, sellaisina kuin ne ovat muutettuina. 16 irányelv(ek) és módosításaik rendelkezéseit. 18 Directivelor, cu amendamente le respective ş 12 Direktiver, med foretatte endringer. 15 Smiernice, kako ie izmijenieno. 17 z późniejszymi poprawkami. kaip nustatyta <A> ir kaip teigiamai nuspręsta ako bolo uvedené v <A> a pozitívne zistené v súlade s osvedčením <C>. kā norādīts <A> un atbilstoši pozitīvajam 14 v platném znění. vērtējumam saskaņā ar sertifikātu < от <В> съгласно Сертификата <С>

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KEMA (NB0344)

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 Вайкіп Europe N.V. е оторизирана да състави Акта за теким-еска конструкция.

19 ** Daikin Europe N.V. je pooblaščen za sestavo datoteke s tehnično mapo.

 tarafından olumlu olarak değerlendirildiği gibi.

<a>>'da belirfildiği gibi ve <C> Sertifikasına göre

* Vo

Poznámka*

24 22

kot je določeno v <A> in odobreno s strani v skladu s certifikatom <C>. aşa cum este stabilit în <A> şi apreciat pozitiv

de în conformitate cu Certificatul <C>

kiidetud järgi vastavalt sertifikaadile <C> nagu on näidatud dokumendis <A> ja heaks

23 Piezīmes* 22 Pastaba*

zgodnie z dokumentacją <A>, pozytywną opinią

 Swiadectwem <C>

pagal Sertifikata <C>

delineato nel <a>A> e giudicato positivamente da <a>A> secondo il Certificato <a>C> <a>.	£	Information *	11 Information * enligt <a> och godkänts av enligt Certifikatet <c>.</c>	16	16 Megjegyzés
όπως καθορίζεται στο < Α> και κρίνεται θετικά από το <Β> σύμφωνα με το Πιστοποιητικό < C> .	12	12 Merk *	som det fremkommer i <a> og gjennom positiv bedømmelse av ifølge Sertifikat <c>.</c>	4	17 Uwaga*
tal como estabelecido em <a> e com o parecer positivo de de acordo com o Certificado <c>.</c>	5	13 Huom *	jotka on esitetty asiakirjassa <a> ja jotka on hyväksynyt Sertifitkaatin <c> mukaisesti.</c>	8	18 Notă *
* как указано в <a> и в соответствии с положительным решением согласно	4	14 Poznámka *	jak bylo uvedeno v <a> a pozitivně zjištěno v souladu s osvědčením <c>.</c>	9	19 Opomba*
CBWqerenьcray <c>. som anfart i <a> og positivt vurderet af </c>	5	Napomena *	15 Napomena * kako je izloženo u <a> i pozitvno ocijenjeno od strane prema Certifikatu <c>.</c>	20	20 Märkus *

ν Σημείωση*

wie in <A> aufgeführt und von positiv beurteilt tel que défini dans <A> et évalué positivement par

02 Hinweis*

gemäß Zertifikat <C>

03 Remarque *

Nota*

Nota*

8

as set out in <A> and judged positively by

Note*

2

according to the Certificate <C>.

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Тримечание *

8

zoals vermeld in <A> en positief beoordeeld door

Bemerk *

8 8

 conformément au Certificat <C> overeenkomstig Certificaat <C>. como se establece en <A> y es valorado positivamente por de acuerdo con el

Nota *

henhold til Certifikat <C>

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Zandvoordestraat 300, B-8400 Oostende, Belgium Ostend, 2nd of November 2010

Jean-Pierre Beuselinck

General Manager

3PW66183-1

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1 Introduction

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

1

2

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 DAIKIN dealer for a list of related

1.2. About this fan coil unit

The model identification code means:

FW	F	02	В	7	Т	V1	В
FW	Wate	er fan coil	unit				
F	Subo Cass F: 2x						
02	Tota	l cooling	capacity	(kW)			
В	Majo	r model o	change				
7	Mino	r model o	change				
Т	Coil 1 T: 2- F: 4-	pipe					
V1	1 ph	ase / 50 H	Hz / 220-	240 V			
В	Prod	uced in E	Europe				
	·	models a 3-04-05B		ble:			
2-	pipe far	oil unit	s have a	single-c	ircuit he	at exchan	ger. The

- device can be used for either cooling or heating.
- FWF02-03-04-05B7**F**V1B

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

1.3. About this document

This document is an installation manual. It is intended for the installer of this product. It describes the procedures for installing, commissioning and maintaining the unit, and it will provide help if problems occur. Carefully read the relevant parts of the manual.

How to get the manual?

- A printed version of the manual is delivered with the unit.
- Contact your local DAIKIN dealer for an electronic version of the manual.

For detailed instructions about how to install and operate the associated products and/or optional equipment, refer to the relevant catalogues, technical literature or product manuals for those products. 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

2 Precautions for installation

All instructions described in this manual shall be carried out by a licensed installer.

Install the unit according to the instructions in the included documentation and the manuals of the additional equipment (e.g. controller). Improper installation could result in electric shock, short-circuit, leaks, fire or other damage to the equipment.

Be sure to wear adequate personal protection equipment (protection gloves, safety glasses) when performing installation, maintenance or service to the unit.

If not sure of installation procedures or operation of the unit, always contact your local DAIKIN dealer for advice and information.



