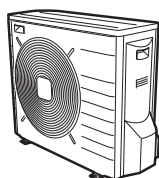




Installation manual

ROTEX HPSU low temperature Bi-bloc



RRLQ004CAV3
RRLQ006CAV3
RRLQ008CAV3

Installation manual
ROTEX HPSU low temperature Bi-bloc

English

CE - DECLARATION OF CONFORMITY
CE - KONFORMITÄTSSERKLÄRUNG
CE - DICHLARAZIONE DI CONFORMITÀ
CE - ДИКЛАЗАЦІЯ СПИВІДПОВІДНОСТІ
CE - FORSKÄRAN OM ÖVERENSSTÄMMELSE

CE - DECLARAÇÃO DE CONFORMIDADE
CE - ЗАВІДНЕННЯ ПРО ВІДПОВІДНІСТЬ
CE - OVERENSSTEMMELSESERKLÆRING
CE - FORSKÄRAN OM ÖVERENSSTÄMMELSE

CE - ERKLÄRUNG OM SAMSVAR
CE - ЛІЦЕНЗІЯ НА ВІДПОВІДНІСТЬ
CE - DECLARAÇÃO DE CONFORMIDADE

CE - IZJAVA O SKLADNOSTI
CE - MEGFELELŐSEGI NYILATKOZAT
CE - DEKLARACJA ZGODNOŚCI
CE - DECLARAȚIE DE CONFORMITATE

CE - IZJAVA O SKLADNOSTI
CE - VASTAVUSEKILARITUSOON
CE - ДЕКЛАРАЦИЯ СООТВЕТСТВИЕ
CE - УПОСЛУЖИВАЊИЈА

CE - ATTIKITES-DEKLARACIJA
CE - ATBILSTĪBAS DEKLARĀCIJA
CE - VYHLÁŠENIE ZHODY
CE - УПОСЛУЖИВАЊИЈА

ROTEX

- 01 06 declares under its sole responsibility that the equipment to which this declaration relates:
- 02 06 erklärt auf seine alleinige Verantwortung, daß die Ausrüstung für die diese Erklärung bestimmt ist:
- 03 06 déclare sous sa seule responsabilité que l'équipement visé par la présente déclaration:
- 04 06 verklaart herbij te eigen exclusieve verantwoordelijkheid dat de apparatuur waaraan deze verklaring betrekking heeft:
- 05 06 declara bajo su única responsabilidad que el equipo al que hace referencia la declaración:
- 06 06 dichiara sotto la propria responsabilità che gli apparecchi a cui è riferita questa dichiarazione:
- 07 06 объявляет по своей исключительной ответственности, что оборудование к которому относится данная декларация:
- 08 06 declara sub sua exclusiva responsabilitate că ős echipamentele a căreia această declarație se referă:

RRLQ004CAV3, RRLQ006CAV3, RRLQ008CAV3,

- 01 are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions:
- 02 deriden følgende Norm(en) eller anden anden Normdokument eller -dokumenter enskriftenskriftet, under det Voresættning, dās sie gemās:
- 03 conformer aux normes (ou autres) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions:
- 04 conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies:
- 05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normativo(s), siempre que sean utilizados de acuerdo con nuestras instrucciones:
- 06 sono conformi al(l) seguente(s) standard(s) o altro(i) document(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:
- 07 ёван адпавядае ў адпаведнасці з наступнымі (і) адным (і) з наступных (і) нормаў (і) дакументаў (і) з характэрнамі нормаў (і) з наступных (і) інструкцый:
- 08 в соответствии с следующими нормами (и) или другими нормативными документами (и), изъят да се они користе у складу с нашим гулама:

EN60335-2-40,

- 01 following the provisions of:
- 02 gemäß den Vorschriften der:
- 03 conformément aux stipulations des:
- 04 overeenkomstig de bepalingen van:
- 05 secondo le disposizioni de:
- 06 sporen de prescripti par:
- 07 је тпрпори по допсцкзур нур:
- 08 de acordo com o previsto em:
- 09 в соответствии с положениями:

- 19 об издательств добо:
- 20 vastavalt nõude:
- 21 enpavati kravame na:
- 22 laksnis nostatu, pateikiamu:
- 23 vajadzības prasības, kas noteiktas:
- 24 odzračuju ustanova:
- 25 bunni kaspilama uguni darak:

- 11 Information*
- 12 Merk*
- 13 Huom*
- 14 Poznámka*
- 15 Napomena*

- enligt <A> och godkänns av enligt
- Certifikat <C>
- son det itemummer <A> og gjenom positiv
- bestemmelse av illogte
- poita on esitellyt asakirissa <A> ja joita
- on hyväksynyt Sertifikaatin <C> mukaisesti.
- v suodaksi <A> ja positiivne zjeleno
- kako je izloženo u <A> pozitivno odgojenno od strane
- prema Certificatu <C>

Low Voltage 2014/35/EU
Electromagnetic Compatibility 2014/30/EU

- 16 Megjegyzés*
- 17 Uwaga*
- 18 Nota*
- 19 Opomba*
- 20 Märkus*

- 21 Zabeleška*
- 22 Pastaba*
- 23 Piezīmes*
- 24 Poznámka*
- 25 Not*

- 01 Directives, as amended
- 02 Direktiven, gemäß Änderung
- 03 Directies, teles que modifies
- 04 Richtlijnen, zoals geamanderd
- 05 Directies, según la modificación
- 06 Direktive, come la modifica
- 07 Ohjelmot, muutetut korjauksin
- 08 Directivas, conforme alteração em
- 09 Директива, измененная поправками

