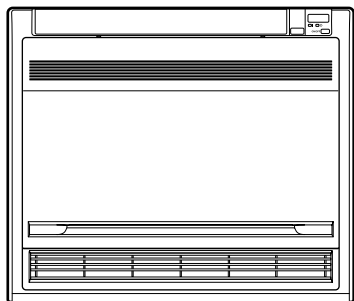




INSTALLATION MANUAL

DAIKIN HEAT PUMP CONVECTOR



Models
FWXV15AVEB
FWXV20AVEB

Installation manual	English
Installationsanleitung	Deutsch
Manuel d'installation	Français
Installatiehandleiding	Nederlands
Manual de instalación	Español
Manuale di installazione	Italiano
Εγχειρίδιο εγκατάστασης	Ελληνικά
Manual de instalação	Portugues
Installasjons håndbok	Norsk
Installationshandbok	Svenska

CE - DECLARATION-OF-COMFORMITY
CE - KONFORMITÄTSERKLÄRUNG
CE - DICHIARAZIONE-DI-CONFORMITÀ
CE - ΔΗΛΩΣΗ ΣΥΜΜΟΦΩΣΗΣ
CE - DECLARACION-DE-CONFORMIDAD
CE - DICHIAZIONE-DE-CONFORMITÀ
CE - ΔΗΛΩΣΗ ΣΥΜΜΟΦΩΣΗΣ
CE - FORSAKRAN-OM-ÖVERENSTÄMMESE

DAIKIN INDUSTRIES, LTD.

- 01 000 declares under its sole responsibility that the air conditioning models to which this declaration relates:
02 001 erklärt auf seine alleinige Verantwortung daß die Modelle der Klimaanlage für die diese Erklärung bestimmt ist:
03 002 déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:
04 003 verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
05 004 dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:
06 005 δηλώνει με αποκλειστική της ευθύνη ότι τα μοντέλα των κλιματιστικών ομοειδών στα οποία αναφέρεται η παρούσα δήλωση:
07 006 δηλώνει με αποκλειστική της ευθύνης ότι τα μοντέλα των κλιματιστικών ομοειδών στα οποία αναφέρεται η παρούσα δήλωση:
08 007 declares sole sua exclusiva responsabilidad que los modelos de air acondicionado a que esta declaración se refiere:
09 008 заявляет исключительного под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление:

FWXV15AVEB, FWXV20AVEB

CE - DECLARACÃO-DE-CONFORMIDADE
CE - ЗАРЯБЛЕННЕ-О-СОТВЕТСТВИИ
CE - ÖPÝFELSESERKLÆRING
CE - FORSAKRAN-OM-ÖVERENSTÄMMESE

CE - ERKLÆRING OM-SAMSVAR
CE - ИЛМОИТУС-ЙΗДЕНМУКАИСУДЕСТА
CE - DEKLARACJA-ZGODNOŚCI
CE - DECLARAȚIE-DE-CONFORMITATE

CE - IZJAVA-O-USKLADENOSTI
CE - MEGFELELŐSÉGI-NYILATKOZAT
CE - DEKLARACJA-ZGODNOŚCI
CE - DECLARAȚIE-DE-CONFORMITATE

CE - IZJAVA O SKLADNOSTI
CE - VASTAVUSDEKLARACIJA
CE - DEKLAACIJA-3A-COBTETCTBME
CE - UYUMLULUK-BILDIRİSİ

CE - ATTIKTIES-DEKLARACIJA
CE - ATBILSTIBAS-DEKLARACIJA
CE - VYHLÁSENIE-ZHODY
CE - UYUMLULUK-BILDIRİSİ

- 10 000 erklærer under eneansvar, at klimaatagningmodelerne, som denne deklaration vedrører:
11 001 deklarerar i egeenskap av huudutastavari, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att:
12 002 erklærer et fuldstændigt ansvar for at de luftkonditioneringsmodeller som berøres af denne deklaration indebærer at:
13 003 ilmoittaa yksinomaan arvasta vastuullaan, että laitteiden ilmoitusten tarkoituksella ilmoitettuihin malliin:
14 004 prohlásuje ve své plné odpovědnosti, že modely klimatizace, k nimž se tato prohlášení vztahuje:
15 005 izjavljuje pod isključivo vlastitom odgovornošću da su modeli klima uređaja na koje se ova izjava odnosi:
16 006 δηλώνει αποκλειστικά την ευθύνη, ότι τα μοντέλα των κλιματιστικών ομοειδών στα οποία αναφέρεται η παρούσα δήλωση:
17 007 δηλώνει με αποκλειστική της ευθύνης, ότι τα μοντέλα των κλιματιστικών ομοειδών στα οποία αναφέρεται η παρούσα δήλωση:
18 008 déclare de propre responsabilité, que les appareils de air conditionné à ceux se réfère această declarație:

- 19 009 z vse odgovornosti izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša:
20 010 kinnitab oma täieliku vastutuse, et läsõleva deklaratsioon alla kuuluvad kliimaseadmete mudelid:
21 011 deklaruje na osnov odgovornosti, da odgovarja klimatskim instalacijam, za koje se odnosi ova deklaracija:
22 012 visetka savo atsakomybe siekia, kad oro kondicionavimo prietaisų modeliai, kuriems yra taikoma ši deklaracija:
23 013 a priiliu atbildību apliecinu, ka tālāk uzskaitīto modeļu gaisa kondicionēji, uz kuriem attiecas šī deklarācija:
24 014 vyhlásuje na vlastní zodpovednosť, že tieto klimatizačné modely, na ktoré sa vzťahuje toto vyhlásenie:
25 015 izjavim kenti sorumluluğunda oınak üzere bu bildirimin ilgili oduğu klima modellerinin aşağıdaki gibi olduğunu beyan eder:

- 01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions:
02 werden folgenden Normen) oder einem anderen Normdokument oder -dokumenten entsprechend entsprechen, unter der Voraussetzung, daß sie gemäß unseren Anweisungen eingesetzt werden:
03 sont conformes à la(s) norm(e)(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions:
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 nuestras instrucciones:
06 sono conformi all(i) seguente(i) standard(i) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:
07 είναι σύμφωνα με το(ι) ακόλουθο(ι) πρότυπο(ι) ή άλλο(ι) έγγραφο(ι) κανονισμών, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας:

EN60335-2-40,

- 10 under tagtigelse af bestemmelserne i:
11 enligt vilkoren i:
12 gilt i henhold til bestemmelserne i:
13 noudatuen määräyksii:
14 za izvození ustanovení předpisu:
15 prema odredbama:
16 követi az(i):
17 zgodnie z postanowieniami Dyrektywy:
18 in uma prevedenilor:

- 19 ob upoštevanju določb:
20 vastaraliti nõuetele:
21 Craigasakni kraygarva na:
22 laikantis nustatų, patiekiamų:
23 leiverotī prasības, kas noteiktas:
24 orīzrāvājuc ustanovienā:
25 bunuri koşullarına uygun olarak:

- 01 Note * as set out in <A> and judged positively by according to the Certificate <C>:
02 Hinweis * wie in der <A> aufgeführt und von positiv beurteilt, gemäß Zertifikat <C>:
03 Remarque * tel que défini dans <A> et jugé positivement par conformément au Certificat <C>:
04 Bemerk * zoals vermeld in <A> en positief beoordeeld door overeenkomstig Certificat <C>:
05 Nota * como se establece en <A> y es valorado positivamente por de acuerdo con el Certificado <C>:
06 Nota * delimitat nei <A> e giudicato positivamente da secondo il Certificato <C>:
07 Σημείωση * όπως καθορίζεται στο <A> και κρίνεται θετικά από το σύμφωνα με το Πρωτόκολλο <C>:
08 Nota * tal como estabelecido em <A> e com o parecer positivo de de acordo com o Certificado <C>:
09 Πίμειωση * как указано в <A> и с соответствием с положительным решением согласно Сертификату <C>:
10 Bemerk * como se definiu em <A> op pozitivno ocijenjeno od strane prema Certificatu <C>:
11 Information * enligt <A> och godkännt av enligt Certifikat <C>:
12 Merk * som det framkommer i <A> og glemnom positivt bedømmelse af ifølge Serifikat <C>:
13 Huom * jotta on esittely asatijassa <A> ja jotta on mykäsytty Serifikatim <C> mukasitt.
14 Poznámka * jak bylo uvedeno v <A> a pozitivně zjišeno v souladu s ověřením <C>:
15 Napomena * kako je izloženo u <A> i pozitivno ocijenjeno od strane prema Certificatu <C>:
16 Megjegyzés * a(z) <A> alapján, a(z) igazolta a megjelölt, a(z) <C> tanúsítvány szerint.
17 Uwaga * zgodnie z dokumentacją <A>, pozytywną opinię i Świadectwem <C>:
18 Nota * apa cum este stabilit în <A> și apreciat pozitiv de în conformitate cu Certificatul <C>:
19 Opomba * kot je obdelano v <A> v odobreno s strani v skladu s ovrednotenjem <C>:
20 Märkus * nagu on näidatud dokumentis <A> ja heaks kiidetud järgi vastavalt sertifikaadile <C>:
21 Забелюка * както е изложено в <A> и оценено положително от съгласно Сертификата <C>:
22 Pastaba * kaip nustatyta <A> ir kaip teigiamai įsirepsa pagal Serifikatą <C>:
23 Pzīmēšana * kā norādīts <A> ir atbilstoši pozitīvajam vērtējumam saskaņā ar <A> s pozitīvu ziņšē v salīdzinā s ovērdēšim <C>:
24 Poznamka * ako bolo uvedené v <A> s pozitívnym zisnením v salīdzinā s ovērdēšim <C>:
25 Not * <A> da beiriditji ghi je <C> Serifikasina göre beiriditji olumlu olarak değerlendirilmiştir gibi.

- 08 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acordo com as nossas instruções:
09 sont conformes aux normes suivantes ou autres documents normatifs, sous réserve qu'ils soient utilisés conformément à nos instructions:
10 overholder følgende standard(er) eller andelændende retningsgængende dokument(er), brudt at disse anvendes i henhold til vore instruktioner:
11 respektive utsträttning är i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under förutsättning att anvisningarna i överensstämmelse med våra instruktioner:
12 respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutsætning at anvisningerne i overensstemmelse med våre instruktioner:
13 diese brukes i henhold til våre instruksjoner:
14 za predlokladu, že jsou využívány v souladu s našimi pokyny, odpovídá následujícím normám nebo normativním dokumentům:
15 u skladu sa slijedećim standardom(na) ili drugim normativnim dokumentom(na), uz uvjet da se oni koriste u skladu s našim uputama:

- 01 Directives, as amended.
02 Direktiven, gemäß Änderung.
03 Directives, telles que modifiées.
04 Richtlijnen, zoals gearanderd.
05 Directiva, según lo emendado.
06 Directive, come da modifica.
07 Ohányv, ömük öyüme tponononit.
08 Directivas, conforme alteração em.
09 Директиве, со всеми поправками.
10 Direktiver, med senere ændringer.
11 Direktiv, med foretagne ændringer.
12 Direktiver, c tekore kaveenena.
13 Direktiiv, seläsira kun te ova muutetuna.
14 v plānen zriēni.
15 Snēmiena, kāko je izmēģienoto.
16 irāņvēlve(k) ēs mōdōsāsāk rēnēkzēšēsit.
17 z pēžnējysimys poprākumi.
18 Direktivelor, cu amendamentele respective.
19 Direktive, med senere ændringer.
20 Direktiv, med foretagne ændringer.
21 Direktiva, c tekore kaveenena.
22 Direktiiv, seläsira kun te ova muutetuna.
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25 Degsitrinimys halēnyle Yōnēimēllēk.
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100 Degsitrinimys halēnyle Yōnēimēllēk.

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

- 20 Direktiver, med senere ændringer.
21 Direktiv, med foretagne ændringer.
22 Direktiva, c tekore kaveenena.
23 Direktiiv, seläsira kun te ova muutetuna.
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<A>	DAIKIN:TCF.025 C24/11-2009
	KEMA Quality B.V.
<C>	2082543.0551-QUA/EMC



Shinri Sada
Manager Quality Control Department


3.12.2009

DAIKIN INDUSTRIES, LTD.
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-ku, Osaka, 530-8323 Japan




Safety Precautions

- The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.
- Meaning of WARNING and CAUTION notices



 **WARNING**.....Failure to follow these instructions properly may result in personal injury or loss of life.






 **CAUTION**.....Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

- The safety marks shown in this manual have the following meanings:

 Be sure to follow this instructions.	 Be sure to establish an earth connection.	 Never attempt.
--	---	--

- After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the unit and take care of it with the aid of the operation manual.

 WARNING	
• Ask your dealer or qualified personnel to carry out installation work. Do not attempt to install the unit yourself. Improper installation may result in water leakage, electric shocks or fire.	
• Install the unit in accordance with the instructions in this installation manual. Improper installation may result in water leakage, electric shocks or fire.	
• Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.	
• Install the unit on a foundation strong enough to withstand the weight of the unit. A foundation of insufficient strength may result in the equipment falling and causing injury.	
• Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual. Be sure to use a dedicated power supply circuit only. Insufficiency of power circuit capacity and improper workmanship may result in electric shocks or fire.	
• Use a cable of suitable length. Do not use tapped wires or an extension lead, as this may cause overheating, electric shocks or fire.	
• Make sure that all wiring is secured, the specified wires are used, and that there is no strain on the terminal connections or wires. Improper connections or securing of wires may result in abnormal heat build-up or fire.	
• When wiring the power supply and connecting the wiring between the units, position the wires so that the control box lid can be securely fastened. Improper positioning of the control box lid may result in electric shocks, fire or over heating terminals.	
• When connecting the unit to “altherma” or a hydro box, be sure to turn off the unit, “altherma”, and hydro box before starting work. This procedure involves connecting high-voltage wires. Performing it while devices are energized may result in electrical shock, fire, injury, or death.	
• Be sure to earth the unit. Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.	
• Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electric shocks or fire.	

