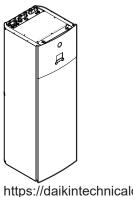


Installation manual

Daikin Altherma 3 R F



https://daikintechnicaldatahub.eu



EBVH11S18+23DJ6V EBVH11S18+23DJ9W

EBVH16S18+23DJ6V

EBVH16S18+23DJ9W

EBVX11S18+23DJ6V

EBVX11S18+23DJ9W EBVX16S18+23DJ6V

EBVX16S18+23DJ9W

KONFORMITÄTSERKLÄRUNG DECLARATION-DE-CONFORMITE CONFORMITEITSVERKLARING

.

DECLARACION-DE-CONFORMIDAD DICHIARAZIONE-DI-CONFORMITA ΔΗΛΩΣΗ ΣΎΜΜΟΡΦΩΣΗΣ

CE - DECLARAÇÃO-DE-CONFORMIDADE CE - 3ARBIJEHИE-O-COO TBETCTBИИ CE - OVERENSSTEMMELSESERKLÆRING CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE

ERKLÆRING OM-SAMSVAR ILMOITUS-YHDENMUKAISUUDESTA PROHLÁŠENÍ-O-SHODĚ 999

CE - IZJAVA-O-USKLAĐENOSTI CE - MEGFELELÓSEGI-NYILATKOZAT CE - DEKLARACJA-ZGODNO ŚCI CE - DECLARA ŢIE-DE-CONFORMITATE

CE - IZJAVA O SKLADNOSTI CE - VASTAVUSDEKLARATSIOON CE - ĄEKTIAPAĻIMЯ-3A-CЪOTBETCTBME

CE - ATITIKTIES-DEKLARACIJA CE - ATBILSTĪBAS-DEKLARĀCIJA CE - VYHLĀSENIE-ZHODY CE - UYGUNLUK-BEYANI

Daikin Europe N.V.

declares under its sole responsibility that the equipment to which this declaration relates: erklärt auf seine alleinige Verantwortung daß die Ausrüstung für die diese Erklärung bestimmt ist:

déclare sous sa seule responsabilité que l'équipement visé par la présente déclaration:

verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de apparatuur waarop deze verklaring betretking heeft: declara bajo su única responsabilidad que el equipo al que hace referencia la declaración:

dichiara sotto la propria responsabilità che gli apparecchi a cui è riferita questa dichiarazione. Orplove pie cmookscrinkij mic sublovin din o stomkopióc crov omote oroagépara n mapoulora diplovani, declara sob sua exclusiva responsabilitada que os equipamentos a que esta declaração se referer.

deklarerari egenskap av huvudansvärg, att utrushingen som berörs av demra deklaration innebär att: erklærer et fullstendig ansvar for at det utstyr som berøres av deme deklarasjon innebærer at: Innotitaa yksinomaan omala vastuulaan, että fämän linnotuksen barkotitamat latteet prohlastiję ve svė iprilė odpovlėdnosti, že zalizeni, k nėmuž se tolo prohlaseni vzbiulje: zjavlijuje pod isključivo vlastitom odgonomošcu de oprema na koju se ova izjana odnosi: teljes felefossėge tudatiban kjelenti, hogy a berendezėsek, melyekre e nylatkozat vonatkozik.

заявляет, исилочительно под свою ответственность, что оборудование, к которому относится настоящее заявление: erkiaerer under eneansvarig, at udstyret, som er omfattet af denne erkiaering:

11 (2b. dekaruje na wkaną i wykazną odpowiadzianóść, że urządzenią, których ta dekaraja dotyczy.
18 (8b. debata pe propter disputniche ce ad chipmenhe le stare se neleńa zaseża de decharje:
18 (8b. z. vso odgownosto) cypena narazy na kaleno se zjąza naraska.
18 (8b. z. vso odgownosto) cypena narazy na kaleno se zjąza naraska.
18 (8b. prarapyna na caso noropokor, v elodogopateno, za wo oce o maza narazy parapagus;
18 (8b. prarapyna na caso noropokor, v elodogopateno, za wo oce o maza nara parapagus;
18 (8b. prarapyna na skomyte skelaj kad jang, kuria i hakora ść ekkarzją.
18 (9b. prarapyna na skomyte skelaj kad jang, kuria i hakora ść ekkarzją.
18 (9b. praka) na skomyte skelaj kad jang, kuria i hakora ść ekkarzją.
18 (9b. praka) na kastu zopowednost, że zadażene, na któré sa rzabuje oby wylażene.
18 (9b. praka) na pad pozpowednost, że zadażene, na któré sa rzabuje oby wylażene.
18 (9b. praka) na pozpowednost, że zadażene, na któré sa rzabuje dogonamnem spajdaki giżi ddużunu beyan eder.

EBVH16S18DJ6V, EBVH16S18DJ9W, EBVH16S23DJ6V, EBVH16S23DJ9W, EBVH11S18DJ6V, EBVH11S18DJ9W, EBVH11S23DJ6V, EBVH11S23DJ9W EBVX11S18DJ6V, EBVX11S18DJ9W, EBVX11S23DJ6V, EBVX11S23DJ9W, EBVX16S18DJ6V, EBVX16S18DJ9W, EBVX16S23DJ6V, EBVX16S23DJ9W

documento(s) normativo(s), siempre que sean utilizados de acuerdo con 05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our

gemäß unseren Anweisungen eingesetzt werden:

pour autant qu'ils soient utilisées conformément à nos instructions: conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worder gebruikt overeenkomstig 08 sont conformes à la/aux norme(s) ou autre(s) document(s) normatif(s),

 είναι στώφωνα με το(α) ακόλουθο(α) πρότυπο(α) ή άλλο έγγραφο(α) κανονισμών, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας: Inspectories deriben Nom(en) oder einem anderen Normdokument oder • 06 sonoconformi ali() seguentel() standard(s) o attro(), documento() a dokumenten entspricht ents nuestras instrucciones: istruzioni

documento(s) normativo(s), desde que estes sejam utilizados de acordo estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) com as nossas instruções:

09 соответствуют следующим стандартам или другим нормативным retningsgivende dokument(er), forudsat at disse anvendes i henhold til vo e instrukser.

11 respektive ukstrung a utförd i överensstämmelse med och
(c) föler fölande standar och eller andra normpkande obkument, under
förutsättning att användning sker i överensstämmelse med vara документам, при условии их использования согласно нашим 10 overholder følgende standard(er) eller andet/andre instruktioner

12 respektive utstyr er i overensstemmelse med følgende standard(er) eller 17 spelniają wymogi następujących norm i innych dokumentów

13 vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien 18 sunt în conformitate cu următorul (următoarele) standard(e) sau atī(e) 14. za pedokut, žeja vydžány v sadadu srátnijekyny, odpoválej odnomentke), ou condija ca acesie sá fe utličzen h raz pedokatu, žeja vydžány v sadadu srátnijekyny, odpoválej ounomenteu u stavlopim nemser.

19. skadu sa se ljecekim sadadnom mila odkomentum.

19. skadu za se sljecekim sadadnom mila odkomentum.

19. skadu za se sljecekim sadadnom mila ji dugim nomratkvim pogojem od se se uporbálegy v skadu z namim na oddi: obnomentom mila zu vjet da se on korste s kadu za od on vastavse si grandjele sa zadavlový (k) prk v sagy syjeb si stavlovím od on vastavse si on vastavse se vstavat me se juhendlele.

16. regelelenek za atkol z zadavny (c) prk v sagy syjeb si stavlovím od on vastavse se on vastavse se vstavat me se juhendlele. andre normgivende dokument(er), under forutssetning av at disse brukes dokumentum(ok)nak, ha azokat előírás szerint használják: i henhold til våre instrukser:

normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi

21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите 22 atitinka žemiau nurodytus standartus ir (arba) kitus norminius

normativnym(i) dokumentom(ami), za predpokladu, že sa používajú v dokumentus su salyga, kad yra naudojami pagal mūsų nurodymus; 23 tad, ja lietoti atbilstoši ražodāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem; 24 sú v zhode s nasledovnou(ými) normou(ami) alebo iným(i) súlade s našim návodom:

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

EN60335-2-40

 under iagttagelse af bestemmelserne i:
 enigt villkoren i:
 gitt i henhold til bestemmelsene i:
 noudattaen määräyksiä: 10 under iagtagates et bestemmelserne ir 11 angfulkoveri. 12 gift ihenhold til bestemmelsene ir 18 noudatteen määräyksär. 14 za dordzent ussanoveri pitelpisu: 16 prema orderdarna. 16 kövelt al.; 17 zgodnie z postanoveniami Dyrektyv: 18 in unma prevederior. following the provisions of:
 gemaß den Vorschriften der:
 conformément aux stipulations des: overeenkomstig de bepalingen van: siguiendo las disposiciones de: με τήρηση των διατάξεων των: de acordo com o previsto em: secondo le prescrizioni per:

19 ob upošlevanju določit:
20 osavaleni finojelele:
21 oreppalivu krajavne + era:
22 lakanits nuostalu, peterkiamų:
23 avėtoloj prasibas, kas noteklas:
24 održavaju ustanovenia:
25 buruni ksyllama ulygun oletak:

11 * enigri <A> och godkänts av enigr Centrifkatet <C>
** i enigriet med den Tekniskla Konstruktionsfilen <A> som positivt intygals
av <E> (Fastsatt modul <P> <G>> Riskkategori <A> Se även nästa Certificate <.>
I Certificate <.>
I Sentinate <.

06 * delineato nel <A> e giudicato positivamente da secondo

01 * as set out in < A> and judged positively by according to the

в соответствии с положениями:

riferimento anche alla pagina successiva.

** wie in der Technischen Konstruktionsakte <D> autgeführt und von <E> (Angewandtes Modul <F>) positiv ausgezeichnet <G>. Risikoart <H>.

03*1

wie in <A> aufgeführt und von positiv beurteilt gemäß

05

** tel que stipulé dans le Fichier de Construction Technique <D> et jugé positivement par <E> (Module appliqué <F>) <G> Catégorie de risque 04* zoals vermeld in <A> en positief beoordeeld door overeenkomstig

ing ge Sertificat ΦΣ

** som det fremformer i den Teknisk ekonstulksjonsflen ΦD og gemom

** Som det fremformer i den Teknisk ekonstulksjonsflen ΦD og gemom

** Som det fremformer i den Teknisk ekonstulksjonsflen ΦD og gemom

** Som det fremformer i den Teknisk ekonstulksjonsflen ΦD i pzzytywną

** Som det fremformer i den Teknisk ekonstulksjonsflen ΦD i pzzytywną

** Som det fremformer i den Teknisk ekonstulksjonsflen ΦD i pzzytywną

** Som det fremformer i den Teknisk ekonstulkcyjną ΦD i pzzytywną

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** Som det fremformer i den Teknisk ekonstulkcyjną ΦD i pzzytywną

** Som det fremformer i den Teknisk ekonstulkcyjną ΦD i pzzytywną

** Som det fremformer i den Teknisk ekonstulkcyjną

** Som det fremformer i den Teknisk ekonstulkcyjny sida. 12 * som det fremkommer i <A> og gjennom positiv bedømmelse av όπως καθορίζεται στο <Α> και κρίνεται θετικά από το <Β> σύμφωνα με το Πιστοποιητικό <C>.

To un order the control of the cont

** jak bylo uvedeno v souboru technické konstrukce «D» a pozitivně zjášéno «E» (použítý modul. «P»). «B». Kalegorie rizik «H». V E také naskedující stana.

§5 * kako je bůženo u «A» j pozitivno ocjenjeno od strane «B» prema Certifikatu «C». s osvědčením <C> этствии с положительным решением <В> ** как указано в Досье технического топкования <D> и в соответствии

19* kot je določeno v <A> in odobreno s strani v skladu

s certifikatom <C>

* kako je zbožen u Datoteci o ehničkoj konstrukciji 🗘 j pozitivno ocijenjeno od stane 🗲 (Primijenjen modul 🗗). Q. Kategorija opasnosti 1b. Također pogledajte na siljedećoj stranici.

10 * som anført i 4A- og positivt vurdeter af i henhold til Certifikar <C> ** som anført i den Tekniske Konstruktionsfil <D> og positivt vurderet af <E> (Anvendt modul <P>) <G>. Riskoklasse <4P>. Se også næste side.

** tal como se expone en el Archivo de Construcción Técnica <D> y juzgado positivamento por <E> (Modulo aplicado <F>). <G>. Categoría

de riesgo <H>. Consulte también la siguiente página.

05 * como se establece en <A> y es valorado positivamente por ** Zoals vermeld in het Technisch Constructiedossier CP> en in orde bevonden door CF (Toegepaste module CF) CF)

de acuerdo con el Certificado <C>.

Risicocategorie < H> Zie ook de volgende pagina.

(Прикладной модуль <P>). <G>. Категория риска <H>. Также

смотрите следующую страницу.

с положительным решением <Е> согласно Свидетельству <С>.

09 * как указано в <A> и в соотв

Direktiver, med senere ændringer. Direktiv, med foretagna ändringar. Direktiver, med foretatte endringar. Direktivejä, sellaisina kuin ne ovat muulettuina.

01 Directhes, as amender.
02 Directhes, as amender.
03 Directhes, also Achdening.
03 Directhes, lelles que modifiess.
04 Richtlijnen, zoals geamendeerd.
05 Directhes, seguit he emmedato.
06 Directhes, come da modifica.
07 Ostyluvi, virus, groun richtens, confurme allengde em.
09 Directhes, confurme allengde em.

*

Electromagnetic Compatibility 2014/30/EU

Pressure Equipment 2014/68/EU

Low Voltage 2014/35/EU

v platném znění. Smjemice, kako je izmijenjeno. z późniejszymi poprawkami.

18. Directivied; cu amendamentele respective.
19. Direktive v sent sperembani.
20. Direktive v sent sperembani.
21. Dippermissi promotine seguenti irányelv(ek) és módosításaik rendelkezéseit.

szeint.

"a (2) CP mūszai konstrukcišs dakumentáció alagján, a(2) <В jazotla "кало е залжено в Анта за темическа конструция Ф> и оценено а перебене́ц (аlkalmazott modu; <Р>, <О> Veszélyesség kategória попомително т Ф> Припомен мидул <Р>, G> Katercpus рисх <P>- Lásd még a köretkező oldabon. 16* a(z) <A> alapján, a(z) igazolta a megfelelést, a(z) <C> tanústivány 21 * както е изложено в <A> и оценено положително от съгласно 22 * kaip nustatyta <A> ir kaip teigiamai nuspręsta pagal

Sertifikata <C>

18* aga cum este stabilit în 44> şi apredat pozitiv de 48> în conformitate cu 23 * tâi noâdrîs 44> un abil stois 48> pozifivajam vêskraja ar senffitiatu 40.>
ar s ** kaip nurodyta Techninēje konstrukcijos bytoje ir patvirtinta (taikomas modulis). Rizikos kategorija > 1 zip pat žiūrėkite il taikomas modulis > 1 zip pat ziūrėkite il taikomas modulis > 1 zip pat ziūrėkite il taikomas modulis > 1 zip pat ziūrėkite il taikomas zip > 1 zip zip kita puslapi.

" kot je določeno v tehnični mapi ΦD in odobreno s stari ←D (Uporabljen " ako je to stanovené v Súbore techničkej konštrukcie <Da a kadne modul ←P). <Gb. Kdegonja tveganja <Pb. Clejte tudi na nasketnji posiderié <D: Aplikovaný modul ←P). <Gb. Kdegória nebezpečia <Pt>. 24 * ako bolo uvedené v <A> a pozitívne zistené v súlade s osvedčením <C>

strant. 20 * rogu on näitatud obkumendis 4⊅ ja heaks kiidetud 49> järgi vastavatt 25 * 4⊅*da betirtidigi gibti ve C⊅ sertifikasuna göre 4⊅ tarafından olumlu sertifikaadile 4⊅. olarak değerlendirildiği gibi. "Op silve ve Eb tarafından "-Op Felixik Yapı Dosyasında berildiği gibi ve «Eb tarafından olumlu olarak (Uygulanan modül ref>) değerlendiriniştir. <6>- Risk Rategorisi <4>- Ayrıca bir sonnalı saylayı alakın. ** nagu on näidatud tehnilises dokumentatsioonis <D> ja heaks kiidetud <E> järgi (lisamoodul <F>) <G>. Riskikategooria <H> Vaadake ka

<A> DAIKIN.TCF.034.B4/05-2021 <E> VINÇOTTE nv (NB0026) <C> 2192529.0551-EMC <D> Daikin.TCFP.0184L DEKRA (NB0344) ₹ 1 I 는 숙 ŝ

DAIKIN EUROPE N.V.

