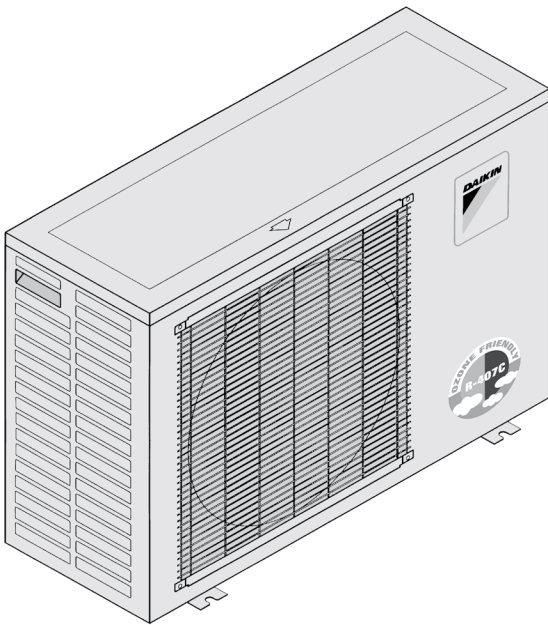




INSTALLATION MANUAL

R-407C split series outdoor units



R25GZ7V11
R35GZ7V11
R45GZ7V11
R45GZ7W11

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:

verklaart hierbij op eigen exclusieve verantwoordelijkheid dat de airconditioning units waarop deze verklaring betrekking heeft:
declara baja su única responsabilidad que los modelos de aire acondicionado a los cuales hace referencia la declaración:
dichiara sotto sua responsabilità che i condizionatori modello a cui è riferita questa dichiarazione:

δηλώνει με αποκλειστική της ευθύνη ότι τα μοντέλα των κλιματιστικών συσκευών στα οποία αναφέρεται η παρούσα δήλωση:
declara sob sua exclusiva responsabilidade que os modelos de ar condicionado a que esta declaração se refere:
erklærer under eeneansvar, at klimaanlægmodellerne, som denne deklaration vedrører:

deklarerer i egenskap av huvudansvarig, att luftkonditioneringsmodellerna som berörs av denna deklaration innebär att:
erklærer et fullstendig ansvar for at de luftkondisjoneringsmodeller som berøres av denne erklæring innebærer at:
ilmoittaa yksinomaan omalla vastuullaan, että tämän ilmoituksen tarkoitamat ilmastointilaitteiden mallit:

R25GZ7V11, R35GZ7V11, R45GZ7V11, R45GZ7W11

are in conformity with the following standard(s) or other normative document(s), provided that these are used in accordance with our instructions:
der/den folgenden Norm(en) oder einem anderen Normdokument oder -dokumenten entspricht/entsprechen, unter der Voraussetzung, daß sie gemäß unseren Anweisungen eingesetzt werden:
sont conformes à la/aux norme(s) ou autre(s) document(s) normatif(s), pour autant qu'ils soient utilisés conformément à nos instructions:

conform de volgende norm(en) of één of meer andere bindende documenten zijn, op voorwaarde dat ze worden gebruikt overeenkomstig onze instructies:
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:
sono conformi al(i) seguente(i) standard(s) o altro(i) documento(i) a carattere normativo, a patto che vengano usati in conformità alle nostre istruzioni:

είναι σύμφωνα με το(α) ακόλουθο(α) πρότυπο(α) ή άλλο έγγραφο(α) κανονισμών, υπό την προϋπόθεση ότι χρησιμοποιούνται σύμφωνα με τις οδηγίες μας:
está 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:
overholder følgende standard(er) eller andet/andre retningsgivende dokument(er), forudsat at disse anvendes i henhold til vore instrukser:

respektive utrustning är utförd i överensstämmelse med och följer följande standard(er) eller andra normgivande dokument, under förutsättning att användning sker i överensstämmelse med våra instruktioner :
respektive utstyr er i overensstemmelse med følgende standard(er) eller andre normgivende dokument(er), under forutsetning av at disse brukes i henhold til våre instrukser:
vastaavat seuraavien standardien ja muiden ohjeellisten dokumenttien vaatimuksia edellyttäen, että niitä käytetään ohjeidemme mukaisesti:

EN60335-2-40,

following the provisions of:
gemäß den Vorschriften der:
conformément aux stipulations des:

overeenkomstig de bepalingen van:
siguiendo las disposiciones de:
secondo le prescrizioni per:

με τήρηση των διατάξεων των:
de acordo com o previsto em:
under iagttagelse af bestemmelserne i:

enligt villkoren i:
gitt i henhold til bestemmelsene i:
noudattaen määräyksiä:

Directives, as amended.
Direktiven, gemäß Änderung.
Directives, telles que modifiées.

