

DAIKIN



INSTALLATION MANUAL

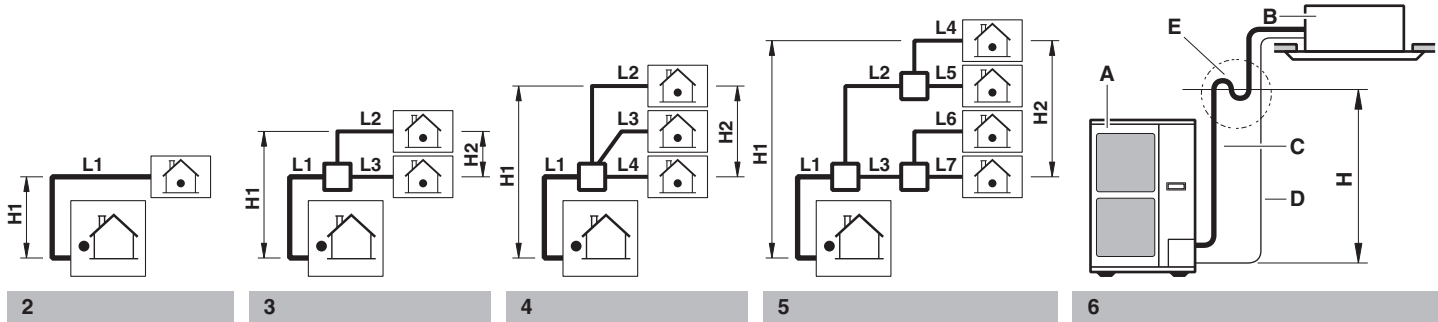
Split System air conditioners

RZQSG71L3V1B

**RZQS71D7V1B
RZQS71D2V1B
RZQS100D7V1B
RZQS125D7V1B
RZQS140D7V1B**

	↙	↘	↖	↗		A	B1	B2	C	D1	D2	E	L1/L2		
	✓						≥50(100)								
	✓		✓	✓		≥100	≥100		≥100						
	✓				✓		≥100				≤500	≥1000			
	✓		✓	✓	✓	≥150	≥150		≥150		≤500	≥1000			
		✓									≥500				
		✓									≥500		≥1000		
	✓	✓				L1<L2	≥50(100)				≥500				
						L2<L1	≥50(100)				≥500				
					✓	L1<L2	L1≤H	≥150(250)	≤500			≥750		≥1000	0<L2≤1/2H
	✓	✓				H<L1	L1≤H						0<L1≤1/2H		
					L2<L1	L2≤H	≥50(100)			≥500(1000)	≥500	≥1000	0<L2≤1/2H		
					H<L2	≥100(200)							1/2H<L2≤H		
						L2≤H									
	✓		✓	✓		≥200	≥200(300)		≥1000						
	✓		✓	✓	✓	≥200	≥200(300)		≥1000		≤500	≥1000			
		✓									≥1000				
		✓			✓				≤500		≥1000		≥1000		
	✓	✓				L1<L2	≥200(300)				≥1000		0<L2≤1/2H		
						L2<L1	≥150(250)				≥1000(1500)		1/2H<L2≤H		
							≥200(300)								
					✓	L1<L2	L1≤H	≥200(300)	≤500			≥1000		≥1000	0<L2≤1/2H
	✓	✓				H<L1	L1≤H						1/2H<L1≤H		
						L2<L1	L2≤H	≥150(250)			≥1000(1500)	≤500	≥1000	0<L2≤1/2H	
					H<L2	≥200(300)							1/2H<L2≤H		
						L2≤H									

1



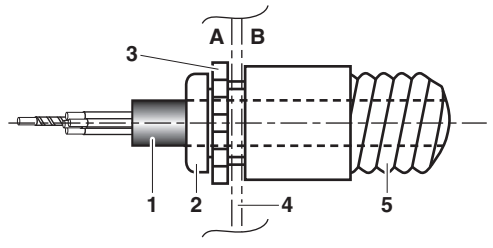
2

3

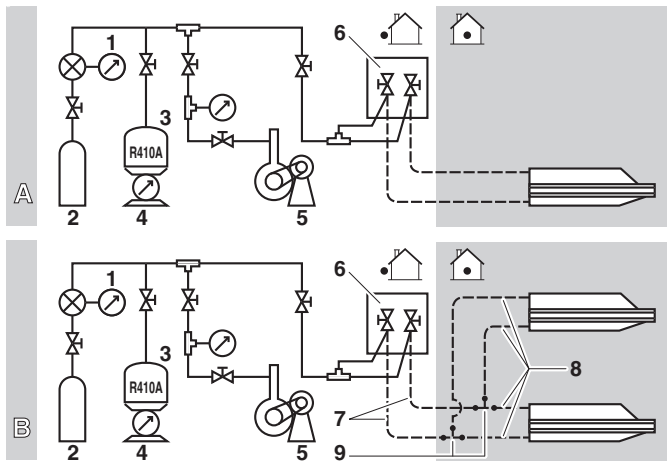
4

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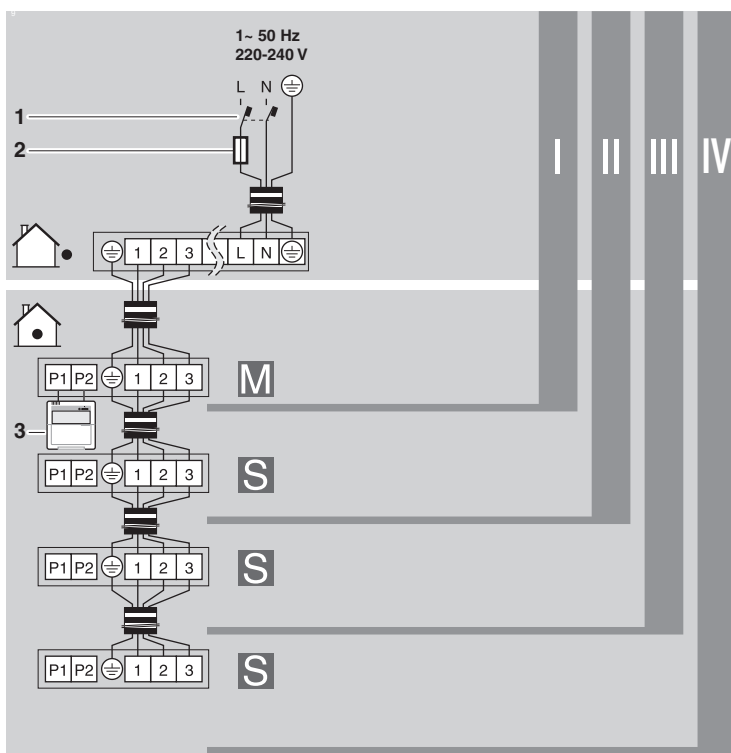
6



7



8



9

CE - DECLARATION-OF-COMFORMITY
CE - KONFORMITÄTSPERKLÄRUNG
CE - DECLARATION-DE-CONFORMITE
CE - CONFORMITEITSVERKLARING

Daikin Industries Czech Republic s.r.o.

- 01 (en) declares under its sole responsibility that the air conditioning models to which this declaration relates;
- 02 (d) erklärt auf seine alleinige Verantwortung das die Modelle der Klimaanlage für die diese Erklärung bestimmt ist;
- 03 (e) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration;
- 04 (nl) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft;
- 05 (e) declara bajo su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración;
- 06 (t) dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione;
- 07 (b) δηλώνει με αποκλειστική της ευθύνη ότι τα μοντέλα των κλιματιστικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση;
- 08 (c) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere.

RZQS6713L3V1B,

- 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 (den) folgenden Normen (Normen) oder einem anderen Normdokument oder -dokumenten entspricht/sprechen, unter der Voraussetzung, dass sie gemäß unseren Anweisungen eingesetzt werden;
- 03 sont conformes à la(s) norme(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions;
- 04 conform de volgende (normen) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies;
- 05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normativo(s), siempre que sean utilizados de acuerdo con nuestras instrucciones;
- 06 sono conformi all(i) seguente(i) standard(i) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni;
- 07 είναι σύμφωνα με το(ι) ακόλουθο(ύ) τυποτικό(ύ) ή άλλο(ύ) έγγραφο(ύ) ή κανονισμό(ύ), υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας;
- 08 following the provisions of:
- 09 conformément aux stipulations des:
- 10 under right(s) of the following standard(s) or other normative document(s);
- 11 enligt villkoren i:
- 12 gilt i henhold til bestemmelserne i:
- 13 nouăden normele și/său documentele normative;
- 14 za dodržení ustanovení předpisů;
- 15 prema odredbama:
- 16 követeli az:
- 17 zgodnie z postanowieniami Dyrektyw;
- 18 in urma prevederilor:
- 19 ob upotrebljenju dobič;
- 20 v skladu s navodili:
- 21 съгласно с указанията на:
- 22 на основании указаний в:
- 23 nouăden normele și/său documentele normative;
- 24 za dodržení ustanovení předpisů;
- 25 prema odredbama:
- 26 követeli az:
- 27 zgodnie z postanowieniami Dyrektyw;
- 28 in urma prevederilor:

CE - DECLARAÇÃO-DE-CONFORMIDADE
CE - ЗАЯВЛЕНИЕ-О-СООТВЕТСТВИИ
CE - OVERENSTEMMELSESERKLÄRING
CE - FÖRSÄKRAN-OM-ÖVERENSTÄMMELSE

CE - IZJAVA-O-USKLADNOSTI
CE - MEGFELELŐSÉG-NYILATKOZAT
CE - ДЕКЛАРАЦИЯ-ЗА-СЪОТВЕТСТВИЕ

CE - IZJAVA O SKLADNOSTI
CE - VASTAVUSDEKLARACIJA
CE - ДЕКЛАРАЦИЯ-ЗА-СЪОТВЕТСТВИЕ

CE - ATTIKTIKES-DEKLARACIA
CE - ATBILSTĪBAS-DEKLARĀCIJA
CE - VYHLÁSENIE-ZHODY
CE - UYGUNLUK-BEYANI

- 09 (en) заявляет, исключительно под своею ответственностью, что модели кондиционеров воздуха, к которым относится настоящее заявление;
- 10 (d) erklærer under ens ansvar, at klimaanlægsmodelerne, som denne deklaration vedrører;
- 11 (s) deklarerar i egen ansvar, att luftkonditioneringsmodellerna som betörs av denna deklaration innebär att:
- 12 (n) erklærer et fuldstændigt ansvar for at de luftkonditioneringsmodeller som berøres af denne deklaration, inehæver det:
- 13 (en) imputa ystomannu omalia vastuutuleid, etta lánan limbuólusen larklartamat ímasinnitlittuleid matill;
- 14 (cz) prohlašuje ve své plné odpovědnosti, že modely klimatizace, k nimž se toto prohlášení vztahuje;
- 15 (b) δηλώνει με αποκλειστική ευθύνη ότι τα μοντέλα κλιμα υπαρκτά που αναφέρονται σε αυτή την δήλωση;
- 16 (c) declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere;