- 18 Direktiiv, cu amendamentele respective
- 19 Direktiva, med förändring ändringar
- 20 Direktiv, med forættelse ændringer
- 21 Direktiv, koss muudatustega
- 22 Direktiwa, sełsisina kulin ne ora muadettuna
- 23 Direktiwa, s reformu izmewienia
- 24 Direktiwa, s paroljuma
- 25 Direktiwa, s izmewienjemo
- 26 Sprenca, kato je izmewjemo
- 27 řizení (lek) es moudoskaski vevěkešesit
- 28 Smerice, y planoni zreni
- 29 Dejsiminsis telenje Foreneikler

09 06 заявляет, исключительно под свою ответственность, что оборудование, к которому относится настоящее заявление:

- 10 06 erklärt unter eigenverantwortig, aufseyneit, som er omfattet af denne erklæring:
- 11 06 déclare sous sa responsabilité, que l'équipement visé par la présente déclaration inenelr att:
- 12 06 verklaart herbij te eigen exclusieve verantwoordelijkheid dat de apparatuur waaraan deze verklaring inenelr att:
- 13 06 dichiara sotto la propria responsabilità che gli apparecchi a cui è riferita questa dichiarazione:
- 14 06 объявляет по своей исключительной ответственности, что оборудование к которому относится данное заявление:
- 15 06 declara sub sua exclusiva responsabilitate că ős echipamentele a căreia această declarație se referă:

- 08 esābā en conformitate cu al(s) seguinte(s) norma(s) (u otro(s) document(s) normativo(s)), decde que estes sejam utilizados de acordo com as nossas instruções:
- 09 ооветствую исключительно под свою ответственность, что оборудование, к которому относятся наши инструкции:
- 10 ovenholder følgende standard(er) eller andet/andre tekniske dokument(er), forudsat at disse anvendes i henhold til vore instruktioner:
- 11 respectve utstilling a vtrid i overensstemmelse med det følger følgende standard(er) eller andra normgivande dokument, under förutsättning att användning sker i överensstemmelse med våra instruktioner:
- 12 respectve uslyer i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutsetning av at disse brukes i henhold til våre instruksjoner:
- 13 vasaavak seuraavien standardien ja muiden ohjeistien dokumenttien vaatimuksia edellytään että niitä käytetään ohjeidenm mukaisesti:
- 14 za předpokladu, že jsou využívány v souladu s našimi pokyny, odpovídají následujícím normám nebo normativním dokumentům:
- 15 u skladu sa slijedećim standardom(ima) ili drugim normativnim dokumentom(ima), uz uvjet da se oni koriste u skladu s našim guutama:

- 16 megjelenek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azok előírás szerinti hasznárlják:
- 17 spurs in conformite cu următoarele norme (sau alte documente) normative, cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre:
- 18 skaidni z nasekojumi standardi in drugi normati, pod pogledom, da se uporablajo v skladu z našimi navodili:
- 19 on vastavuses järgmistele standarditele ga või teiste normatiivsete dokumentidega, kui need kasutatakse vastavalt meie juhenditele:
- 20 ootervestaa ra meiere staapuri kili duri-normatiivsete dokumentidega, kui need kasutatakse vastavalt meile juhenditele:
- 21 atinka žemai, nurodymis standartu s (ana) kitus normiivset dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus:
- 22 tad, ja leiti atbilstošā ražotāja norādījumiem, atbilst sekojošiem standartiem un citiem normatīviem dokumentiem:
- 23 su i zhode s nasekojumi(n) normo(ami) alebo tym(i) normatívnymi dokumentami, za predpokladu, že sa používajú v súlade s našimi navodmi:
- 25 išuotin, taimitalima ga kulanimasi ksu lygia asguojaki standartai ve norm belitren begelerte vyumtuoti:

11 Information*	enligt <A> och godkänns av enligt	16 Megjegyzés*	a/z) <A> alapján a/z) igazolta a megjelölést, a/z)	21 Zabeleška*	karto je odobreno v <A> v oveseno potvorenno ot
12 Merk*	Certifikat <C>	17 Uwaga*	zgodnie z dokumentacją <A> pozytywną	22 Pastaba*	caruacio Certipuvama <C>
13 Huom*	son det itemummer <A> og gjenom positiv	18 Nota*	bestemmelse av illogte	23 Piezīmes*	kapitusaite <A> n kalp bēlganai nuspūsta pagal
14 Poznámka*	poita on esitellyt asakirissa <A> ja joita 	19 Opomba*	on hyväksynyt Sertifikaatin <C> mukaisesti.	24 Poznámka*	Sertifika <C>
15 Napomena*	 v suodaksi <A> ja positiivne zjeleno	20 Märkus*	kako je izloženo u <A> pozitivno odgojenno od strane	25 Not*	ka nodatis <A> un atbilstoš pozitīvajam vērtējumam
	Certifikat <C>		 prema Certificatu <C>		saskatā ar sertifikatu <C>
					ako bolo uvereia v <A> a pozitīvie zstēne v slade
					s osvedēdām <C>
					latamini olumi darak degeleritindig gbe.

