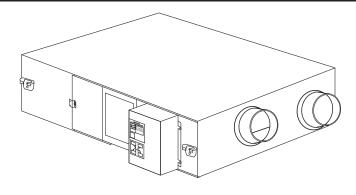


Installation and operation manual

Heat reclaim ventilation unit



VAM350J7VEB VAM500J7VEB VAM650J7VEB VAM800J7VEB VAM1000J7VEB VAM1500J7VEB VAM2000J7VEB

KONFORMITÄTSERKLÄRUNG DECLARATION-DE-CONFORMITE CONFORMITEITSVERKLARING

Daikin Europe N.V.

CE-DECLARAÇÃO-DE-CONFORMIDADE CE-3ARBIEHÚR-O-COOTBETCTBUN CE-OVERENSSTEMMEL SESERKLÆRNG CE-FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE

ERKLÆRING OM-SAMSVAR ILMOITUS-YHDENMUKAISUUDESTA PROHLÁŠENÍ-O-SHODĚ $\ddot{\theta}$

- IZJAVA-O-USKLAĐENOSTI -- MEGFELELŐSÉGI-NYILATKOZAT -- DEKLARACJA-ZGODNOŚCI -- DECLARAŢIE-DE-CONFORMITATE 55.5

CE - IZJAVA O SKLADNOSTI CE - VASTAVUSDEKLARATSIOON CE - JEKTIAPALJAR-3A-C'BOTBETCTBME

CE - ATTÍKTIES-DEKLARACIJA CE - ATBILSTĪBAS-DEKLARĀCIJA CE - VYHLÁSENIE-ZHODY CE - UYGUNLUK-BEYANI

DECLARACION-DE-CONFORMIDAD DICHIARAZIONE-DI-CONFORMITA ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ 555

declares under its sole responsibility that the air conditioning models to which this declaration relates: erklärt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist: déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration;

verklaart hierbij op eigen exclusieve vierantwordelijkheid dat de aironditioning unis waango deze verklaing betrekking heeft.

deckal at alse su linitar esgonsabildad que los motelos fo ale a condicionatio a los cadas faber felterenda la declaración debiara su livitar exponsabildad que los modelos de que acondicionado a los eletaracións.

Ghilara sotto sua responsabilidad que los modelos de au el rifetta questa debiaracións.

Ghilara per emoketura in fig. cabinn din ra portida trux hujurgminario utrosculo, orto ortoto ortotos quegatron propologo folyluxon; declara sob sua exotusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere.

VAM350J7VEB*, VAM500J7VEB*, VAM650J7VEB*, VAM800J7VEB*

заявляет, исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление: erklærer under eneansvar, at klimaanlægmodelleme, som denne deklaration vedrører:

dekterent i egenkap ar huudanserig "att liftkonditoreringsmodelerra som beröts av denna dektaatkon innebär att erkere et til stemidja anser for at de liftkondisjonenisponeler som bevar av denne dektaatkon, innebæren att. Innotte ay ksindnaan onstal avstudaan, ettal famali minduksen lakvibarnat limasionifalteiden malit: profilešuje ve sie pinė odpovėdnosti, že modely klimatizace, k nimž se tuto prohlėšeni vztafuje: zgarlije pot pisklijovo viastinimo dogomnisko, las in model klima tradėja in kiej se sora zgara odnosi; reje eleidssege tudalami kiejenii, togy a klimaterendasse modelle, melyeve e nylatiozati vioraktosi;

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VAM1000J7VEB*, VAM1500J7VEB*, VAM2000J7VEB*

der/den fotgenden Norm(en) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung, daß sie gemäß are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions: unseren Anweisungen eingesetzt werden:

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92

sono conformi ali() seguente(i) standard(s) o altro(i) documento(i) a carattere normativo, a patib che vengano usati in conformità alle nostre istruzioni: είναι σύμφωνα με το(σ) ακόλουθο(ο) πρότυπο(σ) ή άλλο έγγραφο(σ) κατονισμών, υπό την προύπθέσση ότι χρισιμοπορώτα σύμφωνα με τις οδηγίες μας:

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cooreer tray or ceptywaw craeptapra w un gona reporter page de properte and service de properte and service de properte and service de properte and service entrigativence deformentlen; forusk at disse america i tenhold if over instruser, especification and service entrigativence deformentlen; forusk at disse america i tenhold if over instruser. 3 9 5

amánding sker í överenssámmelse med vára instruktoner.

12. respektive ustyket noverenssemmelse med fogande standardej eller andre nomávende dokumentlen), under foutdssehning av at disse brukes i henhold til váre instrukes.

13. vaskada seuraavíns atkadden ja munden objevelisten dokumentlen raatimuksa edelpitásen etta nitta käydasta objevdenme mukasestit.

14. za pedopókatu, že javu vyzikány v souladu s raskim poknyn, optomája násebelpitén nomám nebo nomatávím dokumentlum.

15. u skadu sa sijededm standardomílmal ili odgán nomátkými obkumentlumi.

spehiają wymogi nasiąpujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi nistrukcjami: suntin conformijale cu umatorui (umatoarele) standardie) sau attie) documentie) normatiwie), cu condiția ca acestea să fie utilizate în conformitate cu megfelelnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják: instrucțiunile noastre: 9 1 9

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20. on vrastavnes grignitis (Paradizardile) ga vile sele normativese dormanitese a se podorio valura ormanitese dormanitese dormani

návodom: ūrūnūn, talimatlanmiza göre kullanılması koşuluyla aşağıdaki standartlar ve norm belirten belgelerle uyumludur;

Direktiver, med senere ændringer. Direktiv, med förelagna ändringar. Direktiver, med förelatte endringer. Direktiivejä, sellaisina kuin ne ovat muutettuina. irányelv(ek) és módosításaik rendelkezéseit. v platném znění. Smjemice, kako je izmijenjeno. z późniejszymi poprawkami. 6 = 5 6 4 6 6 6

*

Machinery 2006/42/EC

19 ob upošlevanju določb:
20 vastavati nobele:
21 cnepsalivu vrajevire + a:
22 lakanis nuostalu, paleikiamų;
22 lakanis nuostalu, paleikiamų;
23 lakalis nuostalu, paleikiamų;
24 odžiavajući ustanoventa:
25 burun ksyllarina uygun oleak;

10 under iggitagelse af bestemmelserne i: 11 enligt villoder i. 12 girt ihenhold ibestemmelserne i: 13 noudstlaen määräyksiä: 14 za doorben kisaloven předpisu: 15 prema odreboma: 16 követa al.; 17 zgodné z postanowiemmi Dyrektyw: 18 in uma pravedeníor.

following the provisions of:
gemäß den Vorschriften der:
conformément aux stipulations des:
tovereenkomstig de bepalingen van:

EN60335-2-40

Electromagnetic Compatibility 2014/30/EU

18 Direktver or amendamentele respective.
19 Direktver sveni sigementami.
20 Direktver sveni sigementami.
21 Dipervorano, r cesveri asserensen.
22 Direktvose su gadiomais.
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24 Siverrice y datom zreni.
25 Degsjarimni sitelarije i dretnelikler.
25 Degsjarimni sitelarije i dretnelikler.

01 Directives, as amended.
02 Directives, as amended.
03 Directives, letter and Anderung.
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04 Richtlighen, zoals geamendeerd.
05 Directives, seguin for emmedato.
07 Orghwis virus, stour viporimmelled.
09 Directives, conforme alteração em.
09 Directives, conforme alteração em. a(z) <A> alapján, a(z) igazolta a megfelelést, a(z) 21 Забележка*

както е изложено в <A> и оценено положително от kā norādīts <A> un atbilstoši pozitīvajam vērtējumam съгласно **Сертификата <С>** kaip nustatyta **<A>** ir kaip teigiamai nuspręsta **** pagal saskaņā ar sertifikātu < Sertifikatą <C>. 24 Poznámka* asa cum este stabilit în <A> și apreciat pozitiv de 23 Piezimes* în conformitate cu Certificatul <C>

22 Pastaba*

zgodnie z dokumentacją <A>, pozytywną opinią i Świadectwem <C>.

16 Megjegyzés*

17 Uwaga* 18 Notă*

som det fremkommer i <A> og gjennom positiv bedømmelse av ifølge Sertifikat <C> jotka on esitetty asiakirjassa <A> ja jotka on hyväksynyt Sertifikaatin <C> mukaisesti.

enligt <A> och godkänts av enligt Certifikatet <C>.

11 Information*

delineato nel <A> e giudicato positivamente da

secondo il Certificato <C>. όπως καθορίζεται στο <Α> και κρίνεται θετικά από το <Β> σύμφωνα με το Πιστοποιητικό <C>.

07 Σημείωση*

06 Nota*

as set out in <A> and judged positively by

01 Note*

με τήρηση των διατάξεων των: de acordo com o previsto em: в cooтветствии с положениями: siguiendo las disposiciones de: secondo le prescrizioni per:

according to the Certificatie <C>.

When I AP Angelight and vor 4B positiv
beurteit gemät Zerffittet <C>.

Butteit gemät Zerffittet <C>.

Bit que défini dans <4P et évalué positivement par 08 Nota*

25 Not*

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

kot je določeno v < A> in odobreno s strani < B>

19 Opomba*

igk bylo uvedeno v <A> a pozitivně zíjšěno

Pb. v souladu s sevetědením <C>.

Rako je boženo u <A> i pozitivno ocjenjeno od strane 20 Markus*

Rako je boženo u <A> i pozitivno ocjenjeno od strane 20 Markus*

Pb. prema Gerffilkatu <C>.