Zandvoordestraat 300, B-8400 Oostende, Belgium

Ostend, 1st of September 2021

Hiromitsu Iwasaki

Director

CE - ATTIKTIES-DEKLARACIJA CE - ATBILSTIBAS-DEKLARACIJA CE - UYHL ÁSENIE-ZHODY CE - UYGUNI, UK-BEYANI	22 © ankstenio pusląpio tęsinys. 23 © poptokadęsia tąpuzes tupniajums: 24 © pokradowanie z predodaźzajúcej stany: 25 ® ôrceki sayfadan derem:	Deklaratskoni alla kuuluvate mudelite disanispetsifikatsioonid: Tpoekrivu cneuvdpuratuu va wogenirre, sa koviro ce ornacsa peurapauysra: Onscriukcines spoefifikacijos modeliu, kurie susije ga kii adeklaracija: To modelu cizania spoefifikacijas, uz kuria nattecas ši deklaracija: Konstrukcis spoefifikacije modelu, krotefo sa tijka tobo vyhlasenie: Bu bildirini ilgili odugu modellerin Tasarim Ozellikleri;	24 · Nazimálny povolený fak (PS) · 4K+ (bar) · Niminálna/mazimálna polodené legide (TS): · Nazimálna reploja na mizodakovej sírane. <-> (°C) · TSmiru Mimálna reploja na mizodakovej sírane. <-> (°C) · TSmiru Mimálna reploja na mizodakovej sírane. <-> (°C) · TSmiru Disk vykoby, náden na vyhoby na dela na vyhoby náden náden na vyhoby na v	24 Názov a adresa cerfilkačného úradu, ktorý kladne posloli zhodu so smerricou pre laktové zaradenia: 42 25 Basınçi Teçhraz Dir eklifine uygunik hususunda olumlu darak degellendren Onaylamniş kruluşun adı ve adresi: 42 42> VINÇOTTE nv Jan Olies lagersiaan 35 1800 Vilvoorde, Belgium
CE - IZJAVA O SKLADNOSTI CE - VASTAVUSDEKLARATSOON CE - ДЕКЛАРАЦИЯ-ЗА-СЪОТВЕТСТВИЕ	19 © nadaļevarje s preišnje strani: 20 © edmas lehtkuļe jarg. 21 © продълженне от предходнета страница:	នុសន្លប់	19. Nieksmathi dovoljeni itak (PS); (4P (par)) Mirmalariantakimalna dovoljena tentpeatura (TS); Mirmalariantakimalna dovoljena tentpeatura (TS); TSmr. Masična tentpeatura na nižodiodni sirani (**) TSmr. Masična tentpeatura na nižodiodni sirani (**) Masična tentpeatura na nižodiodni sirani (**) Hadvo; Ab. Na Masimale lemastranaria bubatul tentpeaturu (TS); Mirmalariantakimaria bubatul surve (PS); (**) Mirmalariantakimaria surve (PS); (**) Mirmalariantakimaria surve (PS); (**) Masimaria bubatul surve (PS); (**) Mirmalarianta (Ab); (**) Surve tuncesadne seadistis. **) Surve tuncesadne seadistis. (**) (**) Mirmalarianto (Ab); (**) <	19 Ime in maskov organa za ugotavljanje skladnosti, ki je pozitivno ozenil zarlužijivost 2 Direktivo o laśni oprem: Q> Zarlužijivost 2 Direktivo o laśni oprem: Q> Tevnielu organi, mis hadzas sk. buveseadmele Direktinga ühladuvust positivosti, imili a adizes sk. Q> 21 Hauwenceanew a aguer sk. Portovokouciewno opraw, córno ce e prokrawcoma oprosupokonemo onoono oceawerowocrna o prokrawcom onoono oceawerowocrna c Oproprime on pramirawe: Q> Zakskórogos institucijos, kuri draw lejajama sprendrimą pagala slėginės jangsos stretukojos, kuri draw lejajama sprendrimą pagala slėginės jangsos triektyvą pavadnimas ir adressa: COP Spedena lekártu Direktiva, rosaukums un adresse: Q> adresse: Q>
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Zandvoordestraat 300, B-8400 Oostende, Belgium DAIKIN EUROPE N.V.

Hiromitsu Iwasaki Ostend, 1st of September 2021

Director

DAIKIN

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Weather-dependent curve.....

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 Business Portal (authentication required).

Online tools

In addition to the documentation set, some online tools are available for installers:

Daikin Technical Data Hub

- Central hub for technical specifications of the unit, useful tools, digital resources, and more.
- Publicly accessible via https://daikintechnicaldatahub.eu.

Heating Solutions Navigator

- Digital toolbox that offers a variety of tools to facilitate the installation and configuration of heating systems.
- To access Heating Solutions Navigator, registration to the Stand By Me platform is required. For more information, see https://professional.standbyme.daikin.eu.

· Daikin e-Care

- Mobile app for installers and service technicians that allows you to register, configure and troubleshoot heating systems.
- The mobile app can be downloaded for iOS and Android devices using the QR codes below. Registration to the Stand By Me platform is required to access the app.

App Store

Google Play





2 Specific installer safety instructions

Always observe the following safety instructions and regulations.

Installation site (see "4.1 Preparing the installation site" [▶ 6])



WARNING

The appliance shall be stored in a room without continuously operating ignition sources (example: open flames, an operating gas appliance or an operating electric heater).



WARNING

DO NOT reuse refrigerant piping that has been used with any other refrigerant. Replace the refrigerant pipes or clean thoroughly.



WARNING

Follow the service space dimensions in this manual for correct installation of the unit. See "4.1.1 Installation site requirements of the indoor unit" [> 7].

Special requirements for R32 (see "4.1.2 Special requirements for R32 units" [> 7])



WARNING

- Do NOT pierce or burn.
- Do NOT use means to accelerate the defrosting process or to clean the equipment, other than those recommended by the manufacturer.
- Be aware that R32 refrigerant does NOT contain an odour.



WARNING

The appliance shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (example: open flames, an operating gas appliance or an operating electric heater).



WARNING

Make sure installation, servicing, maintenance and repair comply with instructions from Daikin and with applicable legislation and are executed ONLY by authorised persons.

Opening and closing the unit (see "4.2 Opening and closing the unit" [> 13])



DANGER: RISK OF ELECTROCUTION



DANGER: RISK OF BURNING/SCALDING

Mounting the indoor unit (see "4.3 Mounting the indoor unit" [▶ 14])



WARNING

Fixing method of the indoor unit MUST be in accordance with the instructions from this manual. See "4.3 Mounting the indoor unit" [• 14].

Piping installation (see "5 Piping installation" [▶ 15])



WARNING

WARNING

Field piping method MUST be in accordance with the instructions from this manual. See "5 Piping installation" [> 15].

Electrical installation (see "6 Electrical installation" [▶ 17])



DANGER: RISK OF ELECTROCUTION



Electrical wiring connection method MUST be in accordance with the instructions from:

- This manual. See "6 Electrical installation" [▶ 17].
- The wiring diagram, which is delivered with the unit, located on the inside of the indoor unit switch box cover. For a translation of its legend, see "10.2 Wiring diagram: Indoor unit" [> 41].



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-site and all electrical construction MUST comply with the applicable legislation.

(11+16S18+23DJ

3 About the box



WARNING

If the supply cord is damaged, it MUST be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.



WARNING

ALWAYS use multicore cable for power supply cables.



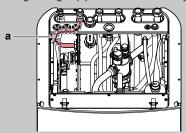
CAUTION

Do NOT push or place redundant cable length in the unit.



WARNING

Make sure that the electrical wiring does NOT touch the refrigerant gas pipe, which can be very hot.



a Refrigerant gas pipe



WARNING

The backup heater MUST have a dedicated power supply and MUST be protected by the safety devices required by the applicable legislation.



CAUTION

To guarantee the unit is completely earthed, ALWAYS connect the backup heater power supply and the earth cable.



INFORMATION

Details of type and rating of fuses, or rating of circuit breakers are described in "6 Electrical installation" [▶ 17].

Commissioning (see "8 Commissioning" [> 37])



WARNING

Commissioning method MUST be in accordance with the instructions from this manual. See "8 Commissioning" [> 37].



WARNING

Air purging heat emitters or collectors. Before you purge air from heat emitters or collectors, check if \bigcirc or \bigcirc is displayed on the home screen of the user interface.

- If not, you can purge air immediately.
- If yes, make sure that the room where you want to purge air is sufficiently ventilated. Reason: Refrigerant might leak into the water circuit, and subsequently into the room when you purge air from the heat emitters or collectors.

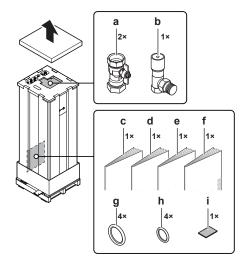
3 About the box

3.1 Indoor unit

 At delivery, the unit MUST be checked for damage. Any damage MUST be reported immediately to the claims agent of the carrier.

- Bring the packed unit as close as possible to its final installation position to prevent damage during transport.
- Unpack the indoor unit completely according to the instructions mentioned on the unpacking instructions sheet.

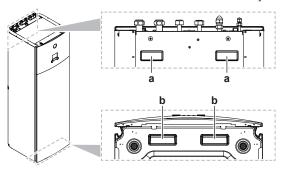
3.1.1 To remove the accessories from the indoor unit



- a Shut-off valves for water circuit
- **b** Overpressure bypass valve
- c General safety precautions
- d Addendum book for optional equipment
- e Indoor unit installation manual
- f Operation manual
- g Sealing rings for shut-off valves (space heating water circuit)
- h Sealing rings for field-supplied shut-off valves (domestic hot water circuit)
- i Sealing tape for low voltage wiring intake

3.1.2 To handle the indoor unit

Use the handles at the back and at the bottom to carry the unit.



- a Handles at the back of the unit
- b Handles at the bottom of the unit. Carefully tilt the unit to the back so that the handles become visible.

4 Unit installation

4.1 Preparing the installation site



WARNING

The appliance shall be stored in a room without continuously operating ignition sources (example: open flames, an operating gas appliance or an operating electric heater).



WARNING

DO NOT reuse refrigerant piping that has been used with any other refrigerant. Replace the refrigerant pipes or clean thoroughly.

4.1.1 Installation site requirements of the indoor unit

 The indoor unit is designed for indoor installation only and for the following ambient temperatures:

Space heating operation: 5~30°C

Space cooling operation: 5~35°C

Domestic hot water production: 5~35°C



INFORMATION

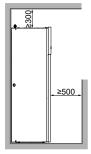
Cooling is only applicable in case of:

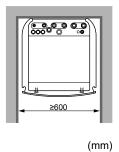
- Reversible models
- Heating only models + conversion kit (EKHVCONV*)
- Mind the following measurements guidelines:

Maximum refrigerant piping length ^(a) between indoor unit and outdoor unit	50 m
Minimum refrigerant piping length ^(a) between indoor unit and outdoor unit	3 m
Maximum height difference between indoor unit and outdoor unit	30 m

(a) Refrigerant piping length is the one-way length of liquid piping.

• Mind the following spacing installation guidelines:







INFORMATION

If you have limited installation space, do the following before installing the unit in its final position: "4.3.2 To connect the drain hose to the drain" [> 15]. It requires to remove one or both side panels.

4.1.2 Special requirements for R32 units

Because the total refrigerant charge in the system is ≥1.84 kg, the room where you install the indoor unit must comply with the conditions described in "4.1.3 Installation patterns" [▶ 8].



WARNING

- Do NOT pierce or burn.
- Do NOT use means to accelerate the defrosting process or to clean the equipment, other than those recommended by the manufacturer.
- Be aware that R32 refrigerant does NOT contain an odour.



WARNING

The appliance shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (example: open flames, an operating gas appliance or an operating electric heater) and have a room size as specified below.



NOTICE

- Do NOT re-use joints and copper gaskets which have been used already.
- Joints made in installation between parts of refrigerant system shall be accessible for maintenance purposes.



WARNING

Make sure installation, servicing, maintenance and repair comply with instructions from Daikin and with applicable legislation and are executed ONLY by authorised persons.



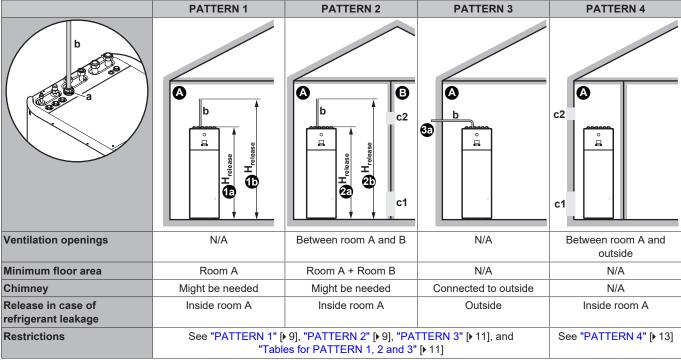
NOTICE

- Pipework shall be protected from physical damage.
- Installation of pipework shall be kept to a minimum.

4.1.3 Installation patterns

Depending on the type of room in which you install the indoor unit, different installation patterns are allowed:

Room type	Allowed patterns
Living room, kitchen, garage, attic, basement, storage room	1, 2, 3
Technical room (i.e. room that is NEVER occupied by persons)	1, 2, 3, 4



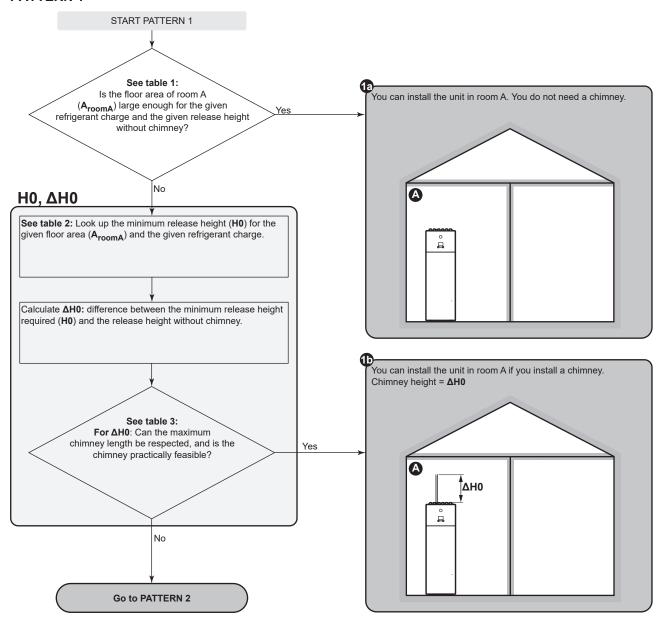
A	Room A (= room where indoor unit is installed)						
3	Room B (= adjacent room)						
а	If no chimney is installed, this is the default point of release in case of refrigerant leakage.						
	If needed, you can connect a chimney here:						
	 Unit's connection point for the chimney = 1" male thread. Use a compatible counterpart for the chimney. 						
	Make sure the connection is airtight.						
b	Chimney						
с1	Bottom opening for natural ventilation						
c2	Top opening for natural ventilation						
H _{release}	Actual release height:						
	(1949: Without chimney. From floor to top of the unit.						
	• For 180 I units => H _{release} =1.66 m						
	For 230 I units => H _{release} =1.86 m						
	100: With chimney. From floor to top of the chimney.						
	• For 180 I units => H _{release} =1.66 m + Chimney height						
	• For 230 I units => H _{release} =1.86 m + Chimney height						
33	Installation with chimney connected to the outside. The release height is not relevant. There are no requirements to the minimum floor area.						
N/A	Not applicable						

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Minimum floor area / Release height:

- The minimum floor area requirements depend on the release height of the refrigerant in case of a leakage. The higher the release height, the lower the minimum floor area requirements.
- The default point of release (without chimney) is at the top of the unit. To decrease the minimum floor area requirements, you can increase the release height by installing a chimney. If the chimney leads outside of the building, there are no requirements anymore to the minimum floor area.
- You can also take advantage of the floor area of the adjacent room (= room B) by providing ventilation openings between the two rooms.
- For installations in technical rooms (i.e. room that is NEVER occupied by persons), additionally to patterns 1, 2 and 3, you can also use PATTERN 4. For this pattern there are no requirements to the minimum floor area if you provide 2 openings (one at the bottom, one at the top) between the room and the outside to ensure natural ventilation. The room must be protected from frost.