 CAUTION	
• Do not install the unit at any place where there is a danger of flammable gas leakage. In the event of a gas leakage, build-up of gas near the unit may cause a fire to break out.	
• Do not install the unit in a location where it may come in contact with mineral oil, oil vapour or spray, or corrosive gas, or where there are machines that generate electromagnetic radiation. This will cause deterioration of the plastic parts, corrosion of the copper pipes and brazed parts, and malfunctioning of the control system.	
• Do not install the unit where the air contains high levels of salt such as air near the ocean and where voltage fluctuates a lot (e.g. in factories). Also vehicles or vessels.	
• Do not install accessories on the casing directly. Drilling holes in the casing may damage electrical wires and consequently cause fire.	
• While following the instructions in this installation manual, install drain piping to ensure proper drainage and insulate piping to prevent condensation. Improper drain piping may result in indoor water leakage and property damage.	
• Tighten the flare nut according to the specified method such as with a torque wrench. If the flare nut is too tight, it may crack after prolonged use, causing water leakage.	
• Never use water that does not satisfy EU drinking water quality standards. Do not use well water, either. Otherwise, the tank may be corroded. (Domestic hot water quality must be according to EN directive 98/83 EC.)	
• The temperature of the water that flows through the unit must always be maintained between 6°C and 60°C.	
• Do not touch the aluminum fin. Doing so may result in injury.	

Accessories

Indoor unit (A) – (N)

(A) Mounting plate	1	(F) Remote controller holder	1	(L) Piping insulation	2
(B) Titanium apatite photocatalytic air-purifying filter	2	(G) Dry battery AAA. LR03 (alkaline)	2	(M) O ring	4
(C) Drain hose	1	(H) Operation manual	1	(N) Connection pipe	2
(D) Insulation sheet	2	(J) Installation manual	1		
(E) Wireless remote controller	1	(K) Binding band	1		

* For (L) piping insulation, (M) O ring and (N) connection pipe details, see the valve kit installation manual.

Choosing an Installation Site

- Before choosing the installation site, obtain user approval.

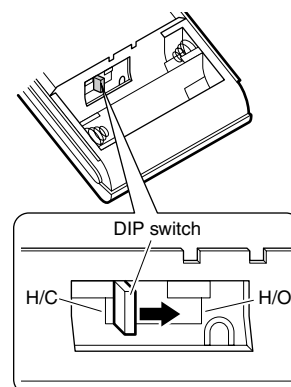
1. Indoor unit

- The indoor unit should be sited in a place where:
 - the restrictions on installation specified in the indoor unit installation drawings are met,
 - both air inlet and air outlet have clear paths met,
 - the unit is not in the path of direct sunlight,
 - the unit is away from the source of heat or steam,
 - there is no source of machine oil vapour (this may shorten indoor unit life),
 - cool (warm) air is circulated throughout the room,
 - the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may shorten the remote controller range,
 - the unit is at least 1m away from any television or radio set (unit may cause interference with the picture or sound),
 - no laundry equipment is located.

2. Wireless remote controller

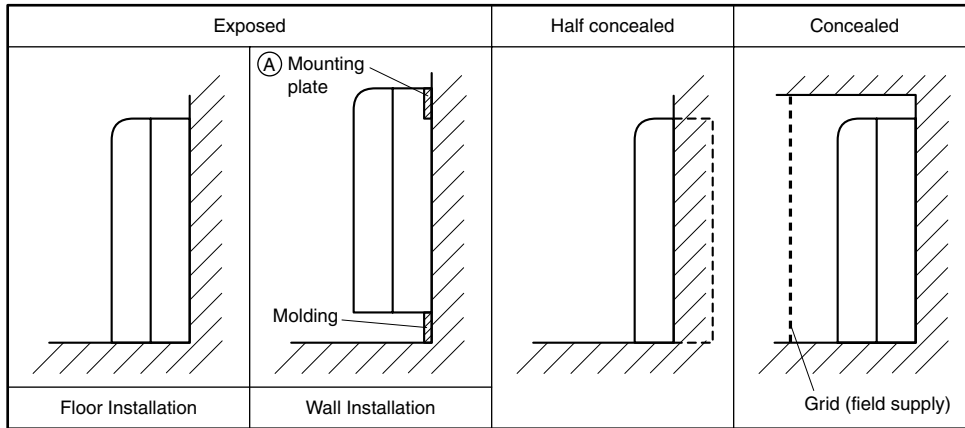
■Checks on remote controller settings

- This remote controller is common to the heating/cooling use and heating only use. Use the DIP switch on the remote controller to set the heating/cooling use or heating only use.
- Refer to the following explanation and make the setting as shown in the illustration.
 - For customers of heating/cooling use: Set to H/C
 - For customers of heating only use: Set to H/O

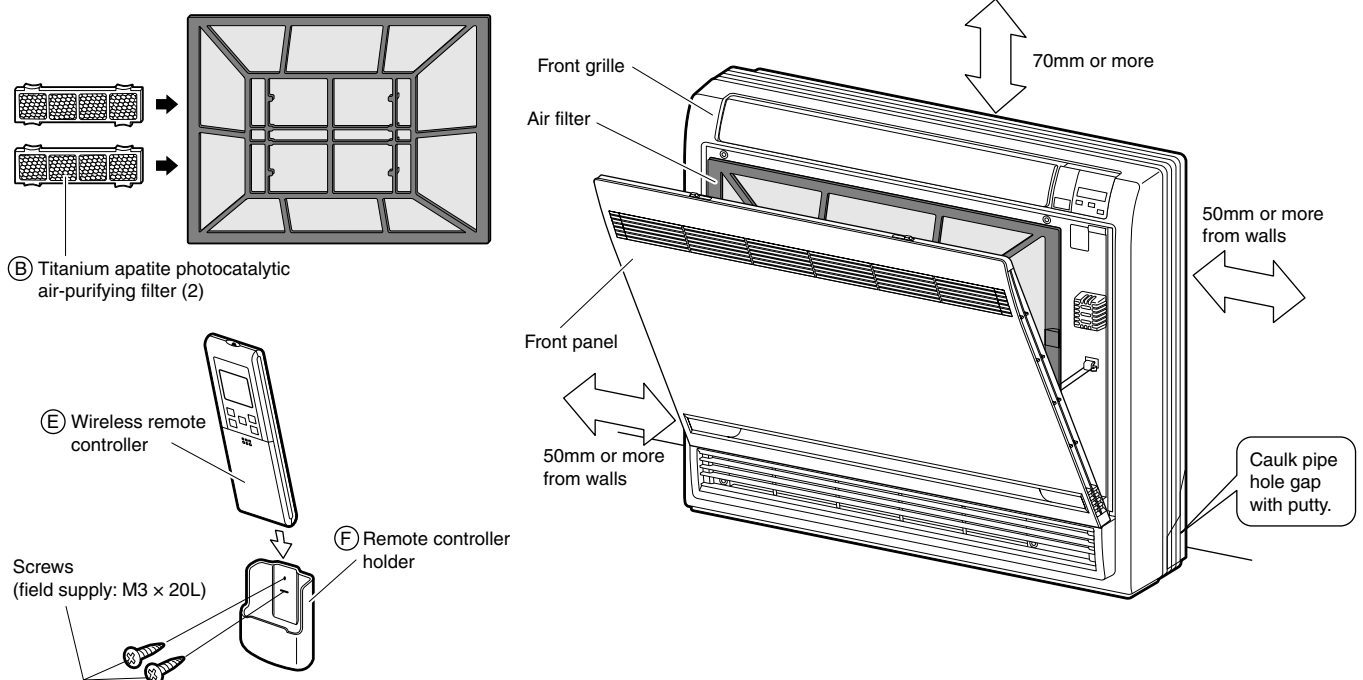
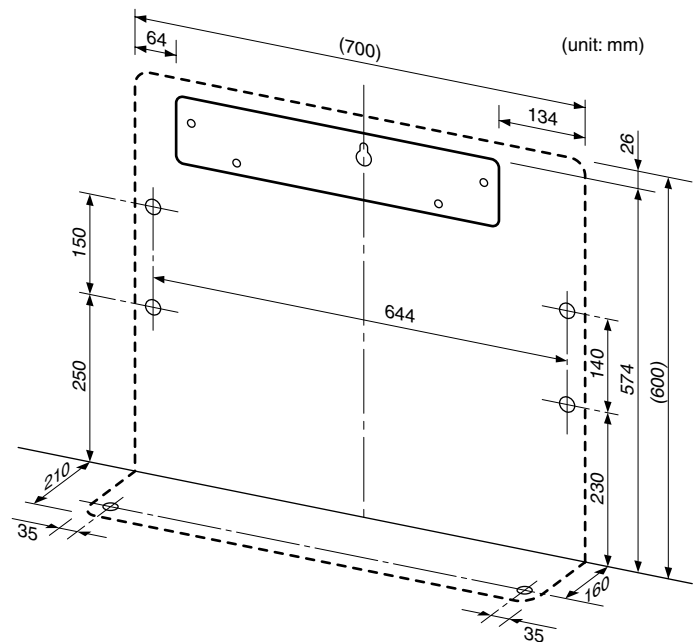


