

Installation manual

Split system air conditioners



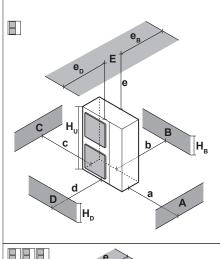


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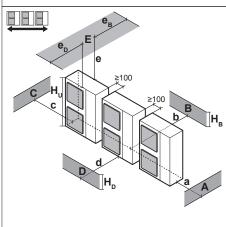
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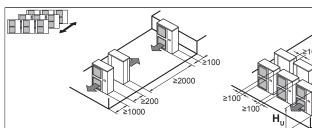
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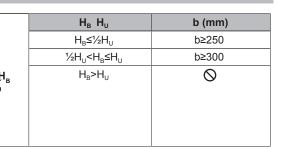


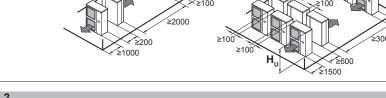
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A~E	F	I _B H _D H _U	а	b	С	d	е	e _B	e _D
В	_			≥100					
A, B, C	_		≥100	≥100	≥100				
B, E	_			≥100			≥1000		≤500
A, B, C, E	_		≥150	≥150	≥150		≥1000		≤500
D	_					≥500			
D, E	_					≥500	≥1000	≤500	
B, D	_			≥100		≥500			
B, D, E	H _B <h<sub>D</h<sub>	H _B ≤½H _U		≥250		≥750	≥1000	≤500	
		½H _U <h<sub>B≤H_U</h<sub>		≥250		≥1000	≥1000	≤500	
		H _B >H _U				0			
	H _B >H _D	H _D ≤½H _U		≥100		≥1000	≥1000		≤500
		½H _U <h<sub>D≤H_U</h<sub>		≥200		≥1000	≥1000		≤500
		H _D >H _U				0			
A, B, C	_		≥200	≥300	≥1000				
A, B, C, E	-		≥200	≥300	≥1000		≥1000		≤500
D	_					≥1000			
D, E	_					≥1000	≥1000	≤500	
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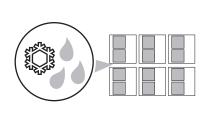


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			½H _U <h<sub>B≤H_U</h<sub>		≥300		≥1250	≥1000	≤500		1
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		H _B >H _D	H _D ≤½H _U		≥250		≥1500	≥1000		≤500	
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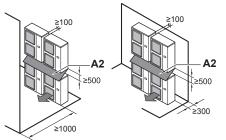






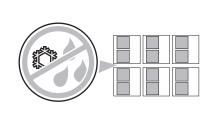


A2

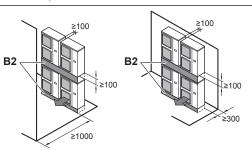


В1

A1



B2



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

គុគុគុ

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

CE - DECLARAÇÃO-DE-CONFORMIDADE CE - 3ARBIEHNE-O-COOTBETCTBИN CE - OVERENSSTEMMELSESERKLÆRING CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE

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

8888

E- IZJAVA-O-USKLAĐENOSTI E- MEGFELELŐSÉGI-NYILATKOZAT E- DEKLARACJA-ZGODNOŚCI E- DECLARAŢIE-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 air conditioning models to which this declaration relates: erklärt auf seine alleinige Verantwortung daß die Modelle der Klimageräte für die diese Erklärung bestimmt ist

déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration:

ponbisbije je saje pire odpojednosti, že modely klimatizoca, k iminž se tod ponbiššeni vzdahuje: zgalujejo od klijudov idenkom odpomoračkou sa medel imite klaje na kleje se sona zglano odnosti tjeje sledičesago ukadada nijelenii. Dong va klimade endezes modelek, meljeviće se njalakoza vonatodak.

RZQG71L9V1B*, RZQG100L9V1B*, RZQG125L9V1B*, RZQG140L9V1B* RZQG71L8Y1B*, RZQG100L8Y1B*, RZQG125L8Y1B*, RZQG140L7Y1B* verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airoonditioning units waarop deze verklaring bettekking heeft. declara baja su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración: dichiera satto sua responsabilità che i condizionation modello a cui è riferita questa dichianzione.

Li producti per modezine il probindi ori princhiza una Automica di consulori cui ora nici compatica ni mapoliora di sulta montra con candi compatica ni mapoliora di della montra con candi compatica ni mapoliora di humori. Consulta caso sua esperaziona per personaliziado e que e con decidiare de personaliziado e que e con decidiare de con moderno de con con con consulta con consulta della consulta RZQSG100L9V1B*, RZQSG125L9V1B*, RZQSG140L9V1B*

заявляет, иколючитьть под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление: enklærer under eneansvar, at kinnaanlaegmodelleme, som denne deklaration vedrarer. dekterari regerskap av huvudensarig, att lufkondioneringsmodelerna som berör sav dema dektaation innebär att. erkterar et fulstend parant fort ald utflordiojeneripatrodelle som berör sav demen dektasjon, innebærer att innoftaa, skornnaan omala vastuulaan että tämän innottisen takoidennat limakoindiateiden malit.

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RZQSG100L8Y1B*, RZQSG125L8Y1B*, RZQSG140L7Y1B*

are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions: deriden folgenden Normlen) oder einem anderen Normobiument oder-dokumenten entsprichtlentsprechen, unter der Voraussetzung, daß sie gemäß sont conformes à lataux norme(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions: unseren Anweisungen eingesetzt werden: 88

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 conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze

sono conformi ali() seguente(i) standard(s) ο altro(i) documento(i) a carattere normativo, a patio che vengano usati in conformità alle nostre istruzioni: είναι σύμφωνα με το(ο) ακόλουθα(ο) πρότυπο(ο) ή άλλο έγγραφο(ο) κανονισμών, υπό την προϋπόθεση ότι χρησιμοπαούντα σύμφωνα με τις οδηγίες μας:

 CODRECTIBION CERTIFICATION UNITY OF THIS PROPRIES AND THE PROPRIES.
 CODRECTIBION CERTIFICATION CONTINUE 08 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acordo com as nossas instruções

annanding sker l'okerensstämmeke med vid a instruktioner. 17. respektiver i overnsstemmeke med fingende stendand(er) eller andre normgivende dokumentlen), under foutssetning av at disse brukes i henhold til dar fastluser.