PATTERN 1



PATTERN 2

PATTERN 2: Conditions ventilation openings

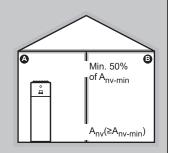
If you want to take advantage of the floor area of the adjacent room, you must provide 2 openings (one at the bottom, one at the top) between the rooms to ensure natural ventilation. The openings must comply with the following conditions:

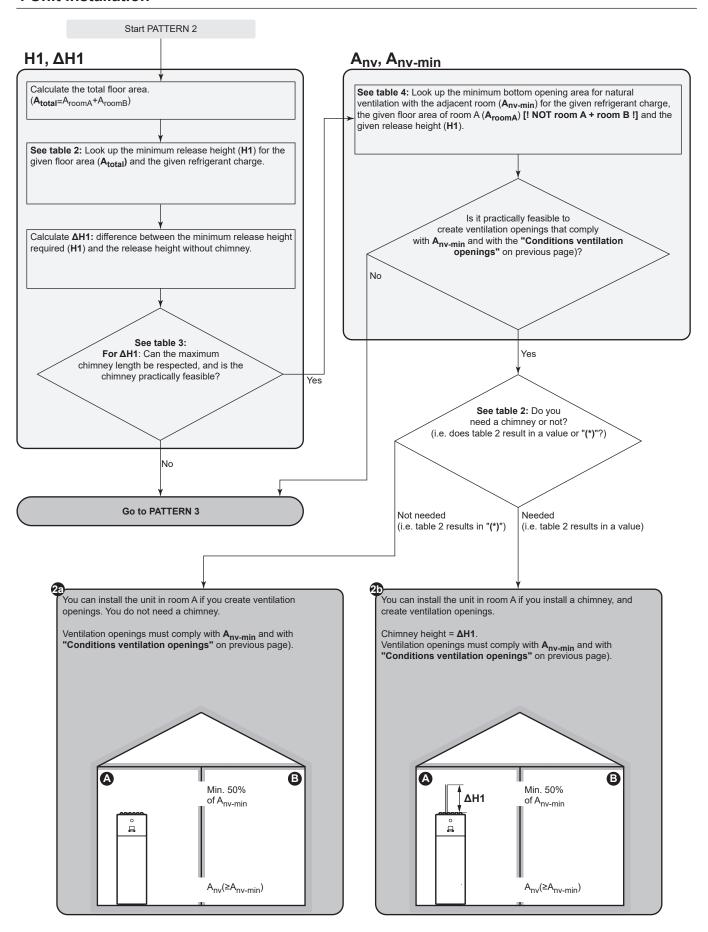
Bottom opening (A_{nv}):

- Must be a permanent opening that cannot be closed.
- Must be completely located between 0 and 300 mm from the floor.
- Must be ≥A_{nv-min} (minimum bottom opening area).
- ≥50% of the required opening area A_{nv-min} must be ≤200 mm from the floor.
- The bottom of the opening must be ≤100 mm from the floor.
- If the opening starts from the floor, the height of the opening must be ≥20 mm.

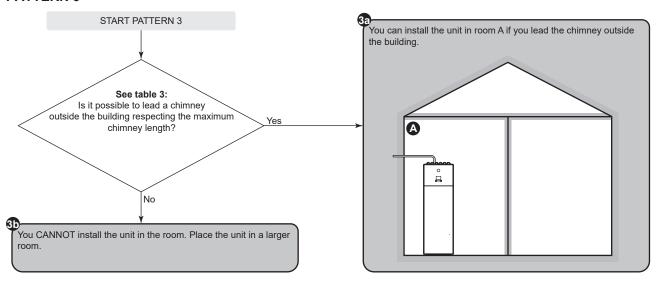
Top opening:

- Must be a permanent opening that cannot be closed.
- Must be ≥50% of A_{nv-min} (minimum bottom opening area).
- Must be ≥1.5 m from the floor.





PATTERN 3



Tables for PATTERN 1, 2 and 3

Table 1: Minimum floor area

For intermediate refrigerant charges, use the row with the higher value. Example: If the refrigerant charge is 4.3 kg, use the row of 4.5 kg.

Minimum floor area (m²)								
Charge (kg)	Release height without chimney (m)							
	1.66 (Unit=180 I)	1.86 (Unit=230 I)						
3.8	16.04	12.76						
4	17.77	14.14						
4.5	22.49	17.90						
5	27.76	22.09						
5.5	33.59	26.73						
5.8	37.36	29.73						

Table 2: Minimum release height

Take the following into account:

- For intermediate floor areas, use the column with the lower value. Example: If the floor area is 22.50 m², use the column of 20.00 m².
- For intermediate refrigerant charges, use the row with the higher value. **Example**: If the refrigerant charge is 4.3 kg, use the row of 4.5 kg.
- (*): The release height of the unit without chimney (for 180 I units: 1.66 m; for 230 I units: 1.86 m) is already higher than the minimum required release height. => OK (no chimney needed).

	Minimum release height (m)								
Charge (kg)		Floor area (m²)							
	5.00	10.00	15.00	20.00	25.00	30.00	35.00		
3.8	3.30	2.10	1.72	(*)	(*)	(*)	(*)		
4	3.47	2.21	1.81	(*)	(*)	(*)	(*)		
4.5	3.91	2.49	2.03	1.76	(*)	(*)	(*)		
5	4.34	2.77	2.26	1.96	1.75	(*)	(*)		
5.5	4.78	3.04	2.49	2.15	1.93	1.76	(*)		
5.8	5.04	3.21	2.62	2.27	2.03	1.85	1.72		

Table 3: Maximum chimney length

When installing a chimney, the chimney length must be less than the maximum chimney length.

- · Use the columns with the correct refrigerant charge. For intermediate refrigerant charges, use the columns with the higher value. Example: If the refrigerant charge is 4.0 kg, use the columns of 5.8 kg.
- For intermediate diameters, use the column with the lower value. Example: If the diameter is 23 mm, use the column of 22 mm.
- · X: Not allowed

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Maximum chimney length (m) – In case of Refrigerant charge=3.8 kg (and T=60°C)							In case of Refrigerant charge=5.8 kg (and T=60°C)				
Chimney	Inside diameter of chimney (mm)						Inside dia	meter of chin	nney (mm)		
	20	22	24	26	28		20	22	24	26	28
Straight pipe	19.03	33.90	55.16	84.54	124.06		3.37	9.47	18.40	30.91	47.91
1× 90° elbow	17.23	31.92	53.00	82.20	121.54		1.57	7.49	16.24	28.57	45.39
2× 90° elbow	15.43	29.94	50.84	79.86	119.02		Х	5.51	14.08	26.23	42.87
3× 90° elbow	13.63	27.96	48.68	77.52	116.50		Х	3.53	11.92	23.89	40.35

Table 4: Minimum bottom opening area for natural ventilation

Take the following into account:

- · Use the correct table. For intermediate refrigerant charges, use the table with the higher value. Example: If the refrigerant charge is 4.3 kg, use the table of 4.8 kg.
- · For intermediate floor areas, use the column with the lower value. Example: If the floor area is 12.50 m², use the column of 10.00 m².
- For intermediate release height values, use the row with the lower value. Example: If the release height is 1.90 m, use the row of 1.86 m.
- A_{nv}: Bottom opening area for natural ventilation.
- A_{nv-min}: Minimum bottom opening area for natural ventilation.
- (*): Already OK (no ventilation openings needed).

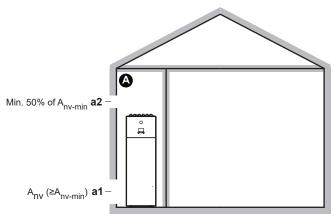
	A _{rv.min} (dm²) – In case of Refrigerant charge=3.8 kg										
Release height (m)		Floor area of room A (m²) [! NOT room A + room B !]									
	5.00	10.00	15.00	20.00	25.00	30.00	35.00				
1.66	4.6	2.2	0.4	(*)	(*)	(*)	(*)				
1.86	3.8	1.1	(*)	(*)	(*)	(*)	(*)				
2.06	3.1	0.2	(*)	(*)	(*)	(*)	(*)				
2.26	2.5	(*)	(*)	(*)	(*)	(*)	(*)				
2.46	1.9	(*)	(*)	(*)	(*)	(*)	(*)				
2.66	1.4	(*)	(*)	(*)	(*)	(*)	(*)				
2.86	0.9	(*)	(*)	(*)	(*)	(*)	(*)				
3.06	0.5	(*)	(*)	(*)	(*)	(*)	(*)				

A _{m-min} (dm²) – In case of Refrigerant charge=4.8 kg										
Release height (m)		Floor area of room A (m²) [! NOT room A + room B !]								
	5.00	10.00	15.00	20.00	25.00	30.00	35.00			
1.66	7.0	4.9	3.4	1.8	0.2	(*)	(*)			
1.86	6.1	3.7	2.0	0.1	(*)	(*)	(*)			
2.06	5.3	2.7	0.7	(*)	(*)	(*)	(*)			
2.26	4.6	1.7	(*)	(*)	(*)	(*)	(*)			
2.46	3.9	0.8	(*)	(*)	(*)	(*)	(*)			
2.66	3.3	(*)	(*)	(*)	(*)	(*)	(*)			
2.86	2.8	(*)	(*)	(*)	(*)	(*)	(*)			
3.06	2.3	(*)	(*)	(*)	(*)	(*)	(*)			

	A _{nv-min} (dm²) – In case of Refrigerant charge=5.8 kg										
Release height (m)		Floor area of room A (m²) [! NOT room A + room B !]									
	5.00	10.00	15.00	20.00	25.00	30.00	35.00				
1.66	9.5	7.7	6.5	5.1	3.7	2.2	0.7				
1.86	8.4	6.3	4.8	3.2	1.6	(*)	(*)				
2.06	7.5	5.1	3.4	1.6	(*)	(*)	(*)				
2.26	6.7	4.0	2.1	0.1	(*)	(*)	(*)				
2.46	5.9	3.1	0.9	(*)	(*)	(*)	(*)				
2.66	5.3	2.2	(*)	(*)	(*)	(*)	(*)				
2.86	4.6	1.3	(*)	(*)	(*)	(*)	(*)				
3.06	4.1	0.5	(*)	(*)	(*)	(*)	(*)				

PATTERN 4

PATTERN 4 is only allowed for installations in technical rooms (i.e. room that is NEVER occupied by persons). For this pattern there are no requirements to the minimum floor area if you provide 2 openings (one at the bottom, one at the top) between the room and the outside to ensure natural ventilation. The room must be protected from frost



Unoccupied room where the indoor unit is installed.
Must be protected from frost.

- a1 A_{nv}: Bottom opening for natural ventilation between the unoccupied room and the outside.
 - Must be a permanent opening that cannot be closed.
 - Must be above ground level.
 - Must be completely located between 0 and 300 mm from the floor of the unoccupied room.
 - Must be ≥A_{nv-min} (minimum bottom opening area as specified in the table below).
 - ≥50% of the required opening area A_{nv-min} must be ≤200 mm from the floor of the unoccupied room.
 - The bottom of the opening must be ≤100 mm from the floor of the unoccupied room.
 - If the opening starts from the floor, the height of the opening must be ≥20 mm.
- **Top opening** for natural ventilation between room A and the outside.
 - Must be a permanent opening that cannot be closed.
 - Must be ≥50% of A_{nv-min} (minimum bottom opening area as specified in the table below).
 - Must be ≥1.5 m from the floor of the unoccupied room.

A_{nv-min} (minimum bottom opening area for natural ventilation)

The minimum bottom opening area for natural ventilation between the unoccupied room and the outside depends on the total refrigerant in the system. For intermediate refrigerant charges, use the row with the higher value. **Example:** If the refrigerant charge is 4.3 kg, use the row of 4.4 kg.

Total refrigerant charge (kg)	A _{nv-min} (dm²)
3.8	9.9
4	10.1
4.2	10.4
4.4	10.6
4.6	10.9
4.8	11.1
5	11.3
5.2	11.5
5.4	11.8

Total refrigerant charge (kg)	A _{nv-min} (dm²)
5.6	12.0
5.8	12.2

4.2 Opening and closing the unit

4.2.1 To open the indoor unit

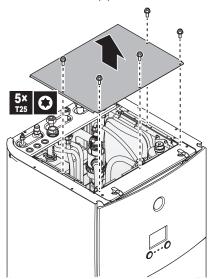
Overview



- a Top panel
- **b** User interface panel
- Switch box cover
- d Front panel
- High voltage switch box cover

Open

1 Remove the top panel.

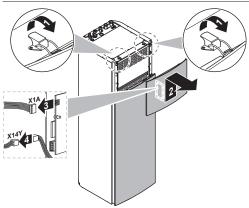


2 Remove the user interface panel. Open the hinges at the top and slide the top panel upwards.

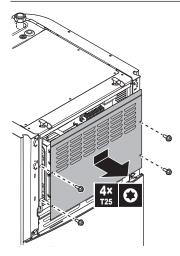


NOTICE

If you remove the user interface panel, also disconnect the cables from the back of the user interface panel to prevent damage.



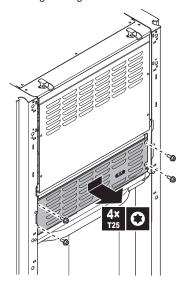
3 Remove the switch box cover.



- **4** If necessary, remove the front plate. This is, for example, necessary in the following cases:
 - "4.2.2 To lower the switch box on the indoor unit" [▶ 14]
 - "4.3.2 To connect the drain hose to the drain" [▶ 15]
 - When you need access to the high voltage switch box



5 If you need access to the high voltage components, remove the high voltage switch box cover.

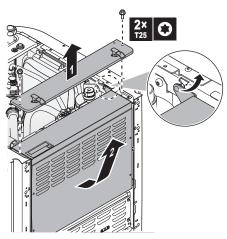


4.2.2 To lower the switch box on the indoor unit

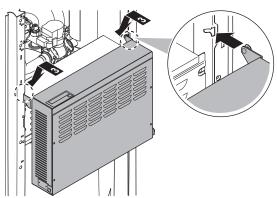
During the installation, you will need access to the inside of the indoor unit. To have easier front access, put the switch box lower on the unit as follows:

Prerequisite: The user interface panel and front panel have been removed.

- 1 Remove the fixing plate at the top of the unit.
- 2 Tilt the switch box to the front and lift it out of its hinges.



3 Place the switch box lower on the unit. Use the 2 hinges located lower on the unit.



4.2.3 To close the indoor unit

- 1 Close the cover of the switch box.
- 2 Put the switch box back into place.
- 3 Reinstall the top panel.
- 4 Reinstall the side panels.
- 5 Reinstall the front panel.
- 6 Reconnect the cables to the user interface panel.
- 7 Reinstall the user interface panel.



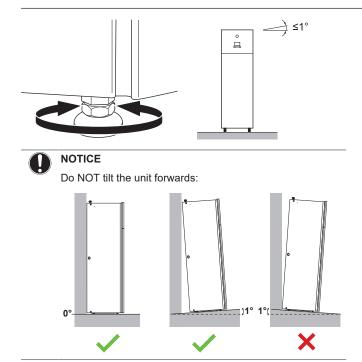
NOTICE

When closing the indoor unit cover, make sure that the tightening torque does NOT exceed 4.1 $N^{\bullet}m$.

4.3 Mounting the indoor unit

4.3.1 To install the indoor unit

- 1 Lift the indoor unit from the pallet and place it on the floor. Also see "3.1.2 To handle the indoor unit" [> 6].
- 2 Connect the drain hose to the drain. See "4.3.2 To connect the drain hose to the drain" [> 15].
- 3 Slide the indoor unit into position.
- 4 Adjust the height of the leveling feet to compensate for floor irregularities. The maximum allowed deviation is 1°.



4.3.2 To connect the drain hose to the drain

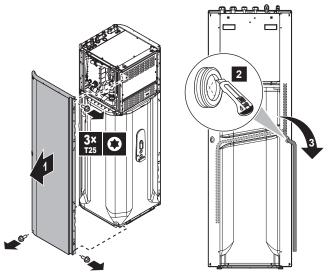
Water coming from the pressure relief valve is collected in the drain pan. The drain pan is connected to a drain hose inside the unit. You must connect the drain hose to an appropriate drain according to the applicable legislation. You can route the drain hose through the left or right side panel.

Prerequisite: The user interface panel and front panel have been removed.

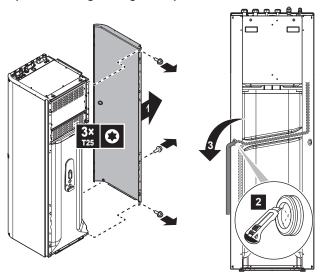
- 1 Remove one of the side panels.
- 2 Cut out the rubber grommet.
- 3 Pull the drain hose through the hole.
- 4 Reattach the side panel. Ensure the water can flow through the drain tube.

It is recommended to use a tundish to collect the water.

Option 1: Through the left side panel



Option 2: Through the right side panel



5 Piping installation

5.1 Preparing refrigerant piping

5.1.1 Refrigerant piping requirements

Also see "4.1.2 Special requirements for R32 units" [▶ 7] for additional requirements.

- Piping length: See "4.1.1 Installation site requirements of the indoor unit" [> 7].
- Piping material: Phosphoric acid deoxidised seamless copper.
- Piping connections: Only flare and brazed connections are allowed. The indoor and outdoor units have flare connections. Connect both ends without brazing. If brazing should be needed, take the guidelines in the installer reference guide into account.
- Flare connections: Only use annealed material.
- Piping diameter:

Liquid piping	Ø9.5 mm (3/8")
Gas piping	Ø15.9 mm (5/8")

· Piping temper grade and thickness:

Outer diameter (Ø)	Temper grade	Thickness (t) ^(a)	
9.5 mm (3/8")	Annealed (O)	≥0.8 mm	Ø
15.9 mm (5/8")	Annealed (O)	≥1.0 mm	\bigcirc t

⁽a) Depending on the applicable legislation and the maximum working pressure of the unit (see "PS High" on the unit name plate), larger piping thickness might be required.