Indoor Unit Installation Drawings

The indoor unit may be mounted in any of the three styles shown here.



Location for securing the installation panel.



Installation Tips

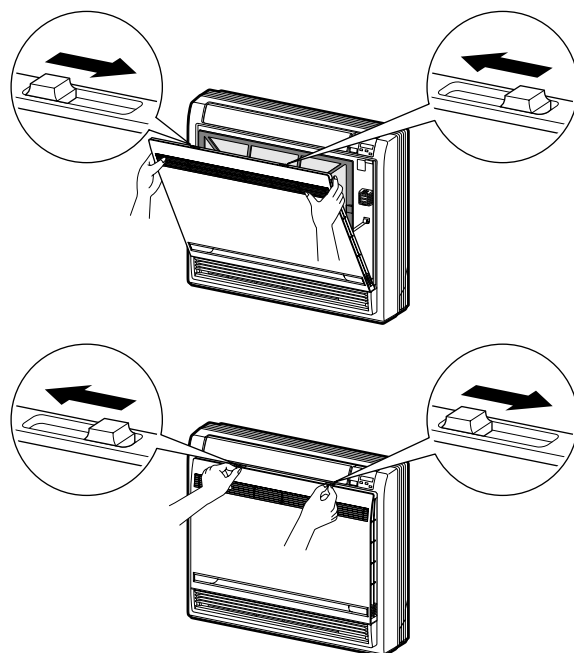
1. Removing and installing front panel

• Removal method

- 1) Slide until the 2 stoppers click into place.
- 2) Open the front panel forward and undo the string.
- 3) Remove the front panel.

• Installation method

- 1) Attach the front grille and front panel after pulling the string around them.
- 2) Close the front panel and slide until the stoppers click outside.



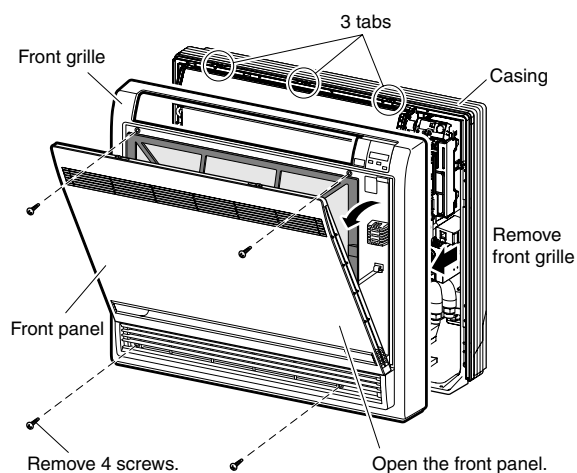
2. Removing and installing front grille

• Removal method

- 1) Open the front panel.
- 2) Remove the 4 screws and remove the front grille while pulling it forward (3 tabs).

• Installation method

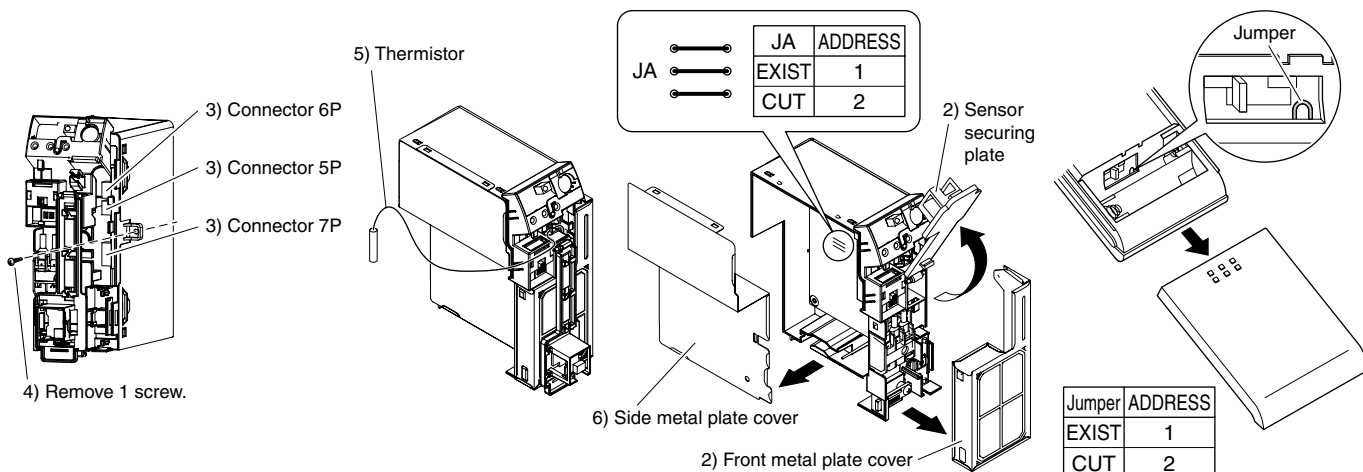
- 1) Secure the front grille with the 4 installation screws (3 tabs).
- 2) Return the front panel to the original position.



3. How to set the different addresses

When two indoor units are installed in one room, the two wireless remote controllers can be set for different addresses.

- 1) Remove the front grille.
- 2) Lift the sensor securing plate and remove the front metal plate cover.
- 3) Remove connectors 5P, 6P, and 7P.
- 4) Remove the electrical wiring box (1 screw).
- 5) Remove the thermistor.
- 6) Remove the side metal plate cover (7 tabs).
- 7) Cut the address jumper (JA) on the printed circuit board.
- 8) Cut the address jumper in the remote controller.



Indoor Unit Installation (1)

Exposed installation

1. Installing indoor unit

Preparation

- Open the front panel, remove the 4 screws and dismount the front grille while pulling it forward.
- Follow the procedure below when removing the slit portions.