как указано в <A> и в соответствии с положительным 14 Poznámka* peшeнием cornacнo Свидетельству <C>. som anført i <A> og positivt vurderet af i henhold til 15 Napomena*

zoals vermeld in <A> en positief beoordeeld door 09 Примечание*

conformément au Certificat <C> overeenkomstig Certificaat <C>

03 Remarque* 02 Hinweis*

04 Bemerk*

05 Nota*

10 Bemærk*

como se establece en <A> y es valorado positivamente por de acuerdo con el Certificado <C>

tal como estabelecido em <A> e com o parecer positivo de de acordo com o Certificado <C>

13 Huom* 12 Merk*

v skladu s certifikatom <

<A> DAIKIN.TCF.009J3/09-2017 DEKRA (NB0344) ako bolo uvedené v <A> a pozitívne zistené v súlade <A>'da belirtildiği gibi ve <C> Sertifikasına göre tarafından olumlu olarak değerlendirildiği gibi. s osvedčením <C>.

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Ostend, 1st of December 2017

Shigeki Morita

Director

Zandvoordestraat 300, B-8400 Oostende, Belgium DAIKIN EUROPE N.V.

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About the documentation

1.1 About this document



INFORMATION

Make sure that the user has the printed documentation and ask him/her to keep it for future reference.

Target audience

Authorised installers + end users



INFORMATION

This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.

Documentation set

This document is part of a documentation set. The complete set consists of:

- · General safety precautions:
 - · Safety instructions that you MUST read before installing
 - Format: Paper (in the accessory bag of the heat reclaim ventilation unit)
- · Heat reclaim ventilation unit installation and operation manual:
 - Installation and operation instructions
 - · Format: Paper (in the accessory bag of the heat reclaim ventilation unit)
- Installer and user reference guide:
 - Preparation of the installation, good practices, reference data,...
 - Detailed step-by-step instructions and background information for basic and advanced usage
 - Format: Digital files on http://www.daikineurope.com/supportand-manuals/product-information/

Latest revisions of the supplied documentation may be available on the regional Daikin website or via your dealer.

The original documentation is written in English. All other languages are translations.

Technical engineering data

- A subset of the latest technical data is available on the regional Daikin website (publicly accessible).
- The full set of latest technical data is available on the Daikin extranet (authentication required).

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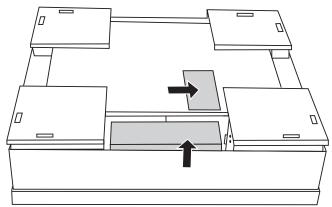
For the installer

2 About the box

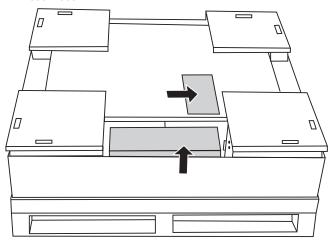
2.1 Heat reclaim ventilation unit

2.1.1 To remove the accessories

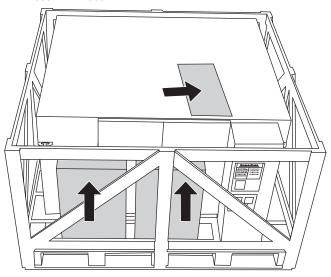
VAM350+VAM500

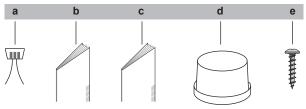


VAM650~1000



VAM1500+VAM2000





- a Wire
- **b** General safety precautions
- c Installation and operation manual
- d Duct joints, VAM350~1000 4×, VAM1500+VAM2000 8×
- e Screws, VAM350+VAM500 16×, VAM650~1000 24×, VAM1500+VAM2000 48×

3 About the units and options

3.1 About the heat reclaim ventilation unit

The heat reclaim ventilation unit is intended for indoor installation.



NOTICE

ALWAYS use the air filter. If the air filter is NOT used, the heat exchange elements can get clogged, possibly causing poor performance and subsequent failure.

Operation range	Temperature	-10°C DB~46°C DB		
Outdoor air + return air	Relative Humidity	≤80%		
Operation range	Temperature	0°C DB~40°C DB		
Unit location	Relative Humidity	≤80%		

It is possible that, due to condensation, the paper heat exchanger deteriorates when the unit operates in conditions with high indoor humidity combined with low outdoor temperature. If such combined conditions occur for an extended period of time, the necessary precautions have to be taken to prevent condensation. Example: install a pre-heater to heat up the outdoor air.

When the heat reclaim ventilation unit is installed upside down, the minimum allowed outdoor air temperature is $5^{\circ}C.$ If this CANNOT be guaranteed, you MUST install a heater to heat up the outdoor air to $5^{\circ}C$

4 Preparation

4.1 Preparing the installation site

Do NOT install a heat reclaim ventilation unit or air suction/discharge grille in the following places:

- Places, such as machinery plants and chemical plants, where noxious gases or corrosive components of materials such as acid, alkali, organic solvent and paint are present.
- Places, such as bathrooms, subject to moisture. Moisture can cause electric shock, electric leakage and other failures.
- · Places subject to high temperature or direct flames.
- Places subject to much carbon black. Carbon black attaches to air filter and heat exchange elements, disabling them.

4.1.1 Installation site requirements for the heat reclaim ventilation unit



INFORMATION

Also read the general installation site requirements. See the "General safety precautions" chapter.



CAUTION

- The appliance is designed to be a built-in appliance. It must NOT be accessible to the general public. Adequate measures have to be taken to prevent access by other than qualified persons.
- · Check if the installation location can support the unit's weight. Poor installation is hazardous. It can also cause vibrations or unusual operating noise.
- Provide sufficient service space and inspection holes. Inspection holes are needed for the air filters, the heat exchange elements and the fans.
- Do NOT install the unit so that it is in contact with a ceiling or wall, this may cause vibration.



CAUTION

Appliance NOT accessible to the general public, install it in a secured area, protected from easy access.

This unit is suitable for installation in a commercial and light industrial environment.

For VAM800~2000



NOTICE

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

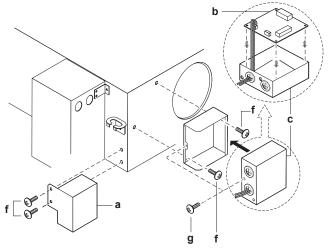
Service space

See the installer and user reference guide for more information.

4.2 Preparing the unit

4.2.1 To install the optional adapter printed circuit board

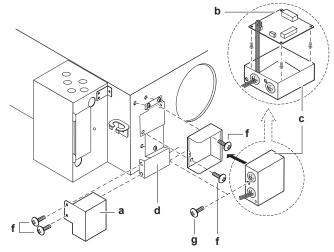
For models 350-500-800-1000



- BRP4A50A (optional accessory)
- KRP2A51 (optional accessory)
- KRP1BA101 (Fixing box)
- Screw
- Screw (supplied with the fixing box)
- Remove the screws from the unit.

- 2 Attach the optional adapter printed circuit board (KRP2A51) in the fixing box (KRP1BA101).
- Follow the installation instructions provided with the option kits (BRP4A50A, KRP2A51 and KRP1BA101).
- Guide the circuit board wire through the dedicated holes and attach it as instructed in Opening the switch box in the installer and user reference guide.
- Attach the options to the unit, as shown in the figure.
- After the wires are connected, fasten the switch box cover.

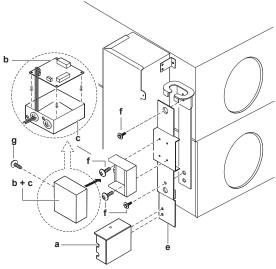
For model 650



- BRP4A50A (optional accessory)
- KRP2A51 (optional accessory) KRP1BA101 (Fixing box) b
- EKMP65VAM (Mounting plate)
- Screw (supplied with the fixing box)
- Remove the screws from the unit.
- Attach the optional mounting plate (EKMP65VAM) to the unit.
- Attach the optional adapter printed circuit board (KRP2A51) in 3 the fixing box (KRP1BA101).
- Follow the installation instructions provided with the option kits (BRP4A50A, KRP2A51 and KRP1BA101).
- Guide the circuit board wire through the dedicated holes and attach it as instructed in Opening the switch box in the installer and user reference guide.
- Attach the options to the optional mounting plate, as shown in the figure.
- After the wires are connected, fasten the switch box cover.

DAIKIN

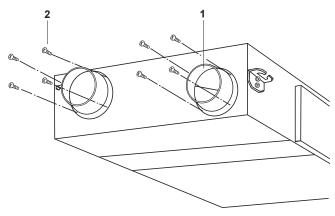
For models 1500+2000



- BRP4A50A (optional accessory)
- KRP2A51 (optional accessory) KRP1BA101 (Fixing box)
- **EKMPVAM** (Mounting plate)
- Screw (supplied with the fixing box)
- Remove the screws that are in the middle of the casing fixing
- Attach the optional mounting plate (EKMPVAM) on top of the casing fixing plate.
- 3 Attach the optional adapter printed circuit board (KRP2A51) in the fixing box (KRP1BA101).
- Follow the installation instructions provided with the option kits (BRP4A50A, KRP2A51 and KRP1BA101).
- Guide the circuit board wire through the dedicated holes and attach it as instructed in Opening the switch box in the installer and user reference guide.
- Attach the options to the optional mounting plate, as shown in the figure.
- After the wires are connected, fasten the switch box cover.

4.2.2 To install the duct joints

- Position the duct joints over the duct holes.
- Secure the duct joints with the provided screws (accessories).