1 kniku, u vara isunavien sandarden ja mulden ohjeeli slen dokumentien vaalmuksia edeliytäen, että niitä käyketään ohjeidenme mukaisesti. 14 za predpokladu, že jasu využiväny v soudau si našimi pokony, odpovidaji näsketujicim nomiäm nebo nomafinim dokumentium. 15 u skladu sa sijededim sandardom(ma) ili drugim nomafinim dokumentom(ma), uz uyjet da se oni koriste u skladu s našim uputama:

 megleleinek az alábbi szabkánylok/pak vegy-egyéb ízányadó dokumentum(ok)nak, ha azokat előírás szenírt hasznájákk.
 psehiga kympán jassépülegyon min ilnyál odkumenty montalzasyt, pól valarnéh zá útyane a gozónie z naszymi instukcjami;
 sunti nöndrmítae ou umálacut (umálazele jastavále) sau valamentlej normátulej, oz ondítja ca azestes as fie utilizae in conformáte ou statut, unter Ladare in drugini normativi, pod pogojem, da se uporabigio v sidau z nasimi navoditi.
 on varabuses i gronific serbaderi (e) gao i fuebe to mombre de durientidaga, in tred la statabere serastael mele undre les.
 consertrasa in acceptura cratagarum, myny hopotamen postoporo, men program, en extraorio matume mercipuque.
 consertrasa in acceptura caraptarum, myny hopotamen postoporo, men program, en extraorio matume mercipuque.
 at di pie lebit albeita is farbal kilas rommius de dourments si saly ga idad ya raudojemi paga misi nucolymus.
 at di pie lebit albeita is zobigia rozafijumiem patalis seki opisom standariem un cilem normativem dourmentem.
 at y zhoes si sabolis norafijumiem patali (in mention in program) i za predpostatu. Za se použ vajúr, solide s nasim návodom: 25. ürünün, talimatlarımıza göre kullanılması koşuluyla aşağıdaki standarfar ve norm belirten belgelerle uyumludur: instrucţiunile noastre:

01 Directives, as amended. 02 Direktiven, gemäß Andeung. 03 Directives, lelles que modifiees. 04 Richtlijnen, zoals geamendeerd. 05 Directivas, gewin lo ermendado.

*

Machinery 2006/42/EC Low Voltage 2014/35/EU

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

 under iagttagelse af bestemmelserne i:
 enigt villkoren i:
 gitt i henhold til bestemmelsene i:
 noudattaen määräyksiä: 10 under iagtlagdes af bestemmelserne i 11 angrulikoven; 12 girt ihenhold ib bestemmelsene i 13 noddaten määräyksär. 14 za dorfzeni käsinoveli piledpisu: 16 prema orderdama: 16 kövelt al.2); 17 zgodnia z postanowienami Dyrektyw: 18 in urma prevedeling.

1 following the provisions of:
2 gemaß den Vorschriften der:
3 conformément aux stipulations des:
4 overeenkomstig de bepalingen van:

EN60335-2-40

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

Electromagnetic Compatibility 2014/30/EU

Direktiver, med senere ændringer. Direktiv, med förelagna åndringar. Direktiver, med foretatte endringar. Direktivejä, seljaisina kuin ne ovat muulettuina.

18 Directividor, cu amendamentale respective.
19 Direktive v semi spenembani.
20 Direktiva v semi spenembani.
21 Alphorama, ci meura newelenes.
22 Direktivas su papitionias.
23 Direktivas un lopapitionia.
24 Sinemies, y platrom zueni.
25 Obegistiminis halleniye Yorientelikler.
26 Obegistiminis halleniye Yorientelikler.

irányelv(ek) és módosításaik rendelkezéseit. v platném znění. Smjemice, kako je izmijenjeno. z późniejszymi poprawkami. 6 = 5 5 5 5 5 5 UB Diffetiive, conties as mouse...

07 Oõnjuluv, druuç kjouv rpomomonifel.

08 Directivas, conforme alteração em.

09 Директив со всеми nonpaskawa.

a(z) <A> alapján, a(z) igazolta a megfelelést, a(z) 21 Забележка*

16 Megjegyzés*

17 Uwaga* 18 Notă*

enligt <A> och godkänts av enligt
Certifikatet <C>.
som det fremkommer i <A> og gjennom positiv
bedømmelse av fiølge Sertifikat <C>. otka on esitetty asiakirjassa <A> ja jotka on hyväksynyt Sertifikaatin <C> mukaisesti. jak bylo uvedeno v <A> a pozitivně zjištěno v souladu s osvědčením <C>.

11 Information*

22 Pastaba*

C) tanúsítvány szeint zgodnie z dokumentacją <A>, pozytywną opinią i Świadectwem <C>

както е изложено в <A> и оценено положително от

Sertifikatą <C>
kā norādīts <A> un atbilstoši pozitīvajam vērtējumam ako bolo uvedené v <A> a pozitívne zistené v súlade съгласно **Сертификата <С>** kaip nustatyta **<A>** ir kaip teigiamai nuspręsta **** pagal <A>'da belirtildiği gibi ve <C> Sertifikasına göre tarafından olumlu olarak değerlendirildiği gibi. saskaņā ar sertifikātu < s osvedčením <C>.

24 Poznámka*

25 Not*

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

kako je izloženo u <A> i pozitivno odjenjeno od strane 20 Märkus* orema Certifikatu <C>.

как указано в «А» и в соответствии с положительным 14 Poznámka* решенным «В» сотпасно Свидательству «С»: somanfat («A» og positivt vurderet af «В» i herhold til 15 Napomena* Certifikat «С».

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

conformément au Certificat <C>. overeenkomstig Certificaat <C>

03 Remarque* 02 Hinweis*

04 Bemerk*

05 Nota*

10 Bemærk*

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

orio το **(Β>** σύμφωνα με το Πιστοποητικό **<C>**.

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

delineato nel <A> e giudicato positivamente da secondo il Certificato <C>. στυς καθορίζεται στο <A> και κρίνεται θετικά στινός καθορίζεται στο <A> και κρίνεται θετικά

07 Σημείωση*

06 Nota*

as set out in <A> and judged positively by

01 Note*

в соответствии с положениями:

according to the Certificate <C>...

When the Appledithur divior <Bb positive
bearrial genals Zertifikar <Cb.

tel que défini dans <4> et évalué positivement par 08 Nota*.

as a cum este stabilit în <A> și apreciat pozitiv de 23 Piezīmes* în conformitate cu Certificatul <C>

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

19 Opomba*

v skladu s certifikatom <C>.

<A> DAIKIN.TCF.021G27/09-2014 2024351-QUA/EMC02-4565 **DEKRA (NB0344) %** ô

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> Dakin Europe N.V. se baggod min et l'extrisez Onstructionssers semen le sellen.
> Dakin Europe N.V. setá autorizada a compiler el Archino de Construcción Técnica.
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02± 03± 05± 06±

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Dakin Europe NV, on draladu Koosame heniřist dokumatistovin.
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Dakin Europe NV, va jaglalota sudayni ši technineše konstrukcijos fala,
Dakin Europe NV, va jadlota sudayni ši technineše konstrukcijos fala,
Spodroce Zajani Europe NV, je opravnenja vykvali stori technincije konštrukcie.
Spodroce Zajani Europe NV, je opravnenja vykvali stori technincije konštrukcie.
Dakin Europe NV, zelknik Yapi Dosysam deflemeje spekilidir.