3PW68004-7E

ROTEX Heating Systems GmbH
Langwiesenstraße 10 · D-74363 Güglingen

Georg Blümel
Managing Director
1st of April 2016



ROTEX

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1 About the documentation

1.1 About this document

Target audience

Authorised installers

Documentation set

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

- **General safety precautions:**
 - Safety instructions that you must read before installing
 - Format: Paper (in the box of the indoor unit)
- **Indoor unit installation manual:**
 - Installation instructions
 - Format: Paper (in the box of the indoor unit)
- **Outdoor unit installation manual:**
 - Installation instructions
 - Format: Paper (in the box of the outdoor unit)

- **Installer reference guide:**
 - Preparation of the installation, good practices, reference data,...
 - Format: Digital files on the ROTEX homepage
- **Addendum book for optional equipment:**
 - Additional info about how to install optional equipment
 - Format: Paper (in the box of the indoor unit) + Digital files on the ROTEX homepage

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

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

2 About the box

2.1 Outdoor unit

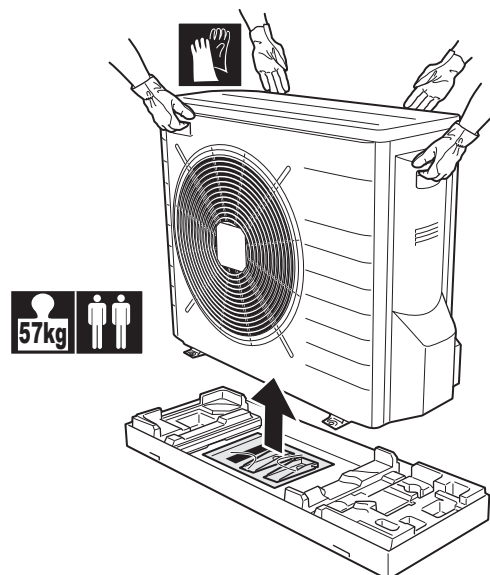
2.1.1 To remove the accessories from the outdoor unit

- 1 Lift the outdoor unit.

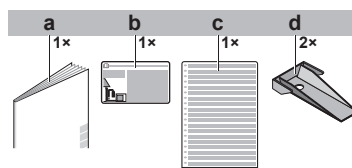


CAUTION

Only handle the outdoor unit as follows:



- 2 Remove the accessories at the bottom of the package.



- a Outdoor unit installation manual
- b Fluorinated greenhouse gases label
- c Multilingual fluorinated greenhouse gases label
- d Unit mounting plate

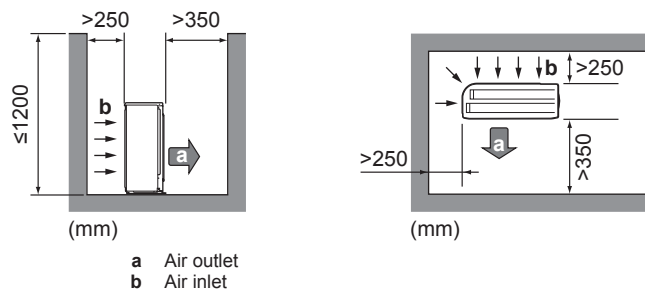
3 Preparation

3 Preparation

3.1 Preparing the installation site

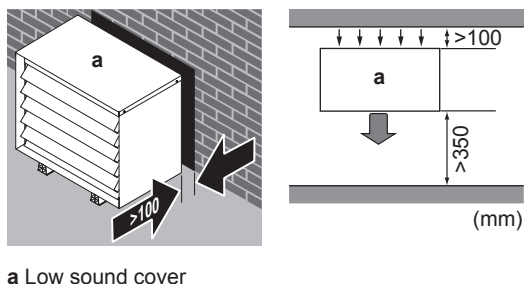
3.1.1 Installation site requirements of the outdoor unit

Mind the following spacing guidelines:



i INFORMATION

In sound sensitive areas (e.g. near a bedroom), you can install the low sound cover (EKLN08A1) to decrease the operation noise of the outdoor unit. If you install it, mind the following spacing guidelines:



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

Cooling mode	10~43°C
Heating mode	-25~25°C

4 Installation

4.1 Opening the units

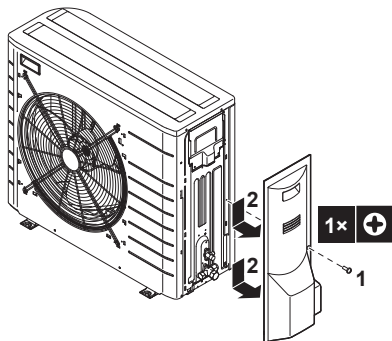
4.1.1 To open the outdoor unit



DANGER: RISK OF ELECTROCUTION



DANGER: RISK OF BURNING



4.2 Mounting the outdoor unit

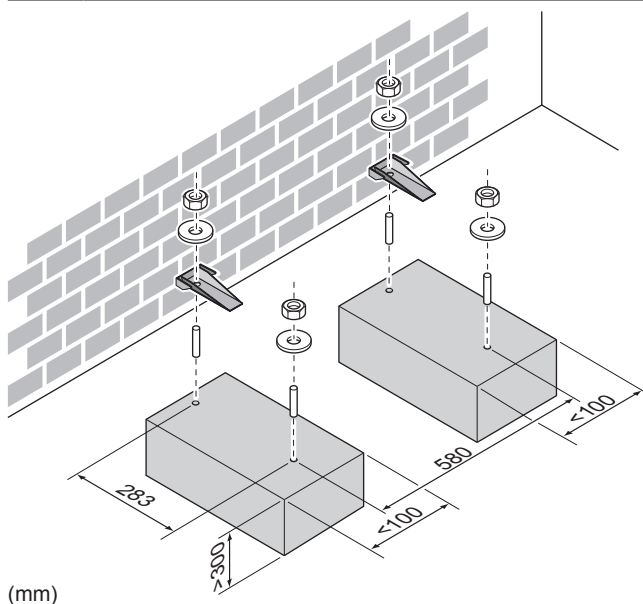
4.2.1 To provide the installation structure

If the unit is installed directly on the floor, prepare 4 sets of M8 or M10 anchor bolts, nuts and washers (field supply) as follows:

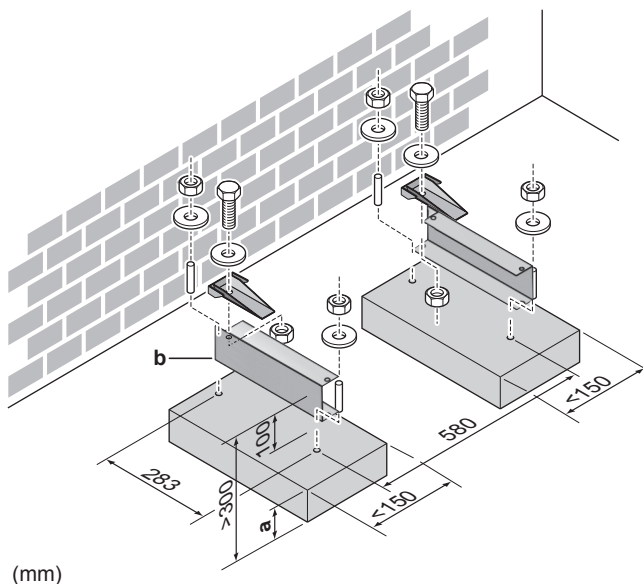


INFORMATION

The maximum height of the upper protruding part of the bolts is 15 mm.

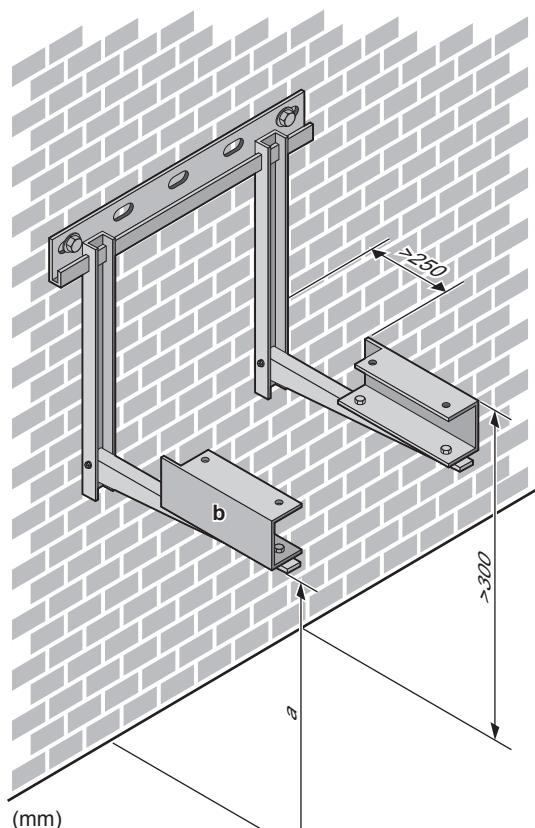


In any case, provide at least 300 mm of free space below the unit. Additionally, make sure the unit is positioned at least 100 mm above the maximum expected level of snow. In this case, it is recommended to construct a pedestal, and on this pedestal install the EKFT008CA option kit.

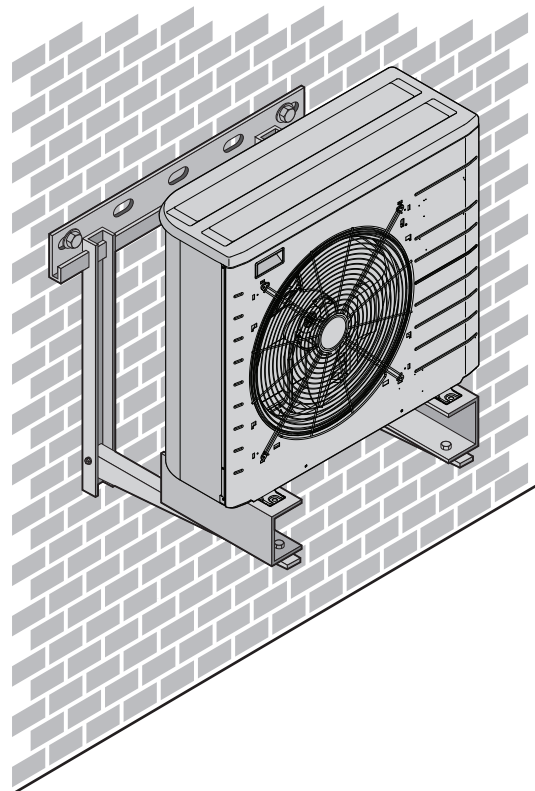


a Maximum snowfall height
b EKFT008CA option kit

If the unit is installed on brackets to the wall, it is recommended to use the EKFT008CA option kit and to install the unit as follows:

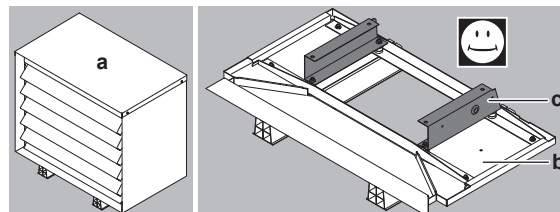


a Maximum snowfall height
b EKFT008CA option kit



INFORMATION

If you install the U-beams in combination with the low sound cover (EKLN08A1), different installation instructions apply for the U-beams. See the installation manual of the low sound cover.



a Low sound cover
b Bottom parts of the low sound cover
c U-beams

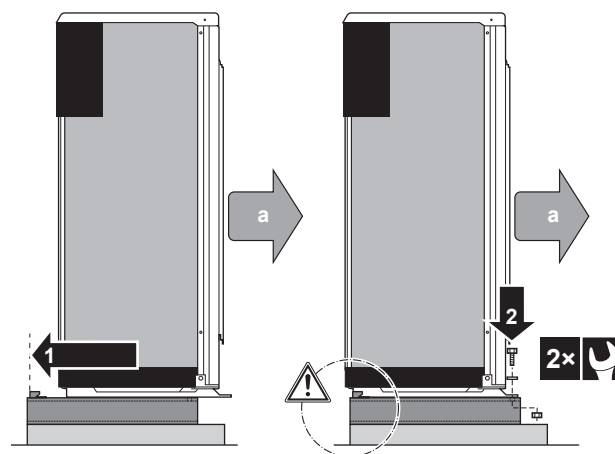
4.2.2 To install the outdoor unit



CAUTION

Do NOT remove the protective cardboard before the unit is installed properly.