Models	Number of provided screws	Number of provided duct joints
VAM350	16	4× Ø200 mm
VAM500	16	4× Ø200 mm
VAM650	24	4× Ø250 mm

Models	Number of provided screws	Number of provided duct joints
VAM800	24	4× Ø250 mm
VAM1000	24	4× Ø250 mm
VAM1500	48	8× Ø250 mm
VAM2000	48	8× Ø250 mm

4.3 Preparing the electrical wiring

4.3.1 **Component electrical specifications**

Model	350	500	650	800	1000	1500	2000					
	Power supply											
50 Hz		198~264 V										
60 Hz			19	98~242	V							
MCA (A)	1.56 2.08 2.80 4.39 4.90 8.78 9						9.80					
MFA (A)	16 16 16 16 16 16 1											
		Fa	n moto	r								
P (kW)	0.08× 2	0.08× 2	0.106 ×2	0.21× 2	0.21× 2	0.21× 4	0.21× 4					
FLA (A)	0.62× 2	0.83× 2	1.12× 2	1.76× 2	1.96× 2	1.76× 4	1.96× 4					

MCA Minimum Circuit Amps MFA Maximum Fuse Amps Motor Rated Load FLA Full Load Amps



NOTICE

When using residual current operated circuit breakers, make sure to use a high speed type 300 mA rated residual operating current.



NOTICE

The power supply MUST be protected with the required safety devices, i.e. a main switch, a slow blow fuse on each phase and an earth leakage protector in accordance with the applicable legislation.



NOTICE

See the engineering data book for details.

4.3.2 Specifications for field supplied fuses and wires

Power supply wiring										
Field supplied fuses	16 A									
Wire H05VV-U3G										
Size	Wire size MUST comply with the applicable legislation.									
	Transmission wiring									
Wiring	Shielded wire (2 wire)									
Size 0.75~1.25 mm²										

Precautions

When connecting more than one wire to the power supply wiring, use a 2 mm² (Ø1.6 mm) gauge wire.

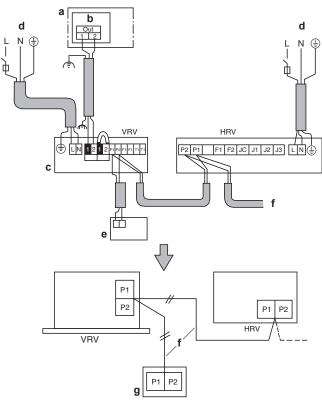
When using 2 power wires of a gauge greater than 2 mm² (Ø1.6 mm), branch the line outside the terminal board of the unit, in accordance with electrical equipment standards. The branch MUST be sheathed to provide a degree of insulation equal to or greater than the power supply wiring itself.

Keep the total current of crossover wiring between indoor units to less than 12 A.

Do NOT connect wires of different gauge to the same grounding terminal. Loose connections may diminish the protection.

For the user interface wiring, refer to the installation manual of the user interface delivered with the user interface.

Wiring example



- a Outdoor unit/BS unit
- **b** Switch box
- c Indoor unit
- d Power supply 220-240 V~50 Hz
- e User interface for VRV
- f Transmission wiring
- g User interface for heat reclaim ventilation unit
- All transmission wiring, except for the user interface wires, is polarised and MUST match the terminal symbol.

4.4 Preparing the installation of the ducts



INFORMATION

- Flexible ducting with sound insulation is effective to reduce blowing noises.
- When you select installation materials, consider the required volume of air flow and the acceptable level of noise for that particular installation.
- When the return air infiltrates into the ceiling and the temperature and humidity in the ceiling become too high, insulate the metal parts of the unit.
- ONLY use the service hole to access the inside of the unit.
- The sound pressure level is less than 70 dBA.

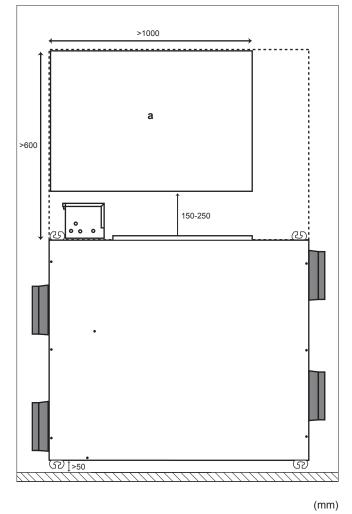
<u>\</u>

CAUTION

- For safety reasons, the required minimum length of the ducting is 1.5 m. If the ducting is shorter, or if no ducting is installed, then you MUST install grilles in the duct openings or the openings of the unit.
- · Make sure no wind can blow in the ducting.

5 Installation

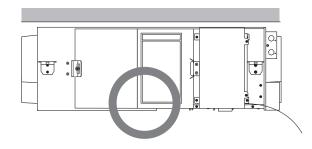
5.1 Service space: Heat reclaim ventilation unit

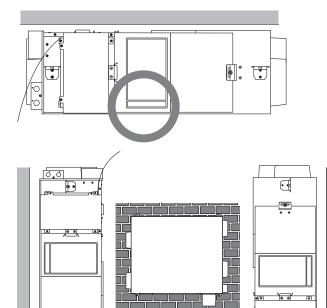


Service space

5.2 Unit orientation

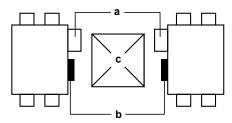
The following illustration helps you to install the heat reclaim ventilation unit in the correct position:



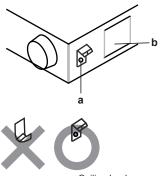


Installation tips:

 Installing the unit upside down allows for common use of the inspection hole, reducing the required maintenance space. For example, if 2 units are installed closely together, ONLY 1 inspection hole is required for maintaining or replacing filters, heat exchange elements,...



- a Control box
- **b** Maintenance cover
- c Inspection hole
- When the heat reclaim ventilation unit is installed upside down, the minimum allowed outdoor air temperature is 5°C. If this CANNOT be guaranteed, you MUST install a heater to heat up the outdoor air to 5°C.
- Keep in mind that the ceiling hooks have to be reinstalled when the heat reclaim ventilation unit is installed upside down. They have to be rotated 180°, so that they are upside down (see the illustration).



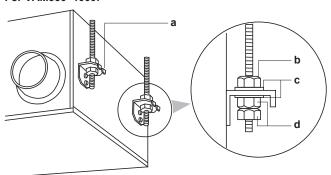
- a Ceiling hook
- Maintenance cover

5.3 To install the anchor bolts

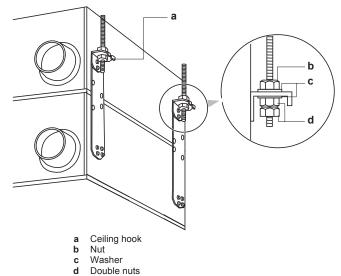
Prerequisite: Before you install the anchor bolt, check if foreign objects such as vinyl and paper are still inside the fan housing. If so, remove them.

- 1 Install the anchor bolt (M10 to M12).
- 2 Pass the metal suspension bracket through the anchor bolt.
- 3 Secure the anchor bolt with washer and nut.

For VAM350~1000:



For VAM1500+VAM2000:



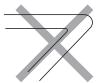


NOTICE

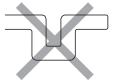
Always hang up the unit by its suspension brackets.

5.4 Duct connections

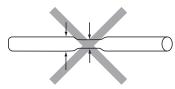
Do NOT connect the ducts as follows:



Extreme bend. Do NOT bend the duct over 90°.



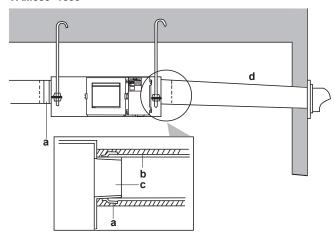
Multi bend



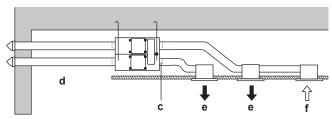
Reduced diameter. Do NOT reduce the duct diameter.

- The minimum bend radius for flexible ducts is as follows: (Øduct/2)×1.5
- To prevent air leakage, wind aluminium tape around the section where the duct joints and the ducts are connected.
- Install the opening of the supply air as far as possible from the opening of the return air.
- Use ducts with a diameter that fit the unit model. See the data book.
- Install the two outdoor ducts with down slope (slope ratio of 1 in 50 or more) to prevent entry of rain water. Also provide insulation for both ducts, to prevent dew formation. (Material: 25 mm thick glass wool)
- If the level of temperature and humidity inside the ceiling is always high, install ventilation inside the ceiling.
- Insulate the duct and the wall electrically when a metal duct has to penetrate the metal lattice and wire lattice or the metal lining of a wooden structure wall.
- Install the ducts in a manner that the wind CANNOT blow inside the ducting.

VAM350~1000



VAM1500+VAM2000



- a Aluminium tape (field supply)
- b Insulation material (field supply)
- c Duct joint (accessories)
- d Slope over 1/50
- e Supply air
- f Return air

5.5 Electrical wiring



INFORMATION

Also read the precautions and requirements in the "General safety precautions" chapter.



WARNING

- All wiring MUST be performed by an authorised electrician and MUST comply with the applicable legislation.
- Make electrical connections to the fixed wiring.
- All components procured on the site and all electrical construction MUST comply with the applicable legislation.

5.5.1 Precautions when connecting electrical wiring



DANGER: RISK OF ELECTROCUTION



WARNING

If NOT factory installed, a main switch or other means for disconnection, having a contact separation in all poles providing full disconnection under overvoltage category III condition, MUST be installed in the fixed wiring.