5.1.2 Refrigerant piping insulation

- Use polyethylene foam as insulation material:
 - with a heat transfer rate between 0.041 and 0.052 W/mK (0.035 and 0.045 kcal/mh°C)
 - with a heat resistance of at least 120°C
- Insulation thickness

Pipe outer diameter (\emptyset_p)	Insulation inner diameter (Ø _i)	Insulation thickness (t)	
9.5 mm (3/8")	12~15 mm	≥13 mm	
15.9 mm (5/8")	17~20 mm	≥13 mm	

5 Piping installation



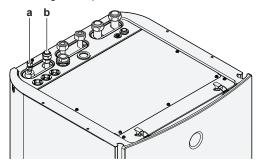
If the temperature is higher than 30°C and the humidity is higher than RH 80%, the thickness of the insulation materials should be at least 20 mm to prevent condensation on the surface of the insulation.

5.2 Connecting refrigerant piping

See the installation manual of the outdoor unit for all guidelines, specifications and installation instructions.

5.2.1 To connect the refrigerant piping to the indoor unit

Connect the liquid stop valve from the outdoor unit to the refrigerant liquid connection of the indoor unit.



- Refrigerant liquid connection
- Refrigerant gas connection
- 2 Connect the gas stop valve from the outdoor unit to the refrigerant gas connection of the indoor unit.

Preparing water piping 5.3



NOTICE

In case of plastic pipes, make sure they are fully oxygen diffusion tight according to DIN 4726. The diffusion of oxygen into the piping can lead to excessive corrosion.



NOTICE

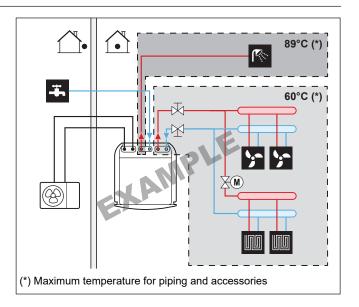
Water circuit requirements. Make sure to comply with the water pressure and water temperature requirements below. For additional water circuit requirements, see the installer reference guide.

- Water pressure Domestic hot water. The maximum water pressure is 4 bar. Provide adequate safeguards in the water circuit to ensure that the maximum pressure is NOT exceeded. The minimum water pressure to operate is 1 bar.
- Water pressure Space heating/cooling circuit. The maximum water pressure is 3 bar. Provide adequate safeguards in the water circuit to ensure that the maximum pressure is NOT exceeded. The minimum water pressure to operate is 1 bar.
- Water temperature. All installed piping and piping accessories (valve, connections,...) MUST withstand the temperatures:



INFORMATION

The following illustration is an example and might NOT match your system layout.



5.3.1 To check the water volume and flow rate

Minimum water volume

Check that the total water volume in the installation is higher than the minimum water volume, the internal water volume of the indoor unit NOT included:

lf	Then the minimum water volume is			
Cooling operation	20 I			
Heating operation	20 I			



NOTICE

When circulation in each space heating/cooling loop is controlled by remotely controlled valves, it is important that the minimum water volume is guaranteed, even if all of the valves are closed.

Minimum flow rate

Check that the minimum flow rate in the installation is guaranteed in all conditions. For this purpose, use the overpressure bypass valve delivered with the unit, and respect the minimum water volume.

If operation is	Then the minimum required flow rate is		
Cooling	16 l/min		
Heating/defrost	22 l/min		
Domestic hot water production			



NOTICE

When circulation in each or certain space heating loops is controlled by remotely controlled valves, it is important that the minimum flow rate is guaranteed, even if all valves are closed. In case the minimum flow rate cannot be reached, a flow error 7H will be generated (no heating or operation).

See the installer reference guide for more information.

See the recommended procedure as described in "8.2 Checklist during commissioning" [> 37].

5.4 Connecting water piping

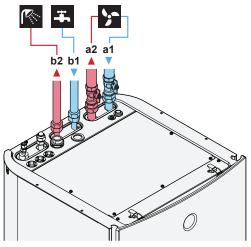
5.4.1 To connect the water piping



Do NOT use excessive force when connecting the piping. Deformation of the piping can cause malfunctioning of the

To facilitate service and maintenance, 2 shut-off valves and 1 overpressure bypass valve are provided. Mount the shut-off valves on the space heating water inlet and space heating water outlet. To ensure the minimum flow rate (and prevent overpressure), install the overpressure bypass valve on the space heating water outlet.

- Install the shut-off valves on the space heating water pipes.
- Screw the indoor unit nuts on the shut-off valve
- Connect the domestic hot water in and out pipes to the indoor unit.



- Space heating/cooling Water IN (screw connection, 1")
- Space heating/cooling Water OUT (screw connection, a2
- DHW Cold water IN (screw connection, 3/4")
- b2 DHW - Hot water OUT (screw connection, 3/4")



NOTICE

It is recommended to install shut-off valves to domestic cold water in and domestic hot water out connections. These shut-off valves are field supplied.



NOTICE



Overpressure bypass valve (delivered as accessory). We recommend to install the overpressure bypass valve in the space heating water circuit.

- Mind the minimum water volume when choosing the installation location of the overpressure bypass valve (at the indoor unit, or at the collector). See "5.3.1 To check the water volume and flow rate" [> 16].
- Mind the minimum flow rate when adjusting the overpressure bypass valve setting. See "5.3.1 To check the water volume and flow rate" [▶ 16] and "8.2.1 To check the minimum flow rate" [> 38].



NOTICE

Install air purge valves at all local high points.



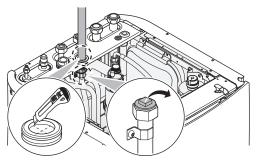
NOTICE

A pressure relief valve (field supply) with an opening pressure of maximum 10 bar (=1 MPa) must be installed on the domestic cold water inlet connection in accordance with the applicable legislation.

5.4.2 To connect the recirculation piping

Prerequisite: Only required if you need recirculation in your system.

- Remove the top panel from the unit, see "4.2.1 To open the indoor unit" [> 13].
- Cut out the rubber grommet on top of the unit, and remove the stop. The recirculation connector is placed below the hole.
- Route the recirculation piping through the grommet and connect it to the recirculation connector.



Reattach the top panel.

5.4.3 To fill the water circuit

To fill the water circuit, use a field supply filling kit. Make sure you comply with the applicable legislation.



NOTICE

Pump. To prevent blocking of the pump rotor, commission the unit as quickly as possible after filling the water circuit.



INFORMATION

Make sure both air purge valves (one on the magnetic filter and one on the backup heater) are open.

To fill the domestic hot water tank 5.4.4

- Open every hot water tap in turn to purge air from the system pipe work.
- Open the cold water supply valve.
- Close all water taps after all air is purged.
- Check for water leaks.
- Manually operate the field-installed pressure relief valve to ensure a free water flow through the discharge pipe.

5.4.5 To insulate the water piping

The piping in the complete water circuit MUST be insulated to prevent condensation during cooling operation and reduction of the heating and cooling capacity.

If the temperature is higher than 30°C and the humidity is higher than RH 80%, the thickness of the insulation materials should be at least 20 mm to prevent condensation on the surface of the insulation

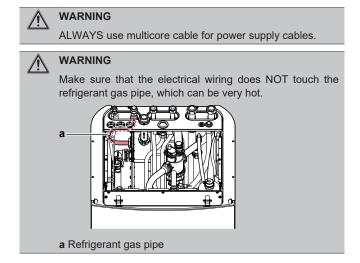
Electrical installation



DAIKIN

DANGER: RISK OF ELECTROCUTION

6 Electrical installation



6.1 About electrical compliance

Only for the backup heater of the indoor unit

See "6.3.2 To connect the backup heater power supply" [▶ 20].

6.2 Guidelines when connecting the electrical wiring

Tightening torques

Indoor unit:

Item	Tightening torque (N•m)
X1M	2.45 ±10%
X2M	0.88 ±10%
X5M	0.88 ±10%
X6M	2.45 ±10%
X10M	0.88 ±10%
M4 (earth)	1.47 ±10%

6.3 Connections to the indoor unit

Item	Description		
Power supply (main)	See "6.3.1 To connect the main power supply" [> 19].		
Power supply (backup heater)	See "6.3.2 To connect the backup heater power supply" [▶ 20].		
Shut-off valve	See "6.3.3 To connect the shut-off valve" [• 21].		
Electricity meters	See "6.3.4 To connect the electricity meters" [> 22].		
Domestic hot water pump	See "6.3.5 To connect the domestic hot water pump" [▶ 22].		
Alarm output	See "6.3.6 To connect the alarm output" [23].		
Space cooling/heating operation control	See "6.3.7 To connect the space cooling/heating ON/OFF output" [• 23].		
Changeover to external heat source control	See "6.3.8 To connect the changeover to external heat source" [▶ 24].		
Power consumption digital inputs	See "6.3.9 To connect the power consumption digital inputs" [▶ 24].		
Safety thermostat	See "6.3.10 To connect the safety thermostat (normally closed contact)" [• 25].		

Item	Description		
Smart Grid	See "6.3.11 To connect a Smart Grid" [• 25].		
Room thermostat (wired or wireless)	See below table.		
(Wires: 0.75 mm ²		
	Maximum running current: 100 mA		
	For the main zone:		
	• [2.9] Control		
	• [2.A] Thermostat type		
	For the additional zone:		
	• [3.A] Thermostat type		
	• [3.9] (read-only) Control		
Heat pump convector	There are different controllers and setups possible for the heat pump convectors.		
	Depending on the setup, you also need to implement a relay (field supply, see addendum book for optional equipment).		
	For more information, see:		
	 Installation manual of the heat pump convectors 		
	 Installation manual of the heat pump convector options 		
	 Addendum book for optional equipment 		
	Wires: 0.75 mm²		
	Maximum running current: 100 mA		
	For the main zone:		
	• [2.9] Control		
	• [2.A] Thermostat type		
	For the additional zone:		
	• [3.A] Thermostat type		
Remote outdoor	• [3.9] (read-only) Control See:		
sensor	Installation manual of the remote outdoor sensor		
	 Addendum book for optional equipment 		
	Wires: 2×0.75 mm²		
	[9.B.1]=1 (External sensor = Outdoor)		
	[9.B.2] Ext. amb. sensor offset		
	[9.B.3] Averaging time		
Remote indoor sensor	See:		
	 Installation manual of the remote indoor sensor 		
	Addendum book for optional equipment		
	Wires: 2×0.75 mm²		
	[9.B.1]=2 (External sensor = Room)		
	[1.7] Room sensor offset		
	[1.7] Room sensor offset		

Item	Description			
Human Comfort	See:			
Interface	Installation and operation manual of the Human Comfort Interface			
	Addendum book for optional equipment			
	Wires: 2×(0.75~1.25 mm²)			
	Maximum length: 500 m			
	[2.9] Control			
	[1.6] Room sensor offset			
LAN adapter	See:			
	Installation manual of the LAN adapter			
	 Addendum book for optional equipment 			
	Wires: 2×(0.75~1.25 mm²). Must be sheathed.			
	Maximum length: 200 m			
	See installation manual of the LAN adapter			
WLAN cartridge	See:			
	 Installation manual of the WLAN cartridge 			
	Installer reference guide			
	[D] Wireless gateway			
WLAN module	See:			
	Installation manual of the WLAN module			
	 Addendum book for optional equipment 			
	Installer reference guide			
	Use the cable delivered with the WLAN module.			
	[D] Wireless gateway			
Bizone kit	See:			
	Installation manual of the bizone kit			
	Addendum book for optional equipment			
	Use the cable delivered with the bizone kit.			
	[9.P] Bizone kit			

for room thermostat			
for room thermostat	(wired	or wire	less):

In case of	See				
Wireless room thermostat	•	Installation room therm		of the	wireless
	•	Addendum equipment	book	for	optional
Wired room thermostat without multi-zoning base	•	Installation thermostat	manual o	of the wi	red room
unit	•	Addendum equipment	book	for	optional

In case of		See
Wired room thermostat with multi-zoning base unit		Installation manual of the wired room thermostat (digital or analogue) + multi-zoning base unit
	•	Addendum book for optional equipment
	•	In this case:
		 You need to connect the wired room thermostat (digital or analogue) to the multi-zoning base unit
		 You need to connect the multi- zoning base unit to the outdoor unit
		 For cooling/heating operation, you also need to implement a relay (field supply, see addendum book for optional equipment)

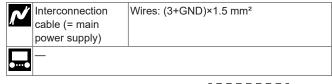
6.3.1 To connect the main power supply

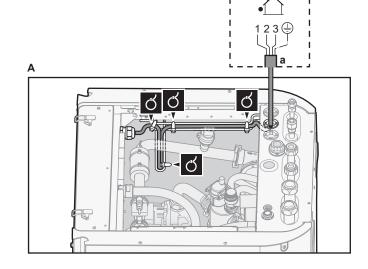
1 Open the following (see "4.2.1 To open the indoor unit" [> 13]):

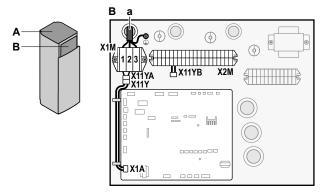
1	Top panel	1
2	User interface panel	3
3	Upper switch box cover	

2 Connect the main power supply.

In case of normal kWh rate power supply





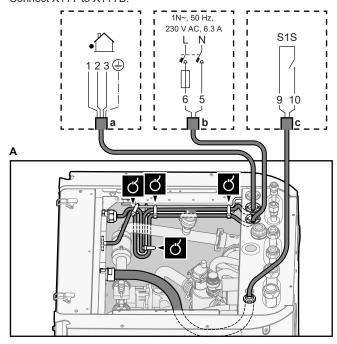


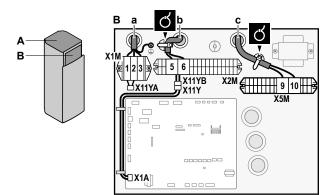
Interconnection cable (=main power supply)

In case of preferential kWh rate power supply

	•	
~	Interconnection cable (= main power supply)	Wires: (3+GND)×1.5 mm²
	Normal kWh rate power supply	Wires: 1N Maximum running current: 6.3 A
	Preferential kWh rate power supply contact	Wires: 2×(0.75~1.25 mm²) Maximum length: 50 m. Preferential kWh rate power supply contact: 16 V DC detection (voltage supplied by PCB). The voltage-free contact shall ensure the minimum
	[9.8] Benefit kWh	applicable load of 15 V DC, 10 mA.
نس		

Connect X11Y to X11YB.





- Interconnection cable (=main power supply)
- Normal kWh rate power supply Preferential power supply contact
- 3 Fix the cables with cable ties to the cable tie mountings.



INFORMATION

In case of preferential kWh rate power supply, connect X11Y to X11YB. The necessity of separate normal kWh rate power supply to indoor unit (b) X2M/5+6 depends on the type of preferential kWh rate power supply.

Separate connection to the indoor unit is required:

- if preferential kWh rate power supply is interrupted when active, OR
- if no power consumption of the indoor unit is allowed at the preferential kWh rate power supply when active.

6.3.2 To connect the backup heater power supply

~	Backup heater type	Power supply	Wires
	*6V	1N~ 230 V (6V3)	2+GND
		3~ 230 V (6T1)	3+GND
	*9W	3N~ 400 V	4+GND
	[9.3] Backup heater	<u> </u>	



WARNING

The backup heater MUST have a dedicated power supply and MUST be protected by the safety devices required by the applicable legislation.



CAUTION

To guarantee the unit is completely earthed, ALWAYS connect the backup heater power supply and the earth cable.

The backup heater capacity can vary, depending on the indoor unit model. Make sure that the power supply is in accordance with the backup heater capacity, as listed in the table below.

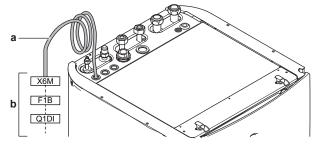
Backup heater type	Backup heater capacity	Power supply	Maximum running current	Z _{max}
*6V	2 kW	1N~ 230 V ^(a)	9 A	
	4 kW	1N~ 230 V ^(a)	17 A ^{(b)(c)}	0.22 Ω
	6 kW	1N~ 230 V ^(a)	26 A ^{(b)(c)}	0.22 Ω
	2 kW	3~ 230 V ^(d)	5 A	_
	4 kW	3~ 230 V ^(d)	10 A	_
	6 kW	3~ 230 V ^(d)	15 A	_

Backup heater type	Backup heater capacity	Power supply	Maximum running current	Z _{max}
*9W	3 kW	3N~ 400 V	4 A	_
	6 kW	3N~ 400 V	9 A	_
	9 kW	3N~ 400 V	13 A	_

⁽a) 6V3

- (b) Electrical equipment complying with EN/IEC 61000-3-12 (European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤75 A per phase).
- (c) This equipment complies with EN/IEC 61000-3-11 (European/International Technical Standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤75 A) provided that the system impedance Z_{sys} is less than or equal to Z_{max} at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a system impedance Z_{sys} less than or equal to Z_{max}.