Danger: electric shock

Switch off all power supply before removing the control box cover or before making any connections or touching electrical parts.

To avoid electric shock, be sure to disconnect the power supply 1 minute or more before servicing the electrical parts. Even after 1 minute, always measure the voltage at the terminals of main circuit capacitors or electrical parts and, before touching, be sure that those voltages are 50 V DC or less.



Danger: high temperature

Do not touch the water piping or internal parts during and immediately after operation. The piping and internal parts may be hot or cold depending on the working condition of the unit.

Your hand may get burned or frostbitten if you touch the piping or internal parts. To avoid injury, give the piping and internal parts time to return to normal temperature or, if you must touch them, be sure to wear adequate protective gloves.

3 Prepare the installation of the fan coil unit

3.1. Check that you have all optional equipment

Mandatory equipment per fan coil unit: Each fan coil unit must be equipped with one of these decoration panels.

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.
Electronic remote controller - wireless (cooling only)	BRC7E531	Wireless remote controller to control each fan coil unit independently with cooling functionality only.
Electronic remote controller - wired	BRC315D7 ^(a)	Wired remote controller to control each fan coil unit with cooling and heating functionality.
Central remote controller	DCS302CA51 ^(a)	Remote controller for centralized control of all connected units.
Intelligent touch controller	DCS601C51C ^(a)	Advanced remote controller for centralized control of all connected units.
Unified ON/OFF controller	DCS301BA51 ^(a)	Remote controller to switch all connected units ON or OFF.

⁽a) For installation of these options, an installation box option kit may be required. See option list in the data book for more information.

Optional Equipment to extend the life of your product

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		Controller with schedule timing functionality.

⁽a) For installation of these options, an installation box option kit may be required. See option list in the data book for more information.

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 ^(a)	Mandatory electronic circuit when 2-way or 3-way valve is used.
Optional PCB for Modbus connection	EKFCMBCB7 ^(a)	Electronic circuit with Modbus interface connections.
Wiring adaptor for electrical appendices	KRP4A(A)53 KRP2A52 ^(a)	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.

⁽a) For installation of these options, an installation box option kit may be required. See option list in the data book for more information.

3.2. Verify the appropriate installation location

When selecting the installation location, take into account the instructions as mentioned in the following paragraphs of this chapter. Select an installation location where the following conditions are fulfilled:

- the space around the unit is adequate for maintenance and servicing. See figure 2: "Space required for installation".
- the space around the unit allows sufficient air circulation and air distribution. See figure 2: "Space required for installation".
- the unit may be installed on ceilings up to 3.5 m. However, it becomes necessary to make field settings using the remote controller when installing the unit at a height over 2.7 m. Install the unit where the height of the decoration panel is more than 2.5 m to avoid accidental touching.
- the air passage is not blocked.
- the condensate water can be properly drained.
- the installation location is frost-free.
- the unit can be installed horizontally.

the unit must be installed as far away as possible from fluorescent lights or other sources that possibly interfere with the signal of wireless remote controllers.

See figure 2: "Space required for installation"

- a Air outlet
- **b** Air inlet



Information

Leave 200 mm or more space where marked with $^{\star},$ on sides where the air outlet is closed.

Refer to figure 2: "Space required for installation".



Information

The equipment is not intended for use in a potentially explosive atmosphere.

3.3. Prepare the installation space

- When preparing the installation space, use the paper pattern for installation which is delivered with the unit. More information on how to prepare the ceiling opening can be found in chapter "Prepare the ceiling opening" on page 5.
- When the conditions in the built-in space are exceeding 30°C and exceeding a relative humidity of 80%, or when fresh air is inducted into the ceiling, an additional insulation is required on the outside of the unit (minimum 10 mm thickness polyethylene foam).

3.4. Prepare the water piping work

The unit is equipped with a water inlet and water outlet for connection to a water circuit. The water circuit must be provided by an installer and must comply with the applicable legislation.



Notice

The unit is only to be used in a closed water system. Application in an open water circuit can lead to excessive corrosion of the water piping.

Before performing the water piping work, check the following points:

- the maximum water pressure is 10 bar,
- the minimum water temperature is 5°C,
- the maximum water temperature is 50°C (2-pipe fan coil units) and 70°C (4-pipe fan coil units),
- be sure to install components in the field piping that can withstand the water pressure and temperature,
- provide adequate safeguards in the water circuit to be sure that the water pressure will never exceed the maximum allowable working pressure,
- provide a proper drain for the pressure relief valve (if installed) to avoid any water coming into contact with electrical parts,
- be sure that the water flow rates are according to the table below,

	Minimum water speed (I/min.)	Maximum water speed (I/min.)
FWF02-05B7TV1B	2.7	18
FWF02B7FV1B	2.7	10.8
FWF03-05B7FV1B	2.7	14.4

Table 3.1: Maximum and minimum water flow

 provide shut-off valves at the unit so that normal servicing can be accomplished without draining the system,

- provide drain taps at all low points of the system to permit complete drainage of the circuit during maintenance or service to the unit.
- provide air purge valves at all high points of the system. The valves shall be located at points which are easily accessible for servicing. A manual air purge valve is mounted onto the unit,
- always use materials which are compatible with the water and a maximum of 40% volume glycol,
- select piping diameter in relation to required water flow and available ESP (External Static Pressure) of the system pump.