Richtlijnen, zoals geamendeerd.
Directivas, según lo enmendado.
Direttive, come da modifica.

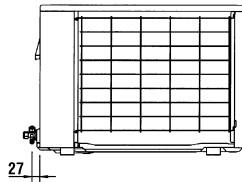
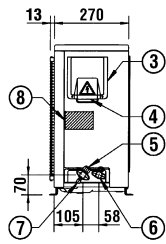
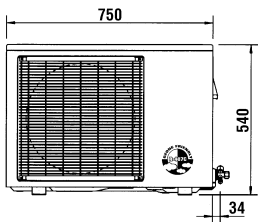
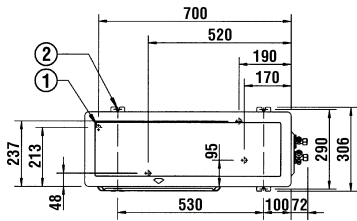
Οδηγιών, όπως έχουν τροποποιηθεί.
Directivas, conforme alteração em.
Direktiver, med senere ændringer.

Direktiv, med företagna ändringar.
Direktiver, med foretatte endringer.
Direktiivejä, sellaisina kuin ne ovat muutettuina.

Low Voltage 73/23/EEC
Machinery Safety 89/392/EEC
Electromagnetic Compatibility 89/336/EEC *

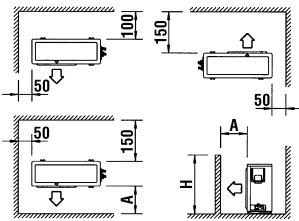
* Note	as set out in the Technical Construction File DAIKIN.TCF.001 and judged positively by KEMA according to the Certificate 58242-KRQ/ECM95-4224 .
Hinweis	wie in der Technischen Konstruktionsakte DAIKIN.TCF.001 aufgeführt und von KEMA positiv ausgezeichnet gemäß Zertifikat 58242-KRQ/ECM95-4224 .
Remarque	tel que stipulé dans le Fichier de Construction Technique DAIKIN.TCF.001 et jugé positivement par KEMA conformément au Certificat 58242-KRQ/ECM95-4224 .
Bemerk	zoals vermeld in het Technisch Constructiedossier DAIKIN.TCF.001 en in orde bevonden door KEMA overeenkomstig Certificaat 58242-KRQ/ECM95-4224 .
Nota	tal como se expone en el Archivo de Construcción Técnica DAIKIN.TCF.001 y juzgado positivamente por KEMA según el Certificado 58242-KRQ/ECM95-4224 .
Nota	delineato nel File Tecnico di Costruzione DAIKIN.TCF.001 e giudicato positivamente da KEMA secondo il Certificato 58242-KRQ/ECM95-4224 .
Σημείωση	όπως προσδιορίζεται στο Αρχείο Τεχνικής Κατασκευής DAIKIN.TCF.001 και κρίνεται θετικά από το KEMA σύμφωνα με το Πιστοποιητικό 58242-KRQ/ECM95-4224 .
Nota	tal como estabelecido no Ficheiro Técnico de Construção DAIKIN.TCF.001 e com o parecer positivo de KEMA de acordo com o Certificado 58242-KRQ/ECM95-4224 .
Bemærk	som anført i den Tekniske Konstruktionsfil DAIKIN.TCF.001 og positivt vurderet af KEMA i henhold til Certifikat 58242-KRQ/ECM95-4224 .
Information	utrustningen är utförd i enlighet med den Tekniska Konstruktionsfilen DAIKIN.TCF.001 som positivt intygas av KEMA vilket också framgår av Certifikat 58242-KRQ/ECM95-4224 .
Merk	som det fremkommer i den Tekniske Konstruktionsfilen DAIKIN.TCF.001 og gjennom positiv bedømmelse av KEMA ifølge Sertifikat 58242-KRQ/ECM95-4224 .
Huom	jotka on esitetty Teknisessä Asiakirjassa DAIKIN.TCF.001 ja jotka KEMA on hyväksynyt Sertifikaatin 58242-KRQ/ECM95-4224 mukaisesti.