WARNING

- ONLY use copper wires.
- Make sure the field wiring complies with the applicable legislation.
- All field wiring MUST be performed in accordance with the wiring diagram supplied with the product.
- NEVER squeeze bundled cables and make sure they do NOT come in contact with the piping and sharp edges. Make sure no external pressure is applied to the terminal connections.
- Make sure to install earth wiring. Do NOT earth the unit to a utility pipe, surge absorber, or telephone earth. Incomplete earth may cause electrical shock.
- Make sure to use a dedicated power circuit. NEVER use a power supply shared by another appliance.
- Make sure to install the required fuses or circuit breakers.
- Make sure to install an earth leakage protector. Failure to do so may cause electric shock or fire.
- When installing the earth leakage protector, make sure it is compatible with the inverter (resistant to high frequency electric noise) to avoid unnecessary opening of the earth leakage protector.

5 Installation



WARNING

- After finishing the electrical work, confirm that each electrical component and terminal inside the electrical components box is connected securely.
- Make sure all covers are closed before starting up the



NOTICE

If the power supply has a missing or wrong N-phase, equipment will break down.



NOTICE

Do NOT install a phase advancing capacitor, because this unit is equipped with an inverter. A phase advancing capacitor will reduce performance and may cause accidents.

5.5.2 Opening the switch box

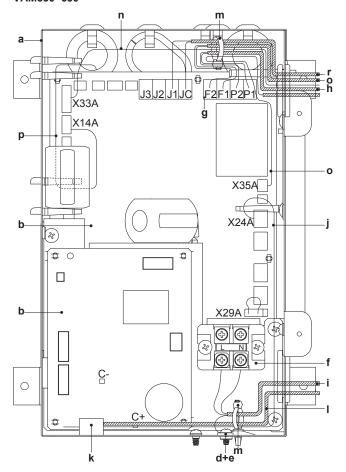


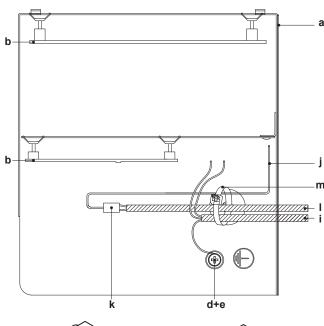
CAUTION

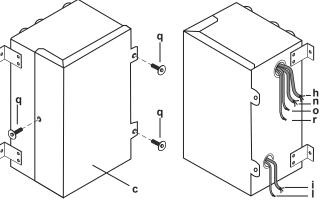
Before opening the cover, be sure to turn off the power switches of the main units and other devices connected to the main units.

- · Remove the screw that secures the cover and open the switch box.
- · Secure the power supply control wires with the clamp, as shown in the figures.

VAM350~650

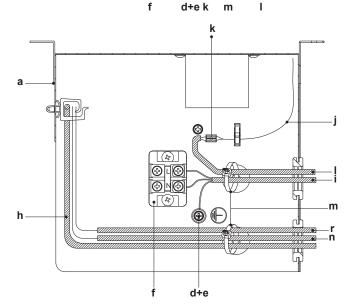


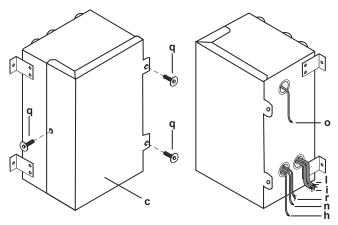




- Switch box
- b Printed circuit board
- Switch box cover
- Securing screw and washer Grounding terminal
- Terminal board
- Transmission wiring terminal board (P1, P2, F1, F2)
- Transmission wiring (to optional user interface)
- Power supply cable
- Wires for connection of additional external damper
- (supplied accessory) Insulated splices-closed barrel connector (0.75 mm²) (field
- Double or reinforced insulated flexible cable (0.75 mm²) to external damper (field supply)
- Tie wrap (field supply)
 BRP4A50A (optional accessory)
- KRP2A51 (optional accessory)
- CO₂ sensor (optional accessory)
- Tapping screw
- Wires for fresh-up operation

VAM800+VAM1000 h m 0 X33A X14A X35A 📑 X24A 0 \Box b X29A 🖑 Œ 0

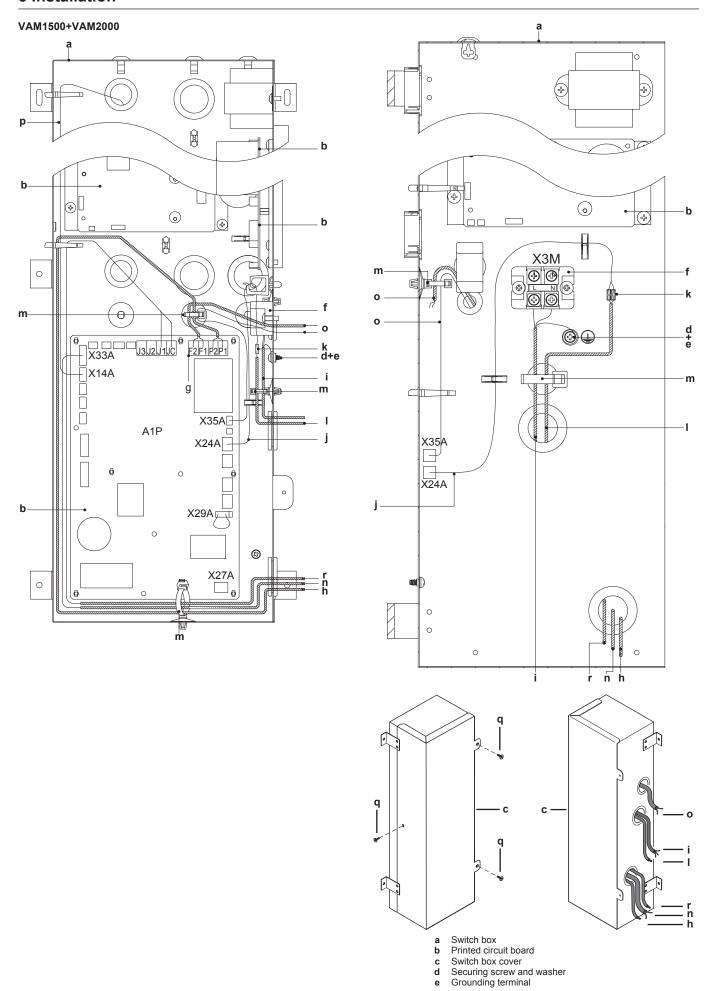




- Switch box
- a b Printed circuit board
- Switch box cover С
- Securing screw and washer
- Grounding terminal
- Terminal board
- Transmission wiring terminal board (P1, P2, F1, F2)
 Transmission wiring (to optional user interface)

- Power supply cable
 Wires for connection of additional external damper (supplied accessory)
 Insulated splices-closed barrel connector (0.75 mm²) (field
- supply)
 Double or reinforced insulated flexible cable (0.75 mm²) to
- external damper (field supply)
 Tie wrap (field supply)
 BRP4A50A (optional accessory)

- KRP2A51 (optional accessory)
- CO₂ sensor (optional accessory)
- Tapping screw
- Wires for fresh-up operation

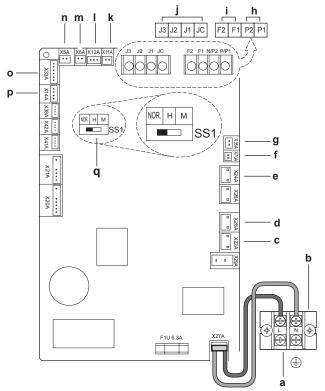


- Terminal board
- Transmission wiring terminal board (P1, P2, F1, F2)
- Transmission wiring (to optional user interface)
- Power supply cable
- Wires for connection of additional external damper (supplied accessory)
- Insulated splices-closed barrel connector (0.75 mm²) (field
- Double or reinforced insulated flexible cable (0.75 mm²) to external damper (field supply)
- Tie wrap (field supply)
- BRP4A50A (optional accessory)
- KRP2A51 (optional accessory)
- CO2 sensor (optional accessory)
- Tapping screw
- Wires for fresh-up operation

5.5.3 Power supply connection, control wire terminals and switches on the circuit board

To connect the power supply

- 1 Connect the power supply to the L and N terminals.
- Secure the power supply with the power supply clamp, as shown in Opening the switch box in the installer and user reference guide.
- Be sure to connect the earth wire.



- Power supply
- h **Terminals**
- Damper
- Damper (only VAM1500+VAM2000 bottom unit) d
- External damper (field supply)
- Fan communications
- KRP2A51 (option)
- User interface
- Centralised control External input
- Outdoor air thermistor
- Indoor air thermistor
- Damper (only VAM1500+VAM2000 bottom unit)
- Damper
- BRP4A50A (optional accessory)
- CO2 sensor
- Factory setting (No operation if setting is changed)



NOTICE

Factory settings: Do NOT change the switch settings when a user interface is connected. SS1 is a setting switch to operate without user interface. Changing the settings when a user interface is connected, will stop the unit from operating normally. Keep the switch on the PCB at the factory setting.

6 Configuration

The settings (format: XX(XX)-X-XX), for example 19(29)-1-02, that are used in this chapter are composed of 3 parts, divided by "-":

- Mode number: for example, 19(29), where 19 is the mode number for group settings and 29 is the mode number for individual settings.
- Switch number: for example, 1
- Position number: for example, 02

6.1 Operating procedure

You can use either the user interface of the heat reclaim ventilation units or of the air conditioner to adjust the heat reclaim ventilation unit settings

Initial settings

- Mode numbers 17, 18, and 19: group control of heat reclaim ventilation units.
- Mode numbers 27, 28, and 29: individual control.

To change the settings with BRC1E53

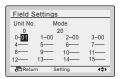
Make sure that the switch box lids on the heat reclaim ventilation unit are closed.