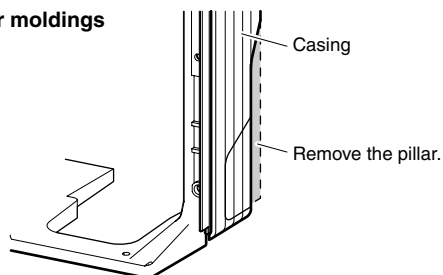
■ For moldings

- Remove the pillars. (Remove the slit portions on the bottom frame using nippers.)

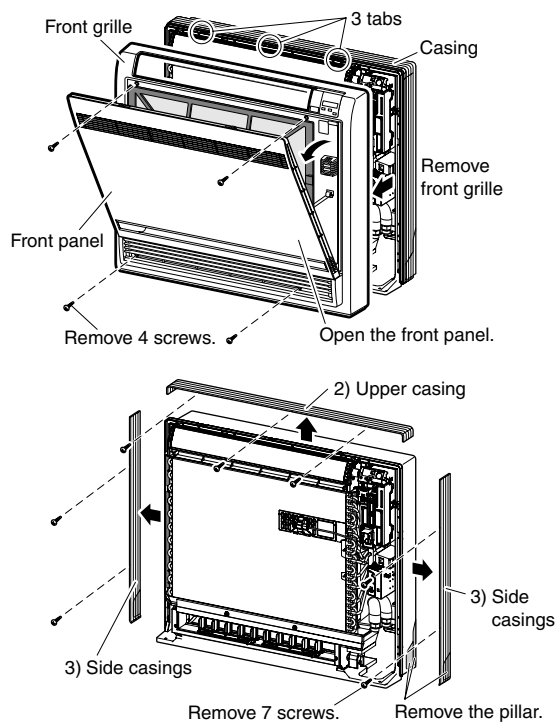
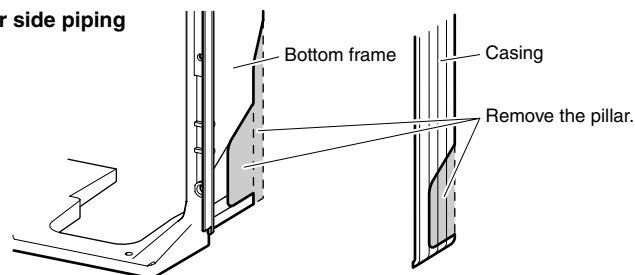
■ For side piping

- Remove the pillars.
 - 1) Remove the 7 screws.
 - 2) Remove the upper casing (2 tabs).
 - 3) Remove the left and right casings (2 tabs on each side).
 - 4) Remove the slit portions on the bottom frame and casings using nippers.
 - 5) Return by following the steps in reverse order (3 > 2 > 1).

For moldings



For side piping



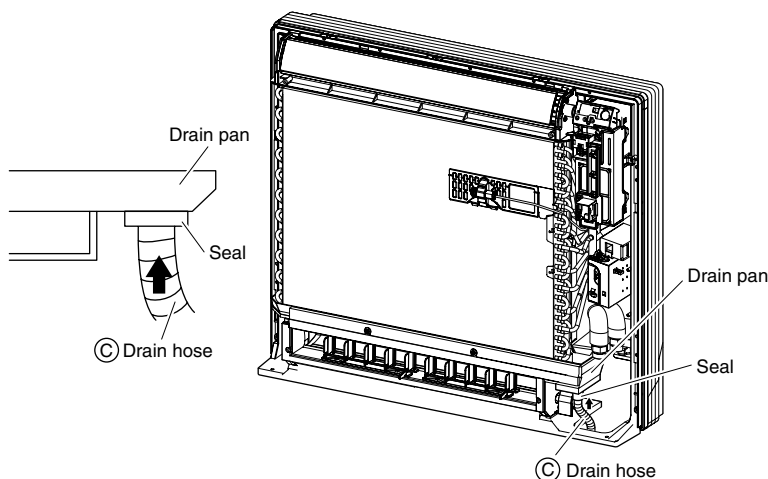
2. Attaching the connection pipe

- For water piping details, see the valve kit installation manual.

3. Connecting the drain hose and drain piping

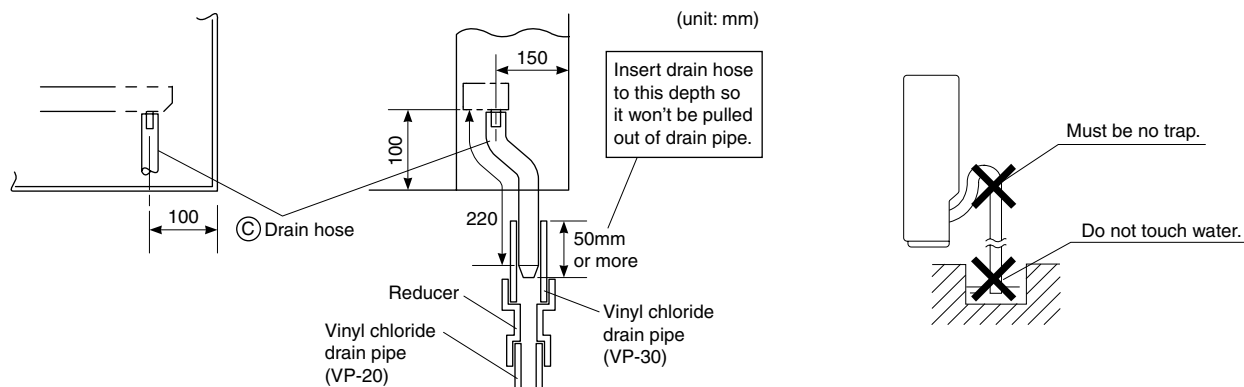
3-1. Connecting the drain hose

Insert the supplied © drain hose into the socket of the drain pan. Fully insert the drain hose until it adheres to a seal of the socket.



3-2. Drain piping

- 1) Use commercial rigid polyvinyl chloride pipe (general VP 20 pipe, outer diameter 26mm, inner diameter 20mm) for the drain pipe.
- 2) The drain hose (outer diameter 18mm at connecting end, 220mm long) is supplied with the indoor unit. Prepare the drain pipe picture below position.
- 3) The drain pipe should be inclined downward so that water will flow smoothly without any accumulation. (Should not be trap.)
- 4) Insert the drain hose to this depth so it won't be pulled out of the drain pipe.
- 5) **Insulate the indoor drain pipe with 10mm or more of insulation material to prevent condensation.**
- 6) Remove the air filters and pour some water into the drain pan to check the water flows smoothly.



CAUTION

- Use polyvinyl chloride adhesive agent for gluing. Failure to do so may cause water leakage.

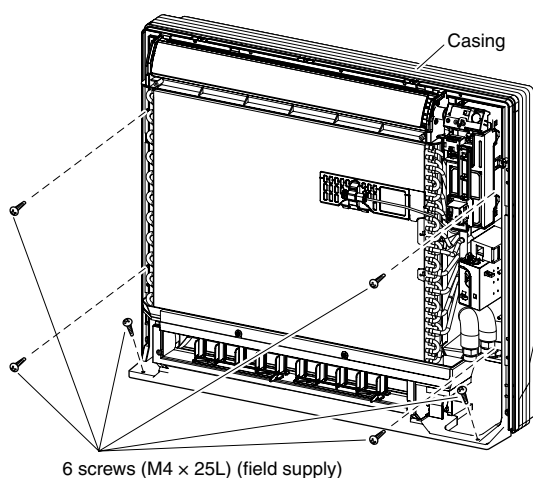
4. Installation

- Secure using 6 screws for floor installations. (Do not forget to secure to the rear wall.)
- For wall installations, secure the (A) mounting plate using 5 screws and the indoor unit using 4 screws.
- The mounting plate should be installed on a wall which can support the weight of the indoor unit.
 - 1) Temporarily secure the mounting plate to the wall, make sure that the panel is completely level, and mark the boring points on the wall.
 - 2) Secure the mounting plate to the wall with screws.