254224425442544425444

Director

Shigeki Morita

Ostend, 1st of April 2016

Zandvoordestraat 300, B-8400 Oostende, Belgium

DAIKIN EUROPE N.V.

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1 About the documentation

1.1 About this document

Target audience

Authorised installers



INFORMATION

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

Documentation set

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

- General safety precautions:
 - Safety instructions that you MUST read before installing
 - Format: Paper (in the box of the outdoor unit)
- · Outdoor unit installation manual:
 - · Installation instructions
 - Format: Paper (in the box of the outdoor unit)
- · Installer reference guide:
 - Preparation of the installation, reference data,...
 - Format: Digital files on http://www.daikineurope.com/supportand-manuals/product-information/

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

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

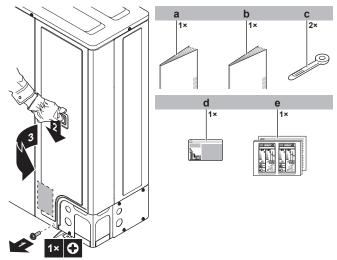
Technical engineering data

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

2 About the box

2.1 Outdoor unit

2.1.1 To remove the accessories from the outdoor unit



- General safety precautions
- b Outdoor unit installation manual
- c Cable tie
- d Fluorinated greenhouse gases label
- e Energy label

3 Preparation

3.1 Preparing the installation site

3.1.1 Installation site requirements of the outdoor unit

Mind the spacing guidelines. See the "Technical data" chapter, and the figures on the inside of the front cover.



INFORMATION

The sound pressure level is less than 70 dBA.

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

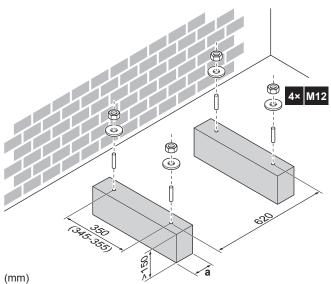
Model	Cooling	Heating
RZQG	−15~50°C	–20~15.5°C
RZQSG	−15~46°C	−15~15.5°C

4 Installation

4.1 Mounting the outdoor unit

4.1.1 To provide the installation structure

Prepare 4 sets of anchor bolts, nuts and washers (field supply) as follows:

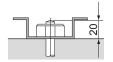


a Make sure not to cover the drain holes of the bottom plate of the unit.



INFORMATION

The recommended height of the upper protruding part of the bolts is 20 mm.

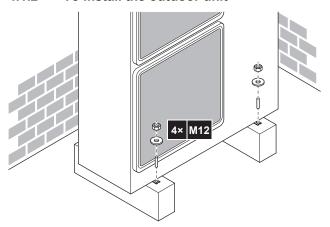


NOTICE

Fix the outdoor unit to the foundation bolts using nuts with resin washers (a). If the coating on the fastening area is stripped off, the metal can rust easily.



4.1.2 To install the outdoor unit



4.1.3 To provide drainage

Make sure that condensation water can be evacuated properly.



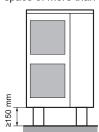
INFORMATION

If necessary, you can use a drain plug kit (field supply) to prevent drain water from dripping.

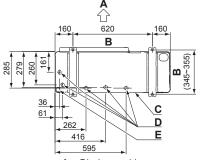


NOTICE

If drain holes of the outdoor unit are covered by a mounting base or by floor surface, raise the unit to provide a free space of more than 150 mm under the outdoor unit.



Drain holes (dimensions in mm)

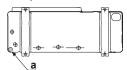


- A Discharge side
- B Distance between anchor points
- C Bottom frame
- **D** Drain holes
- E Knockout hole for snow

Snow

In regions with snowfall, snow might build up and freeze between the heat exchanger and the external plate. This might decrease the operating efficiency. To prevent this:

1 Remove the knockout hole (a) by tapping on the attachment points with a flat head screwdriver and a hammer.

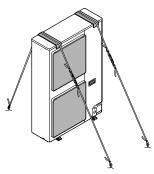


2 Remove the burrs, and paint the edges and areas around the edges using repair paint to prevent rusting.

4.1.4 To prevent the outdoor unit from falling

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.



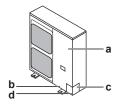
4.2 Connecting the refrigerant piping



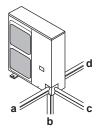
DANGER: RISK OF BURNING

4.2.1 To connect the refrigerant piping to the outdoor unit

- 1 Do the following:
 - Remove the service cover (a) with screw (b).
 - Remove the piping intake plate (c) with screw (d).

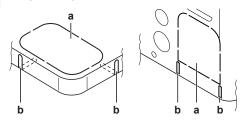


2 Choose a piping route (a, b, c or d).





INFORMATION



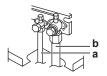
- Remove the knockout hole (a) in the bottom plate or cover plate by tapping on the attachment points with a flat head screwdriver and a hammer.
- Optionally, cut out the slits (b) with a metal saw.



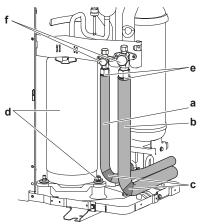
NOTICE

Precautions when making knockout holes:

- · Avoid damaging the casing and underlying piping.
- After making the knockout holes, we recommend to remove the burrs and paint the edges and areas around the edges using repair paint to prevent rusting.
- When passing electrical wiring through the knockout holes, wrap the wiring with protective tape to prevent damage.
- 3 Do the following:
 - Connect the liquid pipe (a) to the liquid stop valve.
 - · Connect the gas pipe (b) to the gas stop valve.



- 4 Do the following:
 - Insulate the liquid piping (a) and the gas piping (b).
 - Wind heat insulation around the curves, and then cover it with vinyl tape (c).
 - Make sure the field piping does not touch any compressor components (d).
 - Seal the insulation ends (sealant etc.) (e).



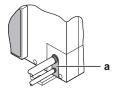
5 If the outdoor unit is installed above the indoor unit, cover the stop valves (f, see above) with sealing material to prevent condensed water on the stop valves from moving to the indoor unit.



NOTICE

Any exposed piping might cause condensation.

- 6 Reattach the service cover and the piping intake plate.
- 7 Seal all gaps (example: a) to prevent snow and small animals from entering the system.





WARNING

Provide adequate measures to prevent that the unit can be used as a shelter by small animals. Small animals that make contact with electrical parts can cause malfunctions, smoke or fire.