- Shortly press a button to turn on the screen light.
- Press and hold the Cancel button (a) for at least 4 seconds to enter the Service Settings menu.
- Go to Field Settings with the Up/Down buttons and press the Menu/Enter button (b).
- Press the Left/Right buttons to highlight the number under Mode.
- Press the Up/Down buttons to select the required mode number.

Result: Depending on the mode number that you select, starting at 20, you will also have to select a unit number, for the individual control.

- Use the Left/Right buttons to highlight the number under Unit No.
- Use the Up/Down buttons to select an indoor unit number. Selecting a unit number is NOT necessary when you are configuring the entire group.
- Use the Left/Right buttons to select a position number (0 to 15) for the switch number that you want to change.

In case of individual settings:



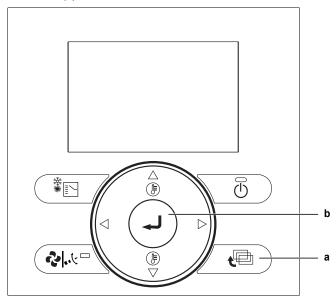
In case of group settings:



- 9 Use the Up/Down buttons to select the required position number.
- 10 Press the Menu/Enter (b) button and confirm the selection with Yes.



11 After you have completed all the changes, press the Cancel button (a) twice to return to the normal mode.



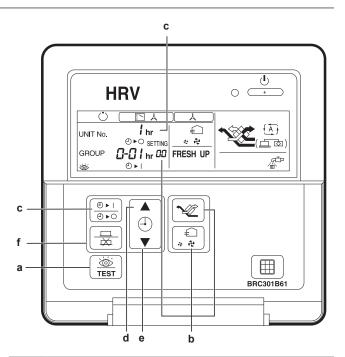
6.1.2 To change the settings with BRC301B61

Make sure that the switch box lids on the heat reclaim ventilation unit are closed.

- 1 With the unit in normal mode, press the Inspection/Trial button (a) for more than 4 seconds to enter the local setting mode.
- 2 Use the Ventilation mode button (up b) and the Airflow rate button (down - b) to select a mode number.

Result: The code display is blinking.

- 3 To configure settings for individual units under group control, press the Timer setting on/off button (c) and select the number of the unit that you want to configure.
- 4 To select the setting switch number, press the top section of the Timer button (d). To select the setting position number, press the lower section of the Timer button (e).
- 5 Press the Program/Cancel button (f) once, to enter the setting.
 Result: The code display stops blinking and lights up.
- 6 Press the Inspection/Trial button (a) to return to normal mode.





NOTICE

Setting 18(28)-11 CANNOT be selected with this user interface.

List of settings

									ı	ſ		1
	15	I	1	I	I	I	I	I	1	I	I	I
	14	I	1		I	I	I	1	1	1	I	1
	13	1	1	ı	I	1	I	I	1	30°C	I	1
	12	1	1	ı	ı	I	I	I	1	29°C	1	1
	11	1	1	ı	I	ı	I	I	1	28°C	I	1
	10	1	1	ı	ı	ı	I	I	1	27°C	1	1
٠٥٠	60	1	1	ı	I	I	I	I	1	26°C	1	1
Setting position no.	80	1	1	ı	I	ı	I	I	1	25°C	I	1
Setting	07	I	I	ı	I	I	I	I	I	24°C	I	1
	90	-	I	I	I	I	duct	Low	I	23°C	I	I
	02	I	On after 8 hours	I	I	I	With duct	Stop	I	22°C	I	I
	04	1	On after 6 hours	I	I	I	rt duct	Low	1	21°C	1	90 minutes
	03	I	On after 4 hours	I	60 minutes	I	Without	Stop	I	20°C	I	60 minutes
	02	±1250 hours	On after 2 hours	O	45 minutes	Ultra- high	With duct	I	Ultra- high	19°C	Yes	30 minutes
	01	Approx. 2500 hours	Off	JJO	30 minutes	High	Without	T	High	18°C	No No	0 minutes
Setting	description	Filter cleaning time setting	Nighttime free cooling timer (after stop)	Pre-cool/pre- heat	Pre-cool/pre- heat duration	Initial fan speed	Yes/No setting for duct connection with VRV system	Setting for cold areas (fan operation when heater thermostat is off)	Nighttime free cooling (fan settings)	Target temperature for independent nighttime free cooling	Centralised zone interlock setting	Pre-heat time extension setting
Setting	switch no.	0	-	2	က	4	5		9		8	o
	mode	17(27)										

						1							
	15	I	I		I	1	1	1	I	I	I	I	
	14	I	I		I	1	I	I	I	I	I	I	
	13	I		ı	I				1	1	I	I	
	12	I	1	ı	I	1	1	I	I	I	I	I	
	11	I	1	ı	I	1	1	1	I	I	I	I	
	10	I	1	ı	I	I	1	1	I	I	I	I	
.01	60	I	I		I	I	1	1	I	I	I	I	
Setting position no.	80	Ι	I		I	1	1	1	I	I	I	1	
Setting	20	1	I	ı	I	1	1	1	1	rt (Low/ a-high)	24-hour ventilation output	I	
	90	24 hours ventilation On/Off	I	I	I	I	I	I	Air-flow up	Fan output (Low/ High/Ultra-high)	24-hour ventilation and operation output	I	
	05	1		ı	I	1	1		Fan forced off	Fan output (Ultra- high)		I	
	04	Disable nighttime free cooling / Forced stop	1	ı	Damper output (fan operation)	1	Fixed B	Indication exhaust	Forced off	Fan output (High/ Ultra- high)	output .		
	03	Priority on operation	1	I	Damper Damper output (fan (fan operation)	I	Fixed A	Indication supply	Error output stop operation	Fan output (Low/ High/ Ultra- high)	Operation output	Force filter check	
	02	Priority Pon on external input	O	O	l	Off	I	No indication exhaust	Error	Error		Reset filter check	
	01	Last	Off	JJO	I	nO	Linear	No indication supply	Fresh-up	Heater output	Operation	No action	
Setting	description	External signal C/J2 c	Setting for direct Power ON	Auto restart setting	Output signal to external damper (X24A)	Indication of ventilation mode	Automatic ventilation air flow mode	Fresh-up mode	External input terminal function selection (between J1 and JC)	BRP4A50A output switching selection (between X3 and X4)	(between X1 and X2)	Filter contamination check**	
Setting	switch no.								-				
Setting	mode							18(28)					

				8	15	15		80					
	15			Step 8	Step 15	Step 15		Step 8					I
	14	I		Step 7	Step 14	Step 14		Step 7	I	I		I	I
	13	1	_	Step 6	Step 13	Step 13		Step 6	1	1		I	ı
	12	1	Continuous operation	Step 5	Step 11 Step 12 Step 11 Step 12 Continuous operation Step 4 Step 5	Step 12	soperation	Step 5	I	1		I	I
	11	I	Sontinuous	Step 4		Step 4	1	I		I	ı		
	10	1)	Step 3	Step 10	Step 10		Step 3	I	I		I	I
no.	60	1		Step 2	Step 9	Step 9		Step 2	1	I		I	1
Setting position no.	80	1		Step 1	Step8	Step8		Step 1	1	I		I	I
Setting	07		Run 1/2	(15 min. off/15 min. on)	Step7	Step7	Run 1/2	(15 min. off/15 min. on)	009-	1		I	I
	90		Run 1/3	(20 min. off/10 min. on)	Step6	Step6	Run 1/3	(20 min. off/10 min. on)	400	I		I	ı
	02	Auto ESP selection + target detection filter with new fan step	Run 1/4	(22.5 min. off/7.5 min. on)	Step5	Step5	Run 1/4	(22.5 min. off/7.5 min. on)	-200	I		Control by CO ₂ sensor	1
	04	Target detection filter with fan step 1-15	Run 1/6	(25 min. off/5 min. on)	Step4	Step4	Run 1/6	(25 min. off/5 min. on)	009+	NOT	Heater operation	I	I
	03	Timer based check		(27 min. off/3 min. on)	Step3	Step3	_	(27 min. off/3 min. on)	+400	Allowed	Heater operation	I	I
	02	Filter contamination check with new fan step	Run 1/15	(28 min. off/2 min. on)	Step2	Step2	Run 1/15	(28 min. off/2 min. on)	+200	NOT	ДO	1	On
	01	Filter contam- ination check with fan step 1-15	Эff		Step1	Step1	ЭЩ		0	Allowed	ДO	T	Off
Setting	description	Filter contamination inspection setting	Low tap	setting	Supply fan step setting*	Exhaust fan step setting*	24-hour	ventilation setting	Reference concentration shift for ventilation air flow control (ppm)	Stop ventilation by automatic ventilation air flow control	Fan residual operation	Normal ventilation tap on automatic ventilation air flow control	Fresh-up operation **
Setting	switch no.	0	_		2	က	4			ω		O	0
Setting	mode	19(29)										41	

DAIKIN

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INFORMATION

- Factory settings are marked with grey backgrounds.
- (*) See the technical data book for pressure drop curves and selection of fan curves (step 1 to 15).
- (**) This setting CANNOT be done with BRC301B61
- The setting modes are mentioned as group settings. Between parentheses are the setting modes for individual unit control.
- Group number setting for centralised controller

Mode No. 00: Group controller

Mode No. 30: Individual controller

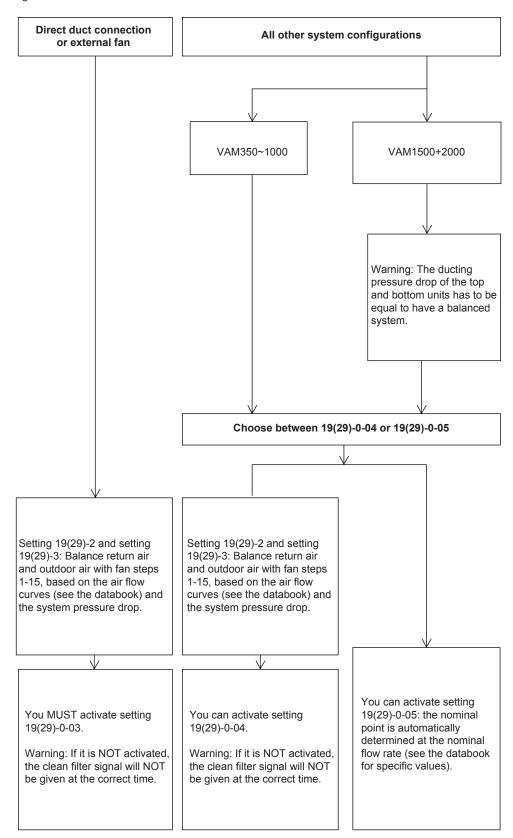
Regarding the setting procedure, see the section "Group number setting for centralised control" in the operating manual of either the on/off controller or the central controller.