- 08 estão em conformidade com a(s) seguinte(s) norma(s) ou outro(s) documento(s) normativo(s), desde que estes sejam utilizados de acordo com as nossas instruções;
- 09 соответствует следующим стандартам или другим нормативным документам, при условии их использования согласно нашим инструкциям;
- 10 overholder følgende standard(er) eller andre relevante dokument(er), forudsat at disse anvendes i henhold til vores instrukser;
- 11 respektive uttunning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under förutsättning att användning sker i överensstämmelse med våra instruktioner;
- 12 respektive utbyeri i överensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forudsætning af at disse bruges i henhold til våre instruksjoner;
- 13 nastavaur saaravaen standardtan ja muuden ohjeellisten dokumenttien vaatimuksissa edellyttäen, että niitä käytetään ohjeiden mukaisesti;
- 14 za predpoklad, že jsou využívány v souladu s našimi pokyny, odpovídají následujícími normám nebo normativním dokumentům;
- 15 v skladu sa sledjícím standardom(i) ali drugim normativnim dokumentom(i), na uvjet da se on koriste u skladu s našim uputama;

Low Voltage 2006/95/EC Machinery 2006/42/EC ** Electromagnetic Compatibility 2004/108/EC *

- 11 Information* enigi <A> odn godikans av enigi Certificat <C>
- 12 Merk* som det fremkommer <A> og gjennem positiv bedømmelse av ligger Serifikat <C>
- 13 Huom* jotta on esitetty asiakirjassa <A> ja jotta on hyväksytty Serifikatin <C> mukaisesti.
- 14 Poznámka* jak bylo uvedeno v <A> a pozitivně zjištěno v souladu s ověřovacími <C>
- 15 Napomena* kako je izloženo u <A> pozitivno ocijenjeno od strane prema Certificatu <C>
- 16 Megjegyzés* a(z) <A> alapján, a(z) igazolta a megjelölt Serifikat <C>
- 17 Uwaga* zgodnie z dokumentacją <A> pozytywną opinię świadczywn <C>
- 18 Noia* asa cum este stabilit in <A> si arecizat pozitiv in in conformitate cu Certificat <C>
- 19 Opomba* kol je določeno v <A> in odobeno s strani v skladu s certifikatni <C>
- 20 Märkus* ragu on määratud dokumentis <A> ja heaks kiidetud järgi vastavalt sertifikaadile <C>

- 13** DICz*** eni avoocoomjyn va ovuvta ra nov Texvko fokoko korakuvj;
- 14** Společnost DICz*** má oprávnění ke kompletní souboji technické konstrukce.
- 15** DICz*** je ovlašten za izradu Databake o tehničkoj konstrukciji.
- 16** A DICz*** jogspsul a miszaki konstrukcio dokumentacio szszal latsara.
- 17** DICz*** ma upovazovanie do zberania i opracovavania dokumentacjii konstrukcijnej.
- 18** DICz*** este autorizat sa completeze Dosarul tehnic de constructie.

- 07** H DICz*** eni avoocoomjyn va ovuvta ra nov Texvko fokoko korakuvj;
- 08** ADICz*** este autorizata a compilar a documentație tehnice de fabrico.
- 09** Компания DICz*** уполномочена составлять Комплект технической документации.
- 10** DICz*** er autoriseret til at udarbejde de tekniske konstruktionstata.
- 11** DICz*** ar benyngades att sammanställa den tekniska konstruktionssfilen.
- 12** DICz*** har tillatelse til å kompilere den Tekniske konstruksjonsfilen.

- 01** DICz*** is authorised to compile the Technical Construction File.
- 02** DICz*** hat die Berechtigung die Technische Konstruktionsdatei zusammenzustellen.
- 03** DICz*** est autorisé à compiler le Dossier de Construction Technique.
- 04** DICz*** is bevoegd om het Technisch Constructieoesser samen te stellen.
- 05** DICz*** está autorizada a compilar el Archivo de Construcción Técnica.
- 06** DICz*** e autorizzata a redigere il File Tecnico di Costruzione.

***DICz = Daikin Industries Czech Republic s.r.o.

- 17 (nl) deklarie na västraat, lyväzarna avoovvablaadno, za modele klimatyzatorov, ktorých dovolyc ninyjeza deklaracia;
- 18 (en) declare under its sole responsibility that the air conditioning models to which this declaration relates;
- 19 (cz) z viso odgovorností zjavila, da so modely klimatickíh naprav, na katere se zjava nahlašje;
- 20 (en) kimbat omalia vastuutuleid, etta lánan limbuólusen larklartamat ímasinnitlittuleid matill;
- 21 (en) deklariava na ocon oovvovvov, že kopavere klimatizacni nastavnice, za kore se oveset tavz avovvovvov;
- 22 (t) všsika savo atsakomybe skelbia, kad oro kondicionavimo prietaisų modeliai, kuriems yra tikinama ši deklaracija;
- 23 (t) všíská savo atsakomybe skelbia, kad oro kondicionavimo prietaisų modeliai, kuriems yra tikinama ši deklaracija;
- 24 (sk) vyhlasuje na västraat zodpovednost, že tieto klimatizacne modely, na ktoré sa vzťahuje toto vyhlasenie;
- 25 (tr) lanament kendii soorumluşuğunda olnak, izere bu bildiriñi ilgili olnuğu klima modellerinin aşşadılı gbi olnuğuna beyan eder;

- 16 megjelölnek az alábbi szabvány (ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják;
- 17 spełnia wymagania następujących norm i innych dokumentów normalizacyjnych, pod warunkiem że używane są zgodnie z naszymi instrukcjami;
- 18 sunt în conformitate cu următorii (următoare) standard(e) sau alte (documente) normative, cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre;
- 19 skladni z naslednjih standardov in drugih normativnih dokumentov, ki ne bi kasualnega vastanile nele juberudile;
- 20 on vastastuses järgmis(ys) standard(ite)ga või teiste normaliseeritud dokumentidega, kui neid kasutatakse vastavalt meie juhendile;
- 21 съответстват на следните стандарти или други нормативни документи, при условие, че се използват съгласно нашите инструкции;
- 22 atitinka žemiau nurodytus standartus (us) arba kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus;
- 23 tad, ja leidi atbilstis razdičja norđajunien, atbist sekojšeim standardien a citem normativim dokumentiem;
- 24 su v zhode s nasledovny(m)i normom(i) alebo nym(i) normativnym(i) dokumentom(i)mi), za predpokladu, že sa používajú v súlade s našimi navodmi;
- 25 ünün, ta matarmazza gore kulanimas kosuljaja aşşadılı standartar ve norm beifera belgeleere uyumludur;

- 10 Direktiv, med senere ændringer;
- 11 Direktiv, med foretagne ændringer;
- 12 Direktiv, med foretatte endringer;
- 13 Direktive, sađasna kun ne ovat muuttuneita.
- 14 v platném znění.
- 15 Snijemica, kako je izmijenjeno.
- 16 irányelvi (ek) és módosított rendelvezései.
- 17 z późniejszych poprawkami.
- 18 Direktivelor, cu amendamentele respective.
- 19 Direktive, med senere ændringer;
- 20 Direktiv, med foretagne ændringer;
- 21 Директив, с ревизие изменения.
- 22 Direktive su poprijimalis.
- 23 Direktivas un to papildinājums.
- 24 Snjemica, kako je izmijenjeno.
- 25 Degüştürilmiş haliyle Yönetmelikler.

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- 25 Degüştürilmiş haliyle Yönetmelikler.

<A>	DAIKIN.TCF.021G18/02-2013
	DEKRA (NB0344)
<C>	2024351—QUA/EMC02—4565



DAIKIN INDUSTRIES CZECH REPUBLIC s.r.o.

U Nové Hospody 1/1155, 301 00 Píseň Skvrňany,
Czech Republic

Takayuki Fujii
Managing Director
1st of Mar. 2013

CE - DECLARATION-OF-COMFORMITY
CE - KONFORMITÄTSPERKLÄRUNG
CE - DICHIARAZIONE-DI-CONFORMITÀ
CE - ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ
CE - CONFORMITEITSVERKLARING

Daikin Europe N.V.

- 01 (en) declares under its sole responsibility that the air conditioning models to which this declaration relates;
- 02 (en) erklart på sin egen ansvarligg Verantwoording dat de Modelle der Klimageräte für die diese Erklärung bestimmt ist;
- 03 (fr) déclare sous sa seule responsabilité que les appareils d'air conditionné visés par la présente déclaration;
- 04 (nl) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft;
- 05 (de) erklärt die Luft zu eigener Verantwortung, dass die Modelle der Luftkonditionierungseinheiten, zu denen diese Erklärung bezieht, die Luft zu eigener Verantwortung, dass die Modelle der Luftkonditionierungseinheiten, zu denen diese Erklärung bezieht;
- 06 (it) dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione;
- 07 (el) δηλώνει με αποκλειστική της ευθύνη ότι τα μοντέλα των κλιματιστικών συσκευών στα οποία αφορά αυτή η δήλωση;
- 08 (es) declara sob sua exclusiva responsabilidad que os modelos de ar condicionado a que esta declaración se refiere.

RZQS71D2V1B*, RZQS71D7V1B*, RZQS100D7V1B*, RZQS125D7V1B*, RZQS140D7V1B*,

* = , , 1, 2, 3, ... 9

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 (en) den folgenden Norm(en) oder einem anderen Normdokument oder -dokumenten entsprochen, unter der Voraussetzung, dass sie gemäß unseren Anweisungen eingesetzt werden;
- 03 sont conformes à la(s) norme(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions;
- 04 conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies;
- 05 están en conformidad con la(s) siguiente(s) norma(s) u otro(s) documento(s) normativo(s), siempre que sean utilizados de acuerdo con nuestras instrucciones;
- 06 sono conformi all(i) seguente(i) standard(i) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni;
- 07 (en) σύμφωνα με το(ι) ακόλουθο(ύ) πρότυπο(ύ) ή/και έγγραφο(ύ) κανονιστικό, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας;
- 08 (de) gemäß den Vorschriften der:
- 09 conformément aux stipulations des:
- 10 onder rechtsgelegde afbestemmelse i:
- 11 enligt vilkoren i:
- 12 gilt i henhold til bestemmelserne i:
- 13 noudatain määrayskä:
- 14 za dodržení ustanovení předpisů:
- 15 prema odredbama:
- 16 köveli a(z):
- 17 zgodnie z postanowieniami Dyrektyw:
- 18 in urma prevederilor:
- 19 ob upotrebi: dobij:
- 20 vastarait nūvele:
- 21 enepaakivi orjagare na:
- 22 takanais nuostai, patiekiamų:
- 23 teirėjoti prasības, kas noteiktas:
- 24 održavajući ustanovljenja:
- 25 bunun legalarna uygun olarak:

- 01 Note * as set out in and judged positively by
- 02 Hinweis * wie in aufgeführt und von positiv beurteilt
- 03 Remarque * tel que défini dans et évalué positivement par
- 04 Bemerk * zoals vermeld in en positief beoordeeld door
- 05 Nota * como se establece en y es valorado positivamente por
- 06 Nota * in henhold til
- 07 Znamenka * kako je izloženo u pozitivno ocijenjeno od strane
- 08 Nota * como se establece en y es valorado positivamente por
- 09 Примечание * как указано в и рассмотрено положительно экспертом
- 10 Bemerk * in henhold til
- 11 * H Daikin Europe N.V. etvar isporočeni v skladu z izjavo proizvajalca;
- 12 * Kompanija Daikin Europe N.V. uprovođenja izvornih. Komentar tehničkoj izvornici.
- 13 * Daikin Europe N.V. er autoriseret til at udtale sig om tekniske konstruktionsdata.
- 14 * Daikin Europe N.V. er bemyndigede at sammenstille den tekniske konstruktionsfilen.
- 15 * Daikin Europe N.V. har tillitelse til at kompilere den Tekniske konstruktionsfilen.