- 1 Lift the outdoor unit as described in "2.1.1 To remove the accessories from the outdoor unit" on page 3.
- 2 Install the outdoor unit as follows:



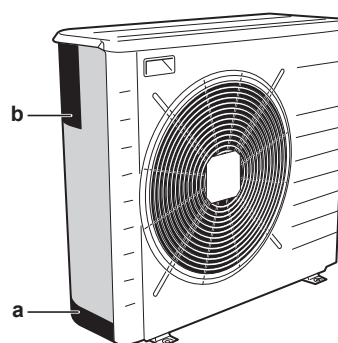
a Air outlet



NOTICE

The pedestal **MUST** be aligned with the backside of the U-beam.

- 3 Remove the protective cardboard and instruction sheet.



a Protective cardboard
b Instruction sheet

4.2.3 To provide drainage

Make sure that condensation water can be evacuated properly.

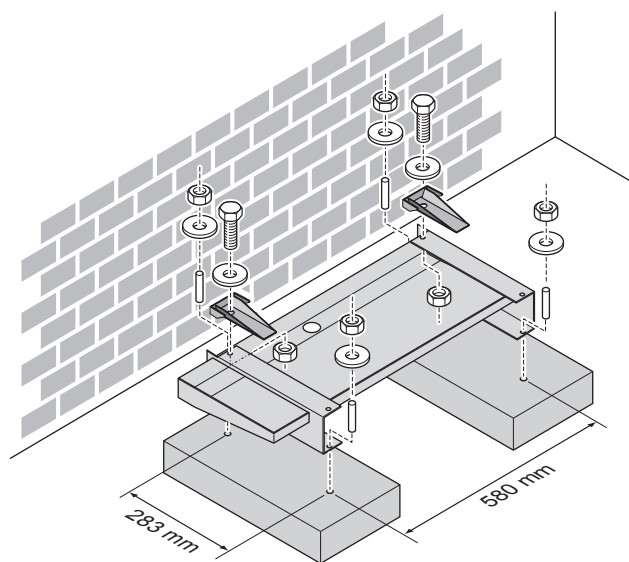
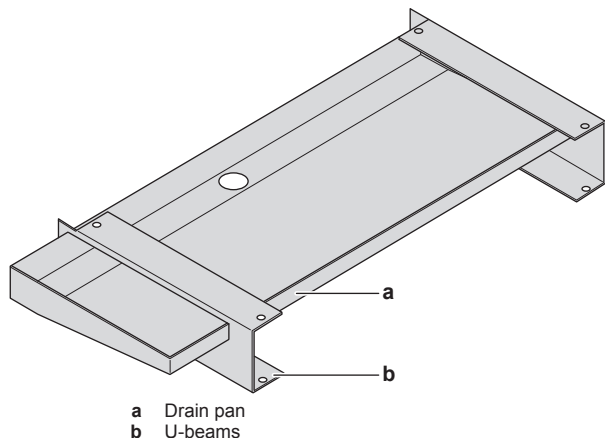
4 Installation



NOTICE

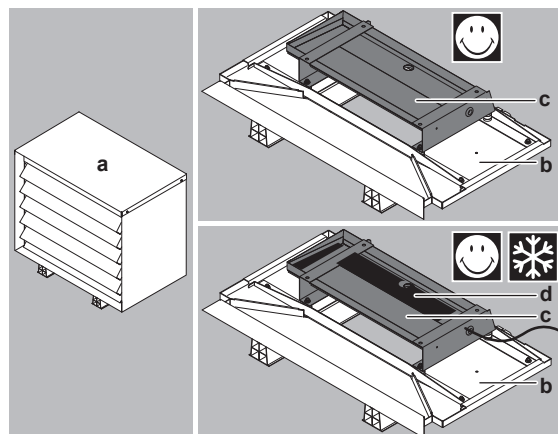
If the drain holes of the outdoor unit are blocked up, provide space of at least 300 mm below the outdoor unit.

An additional drain pan kit (EKDP008CA) can be used to gather the drain water. The drain pan kit consists of:



INFORMATION

If you install the drain pan kit (with or without drain pan heater) in combination with the low sound cover (EKLN08A1), different installation instructions apply for the drain pan kit. See the installation manual of the low sound cover.

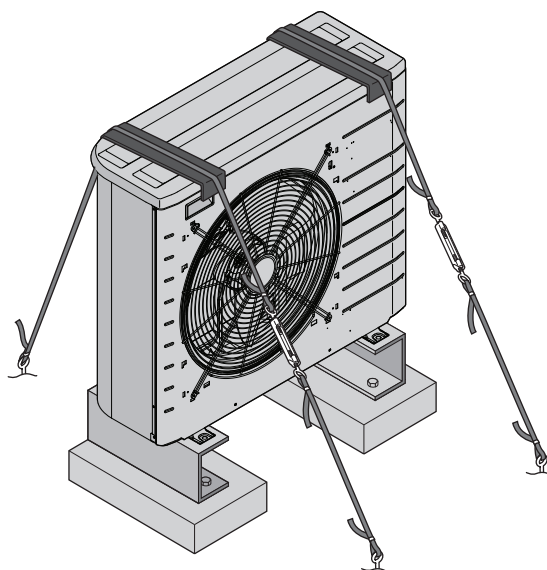


- a Low sound cover
- b Bottom parts of the low sound cover
- c Drain pan kit
- d Drain pan heater

4.2.4 To prevent the outdoor unit from falling over

In case the unit is installed in places where strong wind can tilt the unit, take following measure:

- 1 Prepare 2 cables as indicated in the following illustration (field supply).
- 2 Place the 2 cables over the outdoor unit.
- 3 Insert a rubber sheet between the cables and the outdoor unit to prevent the cables from scratching the paint (field supply).
- 4 Attach the ends of the cables and tighten them.