NOTICE

Make sure to open the stop valves after installing the refrigerant piping and performing vacuum drying. Running the system with the stop valves closed may break the compressor.

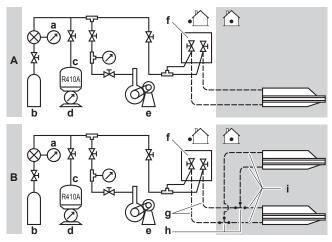
4.2.2 To determine if oil traps are required

If oil flows back into the outdoor unit's compressor, this might cause liquid compression or deterioration of oil return. Oil traps in the rising gas piping can prevent this.

If	Then
If The indoor unit is installed higher than the outdoor unit	Install an oil trap every 10 m (height difference).
	a Rising gas piping with oil trap
	b Liquid piping
The outdoor unit is installed higher than the indoor unit	Oil traps are NOT required.

4.3 Checking the refrigerant piping

4.3.1 Checking refrigerant piping: Setup



- A Setup in case of pair
- B Setup in case of twin
- a Pressure gauge
- **b** Nitrogen
- c Refrigerant
- d Weighing machine
- e Vacuum pump
- f Stop valve
- g Main piping
- h Refrigerant branch kit
- i Branch piping

4.3.2 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.

4.3.3 To perform vacuum drying



NOTICE

- Connect the vacuum pump to both the service port of the gas stop valve and the service port of the liquid stop valve to increase efficiency.
- Make sure that the gas stop valve and liquid stop valve are firmly closed before performing the leak test or 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.
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.

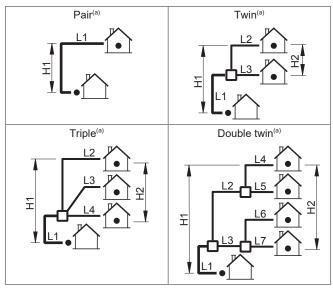


NOTICE

Make sure to open the stop valves after installing the refrigerant piping and performing vacuum drying. Running the system with the stop valves closed may break the compressor.

4.4 Charging refrigerant

4.4.1 Definitions: L1~L7, H1, H2



- (a) Assume that the longest line in the illustration corresponds with the actual longest pipe, and the highest unit in the illustration corresponds with the actual highest unit.
- L1 Main piping
- L2~L7 Branch piping
 - H1 Height difference between the highest indoor unit and the outdoor unit
 - H2 Height difference between the highest and the lowest indoor unit
 - Refrigerant branch kit

4.4.2 To determine the additional refrigerant amount

To determine if adding additional refrigerant is necessary

If	Then
(L1+L2+L3+L4+L5+L6+L7)≤ chargeless length	You do not have to add additional refrigerant.
Chargeless length=	
10 m (size-down)	
30 m (standard)	
■ 15 m (size-up)	
(L1+L2+L3+L4+L5+L6+L7)> chargeless length	You must add additional refrigerant.
	For future servicing, encircle the selected amount in the tables below.



INFORMATION

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

To determine the additional refrigerant amount (R in kg) (in case of pair)

			1 (m)	
L1 (standard):	30~40 m	40~50 m	50~60 m ^(a)	60~75 m ^(a)
L1 (size-up):	15~20 m	20~25 m	25~30 m ^(a)	30~35 m ^(a)
R:	0.5 kg	1.0 kg	1.5 kg	2.0 kg

(a) Only for RZQG100~140.

To determine the additional refrigerant amount (R in kg) (in case of twin, triple and double twin)

1 Determine G1 and G2.

G1 (m)	Total length of <x> liquid piping</x>
	x= Ø9.5 mm (standard)
	x= Ø12.7 mm (size-up)
G2 (m)	Total length of Ø6.4 mm liquid piping

2 Determine R1 and R2.

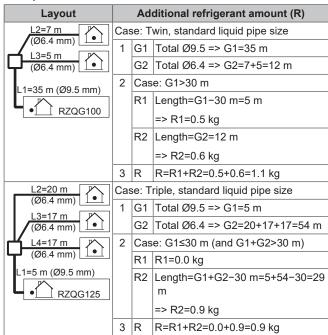
If	Then
G1>30 m ^(a)	Use the table below to determine R1 (length= G1-30 m) ^(a) and R2 (length= G2).
G1≤30 m ^(a)	R1=0.0 kg.
(and G1+G2>30 m) ^(a)	Use the table below to determine R2 (length= G1+G2-30 m) ^(a) .

(a) In case of size-up: Replace 30 m by 15 m.

In c	case of standard liquid pipe size:								
			Length						
		0~10 m	10~20 m	20~30 m ^(a)	30~45 m ^(a)				
	R1:	0.5 kg	1.0 kg	1.5 kg	2.0 kg				
	R2:	0.3 kg	0.6 kg	0.9 kg	1.2 kg				
In c	In case of size-up liquid pipe size:								
		Length							
	0~5 m 5~10 m 10~15 m ^(a) 15~20 m ^(a)								
	R1, R2:	0.5 kg	1.0 kg	1.5 kg	2.0 kg				

- (a) Only for RZQG100~140.
- 3 Determine the additional refrigerant amount: R=R1+R2.

Examples



4.4.3 To determine the complete recharge amount

For RZQG only: When piping length is <5 m, a complete recharge of the unit is required.

To determine the complete recharge amount (kg) (in case of standard liquid pipe size)

Model	Length (m) ^(a)							
	5~10 ^(b)	10~20	20~30	30~40	40~50	50~60	60~75	
RZQG71	1.9	2.4	2.9	3.4	3.9	_	_	
RZQG100~140	3.0	3.5	4.0	4.5	5.0	5.5	6.0	
RZQSG100+125	1.9	2.4	2.9	3.4	3.9	_	_	
RZQSG140	3.0	3.5	4.0	4.5	5.0	_	_	

- (a) Length = L1 (pair); L1+L2 (twin, triple); L1+L2+L4 (double twin)
- (b) For RZQG: 3~10 m

To determine the complete recharge amount (kg) (in case of size-up liquid pipe size)

Model	Length (m) ^(a)						
	3~5	5~10	10~15	15~20	20~25	25~30	30~35
RZQG71	1.9	2.4	2.9	3.4	3.9	_	_
RZQG100~140	3.0	3.5	4.0	4.5	5.0	5.5	6.0
RZQSG100+125	_	2.4	2.9	3.4	3.9	_	_
RZQSG140	_	3.5	4.0	4.5	5.0	_	_

(a) Length = L1 (pair); L1+L2 (twin, triple); L1+L2+L4 (double twin)

To determine the complete recharge amount (kg) (in case of size-down liquid pipe size)

Model	Length (m) ^(a)		
	3~5	5~10	
RZQG71	1.9	1.9	
RZQG100~140	3.0	3.0	
RZQSG100+125	_	1.9	
RZQSG140	_	3.0	

(a) Length = L1 (pair); L1+L2 (twin, triple); L1+L2+L4 (double twin)

4.4.4 Charging refrigerant: Setup

See "4.3.1 Checking refrigerant piping: Setup" on page 7.