- 01 * Daikin Europe N.V. is authorised to compile the Technical Construction File.
- 02 * Daikin Europe N.V. hat die Berechtigung die Technische Konstruktionsakte zusammenzustellen.
- 03 * Daikin Europe N.V. est autorisé à compiler le Dossier de Construction Technique.
- 04 * Daikin Europe N.V. is bevoegd om het Technisch Constructiebesluit samen te stellen.
- 05 * Daikin Europe N.V. está autorizado a compilar el Archivo de Construcción Técnica.
- 06 * Daikin Europe N.V. è autorizzata a redigere il File tecnico di Costituzione.



CE - DECLARACÃO-DE-CONFORMIDADE
CE - ЗАЯВЛЕНИЕ О СООТВЕТСТВИИ
CE - OVERENSTEMMELSESERKLÆRING
CE - FÖRSÄKRAN OM ÖVERENSTEMMELSE

- 09 (en) заверяет, исключительно под свою ответственность, что модели кондиционеров воздуха, к которым относится настоящее заявление;
- 10 (en) erklærer under ens ansvar, at klimaanlægsmødelerne, som denne deklaration vedrører;
- 11 (s) deklarerar i egen ansvar, att luftkonditioneringsmodellerna som betörs av denna deklaration innebär att:
- 12 (nl) verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft;
- 13 (de) erklärt die Luft zu eigener Verantwortung, dass die Modelle der Luftkonditionierungseinheiten, zu denen diese Erklärung bezieht, die Luft zu eigener Verantwortung, dass die Modelle der Luftkonditionierungseinheiten, zu denen diese Erklärung bezieht;
- 14 (fr) déclare sous sa responsabilité que les appareils d'air conditionné visés par la présente déclaration;
- 15 (el) δηλώνει με αποκλειστική της ευθύνης ότι τα μοντέλα των κλιματιστικών συσκευών στα οποία αφορά αυτή η δήλωση;
- 16 (es) declara sob sua exclusiva responsabilidad que os modelos de ar condicionado a que esta declaración se refiere.

Low Voltage 2006/95/EC

Machinery 2006/42/EC **

Electromagnetic Compatibility 2004/108/EC *

- 01 Information * enligt och godkänns av enligt
- 02 Merk * som det fremkommer i og gennem positiv
- 03 Huom * jotta on esitetty asiakirjassa ja jotta on
- 04 Poznámka * jak bylo uvedeno v a pozitivně zjištěno v
- 05 Napomena * kako je izloženo u pozitivno ocijenjeno od strane
- 06 Nota * como se establece en y es valorado positivamente por
- 07 Znamenka * kako je izloženo u pozitivno ocijenjeno od strane
- 08 Nota * como se establece en y es valorado positivamente por
- 09 Примечание * как указано в и рассмотрено положительно экспертом
- 10 Bemerk * in henhold til
- 11 * H Daikin Europe N.V. etvar isporočeni v skladu z izjavo proizvajalca;
- 12 * Kompanija Daikin Europe N.V. uprovođenja izvornih. Komentar tehničkoj izvornici.
- 13 * Daikin Europe N.V. er autoriseret til at udtale sig om tekniske konstruktionsdata.
- 14 * Daikin Europe N.V. er bemyndigede at sammenstille den tekniske konstruktionsfilen.
- 15 * Daikin Europe N.V. har tillitelse til at kompilere den Tekniske konstruktionsfilen.

CE - IZJAVA-O-USKLADNOSTI
CE - MEGFELELŐSÉG NYILATKOZAT
CE - DEKLARACIJA-ZGODNOSTI
CE - DECLARAȚIE DE CONFORMITATE

- 17 (en) deklarije na vésrna, izvážazna odgovornost, že modelé klimatyzátorov, ktorých doľučuje nížejšia deklarácia;
- 18 (en) déclare pe proprie răspundere că aparatele de aer condiționat la care se referă această declarație;
- 19 (en) z viso odgovornosti izjavlja, da so modeli klimatskih naprav, na katere se izjava nanaša;
- 20 (en) kinnitab oma täieliku vastutuse, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid;
- 21 (en) deklariira oma oman vastutuse, et käesoleva deklaratsiooni alla kuuluvad kliimaseadmete mudelid;
- 22 (it) dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione;
- 23 (el) δηλώνει με αποκλειστική της ευθύνης ότι τα μοντέλα των κλιματιστικών συσκευών στα οποία αφορά αυτή η δήλωση;
- 24 (es) declara sob sua exclusiva responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración;
- 25 (de) erklärt die Luft zu eigener Verantwortung, dass die Modelle der Luftkonditionierungseinheiten, zu denen diese Erklärung bezieht, die Luft zu eigener Verantwortung, dass die Modelle der Luftkonditionierungseinheiten, zu denen diese Erklärung bezieht;

- 16 megfelelnek az alábbi szabvány(ok)nak vagy egyéb irányadó dokumentum(ok)nak, ha azokat előírás szerint használják;
- 17 megfelel a normáknak, amelyek vonatkoznak a készülékekre, amiket ez a nyilatkozat tárgyalja;
- 18 sunt în conformitate cu următorii (următoare) standard(e) sau alte (documente) normative, cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre;
- 19 skladni z naslednjimi standardi in drugim normativnim dokumentom, aboli se uporabljajo v skladu z našimi navodili;
- 20 conform de standardele și documentele normative relevante, cu condiția ca acestea să fie utilizate în conformitate cu instrucțiunile noastre;
- 21 соответствует на следующие стандарты или другие нормативные документы, при условии, что они используются в соответствии с нашими инструкциями;
- 22 atilinka žemiau nurodytus standartus ir (arba) kitus norminius dokumentus su sąlyga, kad yra naudojami pagal mūsų nurodymus;
- 23 tad, je žiedi atbilstošs ražotājā norādījumiem, abtisi sekopšstien standartin en citien normatīvu dokumentiem;
- 24 sú v zhodě s nasklebovými (normami) alebo jinými (normatívnymi) dokumentmi(ami), za predpokladu, že sa používajú v súlade s našimi návodmi;
- 25 (en) inatarmazgra gre kulanimasi kosulujaj asgödekli standartlar ve norm beliften belgelerle uyumludur;

- 01 Direktives, as amended;
- 02 Direktiv, med senere ændringer;
- 03 Directives, telles que modifiées;
- 04 Richtlijnen, zoals gewijzigd;
- 05 Directivas, según lo emmendado;
- 06 Direktive, kako je izmijenjeno;
- 07 Директиви, омиує з оновлєннєм;
- 08 Directivas, conforme alteração em;
- 09 Директиве, со всеми поправками;
- 10 Direktivet, med senere ændringer;
- 11 Direktiv, med foretagne ændringer;
- 12 Direktivet, med foretagne ændringer;
- 13 Direktivet, således som det er ændret;
- 14 Richtlijnen, zoals gewijzigd;
- 15 Directivas, según lo emmendado;
- 16 Direktive, kako je izmijenjeno;
- 17 Директиви, омиує з оновлєннєм;
- 18 Directivas, conforme alteração em;
- 19 Direktivet, med senere ændringer;
- 20 Direktiv, med foretagne ændringer;
- 21 Директиве, с ревизие изменениями;
- 22 Direktives, telles que modifiées;
- 23 Richtlijnen, zoals gewijzigd;
- 24 Directivas, según lo emmendado;
- 25 Direktive, kako je izmijenjeno;

- 21 Забелешка * картэ і карэнево і оцэнево паразіравана ст. празько
- 22 Pastaba * kaip nuslyta ir kaip įvertinama susipręta
- 23 Pastaba * kaip nuslyta ir kaip įvertinama susipręta
- 24 Poznámka * ako bolo uvedeno v a pozitívne zistené
- 25 Nota * como se establece en y es valorado positivamente por

- 13 ** Daikin Europe N.V. on vakuuttettu laattamalla Teknisen asiakirjan.
- 14 ** Společnost Daikin Europe N.V. má oprávnění k kompilaci souboru technické konstrukce.
- 15 ** Daikin Europe N.V. er autoriseret til at udtale sig om tekniske konstruktionsdata.
- 16 ** Daikin Europe N.V. er bemyndigede at sammenstille den tekniske konstruktionsfilen.
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READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION. KEEP THIS MANUAL IN A HANDY PLACE FOR FUTURE REFERENCE.

IMPROPER INSTALLATION OR ATTACHMENT OF EQUIPMENT OR ACCESSORIES COULD RESULT IN ELECTRIC SHOCK, SHORT-CIRCUIT, LEAKS, FIRE OR OTHER DAMAGE TO THE EQUIPMENT. BE SURE ONLY TO USE ACCESSORIES, OPTIONAL EQUIPMENT, AND SPARE PARTS MADE BY DAIKIN WHICH ARE SPECIFICALLY DESIGNED FOR USE WITH THE EQUIPMENT AND HAVE THEM INSTALLED BY A PROFESSIONAL.

IF UNSURE OF INSTALLATION PROCEDURES OR USE, ALWAYS CONTACT YOUR DAIKIN DEALER FOR ADVICE AND INFORMATION.

The English text is the original instruction. Other languages are translations of the original instructions.

Safety considerations

The precautions listed here are divided into the following two types. Both cover very important topics, so be sure to follow them carefully.



WARNING

If the warning is not observed, it may cause serious casualties.

CAUTION


If the caution is not observed, it may cause injury or damage to the equipment.

Warning

- The equipment is not intended for use in a potentially explosive atmosphere.
- For use of air-conditioning units in applications with temperature alarm settings it is advised to foresee a delay of 10 minutes for signalling the alarm in case the alarm temperature is exceeded. The air-conditioning unit may stop for several minutes during normal operation for "defrosting of the indoor unit" or when in "thermostat-stop" operation.

- Ask your dealer or qualified personnel to carry out installation work. Do not install the machine by yourself. Improper installation may result in water leakage, electric shocks or fire.
- Perform installation work in accordance with this installation manual. Improper installation may lead to water leakage, electric shocks or fire.
- Consult your local dealer regarding what to do in case of refrigerant leakage. When the air conditioner is to be installed in a small room, it is necessary to take proper measures so that the amount of any leaked refrigerant does not exceed the concentration limit in the event of a leakage. Otherwise, this may lead to an accident due to oxygen depletion.
- Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in water leakage, electric shocks, fire, or the unit falling.
- Install the air conditioner on a foundation that can withstand its weight. Insufficient strength may result in the fall of equipment and causing injury.
- Carry out the specified installation work in consideration of strong winds, typhoons, or earthquakes. Improper installation work may result in accidents due to fall of equipment.
- Make certain that all electrical work is carried out by qualified personnel according to the local laws and regulations and this installation manual, using a separate circuit. Insufficient capacity of the power supply circuit or improper electrical construction may lead to electric shocks or fire.
- Make sure that all wiring is secure, using the specified wires and ensuring that external forces do not act on the terminal connections or wires. Incomplete connection or fixing may cause fire.
- When wiring between the indoor and outdoor units, and wiring the power supply, form the wires so that the frontside panel can be securely fastened. If the frontside panel is not in place, overheat of the terminals, electric shocks or fire may be caused.
- If refrigerant gas leaks during installation work, ventilate the area immediately. Toxic gas may be produced if refrigerant gas comes into contact with fire.
- After completing the installation work, check to make sure that there is no leakage of refrigerant gas. Toxic gas may be produced if refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.
- Before touching electric terminal parts, turn off the power switch.
- Never leave the unit unattended during installation or servicing when the service panel is removed; live parts can be easily touched by accident.
- When planning to relocate former installed units, you must first recover the refrigerant after the pumping-down operation. Refer to chapter "Precaution for pumping-down operation" on page 10.
- Never directly touch any accidental leaking refrigerant. This could result in severe wounds caused by frostbite.