3.5. Prepare the electrical wiring work

The unit must be connected to the power supply. All field wiring and components must be installed by an installer and must comply with the applicable legislation.



Warning

A main switch or other means for disconnection, having a contact separation in all poles, must be incorporated in the fixed wiring in accordance with the applicable legislation.

Before connecting the electrical wiring, check the following points:

- use copper wires only,
- all field wiring must be carried out in accordance with the wiring diagram delivered with the unit,
- never squeeze bundled cables and be sure that cables do not come in contact with the piping and sharp edges. Be sure no external pressure is applied to the terminal connections,
- be sure to establish an earth. Do not earth the unit to a utility pipe, surge absorber, or telephone earth. Incomplete earth may cause electrical shock,
- be sure to install an earth leakage detector in accordance with the applicable legislation. Failure to do so may cause electric shock or fire. The earth leakage detector is a field supplied part,
- be sure to install the required fuses or circuit breakers. The fuse or circuit breakers are field supplied parts.



Information

The equipment described in this manual may cause electronic noise generated from radio-frequency energy. The equipment complies to specifications that are designed to provide reasonable protection against such interference. However, there is no guarantee that interference will not occur in a particular installation.

It is therefore recommended to install the equipment and electric wires keeping proper distances away from stereo equipment, personal computers, etc.

In extreme circumstances a distance of 3 m or more is required.

Electrical characteristics

Model	FWF
Phase	1N~
Frequency (Hz)	50
Voltage range (V)	220-240
Voltage tolerance (V)	±10%
Maximum running current (A)	0.8
Overcurrent fuse (A) (field supply)	16 ^(a)

Table 3.2: Electrical characteristics

Specifications for field wiring

	Wire	Size (mm²)	Length
Power supply wiring	H05VV-U3G ^{(a),(b)}	According to the applicable legislation. Max. 4.0	
Remote controller and unit transmission wiring	Sheathed wire 2 conductors ^(c)	0.75-1.25	Max. 500 m ^(d)

Table 3.3: Field wiring specifications

3.6. Prepare the installation of optional equipment

Air flow directions

For this unit you can select different air flow directions. It is necessary to purchase an optional blocking pad kit to limit the air discharge to 2, 3 or 4 (closed corners) directions.

Select the air flow directions best suited for the room and point of installation. For air discharge in 2 or 3 directions, it is necessary to make field settings by means of the remote controller and to close the air outlet(s) as illustrated in figure 1: "Airflow directions". (air flow

- a Air discharge in 4 directions
- **b** Air discharge in 3 directions
- c Air discharge in 2 directions



direction)

Information

Air flow directions as shown merely serve as examples of possible air flow directions.

For other preparations related to the installation of optional equipment refer to "Install optional equipment" on page 9.

4 Install the fan coil unit

4.1. Unpack the unit

When receiving the unit, please check its state. Verify if any damage occurred during transport. If the unit and/or packing are damaged at delivery, report this immediately to the carrier's claims agent. Identify model and version of the unit from the indications stated on the carton packing.

Leave the unit inside its packing until you reach the installation site. Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, this to avoid damage or scratches to the unit.



Warning

Tear apart and throw away plastic packaging bags so that children will not play with them. Children playing with plastic bags face danger of death by suffocation.

When unpacking the unit or when moving the unit after unpacking, be sure to lift the unit by holding on to the hanger bracket without exerting any pressure on other parts.

⁽a) In case of common power supply to more than one unit (as illustrated in figure 13: "Group control or use with 2 remote controllers"), keep total current of interconnection wiring between units less than 12 A. Branch the line outside the terminal block of the unit in accordance with electrical equipment standards, when using two power wires of a gauge greater than 2 mm². The branch must be sheathed in order to provide an equal or greater degree of insulation as power supply wiring itself.

⁽a) Only in case of protected pipes. Use H07RN-F in case of no protection.

⁽b) Run electrical wiring through a conduit to protect against external forces

O'Use double insulation wire for remote controller (sheath thickness: 21 mm) or run wires through a wall or conduit so that the user cannot come in contact with them.

⁽d) This length is the total extended length in the system in case of group control. See figure 13: "Group control or use with 2 remote controllers".

4.2. Check if all accessories are included

An overview of the accessories included in the box (see figure 4: "Accessories"):

- a Metal clamp
- **b** Drain hose
- c Washer for hanger bracket
- d Screw
- Paper pattern for installation
- f Insulation tube
- **q** O-ring
- h Large sealing pad
- i Small sealing pad
- j Sealing pad
- k Installation manual
- I User manual
- Sealing pad for piping connections

4.3. Prepare the ceiling opening

See figure 11: "Opening in ceiling"

- a Water inlet/outlet
- **b** Suspension bolt (x4) (field supply)
- c Hanger bracket
- d Suspended ceiling
- e Distance between suspension bolts
- f Unit dimensions
- g Ceiling opening dimensions
- h Decoration panel dimensions
- i Suspended ceiling frame



Information

Installation is possible with a ceiling dimension of 660 mm (marked with * in figure 11: "Opening in ceiling"). However, to achieve a ceiling-panel overlapping dimension of 20 mm, the spacing between the ceiling and the unit should be 45 mm or less. If the spacing between ceiling and the unit is over 45 mm, attach sealing material or recovered ceiling in the area marked below.