4.4.5 To charge additional refrigerant

<u>^</u>

WARNING

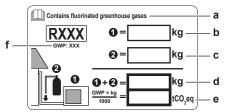
- Only use R410A as refrigerant. Other substances may cause explosions and accidents.
- R410A contains fluorinated greenhouse gases. Its global warming potential (GWP) value is 2087.5. Do NOT vent these gases into the atmosphere.
- When charging refrigerant, always use protective gloves and safety glasses.

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

- 1 Connect the refrigerant cylinder to both the service port of the gas stop valve and the service port of the liquid stop valve.
- 2 Charge the additional refrigerant amount.
- 3 Open the stop valves.

4.4.6 To fix the fluorinated greenhouse gases label

1 Fill in the label as follows:



- 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
- Quantity of fluorinated greenhouse gases of the total refrigerant charge expressed as tonnes CO₂ equivalent.
- f GWP = Global warming potential



NOTICE

Applicable legislation on **fluorinated greenhouse gases** requires that the refrigerant charge of the unit is indicated both in weight and CO₂ equivalent.

Formula to calculate the quantity in ${\rm CO_2}$ equivalent tonnes: GWP value of the refrigerant \times total refrigerant charge [in kg] / 1000

Use the GWP value mentioned on the refrigerant charge label. That GWP is based on the current legislation on fluorinated greenhouse gases. The GWP mentioned in the manual might be outdated.

2 Fix the label on the inside of the outdoor unit. There is a dedicated place for it on the wiring diagram label.

4.5 Connecting the electrical wiring



DANGER: RISK OF ELECTROCUTION



WARNING

ALWAYS use multicore cable for power supply cables.



CAUTION

For use of units in applications with temperature alarm settings it is recommended to foresee a delay of 10 minutes for signalling the alarm in case the alarm temperature is exceeded. The unit may stop for several minutes during normal operation for "defrosting the unit", or when in "thermostat stop" operation.

4.5.1 About electrical compliance

RZQ(S)G_V1 + RZQSG100+125_Y1

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.).

RZQG100~140_Y1 + RZQSG140_Y1

Equipment complying with:

- EN/IEC 61000-3-12 provided that the short-circuit power S_{sc} is greater than or equal to the minimum S_{sc} value at the interface point between the user's supply and the public system.
 - 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.
 - 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 short-circuit power S_{sc} greater than or equal to the minimum S_{sc} value.

Model	Minimum S _{sc} value
RZQG100~140_Y1 + RZQSG140_Y1	1170 kVA ^(a)

This is the most stringent value. For specific product data, see the databooks

4.5.2 Specifications of standard wiring components

Component		RZQG						RZQSG				
		V1			Y1		V1		Y1			
		71	100	125+140	71	100	125+140	100	125+140	100	125	140
Power supply cable	MCA ^(a)	20.6 A	32.0 A	33.5 A	14.0 A	21.0 A	22.5 A	32.0 A	33.5 A	17.7 A	19.2 A	22.5 A
	Voltage	230 V			400 V		230 V		400 V			
	Phase	1~			3N~		1~		3N~			
	Frequency		50 Hz									
	Wire sizes	Must comply with applicable legislation										
Interconnection cabl	Minimum cable section of 2.5 mm² and applicable for 230 V											
Recommended field fuse		25 A	4	0 A	16 A	2	5 A	4	0 A	20) A	25 A
Earth leakage circuit	Must comply with applicable legislation											

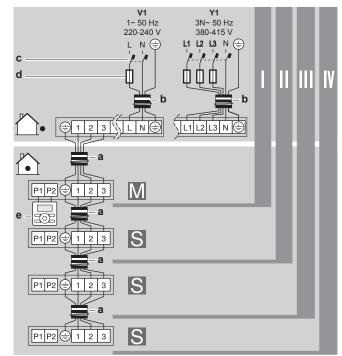
MCA=Minimum circuit ampacity. Stated values are maximum values (see electrical data of combination with indoor units for exact values).

4.5.3 To connect the electrical wiring on the outdoor unit



NOTICE

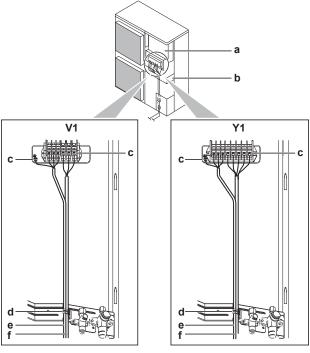
- Follow the wiring diagram (delivered with the unit, located at the inside of the service cover).
- Make sure the electrical wiring does NOT obstruct proper reattachment of the service cover.
- Remove the service cover.
- Connect the interconnection cables and power supply as follows:



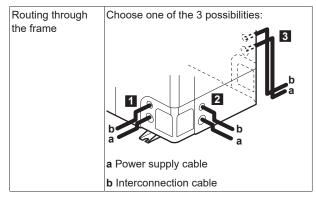
I, II, III, IV Pair, twin, triple, double twin

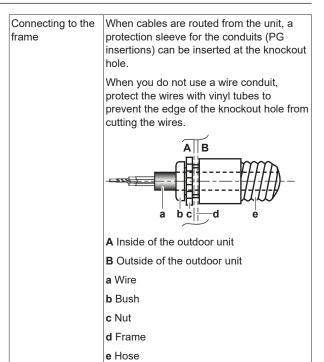
M, S Master, slave

- Interconnection cables
- Power supply cable
- С Earth leakage circuit breaker
- d Fuse
- User interface



- a Switch box
- b Stop valve attachment plate
- Earth
- d Cable tie
- e Interconnection cable
- f Power supply cable
- 3 Fix the cables (power supply and interconnection cable) with a cable tie to the stop valve attachment plate and route the wiring according to the illustration above.
- 4 Choose a knockout hole and remove the knockout hole by tapping on the attachment points with a flat head screwdriver and a hammer.
- **5** Route the wiring through the frame and connect the wiring to the frame at the knockout hole.







NOTICE

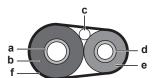
Precautions when making knockout holes:

- Avoid damaging the casing and underlying piping.
- After making the knockout holes, we recommend to remove the burrs and paint the edges and areas around the edges using repair paint to prevent rusting.
- When passing electrical wiring through the knockout holes, wrap the wiring with protective tape to prevent damage.
- 6 Reattach the service cover.
- 7 Connect an earth leakage circuit breaker and fuse to the power supply line.