Caution

- Ground the air conditioner.
Grounding resistance should be according to national regulations.
Do not connect the earth wire to gas or water pipes, lightning conductor or telephone earth wire.
Incomplete grounding may cause electric shocks.
- 
- Gas pipe.
Ignition or explosion may occur if the gas leaks.
 - Water pipe.
Hard vinyl tubes are not effective grounds.
 - Lightning conductor or telephone ground wire.
Electric potential may rise abnormally if struck by lightning.
- Be sure to install an earth leakage breaker.
Failure to install an earth leakage breaker may cause electric shocks and fire.
 - Install drain piping according to this installation manual to ensure good drainage, and insulate the pipe to prevent condensation.
Improper drain piping may cause water leakage, and make the furniture get wet.
 - Install the indoor and outdoor units, power wire and connecting wire at least 1 meter away from televisions or radios to prevent image interference or noise.
(Depending on the radio waves, a distance of 1 meter may not be sufficient to eliminate the noise.)
 - Do not rinse the outdoor unit. This may cause electric shocks or fire.
 - Do not install the air conditioner in places such as the following:
 - Where there is mist of mineral oil, oil spray or vapour, for example a kitchen.
Plastic parts may deteriorate, causing them to fall out or water to leak.
 - Where corrosive gas, such as sulphurous acid gas, is produced.
Corrosion of copper pipes or soldered parts may cause the refrigerant to leak.
 - Where there is machinery which emits electromagnetic waves.
Electromagnetic waves may disturb the control system, and cause malfunction of the equipment.
 - Where flammable gases may leak, where carbon fiber or ignitable dust is suspended in the air or where volatile flammables, such as thinner or gasoline, are handled.
Such gases may cause fire.
 - Where the air contains high levels of salt such as that near the ocean.
 - Where voltage fluctuates a lot, such as that in factories.
 - In vehicles or vessels.
 - Where acidic or alkaline vapour is present.
 - 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.
 - Sound level is less than 70 dB(A).

Provide a logbook

In accordance with the relevant national and international codes, it may be necessary to provide a logbook with the equipment containing at least

- info on maintenance,
- repair work,
- results of tests,
- stand-by periods,
- etc...

In Europe, EN378 provides the necessary guidance for this logbook.

Before installation



Since maximum working pressure is 4.0 MPa or 40 bar, pipes of larger wall thickness may be required. Refer to paragraph "Selection of piping material" on page 5.

Precautions for R410A


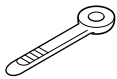


- The refrigerant requires strict cautions for keeping the system clean, dry and tight.
 - Clean and dry
Foreign materials (including mineral oils or moisture) should be prevented from getting mixed into the system.
 - Tight
Read "Precautions on refrigerant piping" on page 6 carefully and follow these procedures correctly.
- Since R410A is a mixed refrigerant, the required additional refrigerant must be charged in its liquid state. (If the refrigerant is in a state of gas, its composition changes and the system will not work properly).
- The connected indoor units must be indoor units designed exclusively for R410A.

Installation

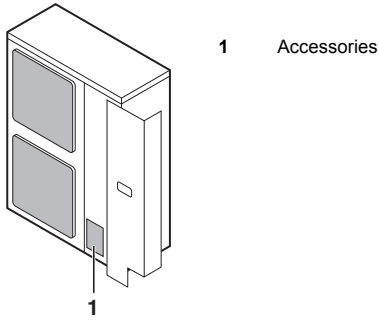
- For installation of the indoor unit(s), refer to the indoor unit installation manual.
- Illustrations show class 125 outdoor unit type. Other types also follow this installation manual.
- This outdoor unit requires the pipe branching kit (optional) when used as the outdoor unit for the simultaneous operation system. Refer to catalogues for details.
- Never operate the unit with a damaged or disconnected discharge thermistor and suction thermistor, burning of the compressor may result.
- Be sure to confirm the model name and the serial no. of the outer (front) plates when attaching/detaching the plates to avoid mistakes.
- When closing the service panels, take care that the tightening torque does not exceed 4.1 N·m.

Accessories

Check if the following accessories are included with the unit

Installation manual	1	
Clamp	2	
Fluorinated greenhouse gases label	1	
Multilingual fluorinated greenhouse gases label	1	

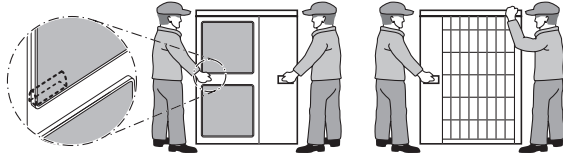
See the figure below for the location of the accessories.




1 Accessories

Handling

As shown in the figure, bring the unit slowly by grabbing the left and right grips.



Place your hands on the corner instead of holding the suction inlet on the side of the casing, otherwise the casing could be deformed.

 Take care not to let hands or objects come in contact with rear fins.

Selecting installation site



- Make sure to provide for adequate measures in order to prevent that the outdoor unit be used as a shelter by small animals.
- Small animals making contact with electrical parts can cause malfunctions, smoke or fire. Please instruct the customer to keep the area around the unit clean.

1 Select an installation site where the following conditions are satisfied and that meets with your customer's approval.

- Places which are well-ventilated.
- Places where the unit does not bother next-door neighbours.
- Safe places which can withstand the unit's weight and vibration and where the unit can be installed level.
- Places where there is no possibility of flammable gas or product leak.
- The appliance shall not be placed nor used in a potentially explosive atmosphere.
- Places where servicing space can be well ensured.
- Places where the indoor and outdoor units' piping and wiring lengths come within the allowable ranges.
- Places where water leaking from the unit cannot cause damage to the location (e.g. in case of a blocked drain pipe).
- Places where the rain can be avoided as much as possible.

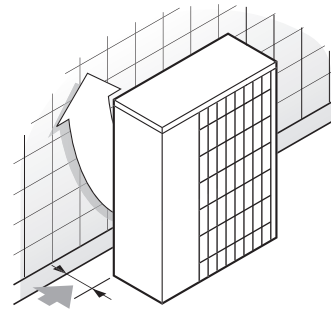
2 When installing the unit in a place exposed to strong wind, pay special attention to the following.


Strong winds of 5 m/sec or more blowing against the outdoor unit's air outlet causes short circuit (suction of discharge air), and this may have the following consequences:

- Deterioration of the operational capacity.
- Frequent frost acceleration in heating operation.
- Disruption of operation due to rise of high pressure.
- When a strong wind blows continuously on the face of the unit, the fan can start rotating very fast until it breaks.

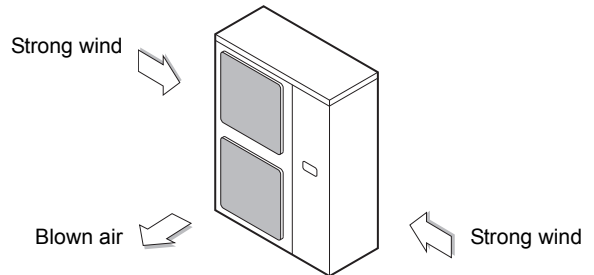
Refer to the figures for installation of this unit in a place where the wind direction can be foreseen.

- Turn the air outlet side toward the building's wall, fence or screen.



 Make sure there is enough room to do the installation

- Set the outlet side at a right angle to the direction of the wind.



3 Prepare a water drainage channel around the foundation, to drain waste water from around the unit.

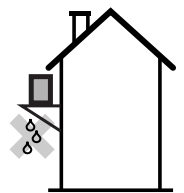
4 If the water drainage of the unit is not easy, please build up the unit on a foundation of concrete blocks, etc. (the height of the foundation should be maximum 150 mm).

5 If you install the unit on a frame, please install a waterproof plate within 150 mm of the underside of the unit in order to prevent the invasion of water from the lower direction.

6 When installing the unit in a place frequently exposed to snow, pay special attention to the following:

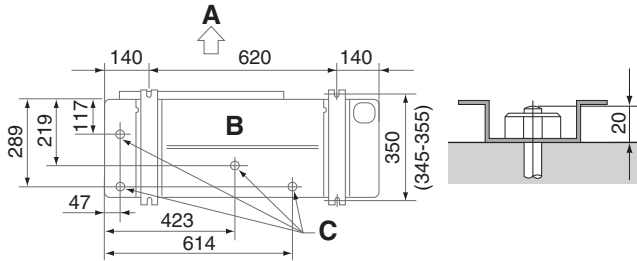
- Elevate the foundation as high as possible.
- Remove the rear suction grille to prevent snow from accumulating on the rear fins.

7 If you install the unit on a building frame, please install a waterproof plate (within 150 mm of the underside of the unit) or use a drain plug kit (option) in order to avoid the drainwater dripping. (See figure).



Precautions on installation

- Check the strength and level of the installation ground so that the unit will not cause any operating vibration or noise after installation.
- In accordance with the foundation drawing in the figure, fix the unit securely by means of the foundation bolts. (Prepare four sets of M12 foundation bolts, nuts and washers each which are available on the market.)
- It is best to screw in the foundation bolts until their length is 20 mm from the foundation surface.

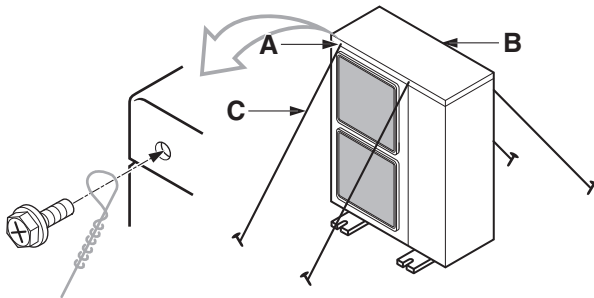


- A Discharge side
 B Bottom view (mm)
 C Drain hole

Installation method for prevention of falling over

If it is necessary to prevent the unit from falling over, install as shown in the figure.

- prepare all 4 wires as indicated in the drawing
- unscrew the top plate at the 4 locations indicated A and B
- put the screws through the nooses and screw them back tight



- A location of the 2 fixation holes on the front side of the unit
 B location of the 2 fixation holes on the rear side of the unit
 C wires: field supply

Drain pipe disposal

- If drain pipe disposal from the outdoor unit causes trouble (for example, if the drain water may splash on people) provide the drain piping using a drain socket (optional).
- Make sure the drain works properly.