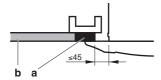


Fig. 4.1: Ceiling spacing too large

- a Area to fit sealing material or recovered ceiling into
- b Suspended ceiling
- Make the ceiling opening needed for installation where applicable. (For existing ceilings.)
 - Refer to the paper pattern for installation (delivered with the unit) for the ceiling opening dimensions.
 - Create the ceiling opening required for installation.

- After making an opening in the ceiling, it may be necessary to reinforce the suspended ceiling frame to keep the ceiling level and to prevent it from vibrating. Consult the builder for details.
- 2 Install the suspension bolts. (Use either a M8~M10 size bolt.)

Use anchors for existing ceilings, and a sunken insert, sunken anchors or other field supplied parts for new ceilings to reinforce the ceiling in order to bear the weight of the unit. The distance between the suspension bolts is marked on the paper pattern for installation (delivered with the unit). Refer to it to check for points requiring reinforcing. Adjust clearance from the ceiling before proceeding further. See installation example in figure 14: "Installing the suspension bolts":

- a Ceiling slab
- **b** Anchor
- c Long nut or turn-buckle
- d Suspension bolt
- e Suspended ceiling



Information

- All the above parts are field supplied.
- For installation other than standard installation, contact your local DAIKIN dealer for advice.

4.4. Fix the unit



Caution

To avoid injury, do not touch the air inlet or aluminium fins of the unit.

When installing optional equipment, also read the installation manual of the optional equipment. Depending on the field conditions, it may be easier to install optional equipment before the unit is installed. However, for existing ceilings, always install fresh air intake kit before installing the unit. For more information, refer to "Install optional equipment" on page 9.

Install the unit temporarily.

Attach the hanger bracket to the suspension bolt. Be sure to fix it securely by using a nut and washer from the upper and lower sides of the hanger bracket as illustrated in figure 15: "Securing the hanger bracket".

- a Nut (field supply)
- **b** Washer (delivered with the unit)
- c Hanger bracket
- d Double nut (field supply)
- 2 Fix the paper pattern for installation (delivered with the unit). (For new ceilings only.)
 - The paper pattern for installation corresponds with the measurements of the ceiling opening. Consult the builder for details.
 - The centre of the ceiling opening is indicated on the paper pattern for installation. The centre of the unit is indicated on the unit casing.
 - Attach the paper pattern for installation to the unit with the screws as illustrated in figure 16: "Paper pattern for installation".
 - Paper pattern for installation (delivered with the unit)
 - **b** Screws (delivered with the unit)

- 3 Adjust the unit to the right position for installation.
- 4 Check if the unit is horizontally levelled.
 - Do not install the unit tilted. The unit is equipped with a builtin drain pump and float switch. If the unit is tilted against the direction of the condensate flow (the drain piping side is raised), the float switch may malfunction and cause water to drip.
 - Check if the unit is levelled at all four corners with a water level or a water-filled vinyl tube as illustrated in the figure below.

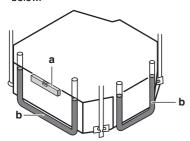


Fig. 4.2: Check if unit is levelled

- a Water level
- **b** Vinyl tube
- 5 Remove the paper pattern for installation. (For new ceilings only.)

4.5. Perform the water piping work

4.5.1. Connect the water pipes

The unit is equipped with water outlet and inlet connections. There is an air purge valve that is fitted along with the water inlets and outlets for air purging as illustrated in figure 6: "Water piping connection".

- a Drain pipe connection
- **b** Power supply entry hole
- c Water inlet (3/4" female BSP)
- d Water outlet (3/4" female BSP)
- e Cold water inlet (3/4" female BSP)
- f Cold water outlet (3/4" female BSP)
- g Hot water inlet (3/4" female BSP)
- h Hot water outlet (3/4" female BSP)
- i Transmission wiring entry
- j Air purge valve

Connect the water inlet and outlet connections of the fan coil unit to the water piping as illustrated in figure 5: "Connecting the water piping".

- a Water piping:
 - 3/4" male BSP in case of direct connection to the unit
 - 3/4" female BSP in case of connection to an optional valve.
- **b** O-ring (delivered with the unit)



Notice

Do not use excessive force when connecting the piping. This could deform the unit piping.

Deformation of the piping can cause the unit to malfunction.

In case the optional valve is used, refer to the installation manual of the valve kit to install the field piping.

4.5.2. Insulate the water pipes

The complete water circuit, inclusive all piping, must be insulated to prevent condensation and reduction of the capacity.

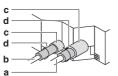


Fig. 4.3: Water piping insulation

- a Water inlet
- b Water outlet
- Sealing pad for piping connections (delivered with the unit)
- d Insulation tube (delivered with the unit)

If the temperature is higher than 30°C and the relative humidity is higher than 80%, then the thickness of the sealing materials shall be at least 20 mm in order to avoid condensation on the surface of the sealing.

4.5.3. Fill the water circuit



Notice

Water quality must be according to EU directive 98/83 EC.



Notice

Use of glycol is allowed, but the amount shall not exceed 40% of the volume. A higher amount of glycol may cause damage to the hydraulic components.

During filling, it might not be possible to remove all air in the system. Remaining air can be removed during the first operating hours of the unit. The air can be removed from the unit through the manual air purge valve. For the location of the air purge valve on the unit, refer to figure 6: "Water piping connection".