Connect the backup heater power supply as follows:



- Factory-mounted cable connected to the contactor of the backup heater, inside the switch box (K5M)
- **b** Field wiring (see table below)

Model (power supply)	Connections to backup heater power supply
*6V (6V3: 1N~ 230 V)	K5M \ \frac{1}{1} - \frac{1}{3} - \frac{1}{5} - \frac{1}{3} 13 \end{array}
	X6M 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	F1B
	♦
	Q1DI 👲 - 🍀
	1N~, 50 Hz

Model (power supply)	Connections to backup heater power supply
*6V (6T1: 3~ 230 V)	K5M 2 4 6 14 SWB N 3 5 3 13
*9W (3N~ 400 V)	K5M 2 4 6 14 SWB Z

F1B Overcurrent fuse (field supply). Recommended fuse:

4-pole; 20 A; curve 400 V; tripping class C. Safety contactor (in the lower switch box)

K5M Safety contactor (in the lower switch box)
Q1DI Earth leakage circuit breaker (field supply)
SWB Switch box

X6M Terminal (field supply)



NOTICE

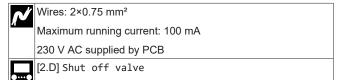
Do NOT cut or remove the backup heater power supply cable.

6.3.3 To connect the shut-off valve



INFORMATION

Shut-off valve usage example. In case of one LWT zone, and a combination of underfloor heating and heat pump convectors, install a shut-off valve before the underfloor heating to prevent condensation on the floor during cooling operation. For more information, see the installer reference quide.



1 Open the following (see "4.2.1 To open the indoor unit" [▶ 13]):

6 Electrical installation

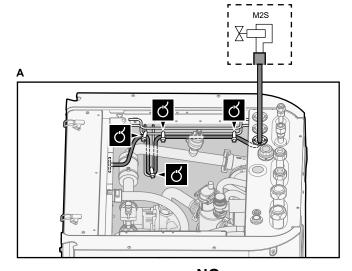
1 Top panel
2 User interface panel
3 Upper switch box cover

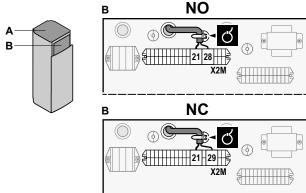
2 Connect the valve control cable to the appropriate terminals as shown in the illustration below.



NOTICE

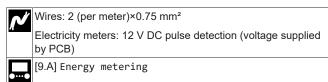
Wiring is different for a NC (normally closed) valve and a NO (normally open) valve.





3 Fix the cable with cable ties to the cable tie mountings.

6.3.4 To connect the electricity meters





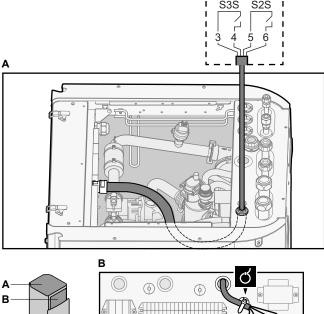
INFORMATION

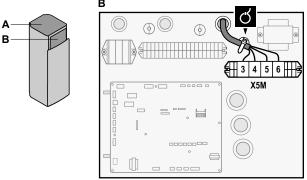
In case of an electricity meter with transistor output, check the polarity. The positive polarity MUST be connected to X5M/6 and X5M/4; the negative polarity to X5M/5 and X5M/3.

1 Open the following (see "4.2.1 To open the indoor unit" [▶ 13]):



2 Connect the electricity meters cable to the appropriate terminals as shown in the illustration below.





3 Fix the cable with cable ties to the cable tie mountings.

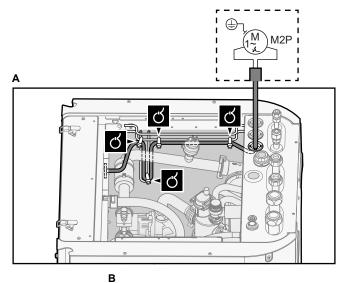
6.3.5 To connect the domestic hot water pump

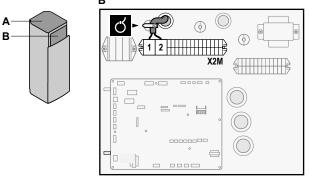


1 Open the following (see "4.2.1 To open the indoor unit" [▶ 13]):

1	Top panel	_1
2	User interface panel	3
3	Upper switch box cover	

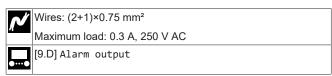
2 Connect the domestic hot water pump cable to the appropriate terminals as shown in the illustration below.



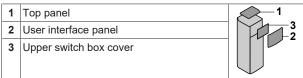


3 Fix the cable with cable ties to the cable tie mountings.

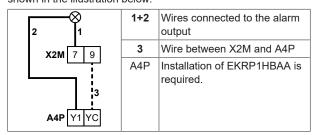
6.3.6 To connect the alarm output

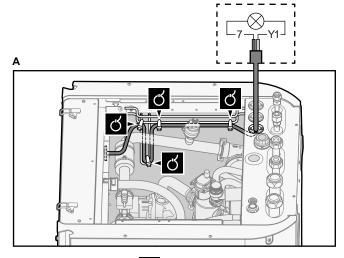


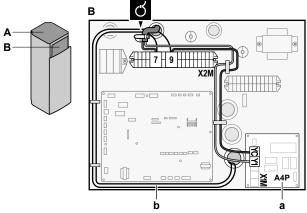
1 Open the following (see "4.2.1 To open the indoor unit" [▶ 13]):



2 Connect the alarm output cable to the appropriate terminals as shown in the illustration below.







- a Installation of EKRP1HBAA is required.
- Prewiring between X2M/7+9 and Q1L (= thermal protector backup heater). Do NOT change.
- 3 Fix the cable with cable ties to the cable tie mountings.

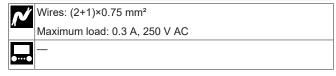
6.3.7 To connect the space cooling/heating ON/ OFF output



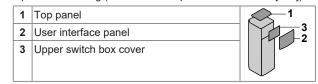
INFORMATION

Cooling is only applicable in case of:

- Reversible models
- Heating only models + conversion kit (EKHVCONV*)

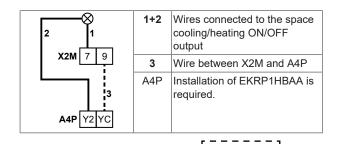


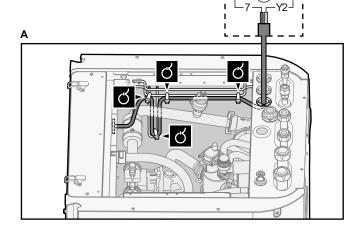
1 Open the following (see "4.2.1 To open the indoor unit" [▶ 13]):

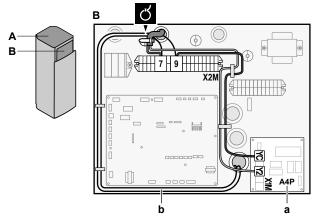


2 Connect the space cooling/heating ON/OFF output cable to the appropriate terminals as shown in the illustration below.

6 Electrical installation

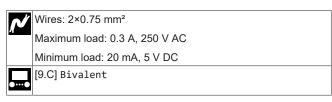




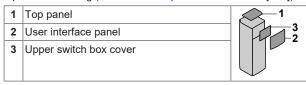


- a Installation of EKRP1HBAA is required.
- Prewiring between X2M/7+9 and Q1L (= thermal protector backup heater). Do NOT change.
- 3 Fix the cable with cable ties to the cable tie mountings.

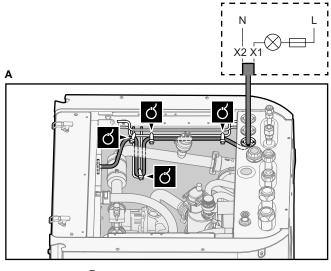
6.3.8 To connect the changeover to external heat source

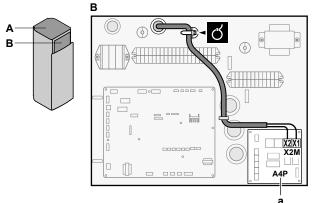


1 Open the following (see "4.2.1 To open the indoor unit" [▶ 13]):



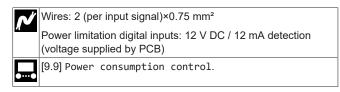
2 Connect the changeover to external heat source cable to the appropriate terminals as shown in the illustration below.



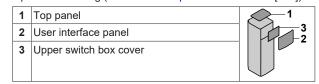


- a Installation of EKRP1HBAA is required.
- 3 Fix the cable with cable ties to the cable tie mountings.

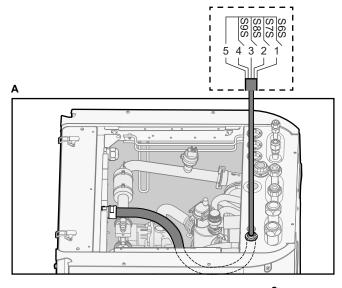
6.3.9 To connect the power consumption digital inputs

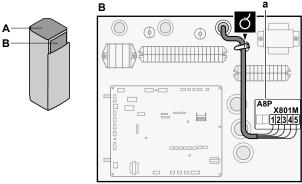


1 Open the following (see "4.2.1 To open the indoor unit" [> 13]):



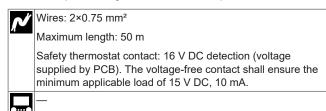
2 Connect the power consumption digital inputs cable to the appropriate terminals as shown in the illustration below.



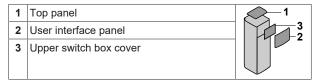


- a Installation of EKRP1AHTA is required.
- 3 Fix the cable with cable ties to the cable tie mountings.

6.3.10 To connect the safety thermostat (normally closed contact)

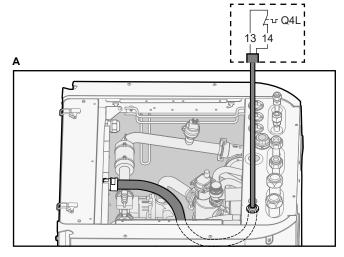


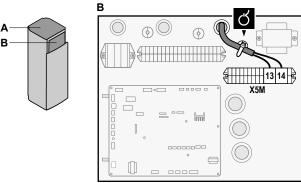
1 Open the following (see "4.2.1 To open the indoor unit" [> 13]):



2 Connect the safety thermostat (normally closed) cable to the appropriate terminals as shown in the illustration below.

Note: The jumper wire (factory-mounted) must be removed from the respective terminals.





3 Fix the cable with cable ties to the cable tie mountings.



NOTICE

Make sure to select and install the safety thermostat according to the applicable legislation.

In any case, to prevent unnecessary tripping of the safety thermostat, we recommend the following:

- The safety thermostat is automatically resettable.
- The safety thermostat has a maximum temperature variation rate of 2°C/min.
- There is a minimum distance of 2 m between the safety thermostat and the 3-way valve.



NOTICE

Error. If you remove the jumper (open circuit) but do NOT connect the safety thermostat, stop error 8H-03 will occur.

6.3.11 To connect a Smart Grid

This topic describes 2 possible ways to connect the indoor unit to a Smart Grid:

- In case of low voltage Smart Grid contacts
- In case of high voltage Smart Grid contacts. This requires the installation of the Smart Grid relay kit (EKRELSG).

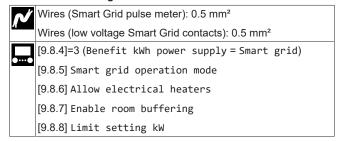
The 2 incoming Smart Grid contacts can activate the following Smart Grid modes:

Smart Grid contact		Smart Grid operation mode	
0	2		
0	0	Free running	
0	1	Forced off	
1	0	Recommended on	
1	1	Forced on	

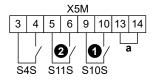
The use of a Smart Grid pulse meter is not mandatory:

If Smart Grid pulse meter is	Then [9.8.8] Limit setting kW is
Used	Not applicable
([9.A.2] Electricity meter $2 \neq$ None)	
Not used	Applicable
([9.A.2] Electricity meter 2 = None)	

In case of low voltage Smart Grid contacts



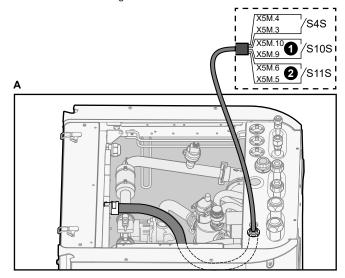
The wiring of the Smart Grid in case of low voltage contacts is as follows:

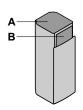


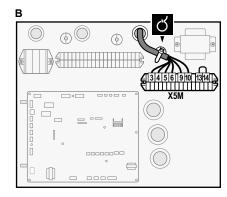
- a Jumper (factory-mounted). If you also connect a safety thermostat (Q4L), replace the jumper with the safety thermostat wires.
- S4S Smart Grid pulse meter
- 1/S10S Low voltage Smart Grid contact 1 2/S11S Low voltage Smart Grid contact 2
- 1 Open the following (see "4.2.1 To open the indoor unit" [▶ 13]):

1	Top panel	_1
2	User interface panel	3
3	Upper switch box cover	

2 Connect the wiring as follows:

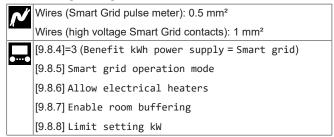




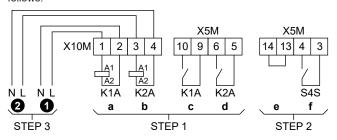


3 Fix the cables with cable ties to the cable tie mountings.

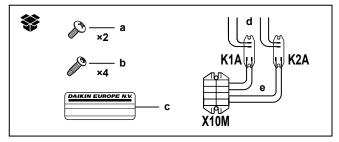
In case of high voltage Smart Grid contacts



The wiring of the Smart Grid in case of high voltage contacts is as follows:



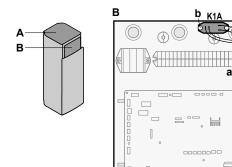
- STEP 1 Smart Grid relay kit installation
- STEP 2 Low voltage connections
- STEP 3 High voltage connections
 - High voltage Smart Crid contact 1
 - 2 High voltage Smart Grid contact 2
 - a, b Coil sides of relays
 - c, d Contact sides of relays
 - e Jumper (factory-mounted). If you also connect a safety thermostat (Q4L), replace the jumper with the safety thermostat wires.
 - f Smart Grid pulse meter
- 1 Install the components of the Smart Grid relay kit as follows:



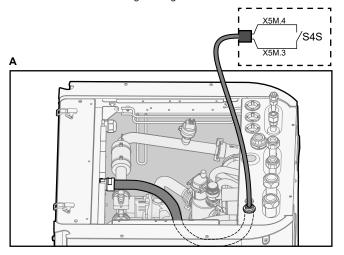
K1A, K2A Relays

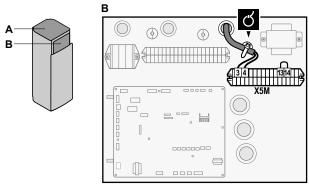
X10M Terminal block

- a Screws for X10M
- **b** Screws for K1A and K2A
- c Sticker to put on the high voltage wires
- d Wires between the relays and X5M (AWG22 ORG)
 e Wires between the relays and X10M (AWG18 RED)

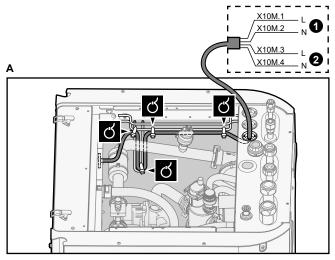


2 Connect the low voltage wiring as follows:

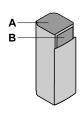


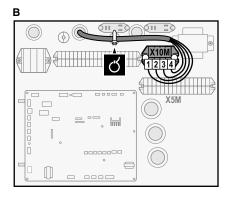


3 Connect the high voltage wiring as follows:



High voltage Smart Grid contact 1High voltage Smart Grid contact 2

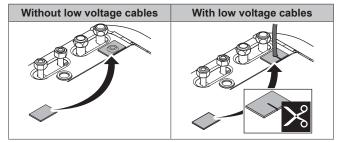




4 Fix the cables with cable ties to the cable tie mountings. If necessary, bundle excessive cable length with a cable tie.

6.4 After connecting the electrical wiring to the indoor unit

To prevent water ingress to the switch box, seal the low voltage wiring intake using the sealing tape (delivered as accessory).



7 Configuration



INFORMATION

Cooling is only applicable in case of:

- Reversible models
- Heating only models + conversion kit (EKHVCONV*)

7.1 Overview: Configuration

This chapter describes what you have to do and know to configure the system after it is installed.



NOTICE

This chapter explains only the basic configuration. For more detailed explanation and background information, see the installer reference guide.

Why

If you do NOT configure the system correctly, it might NOT work as expected. The configuration influences the following:

- The calculations of the software
- What you can see on and do with the user interface

How

You can configure the system via the user interface.

 First time – Configuration wizard. When you turn ON the user interface for the first time (via the unit), the configuration wizard starts to help you configure the system.

7 Configuration

- Restart the configuration wizard. If the system is already configured, you can restart the configuration wizard. To restart the configuration wizard, go to Installer settings > Configuration wizard. To access Installer settings, see "7.1.1 To access the most used commands" [> 28].
- Afterwards. If necessary, you can make changes to the configuration in the menu structure or the overview settings.