Installation servicing space

The numerical figures used in here represent the dimensions for the 71-100-125-140 class models. Figures between () indicate the dimensions for the 100-125-140 class models. (Unit: mm)

(Refer to "Precautions on installation" on page 4)

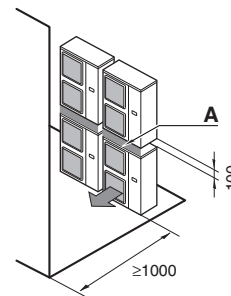
Precaution

(A) In case of non-stacked installation (See figure 1)

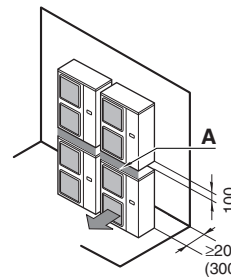
	Suction side obstacle	✓	Obstacle is present
	Discharge side obstacle	1	In these cases, close the bottom of the installation frame to prevent the discharged air from being bypassed
	Left side obstacle		
	Right side obstacle	2	In these cases, only 2 units can be installed.
	Top side obstacle		This situation is not allowed

(B) In case of stacked installation

1. In case obstacles exist in front of the outlet side.



2. In case obstacles exist in front of the air inlet.

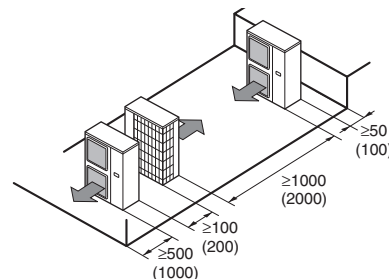


Do not stack more than one unit.

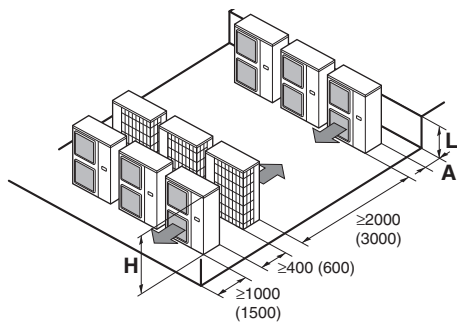
About 100 mm is required as the dimension for laying the upper outdoor unit's drain pipe. Get the portion A sealed so that air from the outlet does not bypass.

(C) In case of multiple-row installation (for roof top use, etc.)

1. In case of installing one unit per row.



2. In case of installing multiple units (2 units or more) in lateral connection per row.



Relation of dimensions of H, A and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2H	150 (250)
	1/2H < L	200 (300)
H < L	Installation impossible	

Refrigerant pipe size and allowable pipe length



Installation shall be done by a licensed refrigeration technician, the choice of materials and installation shall comply with the applicable national and international codes. In Europe, EN378 is the applicable standard that shall be used.



To persons in charge of piping work:

- Be sure to open the stop valve after piping installing and vacuuming is complete. (Running the system with the valve closed may break the compressor.)
- It is forbidden to discharge refrigerant into the atmosphere. Collect the refrigerant in accordance with the freon collection and destruction law.
- Do not use flux when brazing the refrigerant piping. For brazing, use phosphor copper brazing filler metal (BCuP) which does not require a flux. (If a chlorine flux is used, the piping will corrode, and if the flux contains fluoride, it will cause the coolant oil to deteriorate, adversely affecting the coolant piping system.)

Selection of piping material

- Piping and other pressure containing parts shall comply with the national and international codes and shall be suitable for refrigerant, use phosphoric acid deoxidised seamless copper for refrigerant.
- Temper grade: use piping with temper grade in function of the pipe diameter as listed in table below.
- The pipe thickness of the refrigerant piping should comply with relevant local and national regulations. The minimal pipe thickness for R410A piping must be in accordance with the table below.

Pipe Ø	Temper grade of piping material	Minimal thickness t (mm)
9.5	O	0.80
15.9	O	1.00

O=Annealed

Only use annealed material for flare connections.

Refrigerant pipe size

Refer to [figure 3](#) for twin system, to [figure 4](#) for triple system and to [figure 5](#) for double twin system.

- Main pipe (pipe between outdoor and first branch). The pipes should have the same size as the outdoor connections.

Refrigerant pipe size (standard size)	
Gas pipe	Ø15.9
Liquid pipe	Ø9.5

- Pipe between first branch and second branch (L2+L3) (only for double twin).

Gas	Ø15.9
Liquid	Ø9.5

- Pipe between branch and indoor units (L2~L3 for twin, L2~L4 for triple and L4~L7 for double twin). These pipe sizes must have the same size as the connected indoor units pipe sizes. Branch: see marking '□' on figures 3, 4 and 5.

Selection of branch pipe

Twin	KHRQ22M20TA
Triple	KHRQ127H
Double twin	KHRQ22M20TA (3x)

Allowable pipe length and height difference

See the table below concerning lengths and heights. Refer to figures 2, 3, 4 and 5. Assume that the longest line in the figure corresponds with the actual longest pipe, and the highest unit in the figure corresponds with the actual highest unit.

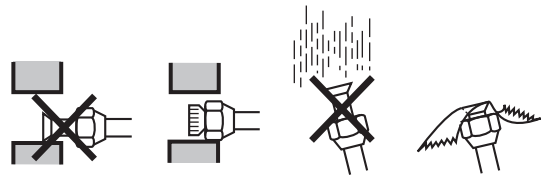
Allowable pipe length					
Liquid pipe size		Model			
		71	100	125	140
Maximum total one-way piping length					
Pair	L1	standard	50 m (70 m)		
• Twin and triple	• L1+L2	standard			
• Double twin	• L1+L2+L4				
Maximum allowable piping length^(a)					
Twin	L1+L2+L3	—	50 m		50 m
Triple	L1+L2+L3+L4		—		
Double twin	L1+L2+L3+L4+L5+L6+L7		—		
Maximum branch piping length					
• Twin and triple	• L2	—	20 m		
• Double twin	• L2+L4				
Maximum difference between branch lengths					
Twin	L2-L3	—	10 m	10 m	
Triple	L2-L4		—		
Double twin	• L2-L3 • L4-L5 • L6-L7 • (L2+L4)-(L3+L7)		—		
Maximum height between indoor and outdoor					
All	H1	—	30 m		
Maximum height between indoors					
Twin, triple and double twin	H2	—	0.5 m		
Chargeless length					
All	L1+L2+L3+L4+L5+L6+L7	standard	≤30 m		

(a) Parenthesized figure represents the equivalent length.

Precautions on refrigerant piping

- Do not allow anything other than the designated refrigerant to get mixed into the freezing cycle, such as air, etc. If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.
- Use R410A only when adding refrigerant
Installation tools:
Make sure to use installation tools (gauge manifold charge hose, etc.) that are exclusively used for R410A installations to withstand the pressure and to prevent foreign materials (e.g. mineral oils and moisture) from mixing into the system.
Vacuum pump:
Use a 2-stage vacuum pump with a non-return valve
Make sure the pump oil does not flow oppositely into the system while the pump is not working.
Use a vacuum pump which can evacuate to -100.7 kPa (5 Torr, -755 mm Hg).
- During tests never pressurize the appliances with a pressure higher than the maximum allowable pressure (see unit name plate: PS).

- In order to prevent dirt, liquid or dust from entering the piping, cure the piping with a pinch or taping.



Place	Installation period	Protection method
Outdoor unit	More than a month	Pinch the pipe
	Less than a month	
Indoor unit	Regardless of the period	Pinch or tape the pipe

Great caution is needed when passing copper tubes through walls.

- In case of simultaneous operating system
 - Upward and downward piping should be performed at the main piping line.
 - Use branch piping kit (optional) for branching refrigerant pipes.
- Precautions to be taken. (For details, refer to the manual attached to branch piping kit.)
- Install the branch pipes horizontally (with a maximum inclination of 15°) or vertically.
 - Length of branch pipe to the indoor unit should be as short as possible.
 - Try to keep lengths of both branch pipes to the indoor unit equal.

Refrigerant piping

- Field pipes can be installed in four directions.

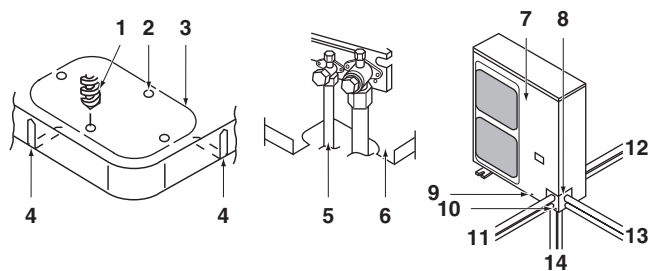


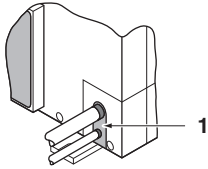
Figure - Field pipes in four directions

- | | | | |
|---|----------------------------------|----|-------------------------|
| 1 | Drill | 8 | Pipe outlet plate |
| 2 | Centre area around knockout hole | 9 | Screw front plate |
| 3 | Knockout hole | 10 | Pipe outlet plate screw |
| 4 | Slit | 11 | Forward |
| 5 | Connecting pipe | 12 | Backward |
| 6 | Bottom frame | 13 | Sideways |
| 7 | Front plate | 14 | Downward |

- Cutting out the two slits makes it possible to install as shown in the figure "Field pipes in four directions". (Use a metal saw to cut out the slits.)
- To install the connecting pipe to the unit in a downward direction, make a knockout hole by penetrating the centre area around the knockout hole using a $\varnothing 6$ mm drill. (See figure "Field pipes in four directions".)
- After knocking out the knock-out, it is recommended to apply repair paint to the edge and the surrounding end surfaces to prevent rusting.

Preventing foreign objects from entering

Plug the pipe through-holes with putty or insulating material (procured locally) to stop up all gaps, as shown in the figure.




1 Putty or insulating material (produced locally)

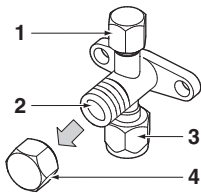
Insects or small animals entering the outdoor unit may cause a short circuit in the electrical box.

Cautions for handling stop valve

- The stop valves for indoor-outdoor connecting piping are closed at shipment from the factory.

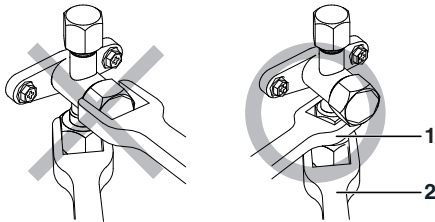
 Make sure to keep the valve open during operation.

The names of parts of the stop valve are shown in the figure.



1 Service port
2 Stop valve
3 Field piping connection
4 Valve cover

- Since the side boards may be deformed if only a torque wrench is used when loosening or tightening flare nuts, always lock the stop valve with a wrench and then use a torque wrench. Do not place wrenches on the valve cover.

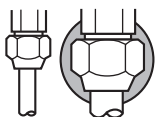



1 Spanner
2 Torque wrench

Applying an excessive torque may distort the interior stop valve surface causing gas to leak inside the valve and causing the flare nut to crack eventually.

Do not apply force on the valve cover, this may result in a refrigerant leak.

- For cooling operation under low ambient temperature or any other operation under low pressure, apply silicon pad or similar to prevent freezing of the gas stop valve flare nut (see figure). Freezing of the flare nut may cause refrigerant leak.



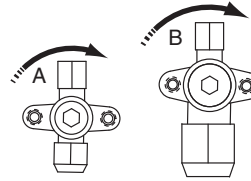
 Silicon sealing pad (Make sure there is no gap)

How to use the stop valve

Use hexagonal wrenches 4 mm and 6 mm.

- Opening the valve
 1. Place the hex wrench on the valve bar and turn counter-clockwise.
 2. Stop when the valve bar no longer turns. It is now open.

- Closing the valve
 1. Place the hex wrench on the valve bar and turn clockwise.
 2. Stop when the valve bar no longer turns. It is now closed.

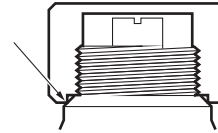


Closing direction

A Liquid side
B Gas side

Cautions for handling the valve cover

- The valve cover is sealed where indicated by the arrow. Refer to the figure. Take care not to damage it.