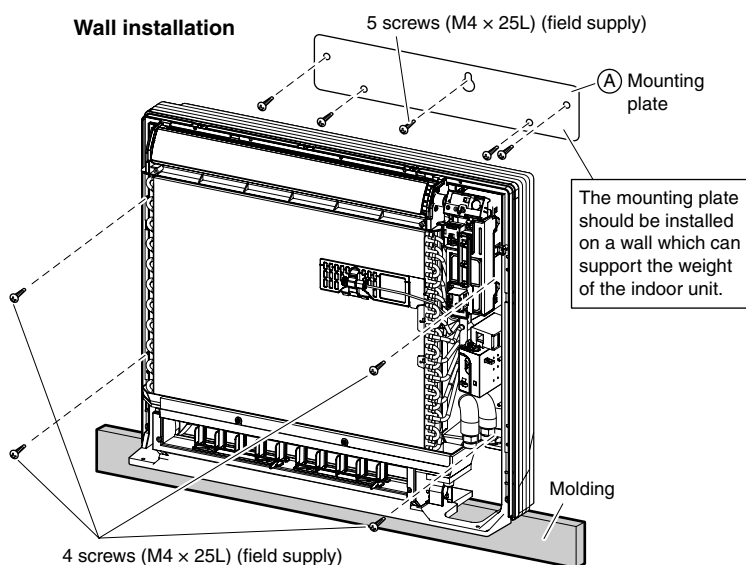
CAUTION

- Firmly secure the unit to the wall so that a gap does not form between the back of the unit and the wall.

Floor installation



Wall installation

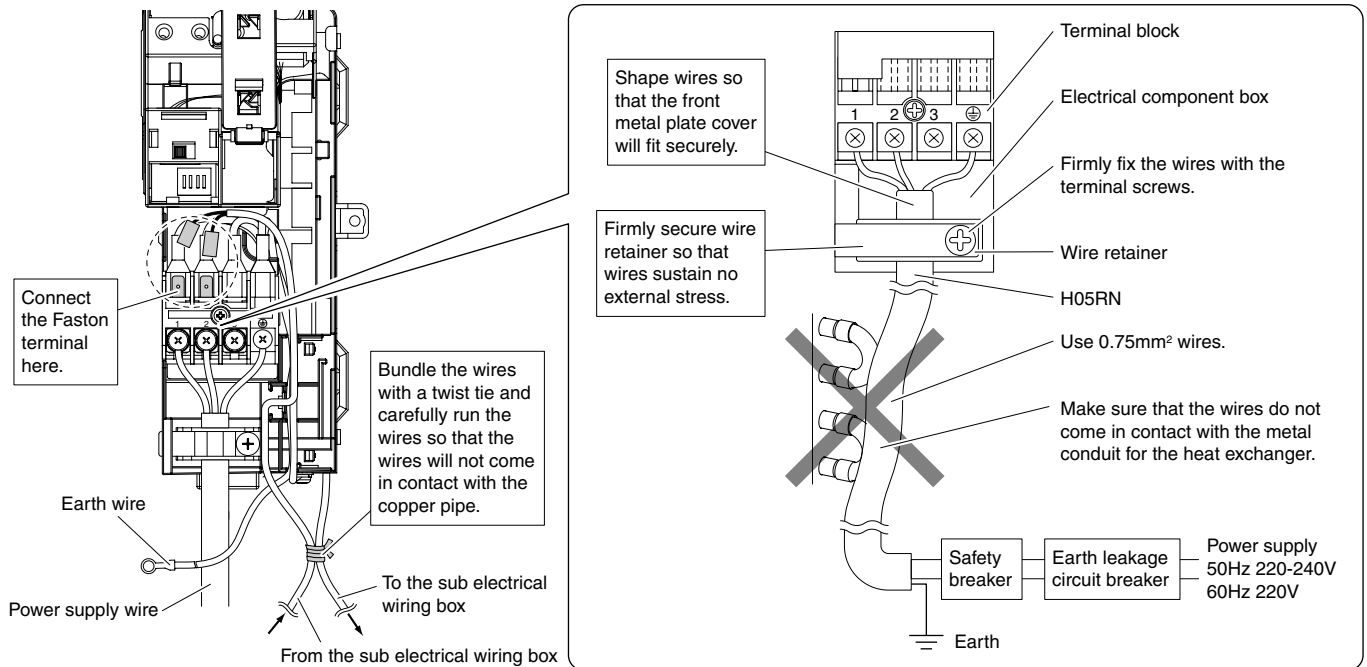


- 3) Attach the front panel and front grille in their original positions once all connections are complete.

Indoor Unit Installation (1)

5. Wiring

- Lift the sensor securing plate, remove the front metal plate cover, and connect the branch wiring to the terminal block.
- 1) Strip wire ends (15mm).
 - 2) Connect the power supply wire to the terminal block of main wiring box securely.
 - 3) Connect the earth wires to the corresponding terminals.
 - 4) Pull wires to make sure that they are securely latched up, then retain wires with wire retainer.
 - 5) Make sure that the wires do not come in contact with the metal conduit for the heat exchanger.

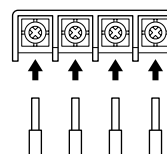
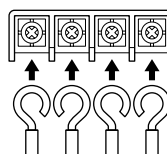
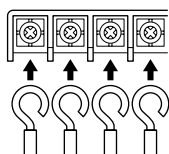


⚠ WARNING

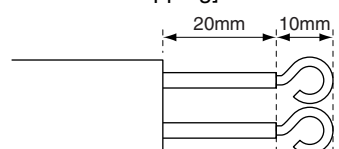
- Do not use tapped wires, stranded wires, extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- **Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.**

⚠ CAUTION

- Carefully run the wires connecting to the sub electrical wiring box so that the wires will not come in contact with the copper pipe. If the wires come in contact with the copper pipe, water drops may enter the sub electrical wiring box and the unit may malfunction.
- Be sure to connect the wires correctly. An incorrect connection may damage components and make it impossible to operate or use the unit.
- Use a round crimp-style terminal for connection to the power supply terminal block. In case it cannot be used due to unavoidable reasons, be sure to observe the following instruction.
- Place the round crimp-style terminals on the wires up to the covered part and secure in place.
- When connecting the wires to the terminal block, be sure to curl the wire ends as shown in the following illustration and connect each wire to the corresponding terminal from the same direction. Furthermore, make sure that the right dimensions of the wire ends stripping are kept.