- Open the air purge valve (refer to figure "Air purge valve") by turning the nut 2 times.
- 2 Push the springy core (refer to figure "Air purge valve") to let off superfluous air from the unit water circuit(s).
- 3 Close the nut
- 4 Additional filling with water afterwards might be required (but never through the air purge valve).



Fig. 4.4: Air purge valve

- a Air purge
- **b** Nut
- c Springy core

4.6. Connect the electrical wiring

Precautions

Observe the notes mentioned below when connecting the electrical wiring.

- Do not connect wires of different gauge to the same power supply terminal. Looseness in the connection may cause overheating.
- Do not connect wires of different gauge to the same grounding terminal. Looseness in the connection may deteriorate the protection.
- When connecting wires of the same gauge, connect them according to the figure "Terminal Wiring".







Fig. 4.5: Terminal wiring

■ Use the specified electric wire (refer to "Field wiring specifications" on page 4). Connect the wire securely to the terminal. Lock the wire down without applying excessive force to the terminal. Use the appropriate tightening torque:

Tightening torque (N⋅m)	
Terminal block for remote controller	0.79~0.97
Terminal block for power supply	1.18~1.44

Table 4.1: Tightening torque

- Remote controller wiring should be located at least 50 mm away from the unit transmission wiring and other wiring. Failure to observe this guideline may result in malfunction due to electrical noise
- For the remote controller wiring, refer to the installation manual of the remote controller delivered with the remote controller.
- Keep wiring in neat order so that wires do not obstruct other equipment or force the control box cover to pop open. Make sure the cover closes tight. Incomplete connections could result in overheating, and in the worst case, electric shock or fire.



Notice

Never connect the unit transmission wiring to the remote controller wiring. This connection could cause irreparable damage to the entire system.

Wiring diagram

Refer to the wiring diagram sticker on the unit (on the inside of the control box cover).

	: Terminal	RED	: Red	YLW	: Yellow
00	: Connector	BLK	: Black	GRN	: Green
-(: Wire connector	WHT	: White	BLU	: Blue

:: : Field wiring ORG : Orange

A1P, A2P	Printed circuit board
C1	Capacitor (M1F)

F1U Fuse (F5A, 250 V)

HAP Light emitting diode (service monitor green)

KPR Magnetic relay (M1P)
M1F Motor (indoor fan)
M1P Motor (drain pump)
M1S Motor (swing flap)

	,
Q1D1	Field earth leak detector (Max. 300 mA)
R1T	Thermistor (air)
R2T, R3T	Thermistor
S1L	Float switch

Thermo switch (M1F embedded)

T1R Transformer (220-240 V/22 V)
V1TR Phase control circuit

X1M, Terminal strip

X2M

Q1M

Z1F Ferrite core

TC Signal transmission circuit

Wired remote controller

R1T	Thermistor (air)

SS1 Selector switch (main/sub)

Wireless remote controller (Receiver/display unit)

A3P, A4P	Printed circuit board
BS1	Push button (ON/OFF)
H1P	Light emitting diode (ON - red)
H2P	Light emitting diode (timer - green)
H3P	Light emitting diode (filter sign - red)
H4P	Light emitting diode (defrost - orange)
SS1	Selector switch (main/sub)
SS2	Selector switch (wireless address set)

Connector for optional parts

X24A	Connector (wireless remote controller))
X33A	Connector (valve control adaptor)
X35A	Connector (external adaptor)
X40A	Connector (ON/OFF input from outside)

Notes

- If a remote controller is used, connect it to the unit in accordance with the controller installation manual.
- 2 The remote controller model varies according to the combination with the system.

See technical data, catalogues, etc. before connecting.

- 3 Ground the shield of the remote controller wire to the indoor unit. (in case of using shield wire)
- 4 When using the central remote controller, see manual for connection to the unit.
- 5 X24A,X33A,X35A and X40A are connected when optional accessories are being used.
- 6 X24A is connected when the wireless remote controller is being used.
- 7 Availability of R2T and/or R3T is depending on model type.

System examples

- When using 1 remote controller for 1 indoor unit (normal operation) (See figure 12: "1 remote controller for 1 indoor unit")
 - a Fan coil unit
 - **b** Remote controller (optional equipment)
 - c Overcurrent fuse
- For group control or use with 2 remote controllers (See figure 13: "Group control or use with 2 remote controllers")
 - a Fan coil unit
 - **b** Remote controller (optional equipment)
 - c Overcurrent fuse
 - d Interconnection wiring: total current should not exceed 12 A.



Information

It is not necessary to designate indoor unit address when using group control. The address is automatically set when the power is activated.

For forced OFF and ON/OFF operation, connect input wires from the outside on the EKROROA option kit. For more information refer to "Install optional equipment" on page 9.

Wire specification	Sheathed vinyl cord or cable (2 wire)
Gauge	0.75-1.25 mm ²
Length	≤100 m
External terminal	Contact that can ensure the minimum applicable load of 15 V DC, 10 mA

Table 4.2: Forced OFF and ON/OFF wiring specifications

4.6.1. Connect the power supply

See figure 9: "How to connect electrical wiring".