- After operating the valve, be sure to tighten the valve cover properly.

Tightening torque	
Liquid pipe	13.5~16.5 N•m
Gas pipe	22.5~27.5 N•m

- Check for refrigerant leakage after tightening the cap.

Cautions for handling service port

- Always use a flexible charge hose with a push-rod and valve to enable recovery of remaining refrigerant in the charge hose.
- After the work, tighten the valve cover in place. Tightening torque: 11.5~13.9 N•m

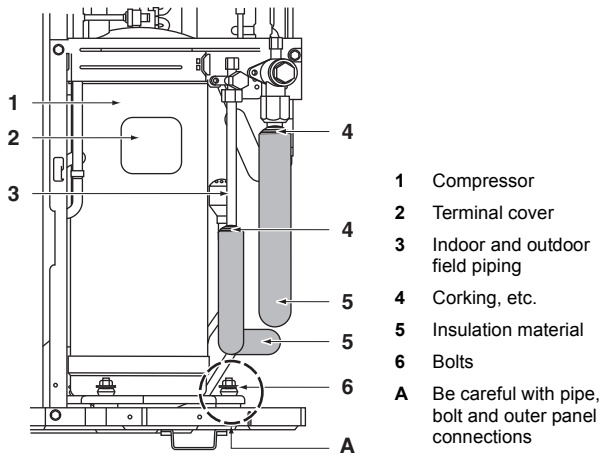
Precautions when connecting field piping and regarding insulation

- Be careful not to let the indoor and outdoor branch piping come into contact with the compressor terminal cover. If the liquid-side piping insulation might come into contact with it, adjust the height as shown in the figure below. Also, make sure the field piping does not touch the bolts or outer panels of the compressor.
- When the outdoor unit is installed above the indoor unit the following can occur:
The condensated water on the stop valve can move to the indoor unit. To avoid this, please cover the stop valve with sealing material.
- If the temperature is higher than 30°C and the humidity is higher than RH 80%, then the thickness of the sealing materials should be at least 20 mm in order to avoid condensation on the surface of the sealing.

- Be sure to insulate the liquid and gas-side field piping and the refrigerant branch kit.

Any exposed piping may cause condensation or burns if touched.

(The highest temperature that the gas-side piping can reach is around 120°C, so be sure to use insulating material which is very resistant.)



Cautions for flare connection

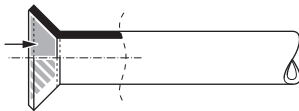
- Please refer to the table for the dimensions for processing flares and for the tightening torques. (Too much tightening will end up in splitting of the flare.)

Piping size	Flare nut tightening torque	A - dimensions for processing flares (mm)	Flare shape
Ø9.5	33~39 N•m	12.8~13.2	
Ø15.9	63~75 N•m	19.3~19.7	

If a torque wrench is not available, be aware that the tightening torque may increase suddenly. Do not tighten nuts any further than to the angle as listed.

Piping size	Further tightening angle	Recommended arm length of tool
Ø9.5	60°~90°	200 mm
Ø15.9	30°~60°	300 mm

- When connecting the flare nut, coat the flare inner surface with ether oil or ester oil and initially tighten 3 or 4 turns by hand before tightening firmly.



- After completing the installation, carry out a gas leak inspection of the piping connections with nitrogen and such.

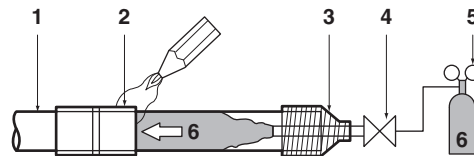
Cautions for necessity of a trap

Since there is fear of the oil held inside the riser piping flowing back into the compressor when stopped and causing liquid compression phenomenon, or cases of deterioration of oil return, it will be necessary to provide a trap at an appropriate place in the riser gas piping.

- Trap installation spacing. (See figure 6)
 - Outdoor unit
 - Indoor unit
 - Gas piping
 - Liquid piping
 - Oiltrap
 - Install trap at each difference in height of 10 m.
- A trap is not necessary when the outdoor unit is installed in a higher position than the indoor unit.

Cautions for brazing

- Be sure to carry out a nitrogen blow when brazing. Brazing without carrying out nitrogen replacement or releasing nitrogen into the piping will create large quantities of oxidised film on the inside of the pipes, adversely affecting valves and compressors in the refrigerating system and preventing normal operation. When brazing pipes however, do not use oxidation preventers. Residue of such preventers may result in choking of pipes or malfunction of components.
- When brazing while inserting nitrogen into the piping, nitrogen must be set to 0.02 MPa with a pressure-reducing valve (=just enough so that it can be felt on the skin).



- Refrigerant piping
- Part to be brazed
- Taping
- Hands valve
- Pressure-reducing valve
- Nitrogen

Evacuating

- Do not purge the air with refrigerants. Use a vacuum pump to vacuum the installation. No additional refrigerant is provided for air purging.
- Pipes inside the units were checked for leaks by the manufacturer. The refrigerant pipes fit on site are to be checked for leaks by the installer.
- Confirm that the valves are firmly closed before leak test or vacuuming.

Set up for vacuuming and leak test: see figure 8

- Pair system
 - Simultaneous operation system
- Pressure gauge
 - Nitrogen
 - Refrigerant
 - Weighing machine
 - Vacuum pump
 - Stop valve
 - Main pipe
 - Branched pipes
 - Pipe branching kit (optional)

Procedure for leak test

Leak test must satisfy EN378-2.

- 1 Evacuate the pipes and check vacuum⁽¹⁾. (No pressure increase for 1 minute.)
- 2 Break the vacuum with a minimum of 2 bar of nitrogen. (Never pressurize more than 4.0 MPa.)
- 3 Conduct leak test by applying soap water, etc. to the connecting part of the pipes.
- 4 Discharge nitrogen.
- 5 Evacuate and check vacuum again⁽¹⁾.
- 6 If the vacuum gauge no longer rises, the stop valves can be opened.



The following should be executed if there is a possibility of moisture remaining in the pipe (if piping work is carried out during the raining season or over a long period of time, rainwater may enter the pipe during work).

After evacuating the system for 2 hours, pressurize the system to 0.05 MPa (vacuum break) with nitrogen gas and evacuate the system again using the vacuum pump for 1 hour to -100.7 kPa (vacuum drying). If the system cannot be evacuated to -100.7 kPa within 2 hours, repeat the operation of vacuum break and vacuum drying. Then after leaving the system in vacuum for 1 hour, confirm that the vacuum gauge does not rise.

After air purging with a vacuum pump it may happen that the refrigerant pressure does not rise, not even if the stop valve is opened. Reason for this phenomenon is the closed state of for instance the expansion valve in the outdoor unit circuit, but this is not a problem for running the unit.

Charging refrigerant

Important information regarding the refrigerant used

This product contains fluorinated gases covered by the Kyoto Protocol. Do not vent gases into the atmosphere.

Refrigerant type: R410A

GWP⁽¹⁾ value: 1975

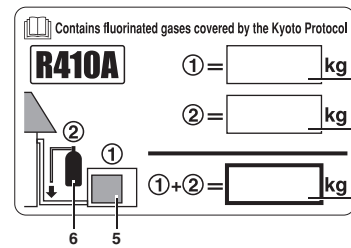
⁽¹⁾ GWP = global warming potential

Please fill in with indelible ink,

- ① the factory refrigerant charge of the product,
- ② the additional refrigerant amount charged in the field and
- ①+② the total refrigerant charge

on the fluorinated greenhouse gases label supplied with the product.

The filled out label must be adhered on the inside of the product and in the proximity of the product charging port (e.g. on the inside of the service cover).



- 1 factory refrigerant charge of the product: see unit name plate
- 2 additional refrigerant amount charged in the field
- 3 total refrigerant charge
- 4 Contains fluorinated gases covered by the Kyoto Protocol
- 5 outdoor unit
- 6 refrigerant cylinder and manifold for charging

NOTE



National implementation of EU regulation on certain fluorinated greenhouse gases may require to provide the appropriate official national language on the unit. Therefore, an additional multilingual fluorinated greenhouse gases label is supplied with the unit.

Sticking instructions are illustrated on the backside of that label.

Precaution for servicing



When performing service on the unit requiring the refrigerant system to be opened, refrigerant must be evacuated according to local regulations.

This unit requires additional charging of refrigerant according to the length of pipe connected at the site. Charge the refrigerant to the liquid pipe in its liquid state through the service port of the liquid stop valve. Since R410A is a mixed refrigerant, its composition changes if charged in a state of gas and normal system operation would no longer be assured.

On this model it is not necessary to charge additionally if the piping length ≤ 30 m.

Additional charging of refrigerant

- The additional charging amounts relate to the refrigerant piping length as in "Maximum total one-way piping length" of the table in paragraph "Allowable pipe length and height difference" on page 6. (E.g. twin: L1+L2+L3).
- Over 30 m, please add refrigerant quantity according to following table.

For future servicing, mark with a circle the selected amount on the tables below

For pair system

Table 1: Additional charging of refrigerant <unit: kg>

Model	Standard liquid pipe size Connected piping length is between	
	30~40 m	40~50 m
RZQSG71	0.5	1.0
RZQS71	—	—
RZQS100~140	0.5	1.0

(1) Use a 2-stage vacuum pump with a non return valve which can evacuate to -100.7 kPa (5 Torr, -755 mm Hg). Evacuate the system from the liquid and gas pipes by using a vacuum pump for more than 2 hours and bring the system to -100.7 kPa. After keeping the system under that condition for more than one hour, check if the vacuum gauge rises or not. If it rises, the system may either contain moisture inside or have leaks.

For twin, triple, and double twin system

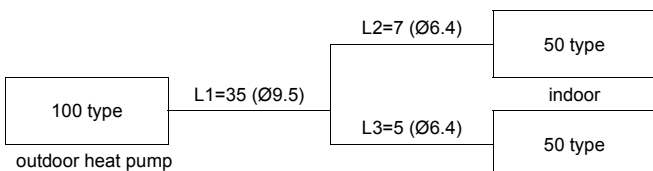
Please charge additionally according to the following calculation. (additional amount is R1+R2)

1. G1: total length of Ø9.5 mm liquid piping
G2: total length of Ø6.4 mm liquid piping
- 2.a G1>30 m
calculate length over 30 m (=G1-30 m)
Based on this length decide R1, R2 in the table
- b G1≤30 m and G1+G2>30 m
calculate total length over 30 m (=G1+G2-30 m)
Based on this decide R2 in the table, R1=0
3. Total additional charge amount
R=R1+R2 (kg)

Table 2: Length <unit: m>, additional charging of refrigerant <unit: kg>

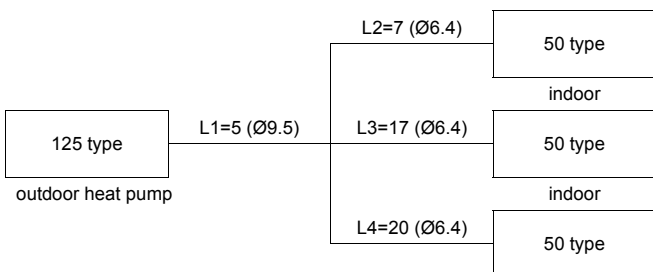
Liquid piping		Length exceeding "Chargeless length"			
		Ø	0~10	10~20	
Main	Branch	9.5	0.5	1.0	R1
Branch					
Branch		6.4	0.3	0.6	R2

Example 1



- 1 G1=L1=35 m G2=L2+L3=7+5=12
- 2 Over 30 m
 - a G1-30=5 m → Ø9.5 R1=0.5 kg
 - b G2=12 m → Ø6.4 R2=0.6 kg
- 3 Refrigerant charge amount=R=R1+R2=0.5+0.6=1.1 kg

Example 2



- 1 G1=L1=5 m G2=L2+L3+L4=7+17+20=44
- 2 Over 30 m
 - a G1=5 m → R1=0.0 kg
 - b (G1+G2)-30=(5+44)-30=19 → Ø6.4 R2=0.6 kg
- 3 Refrigerant charge amount=R=R1+R2=0.0+0.6=0.6 kg

In case of complete recharge of the refrigerant, please first execute vacuuming. Execute this vacuuming from the service port. Do not use the port of the stop valve for vacuuming. Vacuuming can not be executed completely using such port.