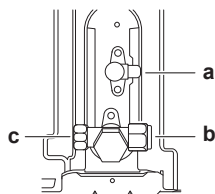
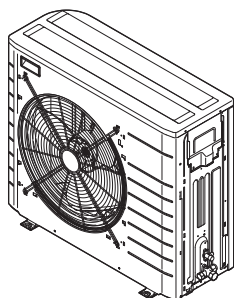
4.3 Connecting the refrigerant piping



DANGER: RISK OF BURNING

4.3.1 To connect the refrigerant piping to the outdoor unit

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



- a Liquid stop valve
b Gas stop valve
c Service port

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



NOTICE

It is recommended that the refrigerant piping between indoor and outdoor unit is installed in a ducting or the refrigerant piping is wrapped with finishing tape.

4.4 Checking the refrigerant piping

4.4.1 To check for leaks



NOTICE

Do NOT exceed the unit's maximum working pressure (see "PS High" on the unit name plate).



NOTICE

Make sure to use a recommended bubble test solution from your wholesaler. Do not use soap water, which may cause cracking of flare nuts (soap water may contain salt, which absorbs moisture that will freeze when the piping gets cold), and/or lead to corrosion of flared joints (soap water may contain ammonia which causes a corrosive effect between the brass flare nut and the copper flare).

- 1 Charge the system with nitrogen gas up to a gauge pressure of at least 200 kPa (2 bar). It is recommended to pressurize to 3000 kPa (30 bar) in order to detect small leaks.
- 2 Check for leaks by applying the bubble test solution to all connections.
- 3 Discharge all nitrogen gas.

4.4.2 To perform vacuum drying

- 1 Vacuum the system until the pressure on the manifold indicates -0.1 MPa (-1 bar).
- 2 Leave as is for 4-5 minutes and check the pressure:

If the pressure...	Then...
Does not change	There is no moisture in the system. This procedure is finished.

If the pressure...	Then...
Increases	There is moisture in the system. Go to the next step.

- 3 Vacuum the system for at least 2 hours to a manifold pressure of -0.1 MPa (-1 bar).
- 4 After turning the pump OFF, check the pressure for at least 1 hour.
- 5 If you do NOT reach the target vacuum or CANNOT maintain the vacuum for 1 hour, do the following:
 - Check for leaks again.
 - Perform vacuum drying again.



NOTICE

Be sure to open the gas stop valve after piping installation and vacuuming. Running the system with the valve closed, the compressor may break down.

4.5 Charging refrigerant

4.5.1 To determine the additional refrigerant amount

If the total liquid piping length is...	Then...
≤10 m	Do NOT add additional refrigerant.
>10 m	$R = (\text{total length (m) of liquid piping} - 10 \text{ m}) \times 0.020$ $R = \text{Additional charge (kg) (rounded in units of 0.1 kg)}$



INFORMATION

Piping length is the one-way length of liquid piping.

4.5.2 To charge additional refrigerant



WARNING

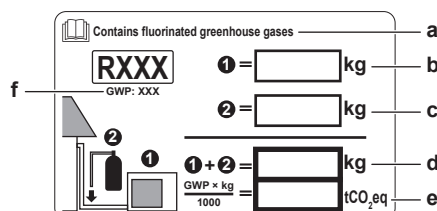
- Only use R410A as refrigerant. Other substances may cause explosions and accidents.
- R410A contains fluorinated greenhouse gases. Its global warming potential (GWP) value is 2087.5. Do NOT vent these gases into the atmosphere.
- When charging refrigerant, always use protective gloves and safety glasses.

Prerequisite: Before charging refrigerant, make sure the refrigerant piping is connected and checked (leak test and vacuum drying).

- 1 Connect the refrigerant cylinder to the service port.
- 2 Charge the additional refrigerant amount.
- 3 Open the gas stop valve.

4.5.3 To fix the fluorinated greenhouse gases label

- 1 Fill in the label as follows:



5 Starting up the outdoor unit

- a If a multilingual fluorinated greenhouse gases label is delivered with the unit (see accessories), peel off the applicable language and stick it on top of a.
- b Factory refrigerant charge: see unit name plate
- c Additional refrigerant amount charged
- d Total refrigerant charge
- e **Greenhouse gas emissions** of the total refrigerant charge expressed as tonnes CO₂ equivalent
- f GWP = Global warming potential



NOTICE

In Europe, the **greenhouse gas emissions** of the total refrigerant charge in the system (expressed as tonnes CO₂ equivalent) is used to determine the maintenance intervals. Follow the applicable legislation.

Formula to calculate the greenhouse gas emissions:
GWP value of the refrigerant × Total refrigerant charge [in kg] / 1000

- 2 Fix the label on the inside of the outdoor unit near the gas and liquid stop valves.