INFORMATION

When the configuration wizard is finished, the user interface will show an overview screen and request to confirm. When confirmed, the system will restart and the home screen will be displayed.

Accessing settings - Legend for tables

You can access the installer settings using two different methods. However, NOT all settings are accessible via both methods. If so, the corresponding table columns in this chapter are set to N/A (not applicable).

Method	Column in tables
Accessing settings via the breadcrumb in the	#
home menu screen or the menu structure. To enable breadcrumbs, press the ? button in the home screen.	For example: [2.9]
Accessing settings via the code in the	Code
overview field settings.	For example: [C-07]

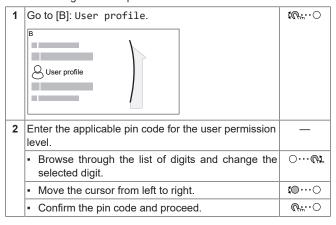
See also:

- "To access the installer settings" [▶ 28]
- "7.5 Menu structure: Overview installer settings" [▶ 36]

7.1.1 To access the most used commands

To change the user permission level

You can change the user permission level as follows:



Installer pin code

The Installer pin code is **5678**. Additional menu items and installer settings are now available.



Advanced user pin code

The Advanced user pin code is **1234**. Additional menu items for the user are now visible.



User pin code

The User pin code is 0000.



To access the installer settings

- 1 Set the user permission level to Installer.
- 2 Go to [9]: Installer settings.

To modify an overview setting

Example: Modify [1-01] from 15 to 20.

Most settings can be configured via the menu structure. If for any reason it is required to change a setting using the overview settings, then the overview settings can be accessed as follows:

					ocosca as follows.	
1	Set the us				Installer. See "To el" [▶28].	_
2	Go to [9.1	Go to [9.1]: Installer settings > Overview field settings.				t Ø₩○
3	Turn the I and confine 0				st part of the setting	\$€#···○
	2 3	03	08 09	0D 0E		
4	Turn the I setting	left dial	to sele	ct the se	econd part of the	! O…O
)1	00 01 15 02 03 04	05 06 07 08 09	0A 0B 0C 0D 0E		
5	Turn the	right dia	l to mo	dify the	value from 15 to 20.	O©
)1	00 01 20 02 03 04	05 06 07 08 09	0A 0B 0C 0D		
6	Press the	left dia	I to cor	nfirm the	new setting.	<i>&</i> ○
7	Press the screen.	center	button	to go ba	ack to the home	^



INFORMATION

When you change the overview settings and you go back to the home screen, the user interface will show a popup screen and request to restart the system.

When confirmed, the system will restart and recent changes will be applied.

7.2 Configuration wizard

After first power ON of the system, the user interface will guide you using the configuration wizard. This way you can set the most important initial settings. This way the unit will be able to run properly. Afterwards, more detailed settings can be done via the menu structure if required.

Protective functions

The unit is equipped with the following protective functions:

- Room antifrost [2-06]
- Tank disinfection [2-01]

The unit automatically runs the protective functions when necessary. During installation or service, this behaviour is undesired. Therefore, the protective functions can be disabled. For more information, see the Installer reference guide, chapter Configuration.

7.2.1 Configuration wizard: Language

#	Code	Description
[7.1]	N/A	Language

7.2.2 Configuration wizard: Time and date

#	Code	Description
[7.2]	N/A	Set the local time and date



INFORMATION

By default, daylight savings time is enabled and clock format is set to 24 hours. These settings can be changed during initial configuration or via the menu structure [7.2]: User settings > Time/date.

7.2.3 Configuration wizard: System

Indoor unit type

The indoor unit type is displayed, but cannot be adjusted.

Backup heater type

The backup heater is adapted to be connected to most common European electricity grids. The type of backup heater can be viewed but not changed.

#	Code	Description
[9.3.1]	[E-03]	• 3: 6V
		∗ 4:9W

Domestic hot water

The following setting determines if the system can prepare domestic hot water or not, and which tank is used. This setting is read only.

#	Code	Description
[9.2.1]	[E-05] ^(a)	Integrated
	[E-06] ^(a)	The backup heater will also be used for domestic hot water heating.

(a) Use the menu structure instead of the overview settings. Menu structure setting [9.2.1] replaces the following 3 overview settings:

- [E-05]: Can the system prepare domestic hot water?
- [E-06]: Is a domestic hot water tank installed in the system?
- [E-07]: What kind of domestic hot water tank is installed?

Emergency

When the heat pump fails to operate, the backup heater can serve as an emergency heater. It then takes over the heat load either automatically or by manual interaction.

- When Emergency is set to Automatic and a heat pump failure occurs, the backup heater automatically takes over the domestic hot water production and space heating.
- When Emergency is set to Manual and a heat pump failure occurs, the domestic hot water heating and space heating stops.

To manually recover it via the user interface, go to the Malfunctioning main menu screen and confirm whether the backup heater can take over the heat load or not.

- Alternatively, when Emergency is set to:
 - auto SH reduced/DHW on, space heating is reduced but domestic hot water is still available.
 - auto SH reduced/DHW off, space heating is reduced and domestic hot water is NOT available.
 - auto SH normal/DHW off, space heating operates as normally but domestic hot water is NOT available.

Similarly as in Manual mode, the unit can take the full load with the backup heater if the user activates this via the Malfunctioning main menu screen.

To keep energy consumption low, we recommend to set Emergency to auto SH reduced/DHW off if the house is unattended for longer periods.

#	Code	Description	
[9.5.1]	[4-06]	• 0: Manual	
		- 1: Automatic	
		■ 2: auto SH reduced/DHW on	
		■ 3: auto SH reduced/DHW off	
		• 4: auto SH normal/DHW off	



INFORMATION

The auto emergency setting can be set in the menu structure of the user interface only.



INFORMATION

If a heat pump failure occurs and Emergency is not set to Automatic (setting 1), the room frost protection function and the underfloor heating screed dryout function will remain active even if the user does NOT confirm emergency operation.

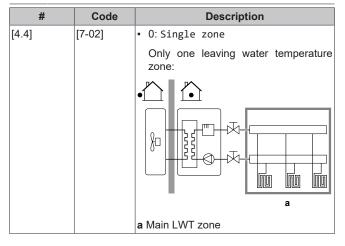
Number of zones

The system can supply leaving water to up to 2 water temperature zones. During configuration, the number of water zones must be set.



INFORMATION

Mixing station. If your system layout contains 2 LWT zones, you need to install a mixing station in front of the main LWT zone.



7 Configuration

#	Code	Description
[4.4]	[7-02]	• 1: Dual zone
		Two leaving water temperature zones. The main leaving water temperature zone consists of the higher load heat emitters and a mixing station to achieve the desired leaving water temperature. In heating:
		a
		c b
		a Additional LWT zone: Highest temperature
		b Main LWT zone: Lowest temperature
		c Mixing station



NOTICE

NOT configuring the system in the following way can cause damage to the heat emitters. If there are 2 zones, it is important that in heating:

- the zone with the lowest water temperature is configured as the main zone, and
- the zone with the highest water temperature is configured as the additional zone.



NOTICE

If there are 2 zones and the emitter types are wrongly configured, water of high temperature can be sent towards a low temperature emitter (underfloor heating). To avoid

- Install an aquastat/thermostatic valve to avoid too high temperatures towards a low temperature emitter.
- Make sure you set the emitter types for the main zone [2.7] and for the additional zone [3.7] correctly in accordance with the connected emitter.



NOTICE

An overpressure bypass valve can be integrated in the system. Keep in mind that this valve might not be shown on the illustrations.

7.2.4 Configuration wizard: Backup heater

The backup heater is adapted to be connected to most common European electricity grids. If the backup heater is available, the voltage, configuration and capacity must be set on the user interface.

The capacities for the different steps of the backup heater must be set for the energy metering and/or power consumption control feature to work properly. When measuring the resistance value of each heater, you can set the exact heater capacity and this will lead to more accurate energy data.

Backup heater type

30

The backup heater is adapted to be connected to most common European electricity grids. The type of backup heater can be viewed but not changed.

#	Code	Description
[9.3.1]	[E-03]	- 3: 6V
		• 4: 9W

Voltage

- For a 6V model, this can be set to:
 - 230V, 1ph
 - 230V, 3ph
- For a 9W model, this is fixed to 400V, 3ph.

#	Code	Description
[9.3.2]	[5-0D]	• 0:230V, 1ph
		• 1:230V, 3ph
		- 2:400V, 3ph

Configuration

The backup heater can be configured in different ways. It can be chosen to have a 1-step only backup heater or a backup heater with 2 steps. If 2 steps, the capacity of the second step depends on this setting. It can also be chosen to have a higher capacity of the second step in emergency.

#	Code	Description
[9.3.3]	[4-0A]	• 0: Relay 1
		• 1: Relay 1 / Relay 1+2
		• 2: Relay 1 / Relay 2
		 3: Relay 1 / Relay 2 Emergency Relay 1+2



INFORMATION

Settings [9.3.3] and [9.3.5] are linked. Changing one setting influences the other. If you change one, check if the other is still as expected.



INFORMATION

During normal operation, the capacity of the second step of the backup heater at nominal voltage is equal to [6-03]+[6-04].



INFORMATION

If [4-0A]=3 and emergency mode is active, the power usage of the backup heater is maximal and equal to 2×[6-03]+[6-04].



INFORMATION

Only for systems with integrated domestic hot water tank: If the storage temperature setpoint is higher than 50°C, Daikin recommends NOT to disable the backup heater second step because it will have a big impact on the required time for the unit to heat up the domestic hot water tank.

Capacity step 1

#	Code	Description	
[9.3.4]	[6-03]	The capacity of the first step of th backup heater at nominal voltage.	е

Additional capacity step 2

#	Code	Description
[9.3.5]	[6-04]	 The capacity difference between the second and first step of the backup heater at nominal voltage. Nominal value depends on backup heater configuration.

7.2.5 Configuration wizard: Main zone

The most important settings for the main leaving water zone can be set here

Emitter type

Heating up or cooling down the main zone can take longer. This depends on:

- · The water volume of the system
- The heater emitter type of the main zone

The setting Emitter type can compensate for a slow or a quick heating/cooling system during the heat up/cool down cycle. In room thermostat control, Emitter type influences the maximum modulation of the desired leaving water temperature, and the possibility for usage of the automatic cooling/heating changeover based on the indoor ambient temperature.

It is important to set Emitter type correctly and in accordance with your system layout. The target delta T for the main zone depends on it.

#	Code	Description
[2.7]	[2-0C]	• 0: Underfloor heating
		• 1: Fancoil unit
		• 2: Radiator

The setting of the emitter type has an influence on the space heating setpoint range and the target delta T in heating as follows:

Description	Space heating setpoint range	Target delta T in heating
O: Underfloor heating	Maximum 55°C	Variable
1: Fancoil unit	Maximum 55°C	Variable
2: Radiator	Maximum 60°C	Fixed 8°C



NOTICE

Average emitter temperature = Leaving water temperature – (Delta T)/2

This means that for a same leaving water temperature setpoint, the average emitter temperature of radiators is lower than that of underfloor heating because of a bigger delta T.

Example radiators: 40-8/2=36°C

Example underfloor heating: 40-5/2=37.5°C

To compensate, you can:

- Increase the weather-dependent curve desired temperatures [2.5].
- Enable leaving water temperature modulation and increase the maximum modulation [2.C].

Control

Define how the operation of the unit is controlled.

Control	In this control
Leaving water	Unit operation is decided based on the leaving water temperature regardless the actual room temperature and/or heating or cooling demand of the room.
External room thermostat	Unit operation is decided by the external thermostat or equivalent (e.g. heat pump convector).
Room thermostat	Unit operation is decided based on the ambient temperature of the dedicated Human Comfort Interface (BRC1HHDA used as room thermostat).

#	Code	Description
[2.9]	[C-07]	• 0: Leaving water
		• 1: External room thermostat
		• 2: Room thermostat

Setpoint mode

Define the setpoint mode:

- Fixed: the desired leaving water temperature does not depend on the outdoor ambient temperature.
- In WD heating, fixed cooling mode, the desired leaving water temperature:
 - · depends on the outdoor ambient temperature for heating
 - does NOT depend on the outdoor ambient temperature for cooling
- In Weather dependent mode, the desired leaving water temperature depends on the outdoor ambient temperature.

	#	Code	Description
[2	2.4]	N/A	Setpoint mode:
			• Fixed
			 WD heating, fixed cooling
			• Weather dependent

When weather dependent operation is active, low outdoor temperatures will result in warmer water and vice versa. During weather dependent operation, the user can shift the water temperature up or down by a maximum of 10°C.

Schedule

Indicates if the desired leaving water temperature is according to a schedule. Influence of the LWT setpoint mode [2.4] is as follows:

- In Fixed LWT setpoint mode, the scheduled actions consist of desired leaving water temperatures, either preset or custom.
- In Weather dependent LWT setpoint mode, the scheduled actions consist of desired shift actions, either preset or custom.

#	Code		Description
[2.1]	N/A	•	0: No
			1: Yes

7.2.6 Configuration wizard: Additional zone

The most important settings for the additional leaving water zone can be set here.

Emitter type

For more info about this functionality, see "7.2.5 Configuration wizard: Main zone" [> 31].

#	Code	Description
[3.7]	[2-0D]	O: Underfloor heating
		• 1: Fancoil unit
		• 2: Radiator

Control

The control type is displayed here, but cannot be adjusted. It is determined by the control type of the main zone. For more info about the functionality, see "7.2.5 Configuration wizard: Main zone" [• 31].

7 Configuration

#	Code	Description
[3.9]	N/A	 0: Leaving water if the control type of the main zone is Leaving water.
		 1: External room thermostat if the control type of the main zone is External room thermostat or Room thermostat.

Setpoint mode

For more info about this functionality, see "7.2.5 Configuration wizard: Main zone" [> 31].

#	Code	Description
[3.4]	N/A	• 0: Fixed
		• 1:WD heating, fixed cooling
		- 2: Weather dependent

If you choose WD heating, fixed cooling or Weather dependent, the next screen will be the detailed screen with weather-dependent curves. Also see "7.3 Weather-dependent curve" [> 32].

Schedule

Indicates if the desired leaving water temperature is according to a schedule. Also see "7.2.5 Configuration wizard: Main zone" [> 31].

#	Code	Description
[3.1]	N/A	• 0: No
		• 1: Yes

7.2.7 Configuration wizard: Tank



INFORMATION

To make tank defrost possible, we recommend a minimum tank temperature of 35°C.

Heat up mode

The domestic hot water can be prepared in 3 different ways. They differ from each other by the way the desired tank temperature is set and how the unit acts upon it.

#	Code	Description
[5.6]	[6-0D]	Heat up mode:
		0: Reheat only: Only reheat operation is allowed.
		 1: Schedule + reheat: The domestic hot water tank is heated according to a schedule and between the scheduled heat up cycles, reheat operation is allowed.
		 2: Schedule only: The domestic hot water tank can ONLY be heated according to a schedule.

See the operation manual for more details.

Comfort setpoint

Only applicable when domestic hot water preparation is Schedule only or Schedule + reheat. When programming the schedule, you can make use of the comfort setpoint as a preset value. When you later want to change the storage setpoint, you only have to do it in one place.

The tank will heat up until the **storage comfort temperature** has been reached. It is the higher desired temperature when a storage comfort action is scheduled.

Additionally, a storage stop can be programmed. This feature puts a stop to tank heating even if the setpoint has NOT been reached. Only program a storage stop when tank heating is absolutely undesirable.

#	Code	Description
[5.2]	[6-0A]	Comfort setpoint:
		■ 30°C~[6-0E]°C

Eco setpoint

The **storage economic temperature** denotes the lower desired tank temperature. It is the desired temperature when a storage economic action is scheduled (preferably during day).

#	Code	Description	
[5.3]	[6-0B]	Eco setpoint:	
		■ 30°C~min(50,[6-0E])°C	

Reheat setpoint

Desired reheat tank temperature, used:

- in Schedule + reheat mode, during reheat mode: the guaranteed minimum tank temperature is set by the Reheat setpoint minus the reheat hysteresis. If the tank temperature drops below this value, the tank is heated up.
- during storage comfort, to prioritize the domestic hot water preparation. When the tank temperature rises above this value, domestic hot water preparation and space heating/cooling are executed sequentially.

#	Code	Description
[5.4]	[6-0C]	Reheat setpoint:
		• 30°C~min(50,[6-0E])°C

7.3 Weather-dependent curve

7.3.1 What is a weather-dependent curve?

Weather-dependent operation

The unit operates 'weather dependent' if the desired leaving water or tank temperature is determined automatically by the outdoor temperature. It therefore is connected to a temperature sensor on the North wall of the building. If the outdoor temperature drops or rises, the unit compensates instantly. Thus, the unit does not have to wait for feedback by the thermostat to increase or decrease the temperature of the leaving water or tank. Because it reacts more quickly, it prevents high rises and drops of the indoor temperature and water temperature at tap points.