- A Detail: connect the remote controller and unit transmission cables
- B Detail: connect the power supply cable
 Do NOT connect wires to the terminal numbered
- C Detail: close the cable intake holes Stick the adhesive sealing pads onto the casing outside to close the wiring intake holes.
- a Control box cover
- b Wiring diagram sticker
- c Remote controller cable
- d Remote controller and unit transmission terminal block – X1M
- e Power supply cable
- f Power supply terminal block X2M
- g Large clamp (field supply)
- h Small clamp (field supply)
- i Clamp holder
- j Sealing pad (delivered with the unit)
- k Ground wire
- I Power supply cable intake
- m Unit transmission cable
- n Remote controller and unit transmission cables intake

- 1 Remove the control box cover (a) as illustrated in figure 9: "How to connect electrical wiring".
- 2 Pull the power supply cable (e) (or interconnection wiring in case of common power supply) inside through the power supply cable intake (l).
- 3 Connect the power supply wires to the power supply terminal block (f).
 - Connect L to terminal 1 and connect N to terminal 2.
- 4 Connect the ground wire (k) to the grounding terminal.
- 5 Securely fix the wiring using a clamp (g).
- Install an earth leakage detector and fuse in the power supply line (field supply). Select the earth leakage detector in accordance with the applicable legislation. To select the fuse, refer to "Electrical characteristics" on page 4.

4.6.2. Connect the remote controller and unit transmission wiring

- 1 Remove the control box cover (a) as illustrated in figure 9: "How to connect electrical wiring".
- 2 Pull the cables (c, m) inside through the remote controller and unit transmission cables intake (n).
- 3 Connect the remote controller wires to (P1, P2) terminals of the terminal block (d).
- 4 Connect the unit transmission wires to (F1, F2) terminals.
- 5 Securely fix the wiring using a clamp (g).

4.6.3. Close the control box

- After all wiring connections are executed, fill gaps in the casing cable intakes with the small sealing pad (delivered with the unit) to prevent small animals, water or dirt from entering the unit causing short circuits in the control box.
- 2 Fit the control box cover (a) back in place like illustrated in figure 9: "How to connect electrical wiring". When attaching the control box cover, make sure not to pinch any wires.

4.7. Perform the drain piping work

4.7.1. Install the drain piping in the building

See figure 3: "Drain pipe installation".

- a Hanging bar
- b ≥1/100 gradient
- Keep piping as short as possible and slope it downwards at a gradient of at least 1/100 so that air does not remain trapped inside the pipe. Refer to "Drain pipe installation" on page 8. If the drain hose cannot be sufficiently set on a slope, fit the drain hose with a drain raising piping (field supply) as illustrated in figure 7: "How to perform drain piping".
 - a Ceiling slab
 - **b** Hanger bracket
 - **c** Drain raising pipe (nominal diameter = 20 mm)
 - d Drain hose (delivered with the unit)
 - e Metal clamp (delivered with the unit)
- Keep pipe size equal to or greater than that of the connecting pipe (20 mm inner diameter).
- Install the drain raising pipes at a height of less than 545 mm.
- Install the drain raising pipes at a right angle to unit and no more than 300 mm from the unit.
- To prevent air bubbles, install the drain hose level or slightly tilted up (≤75 mm).
- Insulate the complete drain piping inside the building.



Information

When unifying multiple drain pipes, install the pipes as illustrated in figure 17: "Unifying multiple drain pipes". Select converging drain pipes whose size is suitable for the operating capacity of the unit.

T-joint converging drain pipes

4.7.2. Connect the drain piping to the unit

1 Push the drain hose (delivered with the unit) as far as possible over the drain socket as illustrated in the figure below.

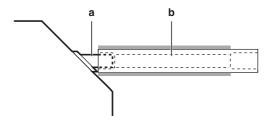


Fig. 4.6: Connecting the drain hose

- a Drain socket (fixed to the unit)
- b Drain hose (delivered with the unit)
- 2 Tighten the metal clamp until the screw head is less than 4 mm from the metal clamp part as illustrated in figure 8: "Wrap sealing pad".
 - a Drain socket (fixed to the unit)
 - **b** Drain hose (delivered with the unit)
 - c Metal clamp (delivered with the unit)
 - d Large sealing pad (delivered with the unit)
 - e Drain piping (field supply)

4.7.3. Test the drain piping

After the drain piping work is finished, check if drainage flows smoothly.

- 1 Add approximately 2 I of water gradually through the air outlet (See figure 10: "Method of adding water").
 - Plastic watering can (tube should be about 100 mm long)
 - Service drain outlet (with rubber plug) (Use this outlet to drain water from the drain pan)
 - c Drain pump location
 - d Drain pipe
 - Drain socket
- 2 Check the drainage flow.

In case the electric wiring work is finished

Check drainage flow during COOL running, explained in "Test the installation" on page 11.

In case electric wiring work is not finished

- 1 Remove the control box cover. Connect the power supply (50 Hz, 220-240 V) to connections 1 and 2 on the power supply terminal block and connect the ground wire firmly.
- 2 Close the control box cover and turn on the power.



Danger: electric shock

Do not touch the drain pump.

- 3 Confirm the drain operation looking at the drain socket.
- 4 After checking the drainage flow, turn off power, remove the control box cover and disconnect the power supply from the power supply terminal block again. Fit the control box cover back in place.

4.8. Install optional equipment

For the installation of optional equipment, refer to the installation manual which is delivered with the optional equipment and take into account the remarks mentioned in the table below.