Example

"02". To adjust the auto restart setting to 'on' in the group setting mode, enter mode No. "18", setting switch No. "2" and position No.

6.3 Settings for all configurations

Setting 17(27)-4: First choose the fan speed. Set it to high or ultra-high.



6.3.1 About setting 19(29)-0-04 and 19(29)-0-05

- When you have configured setting 19(29)-0-04 successfully, the system automatically changes it to setting 19(29)-0-01.
- When you have configured setting 19(29)-0-05 successfully, the system automatically changes it to setting 19(29)-0-02.



NOTICE

If you change the ducting, then install clean filters and reconfigure setting 19(29)-0-04 or 19(29)-0-05, otherwise the signal to clean the filters will come too soon. Do NOT adjust the dampers when setting 19(29)-0-04 or 05 is activated.

- If the user interface is switched off while you are activating setting 19(29)-0-04 or 19(29)-0-05, the configuration is aborted. When you switch the user interface back on, the function starts from the beginning.
- Setting 19(29)-0-04 takes between 1 and 6 minutes to complete.
 You can check if the setting was completed successfully by checking if the field setting is changed to 0-01.
- Setting 19(29)-0-05 takes between 3 and 35 minutes to complete.
 You can check if the setting was completed successfully by checking if the field setting is changed to 0-02.



NOTICE

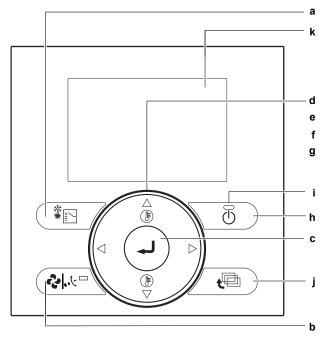
While activating setting 19(29)-0-04 and 19(29)-0-05, the unit is set to heat recovery and the fan is on high or ultra high. After the configuration, the unit is set back to what it was before the configuration.

- · You can ONLY activate these settings with clean filters.
- For VAM1500+VAM2000, make sure that the ducting pressure drop of the top and bottom units is balanced.
- The function starts as soon as it is selected and the user interface is on
- Setting 19(29)-0-04 CANNOT be configured if the outside temperature is ≤-10°C, which is out of the operation range.
- Setting 19(29)-0-05 CANNOT be configured if the outside temperature is ≤5°C. In this case error 65-03 is shown and the unit stops working. Change the setting to 19(29)-0-04.
- The setting CANNOT be configured if there are alerts or errors present.
- If booster fans are used, you can ONLY configure setting 19(29)-0-03.
- You can configure settings 19(29)-0-04 and 19(29)-0-05 for multiple units with 1 user interface.

6.4 About the user interface

6.4.1 User interface for VRV-system air conditioner

Please read the manual supplied with the user interface (BRC1E53) for more detailed instructions.



- a Operation Mode Selector button
- Fan Speed/Airflow Direction button
- c Menu/Enter button
- d Up button
 - Down button
 - f Right button
- Left button
- h ON/OFF button
- i Operation lamp
- j Cancel button
- k LCD (with backlight)

To change the ventilation rate

- 1 Press the Menu/Enter button to display the main menu.
- 2 Press the Up/Down buttons to select Ventilation and press the Menu/Enter button.



3 Press the Up/Down buttons to select Ventilation Rate and press the Menu/Enter button.



4 Press the Up/Down buttons to change the setting to Low or High and press the Menu/Enter button to confirm.



To select ventilation mode

Ventilation mode is used when cooling or heating is unnecessary, so only the heat reclaim ventilation units are operating.

1 Press the Operation Mode Selector button several times, until the ventilation mode is selected.



To change the ventilation mode

- 1 Press the Menu/Enter button to display the main menu.
- 2 Press the Up/Down buttons to select Ventilation and press the Menu/Enter button.

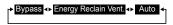


3 Press the Up/Down buttons to select Ventilation mode and press the Menu/Enter button.



4 Press the Up/Down buttons to select the required ventilation mode. For more information about ventilation modes, see Ventilation modes in the installer and user reference guide.





Ventilation modes

You can change the ventilation mode in the main menu.

Mode	Description
Auto mode	Using information from the air conditioner (cooling, heating, fan, and set temperature) and heat reclaim ventilation unit (indoor and outdoor temperatures), this mode automatically changes between Energy Reclaim Ventilation and Bypass mode.
Energy Reclaim Ventilation mode	The outdoor air is supplied to the room after passing through a heat exchange element, where heat is exchanged with the return air.
Bypass mode	The outdoor air bypasses the heat exchange element. This means that outdoor air is supplied to the room without heat exchange with the return air.

Time to clean filter indication

When it is time to clean the filters, the following message or icon shows at the bottom of the basic screen: Time to clean filter or \boxplus . Clean the filters. For more information, see "8 Maintenance and service" on page 24.

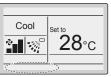


To remove the Time to clean filter indication

- 1 Press the Menu/Enter button.
- 2 Press the Up/Down buttons to select Reset Filter Indicator.
- 3 Press the Menu/Enter button.

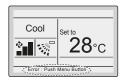
Result: You return to the basic screen. The Time to clean filter indication is no longer displayed.





About error indications

If an error occurs, there is an error icon in the basic screen and the operation lamp blinks. If a warning occurs, ONLY the error icon blinks and the operation lamp does NOT. Press the Menu/Enter button to display the error code or warning and contact information.



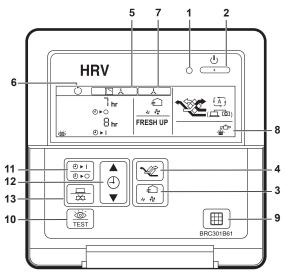


The error code blinks and the contact address and model name appear as shown below. In this case, notify your Daikin dealer about the error code.



6.4.2 User interface for heat reclaim ventilation

For non-independent systems, starting, stopping and setting a timer is NOT possible with this user interface (BRC301B61). In such cases, use the air conditioner user interface (BRC1E53) or the centralised controller.



1 Operation lamp

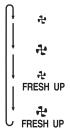
This red pilot lamp lights up while the unit is in operation.

2 Operation/Stop button

Press this button once and the unit starts to operate. Press this button again and the unit stops.

3 Air flow rate changeover button

Use this button to change the air flow to "+" Low, "+ High, "+ FRESH UP" Low Fresh-up, or "+ FRESH UP" High Fresh-up mode.



For "FRESH UP" operation

When this indication does NOT show, the volume of outdoor air supplied into the room and that of the return air exhausted outdoors is equal.

For "FRESH UP" operation

- If the Fresh-up setting is set to "Fresh up air supply": The
 volume of outdoor air supplied into the room is larger than
 that of return air exhausted outdoors. This prevents odours
 and moisture from kitchens and toilets from flowing into the
 room. This is the factory setting.
- If the Fresh-up setting is set to "Fresh up air exhaust": The volume of return air exhausted outdoors is larger than that of outdoor air supplied into the room. This prevents hospital odours and airborne microorganisms from flowing out of the room into the corridors.

To change this setting, see List of settings in the installer and user reference guide.

4 Ventilation mode changeover button:

"(点面)" Automatic mode

The unit's temperature sensor automatically changes the operation mode of the unit to Bypass mode and Heat Exchange mode.



In this mode, the air passes through the heat exchange element to effect Total Heat Exchanging ventilation.

" Bypass mode

In this mode, the air does NOT pass through the heat exchange element but bypasses it to effect Bypass ventilation

5 Indication of operation control method:

When the operation of heat reclaim ventilation units is linked to the air conditioners, this indication may be displayed. While this indication is displayed, the heat reclaim ventilation units CANNOT be turned on or off with the user interface of the heat reclaim ventilation.

6 Indication of operation standby:

This icon indicates that the unit is precooling/preheating. The unit's start-up is delayed until after precooling/preheating is finished.

Precooling/preheating means that the heat reclaim ventilation units are NOT started while linked air conditioners are starting up, for example, before office hours.

During this period, the cooling or heating load is reduced to bring the room temperature to the set temperature in a short time

7 Indication of centralised control:

When a user interface for air conditioners or devices for centralised control are connected to the heat reclaim ventilation units, this icon may be displayed.

While this indication is displayed, you may NOT be able to turn the heat reclaim ventilation units on or off, or use the timer function with the user interface of the heat reclaim ventilation unit

8 Indication of air filter cleaning

When the display shows " ", clean the air filter.

9 Filter signal reset button

10 Inspection button

ONLY use this button if the unit is being serviced.

Schedule timer button: ♠ ♥ ♥ This button enables or disables the schedule timer.