Advantage

Weather-dependent operation reduces energy consumption.

Weather-dependent curve

To be able to compensate for differences in temperature, the unit relies on its weather-dependent curve. This curve defines how much the temperature of the tank or leaving water must be at different outdoor temperatures. Because the slope of the curve depends on local circumstances such as climate and the insulation of the house, the curve can be adjusted by an installer or user.

Types of weather-dependent curve

There are 2 types of weather-dependent curves:

- 2-points curve
- Slope-offset curve

Which type of curve you use to make adjustments, depends on your personal preference. See "7.3.4 Using weather-dependent curves" [> 34].

Availability

The weather-dependent curve is available for:

- Main zone Heating
- Main zone Cooling

- Additional zone Heating
- Additional zone Cooling
- Tank (only available to installers)



INFORMATION

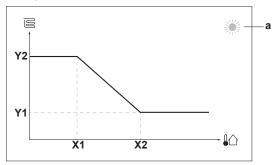
To operate weather dependent, correctly configure the setpoint of the main zone, additional zone or tank. See "7.3.4 Using weather-dependent curves" [> 34].

7.3.2 2-points curve

Define the weather-dependent curve with these two setpoints:

- Setpoint (X1, Y2)
- Setpoint (X2, Y1)

Example



Item	Description	
а	Selected weather dependent zone:	
	Main zone or additional zone heating	
	■ Lii: Domestic hot water	
X1, X2	Examples of outdoor ambient temperature	
Y1, Y2	Examples of desired tank temperature or leaving water temperature. The icon corresponds to the heat emitter for that zone:	
	Underfloor heating	
	• 🗏: Fan coil unit	
	■ : Radiator	
	Domestic hot water tank	

	Possible actions on this screen		
(O···O	Go through the temperatures.		
001	Change the temperature.		
○@m	Go to the next temperature.		
<i>©</i> #○	Confirm changes and proceed.		

7.3.3 Slope-offset curve

Slope and offset

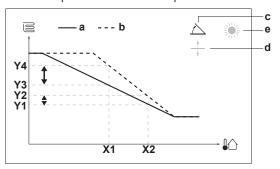
Define the weather-dependent curve by its slope and offset:

- Change the slope to differently increase or decrease the temperature of the leaving water for different ambient temperatures. For example, if leaving water temperature is in general fine but at low ambient temperatures too cold, raise the slope so that leaving water temperature is heated increasingly more at decreasingly lower ambient temperatures.
- Change the offset to equally increase or decrease the temperature of the leaving water for different ambient temperatures. For example, if leaving water temperature is always

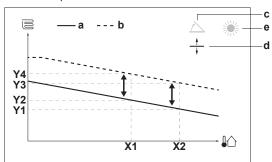
a bit too cold at different ambient temperatures, shift the offset up to equally increase the leaving water temperature for all ambient temperatures.

Examples

Weather-dependent curve when slope is selected:



Weather-dependent curve when offset is selected:



Item	Description				
а	WD curve before changes.				
b	WD curve after changes (as example):				
	 When slope is changed, the new preferred temperature at X1 is unequally higher than the preferred temperature at X2. 				
	When offset is changed, the new preferred temperature at X1 is equally higher as the preferred temperature at X2.				
С	Slope				
d	Offset				
е	Selected weather dependent zone:				
	Main zone or additional zone heating				
	Wain zone or additional zone cooling				
	Domestic hot water				
X1, X2	Examples of outdoor ambient temperature				
Y1, Y2, Y3, Y4	Examples of desired tank temperature or leaving water temperature. The icon corresponds to the heat emitter for that zone:				
	Underfloor heating				
	Fan coil unit				
	- III: Radiator				
	Domestic hot water tank				

Possible actions on this screen		
€○	Select slope or offset.	
00	Increase or decrease the slope/offset.	
O@	When slope is selected: set slope and go to offset.	
	When offset is selected: set offset.	
<i>⊌</i> *○	Confirm changes and return to the submenu.	

7.3.4 Using weather-dependent curves

Configure weather-dependent curves as following:

To define the setpoint mode

To use the weather-dependent curve, you need to define the correct setpoint mode:

Go to setpoint mode	Set the setpoint mode to		
Main zone – Heating			
[2.4] Main zone > Setpoint mode	WD heating, fixed cooling OR Weather dependent		
Main zone – Cooling			
[2.4] Main zone > Setpoint mode	Weather dependent		
Additional zone – Heating			
[3.4] Additional zone > Setpoint mode	WD heating, fixed cooling OR Weather dependent		
Additional zone – Cooling			
[3.4] Additional zone > Setpoint mode	Weather dependent		
Tank			
[5.B] Tank > Setpoint mode	Restriction: Only available to installers.		
	Weather dependent		

To change the type of weather-dependent curve

To change the type for all zones (main + additional) and for the tank, go to [2.E] Main zone > WD curve type.

Viewing which type is selected is also possible via:

- [3.C] Additional zone > WD curve type
- [5.E] Tank > WD curve type

Restriction: Only available to installers.

To change the weather-dependent curve

To onalige the weather dependent out to			
Zone	Go to		
Main zone – Heating	[2.5] Main zone > Heating WD curve		
Main zone – Cooling	[2.6] Main zone > Cooling WD curve		
Additional zone – Heating	[3.5] Additional zone > Heating WD curve		
Additional zone – Cooling	[3.6] Additional zone > Cooling WD curve		
Tank	Restriction: Only available to installers.		
	[5.C] Tank > WD curve		



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INFORMATION

Maximum and minimum setpoints

You cannot configure the curve with temperatures that are higher or lower than the set maximum and minimum setpoints for that zone or for the tank. When the maximum or minimum setpoint is reached, the curve flattens out.

To fine-tune the weather-dependent curve: slope-offset curve

The following table describes how to fine-tune the weatherdependent curve of a zone or tank:

You f	eel	Fine-tune with slope and offset:	
At regular outdoor temperatures	At cold outdoor temperatures	Slope Offset	
OK	Cold	1	_

You feel		Fine-tune with slope and offset:		
At regular outdoor temperatures	At cold outdoor temperatures	Slope	Offset	
OK	Hot	↓	_	
Cold	OK	↓	1	
Cold	Cold	_	1	
Cold	Hot	↓	1	
Hot	OK	1	↓	
Hot	Cold	1	↓	
Hot	Hot	_		

To fine-tune the weather-dependent curve: 2-points curve

The following table describes how to fine-tune the weatherdependent curve of a zone or tank:

You feel		Fine-tune with setpoints:			
At regular outdoor temperatures	At cold outdoor temperatures	Y2 ^(a)	Y1 ^(a)	X1 ^(a)	X2 ^(a)
OK	Cold	1	_	1	_
OK	Hot	↓	_	1	_
Cold	OK	_	1	_	1
Cold	Cold	1	1	1	1
Cold	Hot	↓	1	↓	1
Hot	OK	_	↓	_	↓
Hot	Cold	1	↓	1	↓
Hot	Hot	↓ ↓	↓	↓	↓

⁽a) See "7.3.2 2-points curve" [▶ 33].

7.4 Settings menu

You can set additional settings using the main menu screen and its submenus. The most important settings are presented here.

7.4.1 Main zone

Thermostat type

Only applicable in external room thermostat control.



NOTICE

If an external room thermostat is used, the external room thermostat will control the room frost protection. However, the room frost protection is only possible if [C.2] Space heating/cooling=On.

#	Code	Description
[2.A]	[C-05]	External room thermostat type for the main zone:
		 1:1 contact: The used external room thermostat can only send a thermo ON/OFF condition. There is no separation between heating or cooling demand.
		 2: 2 contacts: The used external room thermostat can send a separate heating/cooling thermo ON/OFF condition.

7.4.2 Additional zone

Thermostat type

Only applicable in external room thermostat control. For more info about the functionality, see "7.4.1 Main zone" [▶ 34].

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#	Code	Description
[3.A]	[C-06]	External room thermostat type for the additional zone:
		• 1:1 contact
		• 2: 2 contacts

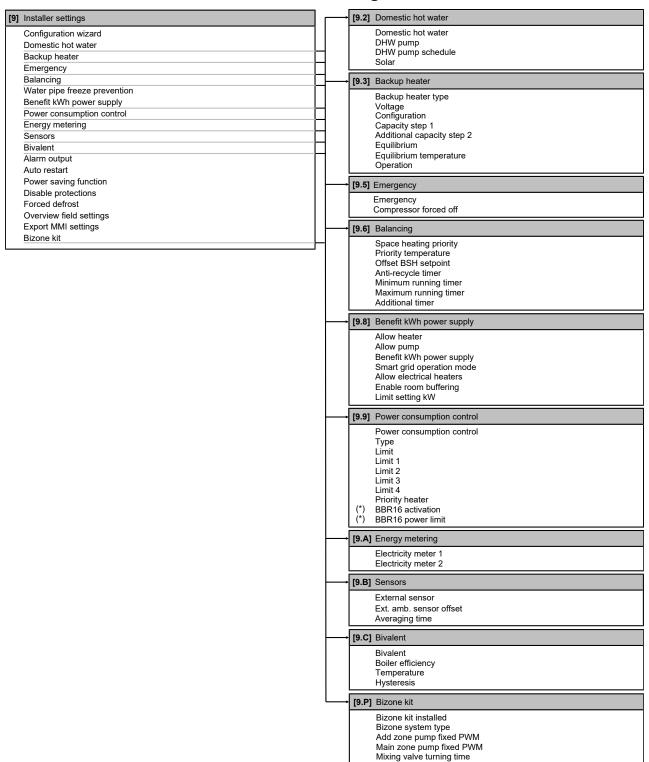
7.4.3 Information

Dealer information

The installer can fill in his contact number here.

# Code		Description
[8.3] N/A		Number that users can call in case of
		problems.

7.5 Menu structure: Overview installer settings



(*) Only applicable in Swedish language.



INFORMATION

Solar kit settings are shown but are NOT applicable for this unit. Settings shall NOT be used or changed.



INFORMATION

Depending on the selected installer settings and unit type, settings will be visible/invisible.

8 Commissioning



NOTICE

General commissioning checklist. Next to the commissioning instructions in this chapter, a general commissioning checklist is also available on the Daikin Business Portal (authentication required).

The general commissioning checklist is complementary to the instructions in this chapter and can be used as a guideline and reporting template during the commissioning and hand-over to the user.



NOTICE

ALWAYS operate the unit with thermistors and/or pressure sensors/switches. If NOT, burning of the compressor might be the result.



NOTICE





Make sure both air purge valves (one on the magnetic filter and one on the backup heater) are open.

All automatic air purge valves MUST remain open after commissioning.



NOTICE

Pump. To prevent blocking of the pump rotor, commission the unit as quickly as possible after filling the water circuit.



INFORMATION

Protective functions – "Installer-on-site mode". The software is equipped with protective functions, such as room antifrost. The unit automatically runs these functions when necessary.

During installation or service this behaviour is undesired. Therefore, the protective functions can be disabled:

- At first power-on: The protective functions are disabled by default. After 12 hours they will be automatically enabled.
- Afterwards: An installer can manually disable the protective functions by setting [9.G]: Disable protections=Yes. After his work is done, he can enable the protective functions by setting [9.G]: Disable protections=No.

Also see "Protective functions" [▶ 29].

8.1 Checklist before commissioning

After the installation of the unit, first check the items listed below. Once all checks are fulfilled, the unit MUST be closed. Power-up the unit after it is closed.

You read the complete installation instructions, as described in the installer reference guide .		
The indoor unit is properly mounted.		
The outdoor unit is properly mounted.		

	The following field wiring has been carried out according to this document and the applicable legislation:
	Between the local supply panel and the outdoor unit
	Between indoor unit and outdoor unit
	Between the local supply panel and the indoor unit
	Between the indoor unit and the valves (if applicable)
	Between the indoor unit and the room thermostat (if applicable)
	The system is properly earthed and the earth terminals are tightened.
	The fuses or locally installed protection devices are installed according to this document, and have NOT been bypassed.
	The power supply voltage matches the voltage on the identification label of the unit.
	There are NO loose connections or damaged electrical components in the switch box.
	There are NO damaged components or squeezed pipes on the inside of the indoor and outdoor units.
	Backup heater circuit breaker F1B (field supply) is turned ON.
	There are NO refrigerant leaks.
	The refrigerant pipes (gas and liquid) are thermally insulated.
	The correct pipe size is installed and the pipes are properly insulated.
	There is NO water leak inside the indoor unit.
	The shut-off valves are properly installed and fully open.
	The stop valves (gas and liquid) on the outdoor unit are fully open.
	The air purge valve is open (at least 2 turns).
	The pressure relief valve purges water when opened. Clean water MUST come out.
	The minimum water volume is guaranteed in all conditions. See "To check the water volume and flow rate" in "5.3 Preparing water piping" [> 16].
	The domestic hot water tank is filled completely.

8.2 Checklist during commissioning

The minimum flow rate during backup heater/defrost operation is guaranteed in all conditions. See "To check the water volume and flow rate" in "5.3 Preparing water piping" [> 16].		
To perform an air purge .		
To perform a test run .		
To perform an actuator test run.		
Underfloor screed dryout function		
The underfloor screed dryout function is started (if		

8.2.1 To check the minimum flow rate

1	Check the hydraulic configuration to find out which space heating loops can be closed by mechanical, electronic, or other valves.	_
2	Close all space heating loops that can be closed.	_
3	Start the pump test run (see "8.2.4 To perform an actuator test run" [> 38]).	_
4	Read out the flow rate ^(a) and modify the bypass valve setting to reach the minimum required flow rate + 2 l/ min.	_

⁽a) During pump test run, the unit can operate below the minimum required flow rate.

If operation is	Then the minimum required flow rate is
Cooling	16 l/min
Heating/defrost	22 I/min
Domestic hot water production	

8.2.2 To perform an air purge

Conditions: Make sure all operation is disabled. Go to [C]: Operation and turn off Space heating/cooling and Tank operation.

1	Set the user permission level to Installer. See "To change the user permission level" [> 28].	_
2	Go to [A.3]: Commissioning > Air purge.	1 €○
3	Select 0K to confirm.	1 €○
	Result: The air purge starts. It stops automatically when air purge cycle is finished.	
	To stop the air purge manually:	_
	1 Go to Stop air purge.	1 €○
	2 Select 0K to confirm.	1 €○

Air purging heat emitters or collectors

We recommend to purge air with the unit's air purge function (see above). However, if you purge air from the heat emitters or collectors, mind the following:



WARNING

Air purging heat emitters or collectors. Before you purge air from heat emitters or collectors, check if \bigcirc or \bigcirc is displayed on the home screen of the user interface.

- If not, you can purge air immediately.
- If yes, make sure that the room where you want to purge air is sufficiently ventilated. Reason: Refrigerant might leak into the water circuit, and subsequently into the room when you purge air from the heat emitters or collectors.

8.2.3 To perform an operation test run

Conditions: Make sure all operation is disabled. Go to [C]: Operation and turn off Space heating/cooling and Tank operation.

1	Set the user permission level to Installer. See "To change the user permission level" [> 28].	_
2	Go to [A.1]: Commissioning > Operation test run.	(€#○
3	Select a test from the list. Example: Heating.	€ 0○

4	Se	lect 0K to confirm.	: ₩○	
	1	Result: The test run starts. It stops automatically when ready (±30 min).		
	To stop the test run manually:		_	
	1	In the menu, go to Stop test run.	(@*○	
	2	Select 0K to confirm.	1 0○	



INFORMATION

If the outdoor temperature is outside the range of operation, the unit may NOT operate or may NOT deliver the required capacity.

To monitor leaving water and tank temperatures

During test run, the correct operation of the unit can be checked by monitoring its leaving water temperature (heating/cooling mode) and tank temperature (domestic hot water mode).

To monitor the temperatures:

	1	In the menu, go to Sensors.	(€○
ſ	2	Select the temperature information.	1 000000

8.2.4 To perform an actuator test run

Conditions: Make sure all operation is disabled. Go to [C]: Operation and turn off Space heating/cooling and Tank operation.

Purpose

Perform an actuator test run to confirm the operation of the different actuators. For example, when you select Pump, a test run of the pump will start.

1	Set the user change the u	_	
2	Go to [A.2]:	: @○	
3	Select a test from the list. Example: Pump.		
4	Select 0K to confirm.		
	Result: The actuator test run starts. It stops automatically when ready (±30 min).		
	To stop the test run manually:		
	1 In the me	nu, go to Stop test run.	1 €○
	2 Select 0K	to confirm.	(@;○

Possible actuator test runs

- Backup heater 1 test
- Backup heater 2 test
- Pump test



INFORMATION

Make sure that all air is purged before executing the test run. Also avoid disturbances in the water circuit during the test run.

- Shut off valve test
- Diverter valve test (3-way valve for switching between space heating and tank heating)
- Bivalent signal test
- Alarm output test
- C/H signal test
- DHW pump test
- Bizone kit direct pump test (bizone kit EKMIKPOA or EKMIKPHA)
- Bizone kit mixed pump test (bizone kit EKMIKPOA or EKMIKPHA)

Bizone kit mixing valve test (bizone kit EKMIKPOA or EKMIKPHA)

8.2.5 To perform an underfloor heating screed dryout

Conditions: Make sure all operation is disabled. Go to [C]: Operation and turn off Space heating/cooling and Tank operation.