4.6 Finishing the outdoor unit installation

4.6.1 To finish the outdoor unit installation

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



- a Gas pipe
- **b** Gas pipe insulation
- c Interconnection cable
- d Liquid pipe
- e Liquid pipe insulation
- f Finishing tape
- 2 Install the service cover.

4.6.2 To check the insulation resistance of the compressor



NOTICE

If, after installation, refrigerant accumulates in the compressor, the insulation resistance over the poles can drop, but if it is at least 1 M Ω , then the unit will not break down.

- Use a 500 V mega-tester when measuring insulation.
- Do not use a mega-tester for low-voltage circuits.
- 1 Measure the insulation resistance over the poles.

If	Then
	Insulation resistance is OK. This procedure is finished.
	Insulation resistance is not OK. Go to the next step.

2 Turn ON the power and leave it on for 6 hours.

Result: The compressor will heat up and evaporate any refrigerant in the compressor.

3 Measure the insulation resistance again.

5 Commissioning



NOTICE

NEVER operate the unit without thermistors and/or pressure sensors/switches. Burning of the compressor might result.

5.1 Checklist before commissioning

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

You read the complete installation instructions, as described in the installer reference guide .					
The indoor units are properly mounted.					
In case a wireless user interface is used: The indoor unit decoration panel with infrared receiver is installed.					
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 the outdoor unit and the indoor unit (master)					
Between the indoor units					
There are NO missing phases or reversed phases.					
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.					
The insulation resistance of the compressor is OK.					

	There are NO damaged components or squeezed pipes on the inside of the indoor and outdoor units.
	There are NO refrigerant leaks.
	The correct pipe size is installed and the pipes are properly insulated.
	The stop valves (gas and liquid) on the outdoor unit are fully open.

5.2 To perform a test run

This task is only applicable when using the BRC1E52 user interface.

- When using BRC1E51, see the installation manual of the user interface.
- When using BRC1D, see the service manual of the user interface.



NOTICE

Do not interrupt the test run.



INFORMATION

Backlight. To perform an ON/OFF action on the user interface, the backlight does not need to be lit. For any other action, it needs to be lit first. The backlight is lit for ± 30 seconds when you press a button.

1 Perform introductory steps.

#	Action
1	Open the liquid stop valve and gas stop valve by removing the cap and turning counterclockwise with a hex wrench until it stops.
2	Close the service cover to prevent electric shocks.
3	Turn ON power for at least 6 hours before starting operation to protect the compressor.
4	On the user interface, set the unit to cooling operation mode.

2 Start the test run.

#	Action	Result
1	Go to the home menu.	Cool Set to 28°C
2	Press at least 4 seconds.	The Service Settings menu is displayed.
3	Select Test Operation.	Service Settings 1/3. Test Operation Maintenance Contact Field Settings Demand Min Setpoints Differential Group Address Charten Setting
4	Press.	Test Operation is displayed on the home menu. Cool Test Operation
5	Press within 10 seconds.	Test run starts.

- Check operation for 3 minutes.
- Check operation of the airflow direction.

#	Action	Result
1	Press.	Air Volume/direction Air Volume Direction Position 0 Position 0 Position 0 Position 0 Position 0
2	Select Position 0.	Air Volume/direction Air Volume Low Direction Rossion 0 Rossion 0 Rossion 0 Rossion 0
3	Change the position.	If the airflow flap of the indoor unit moves, operation is OK. If not, operation is not OK.
4	Press.	The home menu is displayed.

Stop the test run.

#	Action	Result
1	Press at least 4 seconds.	The Service Settings menu
		is displayed.
2	Select Test Operation.	Service Settings 1/3
		Test Operation Maintenance Contact Field Settings Demand Min Setpoints Differential Group Address Care Return Setting \$\infty\$
3	Press.	The unit returns to normal
		operation, and the home menu is displayed.

5.3 Error codes when performing a test run

If the installation of the outdoor unit has NOT been done correctly, the following error codes may be displayed on the user interface:

Error code	Possible cause
Nothing displayed	The wiring is disconnected or there is a
(the currently set temperature is not displayed)	wiring error (between power supply and outdoor unit, between outdoor unit and indoor units, between indoor unit and user interface).
	The fuse on the outdoor unit PCB has blown out.
E3, E4 or L8	The stop valves are closed.
	The air inlet or air outlet is blocked.
E7	There is a missing phase in case of three- phase power supply units.
	Note: Operation will be impossible. Turn OFF the power, recheck the wiring, and switch two of the three electrical wires.
L4	The air inlet or air outlet is blocked.
U0	The stop valves are closed.

Error code	Possible cause
U2	There is a voltage imbalance.
	 There is a missing phase in case of three-phase power supply units. Note: Operation will be impossible. Turn OFF the power, recheck the wiring, and switch two of the three electrical wires.
U4 or UF	The inter-unit branch wiring is not correct.
UA	The outdoor and indoor unit are incompatible.

NOTICE

- The reversed phase protection detector of this product only functions when the product starts up. Consequently reversed phase detection is not performed during normal operation of the product.
- The reversed phase protection detector is designed to stop the product in the event of an abnormality when the product is started up.
- Replace 2 of the 3 phases (L1, L2, and L3) during reverse-phase protection abnormality.

5.4 **Dedicated field settings for** technical cooling

In case the system is used for technical cooling, please apply the following remote controller settings:

Technical cooling is only offered for the Smart Series Note: (RZQG).

Field setting	Description
16(26)–02–03	See the remote controller user manual
16(26)–07–02 (only for RZQG_V1)	for the field setting method.
13(23)-00-03	

Disposal



DAIKIN

NOTICE

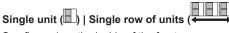
Do NOT try to dismantle the system yourself: dismantling of the system, treatment of the refrigerant, oil and other parts MUST comply with applicable legislation. Units MUST be treated at a specialised treatment facility for reuse, recycling and recovery.

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).

7.1 Service space: Outdoor unit

Suction side	In the illustrations below, the service space at the suction side is based on 35°C DB and cooling operation. Forese more space in the following cases:	
	When the suction side temperature regularly exceeds this temperature.	
	When the heat load of the outdoor units is expected to regularly exceed the maximum operating capacity.	
Discharge side	Take refrigerant piping work into account when positioning the units. If your layout does not match with any of the layouts below, contact your dealer.	



See figure 1 on the inside of the front cover.

A,B,C,D Obstacles (walls/baffle plates)

Obstacle (roof)

a,b,c,d,e Minimum service space between the unit and obstacles A, B, C, D and E

Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle B

Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle D

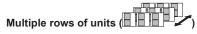
Height of the unit

Height of obstacles B and D H_B, H_D

Seal the bottom of the installation frame to prevent discharged air from flowing back to the suction side through the bottom of the unit.

Maximum two units can be installed.

Not allowed



See figure 2 on the inside of the front cover.