Time adjust button:

Programming button:

To set the timer

- 1 Press the Schedule timer button
- 2 Press the time adjust button to set the time.
- 3 Press the programming button to save the setting.

6.5 Detailed explanation of settings

6.5.1 About the carbon dioxide sensor

With the CO_2 (carbon dioxide) sensor installed, you can adjust the ventilation volume in function of measured CO_2 concentration. The measured concentration value is compared to programmed trigger values. Make sure that ventilation mode and air flow rate are set to automatic.

See "6.2 List of settings" on page 15 for the field setting overview.

- Use setting 19(29)-9-05 to give control to the CO₂ sensor.
- Use setting 19(29)-7 to shift the trigger values.
- Use setting 18(28)-6 to switch between linear and fixed control.

	Linear control	Fixed control
Initialising	20 minutes in high	20 minutes in high
Measuring	Every 5 minutes	Every 20 minutes
Judgement	Every 30 minutes (average of 6 measurements)	Every 20 minutes

Trigger	Linear control (minutes)			Fixed control	
value	UH	Н	L	Mode A	Mode B
CO ₂ ppm (1)					
≥1450	30	_	_	UH	UH
1300~1450	20	10	_	UH	UH

Trigger	Linea	ır control (ı	minutes)	Fixed control	
value	UH	Н	L	Mode A	Mode B
CO ₂ ppm (1)					
1150~1300	10	20	_	Н	Н
1000~1150	_	30	_	Н	Н
850~1000	_	20	10	Н	L
700~850	_	10	20	L	L
550~700	_	_	30	L	L
400~550	_	_	20	L	stop
0~400	_	_	10	L	stop

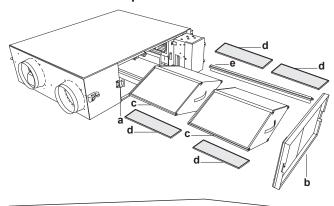
- CO₂ parts per million Ultra high
- (1) UH
- Н High
- Example

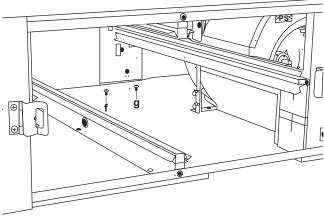
When the sensor measures 900 ppm in linear control, the unit runs in high mode for 20 minutes and the next 10 minutes in low mode, then measures again.

Essential wiring

See "5.5.2 Opening the switch box" on page 10 and the installation manual that is delivered with the CO₂ sensor.

To remove the components





- Hinge mechanism
- Service cover
- Heat exchange element
- Air filter
- Heat exchange element rail
- Screw 1 Screw 2
- Open the service cover hinge.
- Remove the service cover.
- 3 Remove the 2 heat exchange elements and the 4 air filters.
- Remove the screw from the right heat exchange element rail.

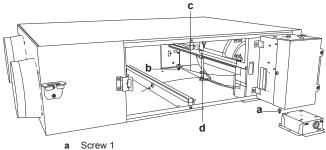
- 5 Remove the heat exchange element rail.
- Loosen screw 2, and remove screw 1.



INFORMATION

Use a crosshead screwdriver, that has a shank larger than 65 mm and a total length of less than 120 mm.

To install the carbon dioxide sensor

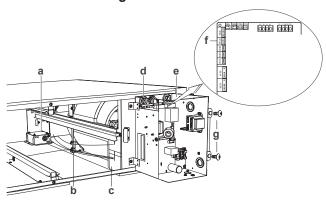


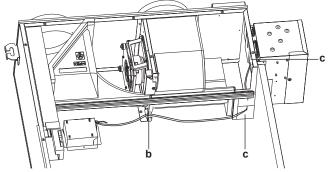
- b
- Screw 2
- Damper motor wire
- Clamp
- 1 Use the 2 screws to install the CO₂ sensor. See "To remove the components" on page 23 for details.



Make sure that the damper motor wire is NOT trapped under the kit.

To route the wiring of the carbon dioxide sensor





- CO₂ sensor
- Clamp
- Sealing material Bush
- Switch box X14A connector
- Screw
- Remove the screws of the switch box cover.
- Open the switch box.
- Follow the same path with the CO2 sensor wire as the damper switch (red) and thermistor (black) wires: through the bush inside the unit and through the left bush in the switch box.

7 Commissioning

- Firmly insert the CO₂ sensor wire into the X14A connector.
- Clamp the CO2 sensor wire together with the damper switch (red) and thermistor (black) wires inside the switch box.
- Cut the accompanying sealing material by following the slit. Stick each piece on top of the sealing material that is attached to the bushing, in order to seal the gap around the CO₂ sensor
- Bundle the excess CO2 sensor wire together with the damper switch (red) and thermistor (black) wires from the inside of the unit with the accompanying clamp.
- Cut off the excess edge of the clamp.



NOTICE

To install the heat exchanger rail correctly, the wire MUST be clamped.



NOTICE

When bundling the wires, make sure to open the control box completely.

To install the components

- Close the switch box cover.
- Install the components. Follow the reverse procedure of "To remove the components" on page 23.

Commissioning

After installation and once the field settings are defined, the installer is obliged to verify correct operation. Therefore a test run MUST be performed according to the procedures described below.

7.1 Precautions when commissioning



CAUTION

Do NOT perform the test operation while working on the indoor units, the outdoor unit or the heat reclaim ventilation units.

When performing the test operation, NOT only the unit to which the user interface is connected will operate, but all the units that are linked to this one as well. Working on an indoor unit or the heat reclaim ventilation unit while performing a test operation is dangerous.

7.2 Checklist before commissioning

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.

	You read the complete installation and operation instructions, as described in the installer and user reference guide .
П	Installation
]	Check that the unit is properly installed, to avoid abnormal noises and vibrations when starting up the unit.
	Field wiring
	Be sure that the field wiring has been carried out according to the instructions described in the chapter "5.5 Electrical wiring" on page 9, according to the wiring diagrams and according to the applicable legislation.
	Power supply voltage
	Check the power supply voltage on the local supply panel.

identification label of the unit.

	Earth wiring
	Be sure that the earth wires have been connected properly and that the earth terminals are tightened.
П	Insulation test of the main power circuit
	Using a megatester for 500 V, check that the insulation resistance of 2 M Ω or more is attained by applying a voltage of 500 V DC between power terminals and earth. NEVER use the megatester for the transmission wiring.
П	Fuses, circuit breakers, or protection devices
	Check that the fuses, circuit breakers, or the locally installed protection devices are of the size and type specified in the chapter "4.3 Preparing the electrical wiring" on page 6. Be sure that neither a fuse nor a protection device has been bypassed.
	Internal wiring
	Visually check the electrical component box and the inside of the unit on loose connections or damaged electrical components.
	Air inlet/outlet
	Check that the air inlet and outlet of the unit is NOT obstructed by paper sheets, cardboard, or any other material.
П	Installation date and field setting
	Be sure to keep record of the installation date on the sticker on the rear of the front panel according to EN60335-2-40 and keep record of the contents of the field setting(s).

7.3 Checklist during commissioning



7.3.1 About the test run

After completing the installation of the system, turn on the power of the heat reclaim ventilation units. Refer to the manual of the user interface of each unit (user interface for air conditioner, central control unit, etc.) for conducting a trial operation.

Maintenance and service



NOTICE

Maintenance MUST be done by an authorized installer or

We recommend performing maintenance at least once a year. However, applicable legislation might require shorter maintenance intervals.



We recommend to clean at least once every 2 years (for general office use). If necessary, shorter maintenance intervals might be required.



CAUTION

Before accessing, make sure to turn off the operation switch and disconnect the power.



CAUTION

During operation, NEVER check or clean the unit. It may cause electrical shock. Do NOT touch the rotating parts, it will cause injury.

8.1 Maintenance safety precautions

1

DANGER: RISK OF ELECTROCUTION



DANGER: RISK OF BURNING



NOTICE: Risk of electrostatic discharge

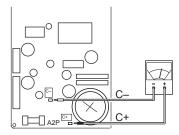
Before performing any maintenance or service work, touch a metal part of the unit in order to eliminate static electricity and to protect the PCB.

8.1.1 To prevent electrical hazards

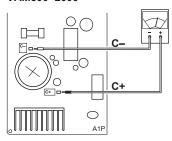
When performing service to inverter equipment:

- 1 Do NOT open the electrical component box cover for 10 minutes after the power supply is turned off.
- 2 Measure the voltage between terminals on the terminal block for power supply with a tester and confirm that the power supply is shut off. In addition, measure points as shown in the figure, with a tester and confirm that the voltage of the capacitor in the main circuit is less than 50 V DC.

VAM350~650



VAM800~2000



For details refer to the wiring diagram labelled on the outside of the service cover.

9 Troubleshooting

9.1 Precautions when troubleshooting



WARNING

- When carrying out an inspection on the switch box of the unit, ALWAYS make sure that the unit is disconnected from the mains. Turn off the respective circuit breaker.
- When a safety device was activated, stop the unit and find out why the safety device was activated before resetting it. NEVER bridge safety devices or change their values to a value other than the factory default setting. If you are unable to find the cause of the problem, call your dealer.



DANGER: RISK OF ELECTROCUTION



WARNING

Prevent hazards due to inadvertent resetting of the thermal cut-out: this appliance MUST NOT be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly turned ON and OFF by the utility.

9.2 Solving problems based on error codes

In case of a displayed malfunction code, consult the dealer where the unit was purchased.