1	Set the user permission level to Installer. See "To change the user permission level" [> 28].	_	
2	Go to [A.4]: Commissioning > UFH screed dryout.	1 €○	
3	3 Set a dryout program: go to Program and use the UFH screed dryout programming screen.		
4	Select 0K to confirm.	○⊌¥	
	Result: The underfloor heating screed dryout starts. It stops automatically when done.		
	To stop the test run manually: —		
	1 Go to Stop UFH screed dryout.	(€○	
	2 Select 0K to confirm.	1 €○	



NOTICE

To perform an underfloor heating screed dryout, room frost protection needs to be disabled ([2-06]=0). By default, it is enabled ([2-06]=1). However, due to the "installer-on-site" mode (see "Commissioning"), room frost protection will be automatically disabled for 12 hours after the first power-on.

If the screed dryout still needs to be performed after the first 12 hours of power-on, manually disable room frost protection by setting [2-06] to "0", and KEEP it disabled until the screed dryout has finished. Ignoring this notice will result in cracking of the screed.



NOTICE

For the underfloor heating screed dryout to be able to start, make sure the following settings are met:

- **•** [4-00]=1
- [C-02]=0
- [D-01]=0
- [4-08]=0
- **•** [4-01]≠1

9 Hand-over to the user

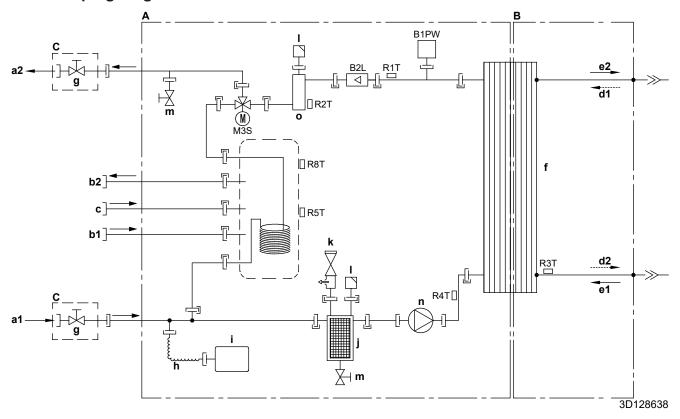
Once the test run is finished and the unit operates properly, please make sure the following is clear for the user:

- Fill in the installer setting table (in the operation manual) with the actual settings.
- Make sure that the user has the printed documentation and ask him/her to keep it for future reference. Inform the user that he can find the complete documentation at the URL mentioned earlier in this manual.
- Explain the user how to properly operate the system and what to do in case of problems.
- Show the user what to do for the maintenance of the unit.
- Explain the user about energy saving tips as described in the operation manual.

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 Business Portal (authentication required).

10.1 Piping diagram: Indoor unit



- Water side
- Refrigerant side
- Field installed (delivered with the unit)
- Space heating/cooling Water IN (screw connection, 1")
 Space heating/cooling Water OUT (screw connection, 1")
 DHW Cold water IN (screw connection, 3/4")
 DHW Hot water OUT (screw connection, 3/4")

- Recirculation connection
- Gas refrigerant IN (heating mode; condenser)
- Liquid refrigerant OUT (heating mode; condenser) Liquid refrigerant IN (cooling mode; evaporator) Gas refrigerant OUT (cooling mode; evaporator)

- Plate heat exchanger
- Shut-off valve for service
- Flexible pipe
- Expansion vessel
- Magnetic filter/dirt separator
- Safety valve Automatic air purge
- Drain valve
- Pump
- Backup heater

B2L Flow sensor

B1PW Space heating water pressure sensor

M₃S 3-way valve (space heating/domestic hot water)

Thermistors:

R1T Outlet water heat exchanger R2T Outlet water backup heater R3T Refrigerant liquid side R4T Inlet water

R5T, R8T Tank

Connections:



10.2 Wiring diagram: Indoor unit

See the internal wiring diagram supplied with the unit (on the inside of the indoor unit switch box cover). The abbreviations used are listed below.

Notes to go through before starting the unit

English	Translation
Notes to go through before	Notes to go through before
starting the unit	starting the unit
X1M	Main terminal
X2M	Field wiring terminal for AC
X5M	Field wiring terminal for DC
X6M	Backup heater power supply
XOW	terminal
X10M	Smart Grid terminal
	Earth wiring
	Field supply
(1)	Several wiring possibilities
	Option
[]	Not mounted in switch box
	Wiring depending on model
	PCB
Note 1: Connection point of the	Note 1: Connection point of the
power supply for the BUH	power supply for the backup
should be foreseen outside the	heater heater should be foreseen
unit.	outside the unit.
Backup heater power supply	Backup heater power supply
□ 6T1 (3~, 230 V, 6 kW)	☐ 6T1 (3~, 230 V, 6 kW)
□ 6V3 (1N~, 230 V, 6 kW)	□ 6V3 (1N~, 230 V, 6 kW)
□ 6WN/9WN (3N~, 400 V, 6/9 kW)	□ 6WN/9WN (3N~, 400 V, 6/9 kW)
User installed options	User installed options
☐ Remote user interface	☐ Dedicated Human Comfort
Tremote deer interidee	Bedicated Haman Connect
	Interface (BRC1HHDA used as
	Interface (BRC1HHDA used as room thermostat)
☐ Ext. indoor thermistor	
☐ Ext. indoor thermistor ☐ Ext outdoor thermistor	room thermostat)
	room thermostat) □ External indoor thermistor
Ext outdoor thermistor	room thermostat) □ External indoor thermistor □ External outdoor thermistor
☐ Ext outdoor thermistor ☐ Digital I/O PCB	room thermostat) □ External indoor thermistor □ External outdoor thermistor □ Digital I/O PCB
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB	room thermostat) □ External indoor thermistor □ External outdoor thermistor □ Digital I/O PCB □ Demand PCB
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid	room thermostat) □ External indoor thermistor □ External outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module	room thermostat) □ External indoor thermistor □ External outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge	room thermostat) □ External indoor thermistor □ External outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit	room thermostat) External indoor thermistor External outdoor thermistor Digital I/O PCB Demand PCB Safety thermostat Smart Grid WLAN module WLAN cartridge Bizone mixing kit
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main LWT	room thermostat) □ External indoor thermistor □ External outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main leaving water temperature
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main LWT □ On/OFF thermostat (wired)	room thermostat) □ External indoor thermistor □ External outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main leaving water temperature □ ON/OFF thermostat (wired)
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main LWT □ On/OFF thermostat (wired) □ On/OFF thermostat (wireless)	room thermostat) External indoor thermistor External outdoor thermistor Digital I/O PCB Demand PCB Safety thermostat Smart Grid WLAN module WLAN cartridge Bizone mixing kit Main leaving water temperature ON/OFF thermostat (wired) ON/OFF thermostat (wireless)
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main LWT □ On/OFF thermostat (wired) □ Con/OFF thermostat (wireless) □ Ext. thermistor	room thermostat) □ External indoor thermistor □ External outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main leaving water temperature □ ON/OFF thermostat (wired) □ ON/OFF thermostat (wireless) □ External thermistor
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main LWT □ On/OFF thermostat (wired) □ On/OFF thermostat (wireless) □ Ext. thermistor □ Heat pump convector	room thermostat) □ External indoor thermistor □ External outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main leaving water temperature □ ON/OFF thermostat (wired) □ ON/OFF thermostat (wireless) □ External thermistor □ Heat pump convector
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main LWT □ On/OFF thermostat (wired) □ Con/OFF thermostat (wireless) □ Ext. thermistor	room thermostat) □ External indoor thermistor □ External outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main leaving water temperature □ ON/OFF thermostat (wired) □ ON/OFF thermostat (wireless) □ External thermistor
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main LWT □ On/OFF thermostat (wired) □ On/OFF thermostat (wireless) □ Ext. thermistor □ Heat pump convector	room thermostat) □ External indoor thermistor □ External outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main leaving water temperature □ ON/OFF thermostat (wired) □ ON/OFF thermostat (wireless) □ External thermistor □ Heat pump convector Additional leaving water
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main LWT □ On/OFF thermostat (wired) □ On/OFF thermostat (wireless) □ Ext. thermistor □ Heat pump convector Add LWT	room thermostat) External indoor thermistor External outdoor thermistor Digital I/O PCB Demand PCB Safety thermostat Smart Grid WLAN module WLAN cartridge Bizone mixing kit Main leaving water temperature ON/OFF thermostat (wired) CN/OFF thermostat (wireless) External thermistor Heat pump convector Additional leaving water temperature ON/OFF thermostat (wireless)
□ Ext outdoor thermistor □ Digital I/O PCB □ Demand PCB □ Safety thermostat □ Smart Grid □ WLAN module □ WLAN cartridge □ Bizone mixing kit Main LWT □ On/OFF thermostat (wired) □ Con/OFF thermostat (wireless) □ Ext. thermistor □ Heat pump convector Add LWT □ On/OFF thermostat (wired)	room thermostat) External indoor thermistor External outdoor thermistor Digital I/O PCB Demand PCB Safety thermostat Smart Grid WLAN module WLAN cartridge Bizone mixing kit Main leaving water temperature ON/OFF thermostat (wired) CN/OFF thermostat (wireless) External thermistor Heat pump convector Additional leaving water temperature ON/OFF thermostat (wireless)

Position in switch box

English	Translation
Position in switch box	Position in switch box

Legend

Legena		
A1P		Main PCB
A2P	*	ON/OFF thermostat (PC=power circuit)
A3P	*	Heat pump convector
A4P	*	Digital I/O PCB
A8P	*	Demand PCB
A11P		Main PCB of the MMI (= user interface of the indoor unit)
A14P	*	PCB of the dedicated Human Comfort Interface (BRC1HHDA used as room thermostat)
A15P	*	Receiver PCB (wireless ON/OFF thermostat)
A20P	*	WLAN module
A30P	*	Bizone mixing kit PCB
CN* (A4P)	*	Connector
DS1(A8P)	*	DIP switch
F1B	#	Overcurrent fuse backup heater
F1U, F2U (A4P)	*	Fuse 5 A 250 V for digital I/O PCB
K1A, K2A	*	High voltage Smart Grid relay
K1M, K2M		Contactor backup heater
K5M		Safety contactor backup heater
K*R (A4P)		Relay on PCB
M2P	#	Domestic hot water pump
M2S	#	2-way valve for cooling mode
PC (A15P)	*	Power circuit
PHC1 (A4P)	*	Optocoupler input circuit
Q1L		Thermal protector backup heater
Q4L	#	Safety thermostat
Q*DI	#	Earth leakage circuit breaker
R1H (A2P)	*	Humidity sensor
R1T (A2P)	*	Ambient sensor ON/OFF thermostat
R2T (A2P)	*	External sensor (floor or ambient)
R6T	*	External indoor or outdoor ambient thermistor
S1S	#	Preferential kWh rate power supply contact
S2S	#	Electrical meter pulse input 1
S3S	#	Electrical meter pulse input 2
S4S	#	Smart Grid feed-in
S6S~S9S	*	Digital power limitation inputs
S10S-S11S	#	Low voltage Smart Grid contact
SS1 (A4P)	*	Selector switch
TR1		Power supply transformer
X6M	#	Backup heater power supply terminal strip
X10M	*	Smart Grid power supply terminal strip
X*, X*A, X*Y*, Y*		Connector
X*M		Terminal strip

^{*} Optional

Translation of text on wiring diagram

English	Translation
(1) Main power connection	(1) Main power connection

[#] Field supply

10 Technical data

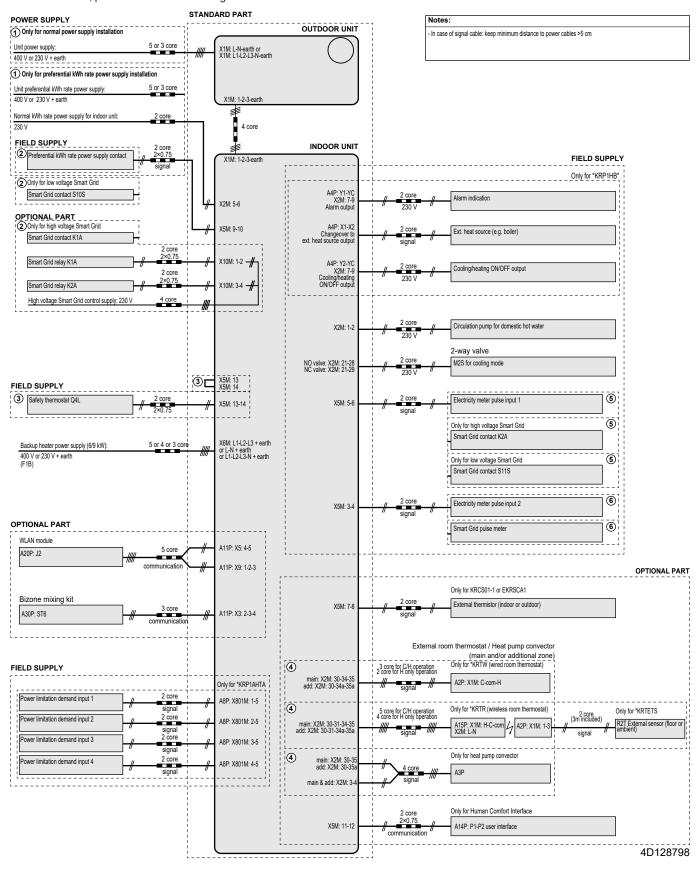
English	Translation
For HP tariff	For heat pump tariff
Indoor unit supplied from outdoor	Indoor unit supplied from outdoor
Normal kWh rate power supply	Normal kWh rate power supply
Only for normal power supply (standard)	Only for normal power supply (standard)
Only for preferential kWh rate power supply (outdoor)	Only for preferential kWh rate power supply (outdoor)
Outdoor unit	Outdoor unit
Preferential kWh rate power supply contact: 16 V DC detection (voltage supplied by PCB)	Preferential kWh rate power supply contact: 16 V DC detection (voltage supplied by PCB)
SWB	Switch box
Use normal kWh rate power supply for indoor unit	Use normal kWh rate power supply for indoor unit
(2) Backup heater power supply	(2) Backup heater power supply
Only for ***	Only for ***
(3) User interface	(3) User interface
Only for remote user interface	Only for the dedicated Human Comfort Interface (BRC1HHDA used as room thermostat)
SD card	Card slot for WLAN cartridge
SWB	Switch box
WLAN cartridge	WLAN cartridge
(5) Ext. thermistor	(5) External thermistor
SWB	Switch box
(6) Field supplied options	(6) Field supplied options
12 V DC pulse detection (voltage supplied by PCB)	12 V DC pulse detection (voltage supplied by PCB)
230 V AC Control Device	230 V AC Control Device
230 V AC supplied by PCB	230 V AC supplied by PCB
Bizone mixing kit	Bizone mixing kit
Continuous	Continuous current
DHW pump output	Domestic hot water pump output
DHW pump	Domestic hot water pump
Electrical meters	Electrical meters
For HV smartgrid	For high voltage Smart Grid
For LV smartgrid	For low voltage Smart Grid
For safety thermostat	For safety thermostat
For smartgrid	For Smart Grid
Inrush	Inrush current
Max. load	Maximum load
Normally closed	Normally closed
Normally open	Normally open
Safety thermostat contact: 16 V DC detection (voltage supplied by PCB)	Safety thermostat contact: 16 V DC detection (voltage supplied by PCB)
Shut-off valve	Shut-off valve
Smartgrid contacts	Smart Grid contacts
Smartgrid PV power pulse meter	Smart Grid photovoltaic power pulse meter
SWB	Switch box
(7) Option PCBs	(7) Option PCBs
Alarm output	Alarm output
Changeover to ext. heat source	Changeover to external heat source
Max. load	Maximum load

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English	Translation
Min. load	Minimum load
Only for demand PCB option	Only for demand PCB option
Only for digital I/O PCB option	Only for digital I/O PCB option
Options: ext. heat source output, alarm output	Options: external heat source output, alarm output
Options: On/OFF output	Options: ON/OFF output
Power limitation digital inputs: 12 V DC / 12 mA detection (voltage supplied by PCB)	Power limitation digital inputs: 12 V DC / 12 mA detection (voltage supplied by PCB)
Space C/H On/OFF output	Space cooling/heating ON/OFF output
SWB	Switch box
(8) External On/OFF thermostats and heat pump convector	(8) External ON/OFF thermostats and heat pump convector
Additional LWT zone	Additional leaving water temperature zone
Main LWT zone	Main leaving water temperature zone
Only for external sensor (floor/ ambient)	Only for external sensor (floor or ambient)
Only for heat pump convector	Only for heat pump convector
Only for wired On/OFF thermostat	Only for wired ON/OFF thermostat
Only for wireless On/OFF thermostat	Only for wireless ON/OFF thermostat

Electrical connection diagram

For more details, please check the unit wiring.









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