[Dimensions of the wire ends stripping]

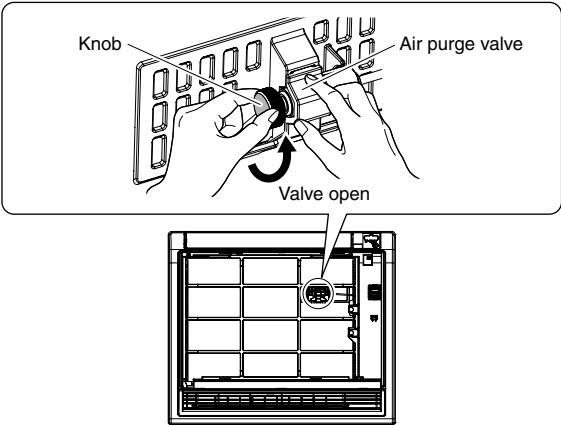


Indoor Unit Installation (1)

7. Purging air

■Purging air

- Air pockets sometimes form in the piping during trial operation after construction work and during normal operation. To remove air pockets from inside the piping, follow the steps below to purge air from the unit. Be sure to purge air while the unit is in cooling or heating operation.
- 1) Remove the front panel and the air filter.
 - 2) While pressing on the air purge valve with one hand, turn the air purge valve knob with your other hand as shown.
 - 3) Open the valve, make sure that air has been completely purged, and then close the valve securely.

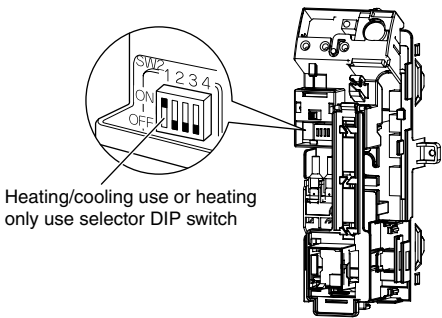


⚠ CAUTION

- There is a risk of injury if you touch the heat exchanger with your bare hand.
- Be sure to close the air purge valve after purging air.
Leaving the air purge valve open may result in water leakage and decreased performance.
- Before starting trial operation of the system, always check that the valve is closed.
- Water leakage will result if the knob of the air purge valve is loose. Check that the knob is tightly closed.

8. DIP switch settings based on installation site conditions

Set DIP switch SW2-1 to heating/cooling use or heating only use based on the specifications of the outdoor unit.

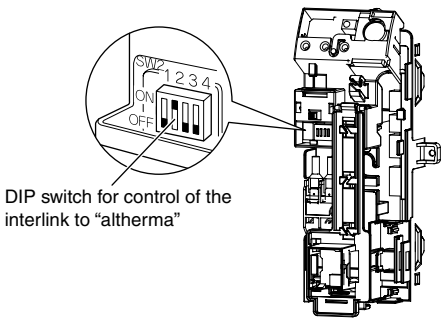


• How to set and use the switch

Switch number	SW2-1
Set function	Set the DIP switch for heating/cooling use or heating only use.
ON ↑ OFF	ON (heating only use) ↑ OFF (heating/cooling use)
Use	Select heating/cooling use or heating only use.
Factory setting	OFF (heating/cooling use)

If the unit is being connected to “altherma” and the * part (see the example model) of the model number on the hydro box is “BA” or later, set DIP switch SW2-2 to “ON”.

Example model: EKHBXE008BA3V3



• How to set and use the switch

Switch number	SW2-2
Set function	Controls interlink to “altherma”
ON ↑ OFF	ON (Connect to a hydro box whose * part of the model number is “BA” or later.) ↑ OFF (Other)
Use	Connecting to a hydro box whose * part of the model number is “BA” or later
Factory setting	OFF (Other)

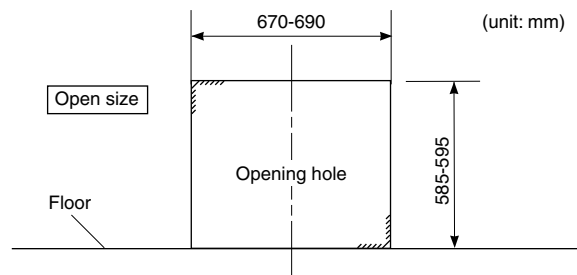
Indoor Unit Installation (2)

Half concealed installation

Only items peculiar to this installation method are given here. See exposed installation for additional instructions.

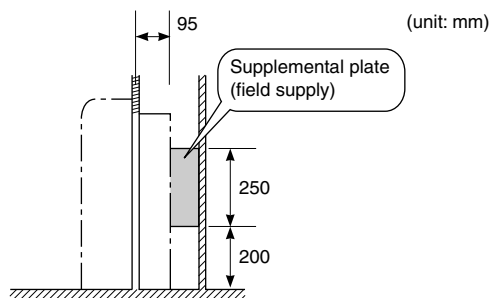
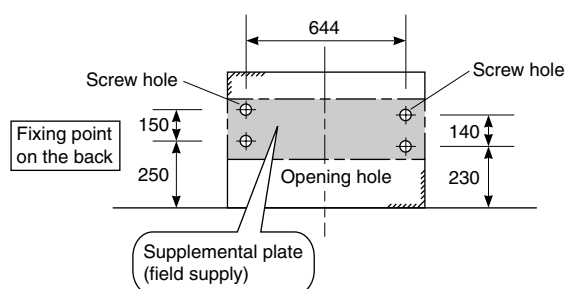
1. Wall hole

- Drill a wall hole of the size shown in the illustration on the right.



2. Installation of supplemental plate for attaching main unit

- The rear of the unit can be fixed with screws at the points shown in the illustration as below. Be sure to install the supplemental plate in accordance with the depth of the inner wall.

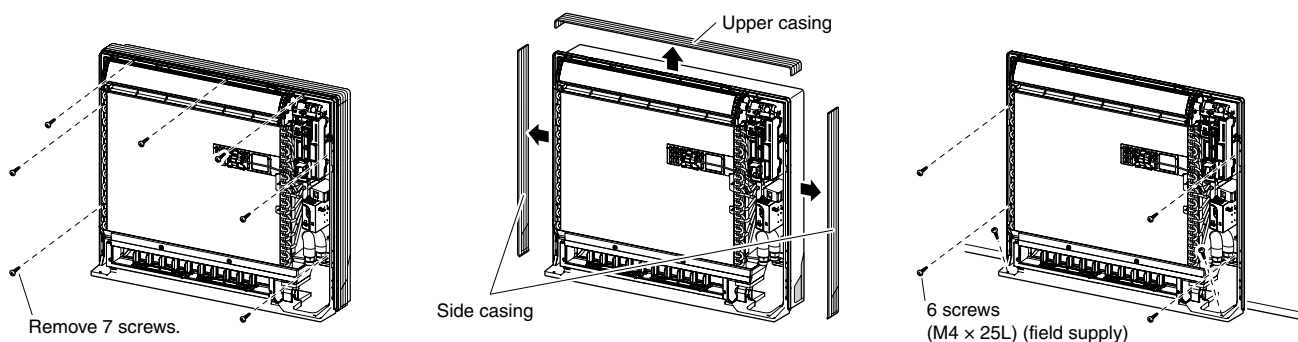


CAUTION

- The supplemental plate for installing the main unit must be used, or there will be a gap between the unit and the wall.

3. Installing indoor unit

- Remove the front grille.
- Remove 7 screws.
- Remove the upper casing (2 tabs).
- Remove the side casings (2 tabs on each side).
- Attach the indoor unit to the wall and secure using screws in 6 locations (M4 × 25L).