4.6 Connecting the electrical wiring



DANGER: RISK OF ELECTROCUTION

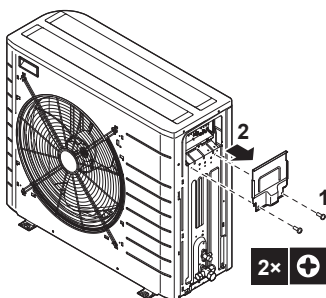


WARNING

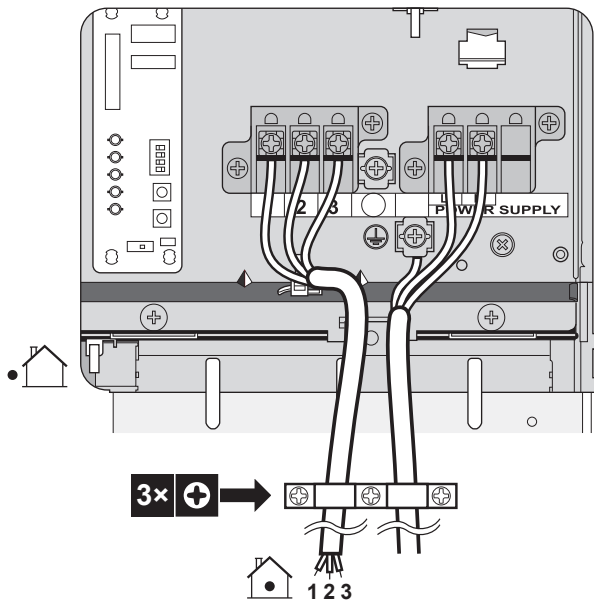
ALWAYS use multicore cable for power supply cables.

4.6.1 To connect the electrical wiring on the outdoor unit

- 1 Remove the 2 switch box cover screws.
- 2 Remove the switch box cover.



- 3 Open the wire clamp.
- 4 Connect the interconnection cable and power supply as follows:

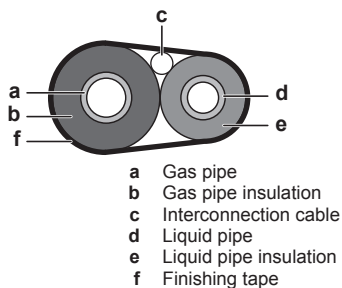


- 5 Install the switch box cover.

4.7 Finishing the outdoor unit installation

4.7.1 To finish the outdoor unit installation

- 1 Insulate and fix the refrigerant piping and interconnection cable as follows:



- 2 Install the service cover.

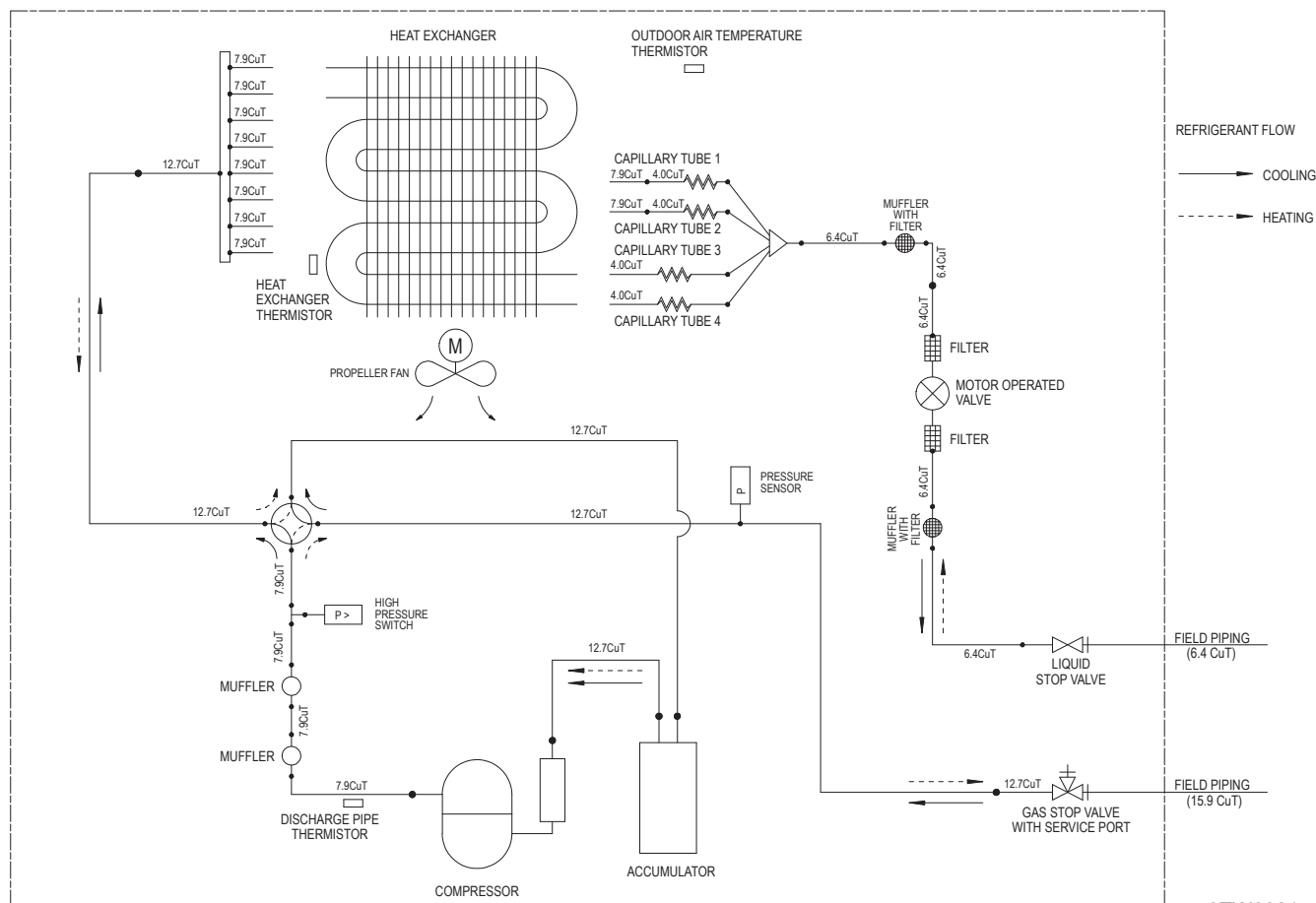
5 Starting up the outdoor unit

See the indoor unit installation manual for configuration and commissioning of the system.