Position of service port:

Outdoor units have 1 service port, located between the heat exchanger and the 4-way valve.

Total charging weight of the refrigerant (after a leak, etc.)

The total charging amounts relate to the refrigerant piping length as in "Maximum allowable piping length" of the table in paragraph "Allowable pipe length and height difference" on page 6. (E.g. twin: L1+L2).

Table 3: Total charging amount <unit: kg>

Model	Liquid pipe size	Refrigerant piping length				
		5~10 m	10~20 m	20~30 m	30~40 m	40~50 m
RZQSG71	standard	1.75	2.25	2.75	3.25	3.75
RZQS71	standard	1.75	2.25	2.75	—	—
RZQS100~140	standard	2.70	3.20	3.70	4.20	4.70

Precaution for pumping-down operation

The outdoor unit is equipped with a low pressure switch or a low pressure sensor to protect the compressor.



Never short-circuit the low pressure switch or low pressure sensor during pump-down operation.

Take the following steps to perform the pumping-down operation.

■ Preliminary measures

- Make sure to cut off power supply.
Open the front panel and cover the PCB and terminal board with insulation sheet to avoid electric shock by accidental touching of live parts.
- Close the front panel before leaving the outdoor unit. You cannot leave the unit unattended in case the front panel remains open.
- Turn on the power supply and carry out pumping-down operation according to the following procedure.

■ Pump down operation

Procedure	Precaution
1 Make sure that stop valves both on liquid and on gas side are open.	—
2 Push the BS4 pumping-down operation button on the PC board of the outdoor unit (±8 seconds).	Compressor and outdoor fan will start operation automatically. The indoor unit fan may automatically start running. Please pay attention to this.
3 Close the stop valve on the liquid side securely about 2 minutes after the compressor started operation. (See "How to use the stop valve" on page 7)	Never leave the outdoor unit unattended with open front panel when power supply is on. In case the stop valve on the liquid side is not securely closed during compressor operation, pumping-down operation cannot be executed.
4 Once compressor operation stops after 2 to 5 minutes ^(a) , close the stop valve on the gas side securely. (See "How to use the stop valve" on page 7)	
5 Turn off the power supply.	

(a) If after finishing pumping-down operation the outdoor unit does not operate, not even when the remote controller switch is turned on, the remote controller may or may not indicate "U/F". But this is not a malfunction.

- After finishing the pumping-down operation, make sure to have removed the insulation sheet that was placed in the switch box as a protective measure as in chapter "Preliminary measures" on page 10.
- When in need of operation, turn off the main power supply and turn it on again. Make sure that stop valves both on liquid and gas side are open and be sure to operate the unit in cooling operation during test run.

Electrical wiring work



- All field wiring and components must be installed by a licensed electrician and must comply with relevant European and national regulations.
- All components procured on the site and all electric construction should comply with the applicable local and national codes.
- High voltage
To avoid electrical shock, make sure to disconnect the power supply 1 minute or more before servicing the electrical parts. Even after 1 minute, always measure the voltage at the terminals of main circuit capacitors or electrical parts and, before touching, make sure that those voltages are 50 V DC or less.



To persons in charge of electrical wiring work:

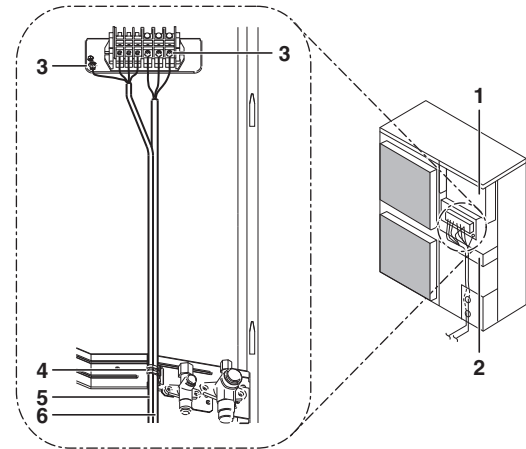
Do not operate the unit until the refrigerant piping is complete. (Running it before the piping is ready will break the compressor.)

Precautions on electrical wiring work

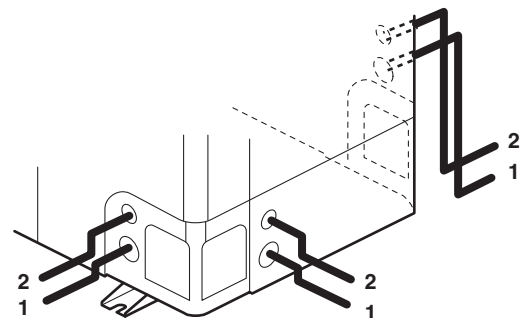
- Before obtaining access to terminal devices, all supply circuits must be interrupted.
- Use only copper wires.
- The wiring between the indoor unit and outdoor unit must be for 220~240 V.
- A main switch or other means for disconnection, having a contact separation in all poles, must be incorporated in the fixed wiring in accordance with relevant local and national legislation. Do not turn on the main switch until all the wiring is completed.
- Never squeeze bundled cables into a unit.
- Fix cables so that cables do not make contact with the pipes (especially on high pressure side).
- Secure the electrical wiring with clamping material as shown in the figure below so that it does not come in contact with the piping, particularly on the high-pressure side. Make sure no external pressure is applied to the terminal connectors.
- When installing the earth leakage breaker make sure that it is compatible with the inverter (resistant to high frequency electrical noise) to avoid unnecessary opening of the earth leakage breaker.
- As this unit is equipped with an inverter, installing a phase advancing capacitor not only will deteriorate power factor improvement effect, but also may cause capacitor abnormal heating accident due to high-frequency waves. Therefore, never install a phase advancing capacitor.

Secure the wiring in the order shown below.

- 1 Secure the ground wire to the stop valve attachment plate so that it does not slide.
 - 2 Secure the ground wire to the stop valve attachment plate one more time along with the electric wiring and the inter-unit wiring.
- Lay the electrical wiring so that the front cover does not rise up when doing wiring work and attach the front cover securely.



- 1 Switch box
- 2 Stop valve mounting plate
- 3 Ground
- 4 Tie-wrap
- 5 Wiring between units
- 6 Power supply and ground wiring



- 1 Power supply wiring and earth wire
- 2 Wiring between units

- When cables are routed from the unit, a protection sleeve for the conduits (PG-insertions) can be inserted at the knock-out hole. (See figure 7)

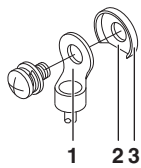
- 1 Wire
- 2 Bush
- 3 Nut
- 4 Frame
- 5 Hose
- A Inside
- B Outside

When you do not use a wire conduit, be sure to protect the wires with vinyl tubes to prevent the edge of the knock-out hole from cutting the wires.

- Follow the electric wiring diagram for electrical wiring works.
- Form the wires and fix the cover firmly so that the cover may be fit in properly.

Precautions on wiring of power supply and inter-unit wiring

- Use a round crimp-style terminal for connection to the power supply terminal board. In case it cannot be used due to unavoidable reasons, be sure to observe the following instruction.



- 1 Round pressure terminal
- 2 Cut out section
- 3 Cup washer

- Do not connect wires of different gauge to the same power supply terminal. (Looseness in the connection may cause overheating.)
- When connecting wires of the same gauge, connect them according to the figure below.



- Use the correct screwdriver to tighten the terminal screws. Small screwdrivers can damage the screw head and prevent appropriate tightening.
- Over-tightening the terminal screws can damage the screws.
- See the table below for tightening torques for the terminal screws.

Tightening torque (N·m)	
M4 (X1M)	1.2~1.8
M4 (EARTH)	1.2~1.4
M5 (X1M)	2.0~3.0
M5 (EARTH)	2.4~2.9

- Refer to the installation manual attached to the indoor unit for wiring of indoor units, etc.
- Attach an earth leakage breaker and fuse to the power supply line. (See figure 9)

I	Pair	M	Master
II	Twin	S	Slave
III	Triple	1	Earth leakage breaker
IV	Double twin	2	Fuse
		3	Remote controller

- In wiring, make certain that prescribed wires are used, carry out complete connections, and fix the wires so that outside forces are not applied to the terminals.

Specifications of standard wiring components

	RZQSG71	RZQS71	RZQS100	RZQS125	RZQS140
Minimum circuit amps (MCA) ^(a)	21.2	18.9	27.6	28.8	
Recommended field fuse (A)	25	20	32		
Wire type ^(b)	H05VV-U3G				
Size	Wiring size must comply with the applicable local and national code				
Wire type of wiring between the units	H05VV-U4G2.5				

(a) Stated values are maximum values (see electrical data of combination with indoor units for exact values).

(b) Only in protected pipes, use H07RN-F when protected pipes are not used.

NOTE The earth leakage breaker must be a high-speed type breaker of 30 mA (<0.1 s).

Equipment complying with EN/IEC 61000-3-12⁽¹⁾

Test operation



WARNING

Live parts can be easily touched by accident.

Never leave the unit unattended during installation or servicing when the service panel is removed.

NOTE



Note that during the first running period of the unit, required power input may be higher. This phenomenon originates from the compressor that requires a 50-hour run-in period before reaching smooth operation and stable power consumption.

Pre-run checks

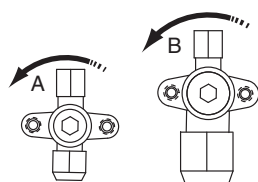
Items to check	
Electrical wiring Inter-unit wiring Ground wire	<ul style="list-style-type: none"> Is the wiring as mentioned on the wiring diagram? Make sure no wiring has been forgotten and that there are no missing phases or reverse phases. Is the unit properly grounded? Is the wiring between units connected in series correct? Are any of the wiring attachment screws loose? Is the insulation resistance at least 1 MΩ? <ul style="list-style-type: none"> Use a 500 V mega-tester when measuring insulation. Do not use a mega-tester for low-voltage circuits.
Refrigerant piping	<ul style="list-style-type: none"> Is the size of the piping appropriate? Is the insulation material for the piping attached securely? Are both the liquid and gas pipes insulated? Are the stop valves for both the liquid side and the gas side open?
Extra refrigerant	<ul style="list-style-type: none"> Did you write down the extra refrigerant and the refrigerant piping length?

- Be sure to perform a test run.
- Be sure to fully open the liquid-side and gas-side stop valves. If you operate the unit with stop valves closed, the compressor will break down.
- Be sure to execute the first test run of the installation in cooling mode operation.
- Never leave the unit unattended with an open front panel during test run.

(1) European/International Technical Standard sets the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤75 A per phase.