CAUTION

- Use drain pan edge for horizontal projection of the indoor unit.
- Install the indoor unit flush against wall.

NOTE:

For installing indoor unit, attaching the connection pipe, connecting the drain hose and drain piping, wiring, when connecting to a sub electrical wiring box, purging air, DIP switch settings based on installation site conditions, see exposed installation.

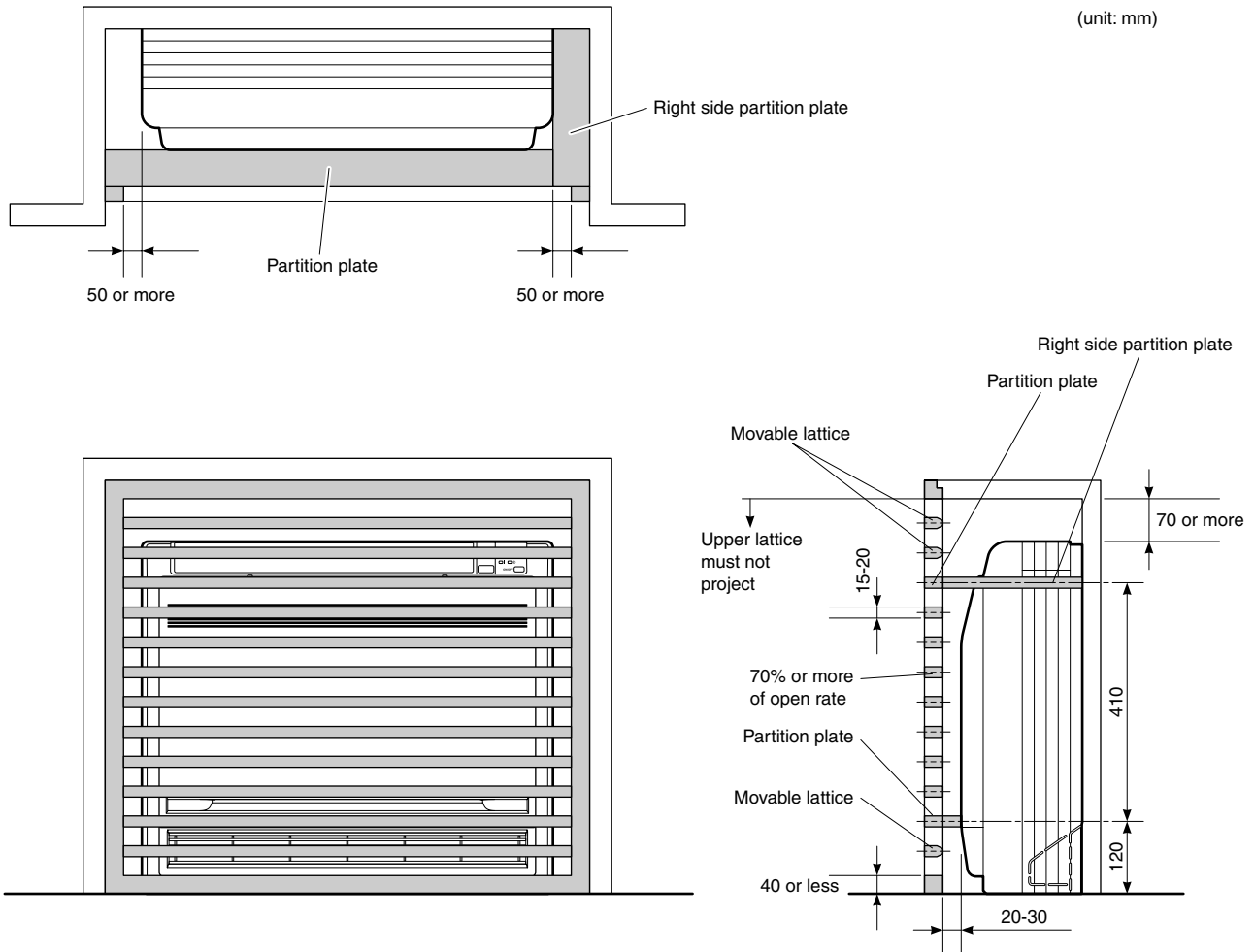
Indoor Unit Installation (3)

Concealed installation

Only items peculiar to this installation method are given here. See exposed installation for additional instructions.

Install the unit according to the instructions below. Failure to do so may cause lead to both cooling and heating failure and the condensation inside the house.

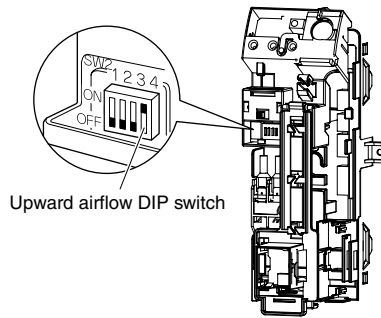
- 1) Allow enough space between the main unit and ceiling not to obstruct the flow of cool/warm air.
- 2) Place a partition plate between outlet and inlet sections.
- 3) Place a partition plate on the right side.
- 4) Change the upward-blow limit switch.
- 5) Use a movable lattice at the air outlet to allow the adjustment of cool/warm airflow direction.
- 6) Lattice size should be 70% or more of open rate.



Changing upward airflow DIP switch

Change the upward airflow DIP switch (SW2-4) to "ON" to limit the upward airflow.

- 1) Remove the front grille.
- 2) Switch the DIP switch (SW2-4) on the PCB in the electrical wiring box to "ON".



• How to set and use the switch

Switch number	SW2-4
Set function	Upward airflow limit
ON ↑ OFF	ON ↑ OFF
Use	Switch to on for embedded units
Factory setting	OFF

⚠ CAUTION

- Be sure to turn on the upward airflow switch. Failure to do so may cause incomplete cooling/heating and formation of condensation inside the house.

NOTE:

For installing indoor unit, attaching the connection pipe, connecting the drain hose and drain piping, wiring, when connecting to a sub electrical wiring box, purging air, DIP switch settings based on installation site conditions, see exposed installation.

Testing

1. Testing

- 1-1 Measure the supply voltage and make sure that it falls in the specified range.
- 1-2 Set the temperature of the water to a sufficient temperature for heating or cooling (6°C to 60°C).
 - 1) Testing may be disabled in either mode depending on the room temperature.
 - 2) After testing, set the temperature to a normal level (26°C to 28°C in cooling mode, 20°C to 24°C in heating mode).
- 1-3 The amount of the unit's water circulation should be 3L/min to 15L/min.

⚠ CAUTION

- If a special heat exchanger has been incorporated into the unit, the water circulation should be within the range specified for that product.
- If the water circulation is too low, sediment will collect due to stagnation. If too high, corrosion of the heat exchanger due to the fast flow and abnormal sounds and pipe cracking due to vibration may occur.
- The maximum allowable pressure of the unit is 1.18MPa.

2. Test items

Test items	Symptom	Check
Indoor unit is installed properly on solid bases.	Fall, vibration, noise	
Water pipe and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly earthed.	Electrical leakage	
The specified wires are used for inter-unit wiring connections.	Inoperative or burn damage	
Indoor unit's air inlet or air outlet has clear path of air.	Incomplete cooling/heating function	
Indoor unit properly receives remote control commands.	Inoperative	

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for manufacturing.

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