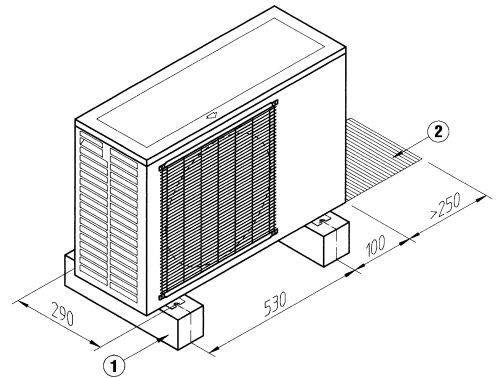


	⑤ ØA	⑥ ØB
R25GZ7	Ø9.5mm or 3/8" Cut	Ø6.4mm or 1/4" Cut
R35GZ7	Ø12.7mm or 1/2" Cut	Ø6.4mm or 1/4" Cut
R45GZ7	Ø15.9mm or 5/8" Cut	Ø6.4mm or 1/4" Cut

1



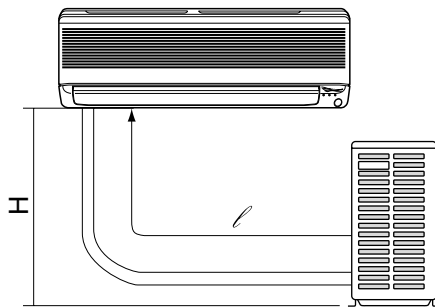
$H \leq 1000 \Rightarrow A \geq 250$
 $H > 1000 \Rightarrow A \geq 500$



2

3

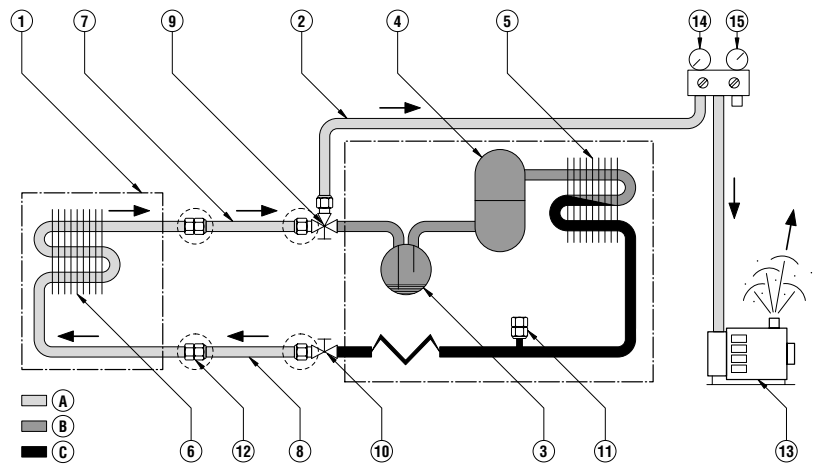
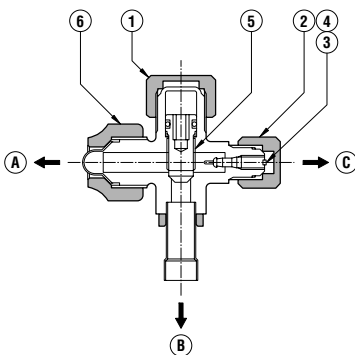
R25GZ7		≤15m	≤17.5m	≤20.0m	≤22.5m	≤25m
R35GZ7	R407C	+0g	+50g	+100g	+150g	+200g
R45GZ7	H _{max.}	15m				



4

5

6



7

8

READ THIS MANUAL IN COMBINATION WITH THE INSTALLATION MANUAL OF THE CORRESPONDING INDOOR UNIT.



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 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.