Ontion	Description	Domonic
Option	Description	Remark
BYFQ60B	Decoration panel	_
KDBQ44B60	Panel spacer	_
KAFQ441BA60	Long life replacement filter	_
KDDQ44XA60	Fresh air intake kit	_
KDBH44BA60	Sealing member of air discharge outlet	_
BRC7E530	Remote controller - wireless (cooling and heating)	Not all functions are available for the FWF models.
BRC7E531	Remote controller - wireless (cooling only)	Not all functions are available for the FWF models.
KRCS01-1	Remote temperature sensor	_
DCS302CA51	Central remote controller	Installation: direct connect to indoor unit, no outdoor unit connection. Not all functions are available for the FWF models.
DCS601C51C	Intelligent touch controller	Installation: direct connect to indoor unit, no outdoor unit connection. It is not possible to use AIRNET or telephone connection. Not all functions are available for the FWF models.
DCS301BA51	Unified ON/OFF controller	Installation: direct connect to indoor unit, no outdoor unit connection+ EKROROA option kit is needed.
DST301BA51	Schedule timer	_
KRP4A(A)53	Wiring adaptor for electrical appendices	Installation: refer to FXZQ. Connection: refer to VRV system.
KRP2A52	Wiring adaptor for electrical appendices	Installation: refer to FXZQ. Connection: refer to VRV system.
KEK26-1A	Noise filter	_

Option	Description	Remark
KJB212AA	Electrical box with earth terminal (2 blocks)	_
KJB311A	Electrical box with earth terminal (3 blocks)	_
KJB411A	Electrical box	_
KRP1BA101	Installation box for adaptor PCB	Installation: refer to FFQ or FXZQ.
BRC315D7	Wired remote controller	_
EKMV2C09B7	2-way valve (ON/OFF type)	_
EKMV3C09B7	3-way valve (ON/OFF type)	_
EKRP1C11	Valve control PCB	Installation: do not use the installation manual delivered with the option EKRP1C11, but refer to the installation manual of options EKMV2 and EKMV3 instead.
EKFCMBCB7	Optional PCB for Modbus connection	_
EKROROA	Remote "ON/OFF" and "Forced OFF" kit	_

Table 4.3: Installation of optional equipment

5 Commission the fan coil unit

5.1. Verify completion of installation

A

Danger: electric shock

See "Precautions for installation" on page 2.

After the installation of the unit, first check the following items. Once all below checks are fulfilled, the unit must be closed, only then can the unit be powered up.

Tick v	Tick ✓ when checked		
	The unit is installed properly. If not installed properly, there may be abnormal noises and vibrations when starting up the unit.		
	The unit has been fully insulated. If not fully insulated, condensate water may drip.		
	The drainage flows smoothly. If drainage does not flow smoothly, condensate water may drip.		
	The power supply voltage corresponds to the voltage on the nameplate of the unit.		
	The wiring and piping connections are correct. In case of wrong connections, the unit may malfunction or components may burn out.		
	The earth wires are connected properly. The earth terminals have been tightened.		
	The wiring size is according to specifications. In case of wrong wiring size, the unit may malfunction or components may burn out.		

Tick	Tick ✓ when checked		
	The fuses, circuit breakers, or the locally installed protection devices are of the size and type specified in the chapter "Prepare the electrical wiring work" on page 4. None of the fuses or protection devices have been bypassed.		
	There are no visible loose connections or damaged electrical components in the control box or inside the unit.		
	There are no damaged components or squeezed pipes inside the unit.		
	There is no water leakage inside the unit. If there is water leakage, close the water inlet and water outlet shut-off valves and call your local DAIKIN dealer.		
	All air is removed from the circuit.		
	All options are correctly installed and connected.		
	The air inlet and outlet of the unit is not obstructed by paper sheets, cardboard, or any other material.		

Table 5.1: Installation completion checklist



Warning

Be sure to provide for adequate measures in order to prevent that the unit will be used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke or fire. Please instruct the user to keep the area around the unit clean and clear.

5.2. Configure the unit

It is important that all information in this chapter is read sequentially by the installer and that the unit is configured as applicable. Configuration of the unit is done trough the controller in accordance with the installation condition.

- Setting can be made by changing the "Mode No.", "First code No." and "Second code No.".
- For setting and operation, refer to "Field setting" in the installation manual of the controller.

Setting ceiling height

Adjust the Second code No. according to the table below so that it corresponds to the ceiling height of your installation. (Second code No. is factory set to "01")

Ceiling height (m)	Mode No.	First code No.	Second code No.
≤2.7	13(23)	0	01
>2.7 or ≤3	13(23)	0	02
>3 or ≤3.5	13(23)	0	03

Table 5.2: Ceiling height setting

Setting air discharge direction

For changing air discharge direction (2, 3 or 4 directions), refer to the option handbook of the optional blocking pad kit. (Second code No. is factory set to "01" for all-round air discharge)

Setting air filter sign

Remote controllers are equipped with liquid crystal air filter signs to display the time to clean the air filter. Change the Second code No. Depending on the amount of dirt or dust in the room. (Second code No. is factory set to "01" for air filter contamination-light)

Setting	Display interval	Mode No.	First code No.	Second code No.
Light	±2500 hrs	10(20)	0	01
Heavy	±1250 hrs	10(20)	0	02
No display	_	10(20)	3	02

Table 5.3: Air filter contamination

When using wireless remote controllers it is necessary to use address setting. Refer to the controller installation manual for the setting instructions.

Activating forced OFF and ON/OFF operation

The following table explains "forced OFF" and "ON/OFF operations" in response to the input signal.