See figure 3 on the inside of the front cover.

(A1) If there is danger of drainage dripping and freezing between the upper and lower units...

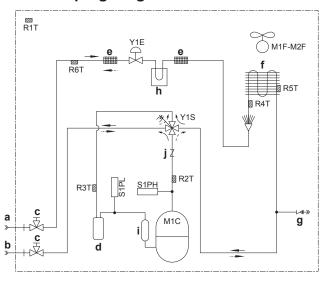
(A2) Then install a roof between the upper and lower units. Install the upper unit high enough above the lower unit to prevent ice buildup at the

upper unit's bottom plate.

(B1) If there is no danger of drainage dripping and freezing between the upper and lower units...

(B2) Then it is not required to install a roof, but seal the gap between the upper and lower units to prevent discharged air from flowing back to the suction side through the bottom of the unit.

7.2 Piping diagram: Outdoor unit



- Field piping (liquid: Ø9.5 flare connection)
- Field piping (gas: Ø15.9 flare connection)
- Stop valve (with service port 5/16")
- d Accumulator
- е Filter
- Heat exchanger
- Internal service port 5/16"
- Switch box cooling (only for RZQ(S)G_V1)
- Compressor accumulator
- Check valve (only for RZQG71, RZQSG100 and

RZQSG125)

M₁C Motor (compressor) M1F-M2F Motor (upper and lower fan)

Thermistor (air)
Thermistor (discharge) R₁T

R2T

Thermistor (suction) R3T

R4T Thermistor (heat exchanger)

R5T Thermistor (heat exchanger middle)

R6T Thermistor (liquid) S1PH High pressure switch

Low pressure switch (only for RZQ(S)G_V1) S1PL

Electronic expansion valve Y₁E

Y1S Solenoid valve (4-way valve)

Heating

Cooling

7.3 Wiring diagram: Outdoor unit

The wiring diagram is delivered with the unit, located at the inside of the service cover.

Notes for RZQ(S)G_V1:

- 1 Symbols (see legend).
- 2 Colours (see legend).
- 3 This wiring diagram applies only to the outdoor unit.
- 4 Refer to the wiring diagram sticker (on the back of the service cover) for how to use the BS1~BS4 and DS1 switches.
- 5 When operating, do not short-circuit protective devices S1PH and S1PL.
- 6 Refer to the service manual for instructions on how to set the selector switches (DS1). The factory setting of all switches is OFF.
- 7 Refer to the combination table and the option manual for how to connect the wiring to X6A, X28A and X77A.

Notes for RZQ(S)G_Y1:

- 1 This wiring diagram applies only to the outdoor unit.
- 2 Refer to the combination table and the option manual for how to connect the wiring to X6A, X28A and X77A.
- 3 Refer to the wiring diagram sticker (on the back of the service cover) for how to use the BS1~BS4 and DS1 switches.
- 4 When operating, do not short-circuit protective device S1PH.
- 5 Refer to the service manual for instructions on how to set the selector switches (DS1). The factory setting of all switches is OFF.
- 6 Only for 71 class.

Legend for wiring diagrams:

A1P~A2P	Printed circuit board
BS1~BS4	Push button switch
C1~C3	Capacitor
DS1	DIP switch
E1H	Bottom plate heater (option)
F1U~F8U	• F1U, F2U: Fuse
(RZQG71_V1 +	• F6U: Fuse (T 3.15 A / 250 V)
RZQSG100_V1)	• F7U, F8U: Fuse (F 1.0 A / 250 V)
F1U~F8U	■ F1U~F4U: Fuse
(RZQG100~140_V1 +	• F6U: Fuse (T 5.0 A / 250 V)
RZQSG125+140_V1)	• F7U, F8U: Fuse (F 1.0 A / 250 V)
F1U~F8U	• F1U, F2U: Fuse (31.5 A / 250 V)
(RZQ(S)G_Y1)	• F1U (A2P): Fuse (T 5.0 A / 250 V)
	• F3U~F6U: Fuse (T 6.3 A / 250 V)
	• F7U, F8U: Fuse (F 1.0 A / 250 V)
H1P~H7P	Light-emitting diode (service monitor is orange)
HAP	Light-emitting diode (service monitor is green)
K1M, K11M	Magnetic contactor
K1R	Magnetic relay (Y1S)
(RZQ(S)G_V1)	
K1R	K1R (A1P): Magnetic relay (Y1S)
(RZQ(S)G_Y1)	 K1R (A2P): Magnetic relay
K2R	Magnetic relay
(RZQG71_V1 + RZQSG100_V1)	

K2R (RZQ(S)G Y1)	K2R (A1P): Magnetic relay (E1H option)
(1128(0)0_11)	K2R (A2P): Magnetic relay
K10R, K13R~K15R	Magnetic relay
K4R	Magnetic relay E1H (option)
L1R~L3R	Reactor
M1C	Motor (compressor)
M1F	Motor (upper fan)
M2F	Motor (lower fan)
PS	Switching power supply
Q1DI	Earth leakage circuit breaker (field supply)
R1~R6	Resistor
R1T	Thermistor (air)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (heat exchanger)
R5T	Thermistor (heat exchanger middle)
R6T	Thermistor (liquid)
R7T	Thermistor (fin)
(RZQG100~140_V1 + RZQSG125+140_V1)	
R7T, R8T	Thermistor (Positive Temperature
(RZQG71_V1 + RZQSG100_V1)	Coefficient)
R10T	Thermistor (fin)
(RZQ(S)G_Y1)	
RC	Signal receiver circuit
S1PH	High pressure switch
S1PL	Low pressure switch
TC	Signal transmission circuit
V1D~V4D	Diode
V1R	IGBT power module
V2R, V3R	Diode module
V1T~V3T	Insulated gate bipolar transistor (IGBT)
X6A	Connector (option)
X1M	Terminal strip
Y1E	Electronic expansion valve
Y1S	Solenoid valve (4-way valve)
Z1C~Z6C	Noise filter (ferrite core)
Z1F~Z6F	Noise filter

Symbols:

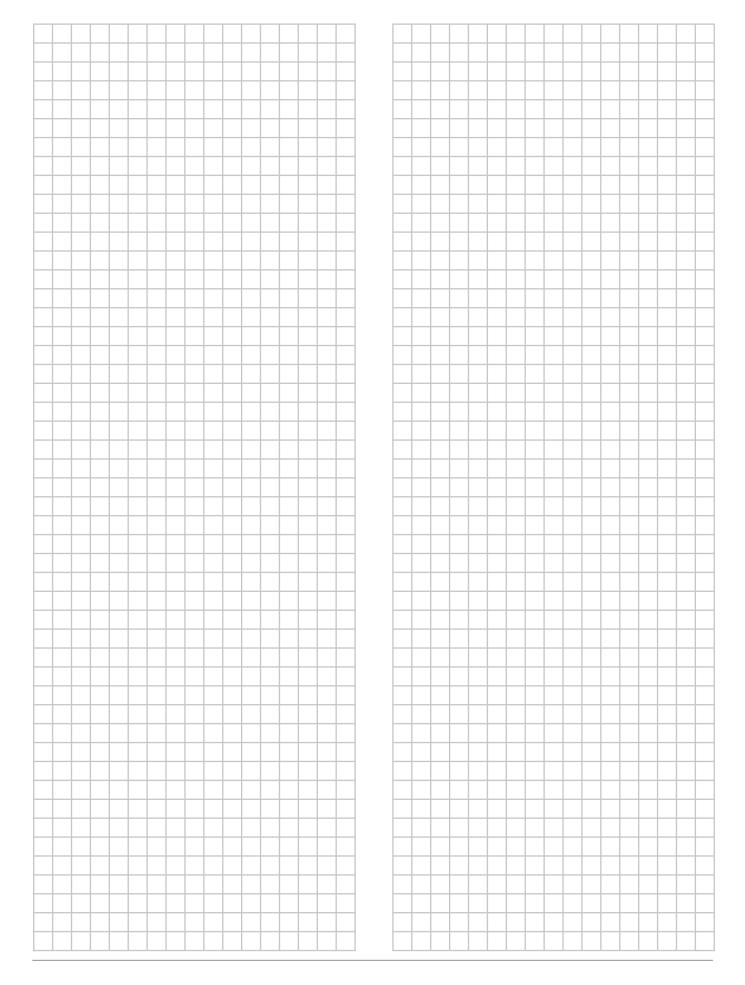
Live L N Neutral Field wiring Terminal strip 00 Connector Relay connector Connection Protective earth 4 Noiseless earth **Terminal** Option

7 Technical data

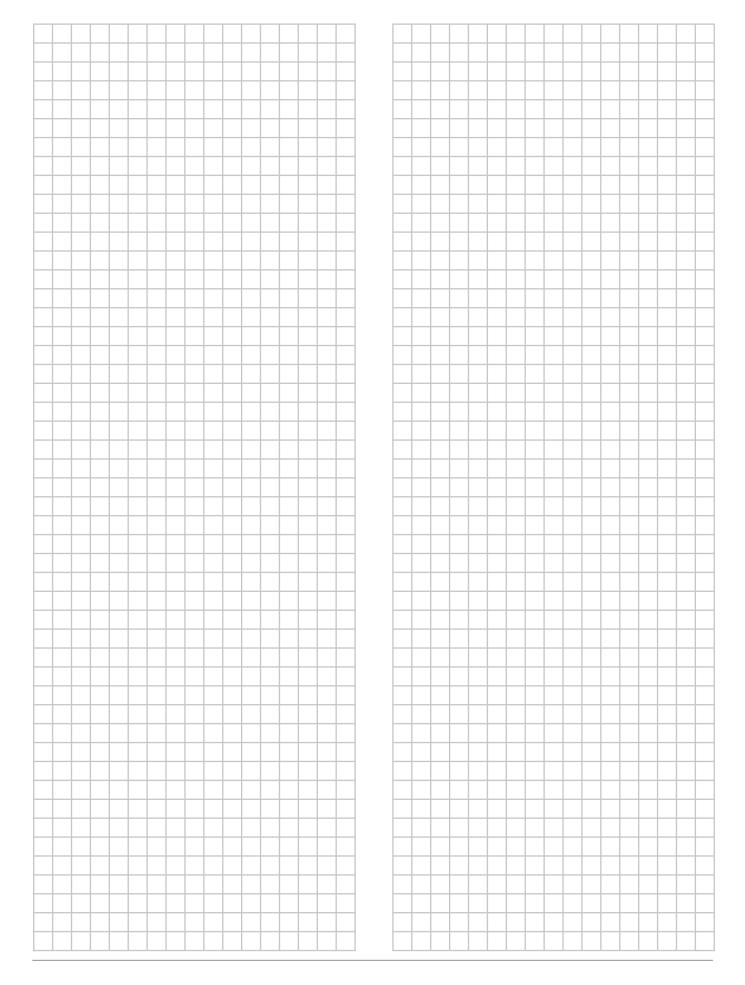
Colours:

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

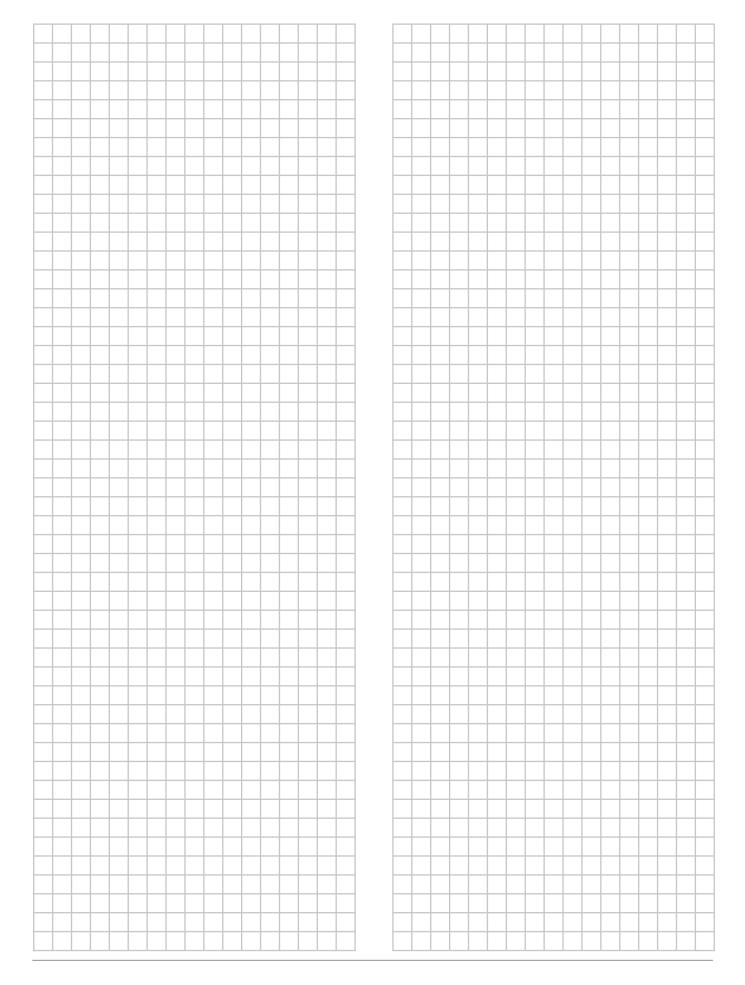












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