9.2.1 Error codes: Overview

Malfunction code	Particular code	Description
A I		EEPROM failure
85		Locked rotor
<i>R</i> 5	22	Unstable fan rpm: failure of filter contamination check or failure of function 19(29)-0-04/-05
88		Power supply malfunction
RJ.		Capacity setting malfunction
[]		Fan communication error
£8		Malfunction of fan motor sensor or fan control driver
ЕН		CO ₂ sensor warning
US		Transmission error between the unit and user interface
U8		Transmission error between main user interface and sub user interface
UR		Wrong user interface installed
UΕ		Repeated central address
UE		Transmission error between the unit and centralised controller
50		External protection device activated
54	01	Indoor air thermistor (R1T) malfunction
54	02	Indoor air thermistor (R1T) out of operation range

10 Technical data

Malfunction code	Particular code	Description
<i>6</i> 5	01	Outdoor air thermistor (R2T) malfunction
<i>6</i> 5	02	Outdoor air thermistor (R2T) out of operation range
<i>6</i> 5	03	Functions 19(29)-0-04/-05 not possible due to low outdoor temperature operation
5 <i>R</i>		Damper-related malfunction
5 <i>R</i>		Damper-related malfunction+thermistor

In case of malfunction with the code on grey background, the unit still operates. However, make sure to have it inspected and repaired as soon as possible.

10 Technical data

- A subset of the latest technical data is available on the regional Daikin website (publicly accessible).
- The full set of latest technical data is available on the Daikin extranet (authentication required).

10.1 Wiring diagram: Heat reclaim ventilation unit

The wiring diagram is delivered with the unit, located on the outside of the service cover.

Legend for wiring diagrams:

A1P	Printed circuit board
A2P~A5P	Printed circuit board assy (fan)
C7	Capacitor (M1F)
F1U	Fuse (250 V, 6.3 A, T) (A1P)
HAP	Pilot lamp (service monitor - green)
K1R	Magnetic relay (A1P)
K2R	Magnetic relay (A1P)
L1R~L4R	Reactor
M1D	Motor (damper)
PS	Switching power supply
Q1DI	Field earth leak detector (≤300 mA)
R1T	Thermistor (indoor air)
R2T	Thermistor (outdoor air)
R3T	Thermistor (PTC)
S1C	Limit switch damper motor
V1R	Diode bridge
X1M	Terminal (A1P)
X2M	Terminal (outside input) (A1P)
ХЗМ	Terminal (power supply)
Z1C	Noise filter (ferrite core)
Z1F	Noise filter

User interface

SS1	Selector switch

Connector for option

X14A	Connector (CO ₂ sensor)
X24A	Connector (outside damper)
X33A	Connector (contact PCB)

X35A	Connector (power supply adapter PCB)

For VAM350~650

C1	Capacitor (A2P)
F2U	Fuse (250 V, 5 A, T) (A2P)
F4U	Fuse (250 V, 6.3 A, T) (A2P)
K1R	Magnetic relay (A2P)
M1F	Motor (supply air fan)
M2F	Motor (exhaust air fan)
Z2C	Noise filter (ferrite core)

For VAM800+VAM1000

F3U	Fuse (250 V, 6.3 A, T) (A2P+A3P)
M1F	Motor (exhaust air fan)
M2F	Motor (supply air fan)

For VAM1500+VAM2000

F3U	Fuse (250 V, 6.3 A, T) (A2P~A5P)
K5R	Magnetic relay (A1P)
M2D	Motor (damper)
M1F	Motor (exhaust air fan) (bottom)
M2F	Motor (supply air fan) (bottom)
M3F	Motor (exhaust air fan) (top)
M4F	Motor (supply air fan) (top)
S2C	Limit switch damper motor

Symbols:

	Field wiring
	Terminals
00, 7	Connectors
	Protective earth
_	Noiseless earth

Colours:

BLK	Black
BLU	Blue
BRN	Brown
GRN	Green
ORG	Orange
RED	Red
WHT	White
YLW	Yellow

For the user

11 **User interface**



CAUTION

NEVER touch the internal parts of the controller.

Do NOT remove the front panel. Some parts inside are dangerous to touch and appliance problems may happen. For checking and adjusting the internal parts, contact your

Detailed information on required actions to achieve certain functions can be found in the dedicated installation and operation manual of the indoor unit.

Refer to the operation manual of the installed user interface.

12 Maintenance and service



NOTICE

Maintenance MUST be done by an authorized installer or

We recommend performing maintenance at least once a year. However, applicable legislation might require shorter maintenance intervals.



NOTICE

We recommend to clean at least once every 2 years (for general office use). If necessary, shorter maintenance intervals might be required.



CAUTION

Before accessing, make sure to turn off the operation switch and disconnect the power.



CAUTION

During operation, NEVER check or clean the unit. It may cause electrical shock. Do NOT touch the rotating parts, it will cause injury.

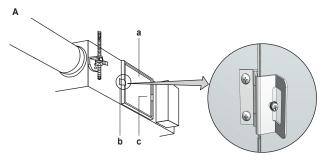
12.1 Maintenance of the air filter

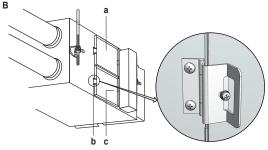


- Do NOT wash the air filter in hot water.
- . Do NOT dry the air filter over a fire.
- Do NOT subject the air filter to direct sunlight.
- Do NOT use organic solvent such as gasoline and thinner on the air filter.
- Make sure to install the air filter after servicing (missing) air filter causes clogged heat exchange element). Replacement air filters are available.

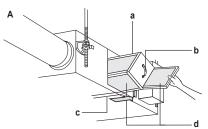
To clean the air filters

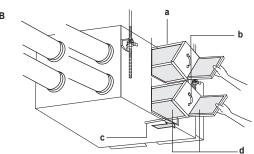
Go into the ceiling through the inspection hole, loosen the screw of the hinge mechanism (on the left side) to open the maintenance cover. Take the maintenance cover off by rotating it around the vertical axis of the hanging metal.



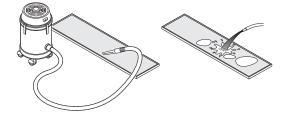


- Maintenance cover
- Hinge mechanism
- Hanging metal
- Models VAM350~1000 Models VAM1500+VAM2000
- Take out the air filters from the unit body.



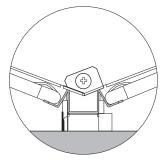


- Heat exchange element
 - Handle
- Rail Air filter
- Models VAM350~1000 Models VAM1500+VAM2000
- To clean the air filters, lightly pat it manually or remove dust with a vacuum cleaner. If excessively dirty, wash it in water.



13 Troubleshooting

- 4 If the air filters are washed, remove water completely and allow to dry for 20 to 30 minutes in the shade.
- 5 When dried completely, install the air filters back in place after the installation of the heat exchange elements. Make sure the air filters are orientated correctly, as shown in the figure.



6 Install the maintenance cover securely in place.

12.2 Maintenance of the heat exchange element

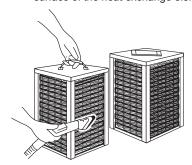


CAUTION

- NEVER wash the heat exchange element with water.
- NEVER touch the heat exchange paper because it can be damaged if it is forced.
- Do NOT crush the heat exchange element.

To clean the heat exchange element

- 1 Take out the heat exchange elements. Refer to "12.1 Maintenance of the air filter" on page 27.
- 2 Equip a vacuum cleaner with a brush on the tip of the suction nozzle.
- 3 Use the vacuum cleaner and lightly contact the brush on the surface of the heat exchange element to remove dust.



- 4 Put the heat exchange element on the rail and insert it securely in place.
- 5 Install the air filters securely in place.
- 6 Install the maintenance cover securely in place.

13 Troubleshooting

If one of the following malfunctions occur, take the measures shown below and contact your dealer.



WARNING

Stop operation and shut off the power if anything unusual occurs (burning smells etc.).

Leaving the unit running under such circumstances may cause breakage, electric shock or fire. Contact your dealer.

If the system does NOT properly operate, investigate the system according to the following procedures.

Malfunction	Measure
If the system does NOT operate at all.	 Check if there is no power failure. Wait until power is restored and restart operation.
	 Check if no fuse has blown or breaker is activated. Change the fuse or reset the breaker if necessary.
	 Check if the indication of operation control method on the user interface is shown. This is normal. Operate the unit using the air conditioner remote control or centralised controller. Refer to "6 Configuration" on page 13.
	Check if the indication of operation standby on the user interface is shown. It indicates the pre-cooling/pre-heating operation. This unit is at stop and will start operation after the precooling/ preheating operation is over. Refer to "6 Configuration" on page 13.
The amount of discharged air is small and the discharging sound is high.	 Check if the air filter and heat exchange element are NOT clogged. Refer to "12 Maintenance and service" on page 27.
The amount of discharged air is large and the discharging sound is high.	 Check if the air filter and heat exchange element are installed. Refer to "12 Maintenance and service" on page 27.



INFORMATION

The unit may not operate as requested due to a filter contamination check.

If after checking all above items, it is impossible to fix the problem yourself, contact your installer and state the symptoms, the complete model name of the unit (with manufacturing number if possible) and the installation date (possibly listed on the warranty card).

In case a malfunction code appears on the indoor unit user interface display, contact your installer and inform the malfunction code, the unit type, and serial number (you can find this information on the nameplate of the unit).

For your reference, a list with malfunction codes is provided. Refer to "Error codes: Overview" on page 25. You can, depending on the level of the malfunction code, reset the code by pushing the ON/OFF button. If NOT, ask your installer for advice.

14 Relocation

Contact your dealer for removing and reinstalling the total unit. Moving units requires technical expertise.

15 Disposal



DAIKIN

NOTICE

Do NOT try to dismantle the system yourself: the dismantling of the system MUST comply with applicable legislation. Units MUST be treated at a specialised treatment facility for reuse, recycling and recovery.