Test run

- 1 Be sure to turn power on at least 6 hours before starting operation in order to protect the compressor.
- 2 Make sure the liquid and gas stop valves are open.



Opening direction

- A Liquid side
- B Gas side

Remove the cap and turn counterclockwise with a hex wrench until it stops

- 3 Be sure to close the frontside panel before operation, as not doing so can cause electric shock.
- 4 Be sure to set the unit to cooling operation mode.
- 5 Press the inspection/test operation button of the remote controller 4 times (2 times in case of a wireless remote controller) to go into the test run mode.
- 6 Press the ON/OFF button within 10 seconds to start the test run and check the operation status for about 6 minutes. The refrigerant pressure may not rise immediately, even if the stop valve is opened after an air purge is performed using a vacuum pump. This is because the indoor unit refrigerant piping is closed off with electric valves inside. This will not create any problems during operation.
- 7 Push the air flow direction adjust button and check if the unit is responding to the new air flow direction position.
- 8 Press the inspection/test operation button of the remote controller 2 times to go into check mode and to make sure that the malfunction code displays "00" (=normal). In case the malfunction code does not display "00", refer to "Failure diagnosis at the moment of first installation" on page 13.
- 9 If the inspection/test operation button is pressed 4 times during a test run, the unit returns to normal operation.
- 10 Check all functions according to the operation manual.

Precautions regarding test-runs

- 1 In order to detect stop valves failing to open, operation of the unit is compulsorily performed in cooling for 2-3 minutes during the first test run, even if the remote controller was set to heating operation. In this case, the remote controller will have kept displaying the heating symbol all the time and the unit will switch to heating operation automatically after elapse of that time.
- 2 In case you cannot operate the unit in test run mode for any unusual reason, refer to "Failure diagnosis at the moment of first installation" on page 13.
- 3 In case you cannot operate the unit in test run mode, the unit usually returns to its normal state after 30 minutes.
- 4 In case of a wireless remote controller, execute the test run only after having installed the indoor unit decoration panel with infrared receiver first.
- 5 In case the panels of indoor units are not yet installed to the indoor units, make sure to shut off the power supply after finishing the complete test run.
- 6 A complete test run surely includes shutting off power after having performed a normal operation stop on the remote controller. Do not stop operation by turning circuit breakers off.

Failure diagnosis at the moment of first installation

- In case nothing is displayed on the remote controller (the current set temperature does not display), check for any of the following abnormalities before you can diagnose possible malfunction codes.
 - Disconnection or wiring error (between power supply and outdoor unit, between outdoor unit and indoor units, between indoor unit and remote controller).
 - The fuse on the outdoor unit PCB may have run out.
- If the remote controller shows "E3", "E4" or "LB" as an error code, there is a possibility that either the stop valves are closed, or that air inlet or air outlet are blocked.
- If the error code "L2" is displayed on the remote controller, check for voltage imbalance.
- If the error code "L4" or "LP" is displayed on the remote controller, check the inter-unit branch wiring connection.
- If the error code "L4" is displayed on the remote controller, it is possible that air inlet or air outlet are blocked.
- The reversed phase protection detector of this product only works during the initialisation stage after a power reset. The reversed phase protection detector is designed to stop the product in case of an abnormality when the product is started up.
 - When the reversed phase protection circuit forces the unit to stop, check if all phases exist. If this is the case, shut off the power supply to the unit and replace two of three phases. Turn on power again and start the unit.
 - Reversed phase detection is not performed while the product is operating.
 - In case of possible reversal of phases after a momentary black out of power and the power goes on and off while the product is operating, install a reversed phase protection circuit on site. Such situation is not unimaginable when using generators. Running the product in reversed phase can break the compressor and other parts.

Disposal requirements

Dismantling of the unit, treatment of the refrigerant, of oil and of other parts must be done in accordance with relevant local and national legislation.

Wiring diagram

○	: Wire clamp
□□	: Terminal
⊞	: Connector
—⊞—	: Relay connector
⋮⊞⋮	: Field wiring

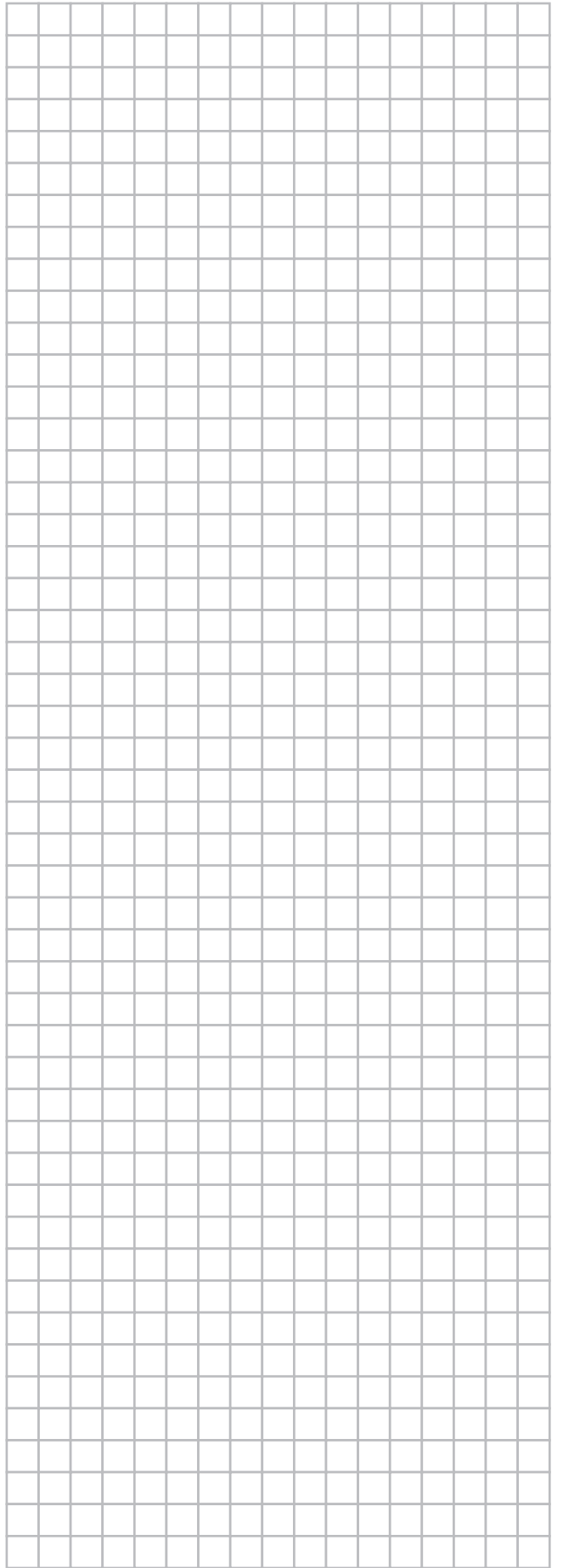
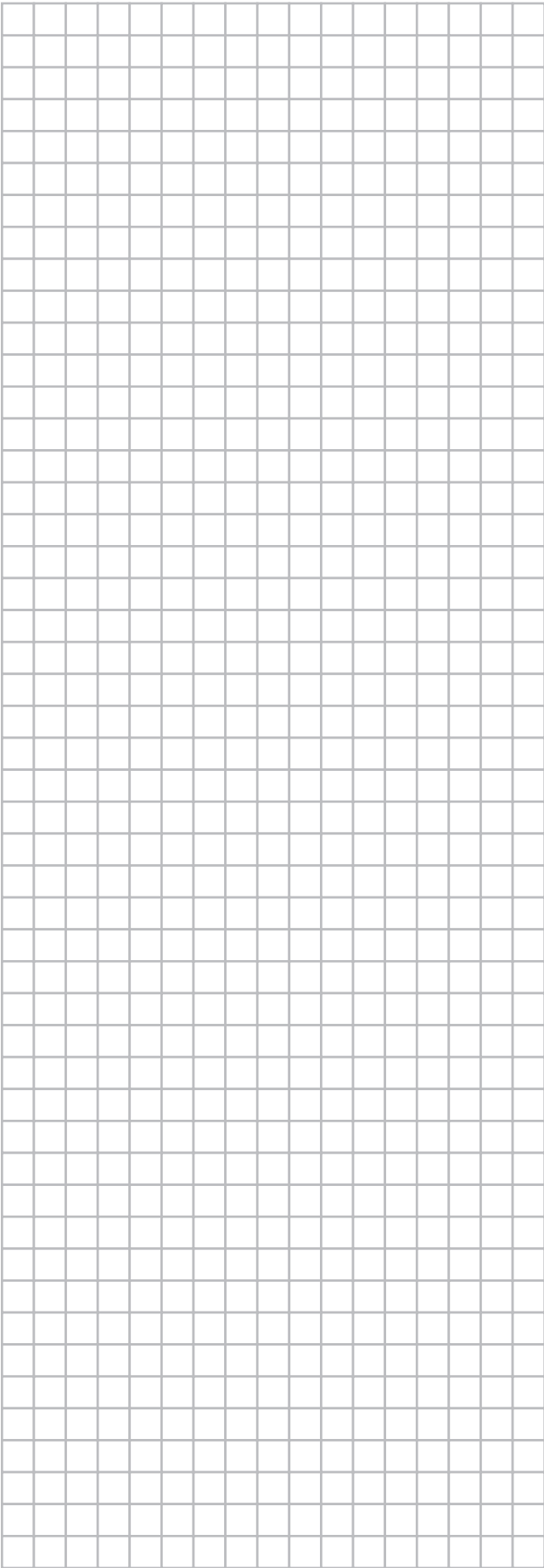
BLK	: Black
GRN	: Green
BRN	: Brown
BLU	: Blue
ORG	: Orange
RED	: Red
WHT	: White
YLW	: Yellow



: Refer to the service manual for connecting wiring to X6A.
 : The position of the selector switches (DS1) indicate the factory setting. For details, refer to the service manual.

A1P~A4P	.....	Printed circuit board
BS1~BS4	.....	Push button switch
C1~C4	.....	Capacitor
DS1	.....	DIP switch
E1HC	.....	Crankcase heater
F1U~F6U	.....	Fuse
HAP (A1P)	.....	Service monitor (green)
H1P~H7P (A2P)	.....	Service monitor (orange)
K1R	.....	Magnetic relay (Y1S)
K4R	.....	Magnetic relay (E1HC)
K10R•K11R	.....	Magnetic relay
L1R	.....	Reactor
M1C	.....	Motor (compressor)
M1F•M2F	.....	Motor (fan)
PS	.....	Power circuit
Q1DI	.....	Earth leakage breaker (field supply)
R1•R2	.....	Resistor
R1T	.....	Thermistor (air)
R2T	.....	Thermistor (discharge)

R3T	.....	Thermistor (suction pipe)
R4T	.....	Thermistor (coil)
R5T	.....	Thermistor (coil middle)
R6T	.....	Thermistor (liquid)
R10T	.....	Thermistor (fin)
RC	.....	Signal receiver circuit
S1NPH	.....	Pressure sensor (high)
S1PH	.....	Pressure switch (high)
TC	.....	Signal transmission circuit
V1R	.....	Power module
V2R•V3R	.....	Diode module
V1T	.....	Insulated gate bipolar transistor
X1M	.....	Terminal strip
X6A	.....	Connector (option)
Y1E	Expansion valve
Y1S	4 way valve
Z1C~Z3C	Noise filter
Z1F~Z4F	Noise filter



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