1. INSTALLING THE OUTDOOR UNIT

1.1. OUTLOOK DIAGRAM (see figure 1)

- 1) drain outlet
- 2) 4 x holes for anchor bolts (M8 or M10)
- 3) service cover + wiring diagram
- 4) power intake
- 5) low pressure gas stop valve ØA
- 6) liquid stop valve ØB
- 7) low pressure service port
- 8) nameplate

1.2. SELECTING THE LOCATION

Be sure to install the outdoor unit where:

- the foundation is solid enough to bear the weight and vibration of the unit.
- the space around the unit is adequate for ventilation. (see figure 2)
- the site is not near a concentration of flammable gas.
- the site is not exposed to a salty atmosphere or sulphate gas.
- the site is efficiently isolated so that the running noise and hot exhaust do not disturb the users or their neighbours.



When operating the unit at low outdoor ambient temperature, be sure to follow the instructions described below.

- To prevent exposure to wind, install the outdoor unit with its suction side facing the wall.
- Never install the outdoor unit at a site where the suction side may be exposed directly to wind.
- To prevent exposure to wind, it is recommended to install a baffle plate on the air discharge side of the outdoor unit.
- In heavy snowfall areas, select an installation site where the snow will not affect operation of the unit.

Since drain comes out of the outdoor unit, do not place anything around the outdoor unit that must be kept free from moisture. Do **not** install the unit in a place containing moisture.

1.3. INSTALLATION (see figure 3)

- 1) If drainage is bad, place concrete blocks as bases.
- 2) Leave sufficient space for piping and electric wiring, or at least enough space for unscrewing and removing the terminal cover.

2. REFRIGERANT PIPING

2.1. FIELD PIPING



All field piping must be provided by a licensed refrigeration technician and must comply with the relevant local and national codes.

2.2. PIPE CONNECTIONS



Do not use mineral oil on flared part.

Prevent mineral oil from getting into the system as this would reduce the lifetime of the units.

Never use piping which has been used for previous installations. Only use parts which are delivered with the unit.

Do never install a drier to this R-407C unit in order to guarantee its lifetime. The drying material may dissolve and damage the system.

Piping connections must be made from the right side of the unit. (Refer to figure 1 for the required piping diameters).

2.3. FIRST INSTALLATION (see figures 4-5)

- If pipe length (ℓ) between indoor and outdoor unit exceeds **15 meters**, additional refrigerant R-407C (**20g/m**) must be charged after vacuum drying of the installation!
- Maximum allowable level difference (Hmax) between indoor and outdoor unit is limited up to 15 meters.

3. VACUUM DRYING OF THE INSTALLATION



Do not purge the air with refrigerants but use a vacuum pump to vacuum the installation! There is no extra refrigerant in the outdoor unit for air purging!

3.1. FIGURES

3.1.1. Gas stop valve (see figure 7)

- A) connection to fan coil (indoor) unit
- B) connection to accumulator / compressor
- C) connection to low pressure gauge manifold
- 1) blind cover
- 2) low pressure service port cover
- 3) low pressure service
- 4) check valve
- 5) valve shaft
- 6) flare nut

3.1.2. Vacuum pump connection drawing (see figure 8)

- A) air
- B) refrigerant - gas
- C) refrigerant - liquid
- test for leakage
- 1) fan coil (indoor) unit
- 2) condensing (outdoor) unit
- 3) accumulator
- 4) compressor
- 5) condenser
- 6) evaporator
- 7) gas line
- 8) liquid line
- 9) gas stop valve with low pressure service port
- 10) liquid stop valve
- 11) high pressure service port
- 12) flare joint
- 13) 2-stage vacuum pump
- 14) low pressure gauge
- 15) high pressure gauge

3.2. METHOD



Use a vacuum pump for R-407C exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit.

- Step 1: Gas stop valve and liquid stop valve remain closed.
- Step 2: Connect the low pressure service port to the low pressure gauge manifold and the vacuum pump as illustrated in figure 8.

Notes:

- Use a 2-stage vacuum pump with a built-in contra flow preventive adapter or attach a separate contra flow preventive adapter.
- Use a clean gauge manifold and charging hose for R-407C exclusively.

- Step 3: Open the low pressure valve of the gauge manifold
- Step 4: Actuate the vacuum pump and make sure that the low pressure gauge indicates -0.1 MPa (-760 mmHg)

Evacuation duration:

Gas side piping size	Piping length	
	≤ 15 m	> 15 m
ø 9.5 mm	≥ 10 minutes	≥ 15 minutes
ø 12.7 mm	≥ 15 minutes	≥ 20 minutes
ø 15.9 mm	≥ 20 minutes	

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