Forced OFF	ON/OFF operations	Protective equipment input
Input "ON" stops operation	Input OFF→ON: turns on the unit (impossible by remote controllers)	Input ON: enables abnormal system stop (an error code will be displayed)
Input "OFF" enables control	Input ON→OFF: turns off the unit (by remote controller)	Input OFF: enables normal operation

Table 5.4: Forced OFF and ON/OFF operation

- 1 Turn the power on and then use the remote controller to select operation.
- 2 Set the remote controller to the field set mode.

Setting	Mode No.	First code No.	Second code No.
Forced OFF	12(22)	8	01
ON/OFF operation	12(22)	8	02
Protective equipment input	12(22)	8	03

Table 5.5: Forced OFF and ON/OFF selection



Notice

For FWF models, the "forced OFF" setting is as indicated in table "Forced OFF and ON/OFF selection" on page 11 and NOT 12(22)-1-01/02 as mentioned in some option manuals.

5.3. Test the installation

After installation, the installer is obliged to verify correct operation. In case something is wrong with the unit and it does not operate, contact your local DAIKIN dealer.



Information

When using a wireless remote controller, conduct a test operation after installing the decoration panel.

Test operation before installing decoration panel



Danger: electric shock

See "Precautions for installation" on page 2.

- 1 Open the water inlet valve(s).
- 2 Open the water outlet valve(s).
- 3 Set to cooling operation with the remote controller and start operation by pushing **ON/OFF** button.
- 5 Press Inspection/Test Operation button \(\overline{\overline
- 6 Confirm function of unit according to the operation manual.
- 7 Turn off the main power supply after operation.

Test operation after installing decoration panel

- 1 Open the water inlet valve(s).
- 2 Open the water outlet valve(s).
- 3 Set to cooling operation with the remote controller and start operation by pushing ON/OFF button.
- 4 Press Inspection/Test Operation button (逾/TEST) 4 times (2 times for wireless remote controller) and operate at Test Operation mode for 3 minutes.
- 5 Push **air flow direction adjust** button (.√=SWING) to make sure the unit is in operation.
- 6 Press Inspection/Test Operation button and operate normally
- 7 Confirm function of unit according to the operation manual.

5.4. Handover to the user

Once the test run is finished and the unit operates properly, fill in the sheet "Handover of the installation to the user" which is an annex of the user manual.

6 Service and maintenance

For safety reasons, switch off the unit before carrying out any maintenance or service activities.

The service and maintenance activities which are mentioned in this paragraph may only be carried out by the installer or service company.



Danger: electric shock

See "Precautions for installation" on page 2.



Danger: high temperature

See "Precautions for installation" on page 2.



Notice

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

6.1. Maintenance tasks

Cleaning the air filter

Clean the filter when necessary. Clean the filter at least once every 6 months. If the unit is installed in a room where the air is extremely contaminated clean more often.

If it becomes impossible to clean, replace the air filter with an original spare part.

To clean the air filter:

- 1 Switch off the power supply.
- 2 Push both knobs simultaneously and carefully lower the grill. The suction grill is now opened.
 - See figure 18: "Opening the suction grill"
- 3 Pull the hook of the air filter out diagonally downward and remove the filter.
 - See figure 20: "Detaching the air filter"
- 4 Use a vacuum cleaner or wash the air filter with water.
 - When the air filter is very dirty, use a soft brush and neutral detergent.
 - See figure 22: "Cleaning the air filter"
- 5 Fix the air filter.

Attach the air filter to the suction grill by hanging it to the projected portion above the suction grill. Press the bottom of the air filter against the projections on the bottom of the grill to snap the air filter into its place.

See figure 23: "Fixing the air filter"

6 Close the suction grill.

Cleaning the suction grill

- 1 Switch off the power supply.
- 2 Push both knobs simultaneously and carefully lower the grill. The suction grill is now opened.
 - See figure 18: "Opening the suction grill"
- 3 Open the suction grill 45 degrees and lift it upward. The suction grill is now detached.
 - See figure 19: "Detaching the suction grill"
- 4 Pull the hook of the air filter out diagonally downward and remove the filter.
 - See figure 20: "Detaching the air filter"
- 5 Wash the suction grill with a soft brush and neutral detergent and dry thoroughly.
 - See figure 21: "Cleaning the suction grill"
- Attach the air filter to the suction grill by hanging it to the projected portion above the suction grill. Press the bottom of the air filter against the projections on the bottom of the grill to snap the air filter into its place.
 - See figure 23: "Fixing the air filter"
- 7 Close the suction grill.

6.2. Service to the unit

For detailed instructions on reparations of the unit, refer to the service manual. Contact your local DAIKIN dealer to obtain the service manual.

If the cause of the problem can not be found or more information is needed, call your local DAIKIN dealer or the appointed service company.

In case some part is damaged and needs to be replaced, call your local DAIKIN dealer or the appointed service company for a list of available spare parts.



Information

Before starting the troubleshooting procedure, carry out a thorough visual inspection of the unit and look for obvious defects such as loose connections or defective wiring.

7 Glossary

Term	Meaning
Accessories	Equipment which is delivered with the unit and which needs to be installed according to the instructions in the documentation
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
Dealer:	Sales distributor for fan coil units and other DAIKIN products
Field supply:	Equipment which needs to be installed according to instructions in this manual, but which are not supplied by DAIKIN
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