6 Technical data

6.1 Piping diagram: Outdoor unit

OUTDOOR UNIT



3TW60815-1

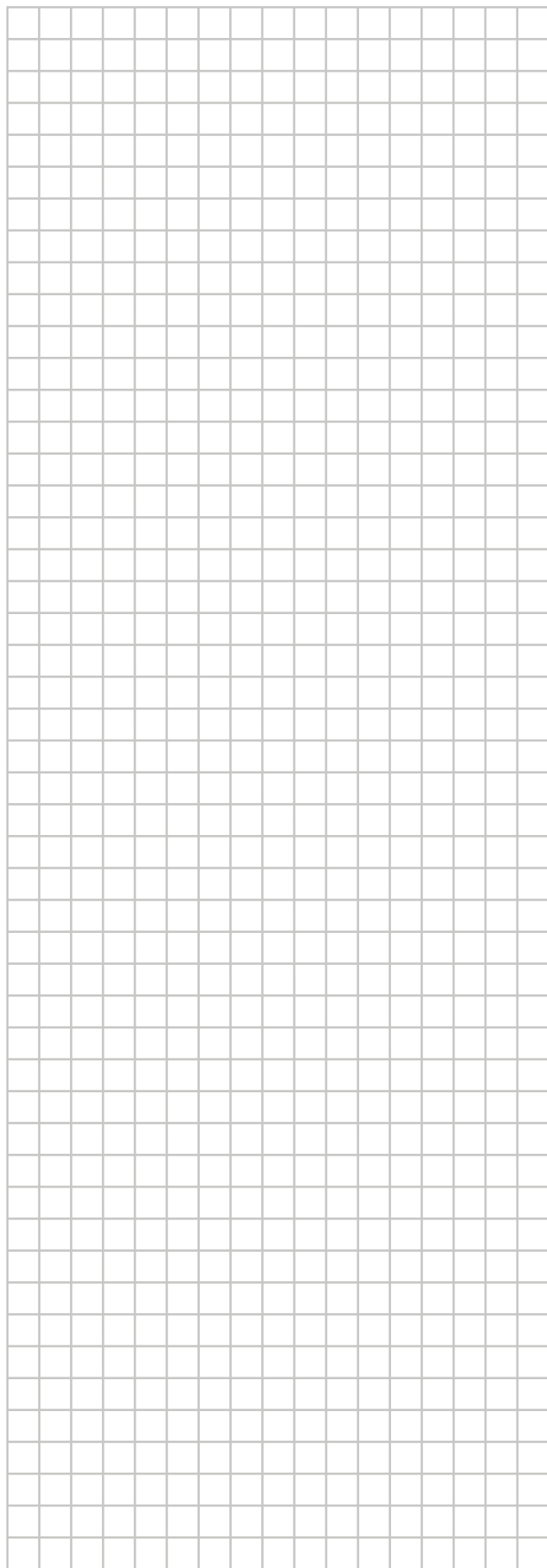
6.2 Wiring diagram: Outdoor unit

See the internal wiring diagram supplied with the unit (on the inside of the top plate). The abbreviations used are listed below.

C110~C112	Capacitor	MR30, MR306, MR307, MR4	Magnetic relay
DB1, DB2, DB401	Rectifier bridge	MRM10, MRM20	Magnetic relay
DC_N1, DC_N2	Connector	MR30_A, MR30_B	Connector
DC_P1, DC_P2	Connector	N	Neutral
DCP1, DCP2,	Connector	PCB1	Printed circuit board (main)
DCM1, DCM2	Connector	PCB2	Printed circuit board (inverter)
DP1, DP2	Connector	PCB3	Printed circuit board (service)
E1, E2	Connector	Q1DI	Earth leakage circuit breaker
E1H	Drain pan heater	Q1L	Overload protector
FU1~FU5	Fuse	R1T	Thermistor (discharge)
HL1, HL2, HL402	Connector	R2T	Thermistor (heat exchanger)
HN1, HN2, HN402	Connector	R3T	Thermistor (air)
IPM1	Intelligent power module	S1NPH	Pressure sensor
L	Live	S1PH	High pressure switch
LED 1~LED 4	Indication lamps	S2~S503	Connector
LED A, LED B	Pilot lamp	SA1	Surge arrestor
M1C	Compressor motor	SHEET METAL	Terminal strip on fixed plate
M1F	Fan motor	SW1, SW3	Push buttons

6 Technical data

SW2, SW5	DIP switches
U	Connector
V	Connector
V2, V3, V401	Varistor
W	Connector
X11A, X12A	Connector
X1M, X2M	Terminal strip
Y1E	Electronic expansion valve coil
Y1R	Reversing solenoid valve coil
Z1C~Z4C	Ferrite core
--■□■□--	Field wiring
□□□□	Terminal strip
⊞	Connector
—○—	Terminal
⏏	Protective earth
BLK	Black
BLU	Blue
BRN	Brown
GRN	Green
ORG	Orange
PPL	Purple
RED	Red
WHT	White
YLW	Yellow





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