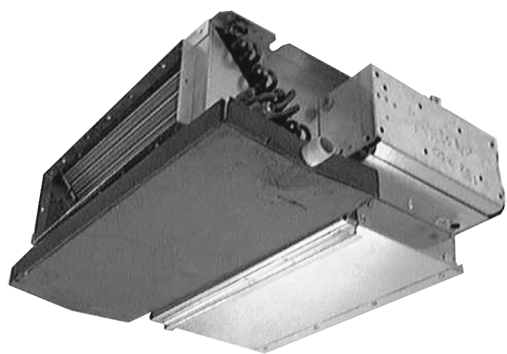


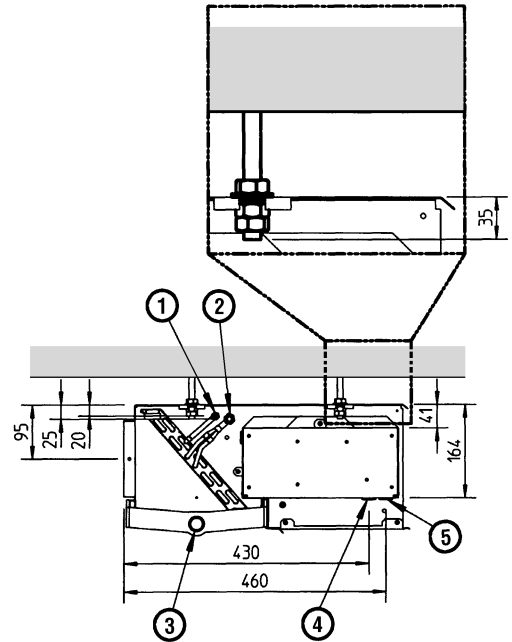
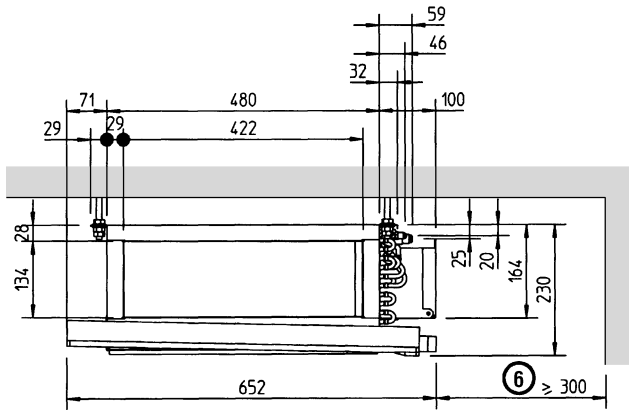
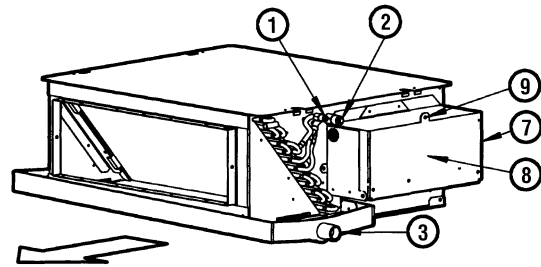
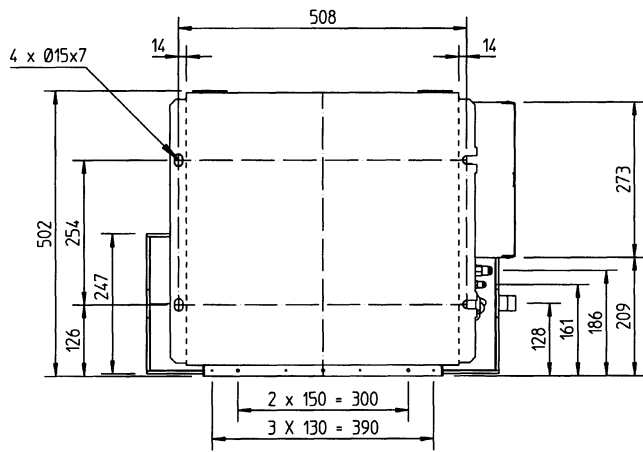


INSTALLATION MANUAL

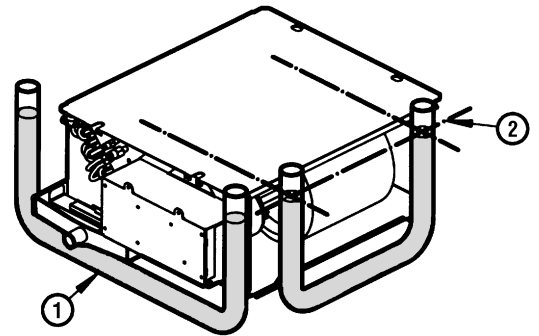
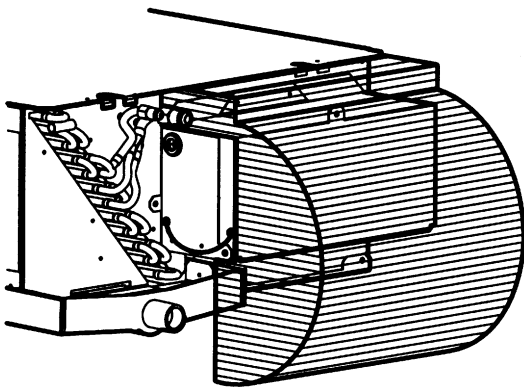
Split series room air conditioners
Multi system room air conditioners



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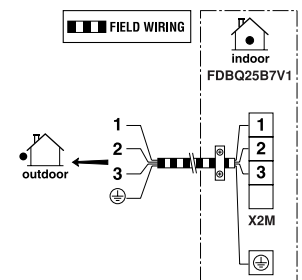
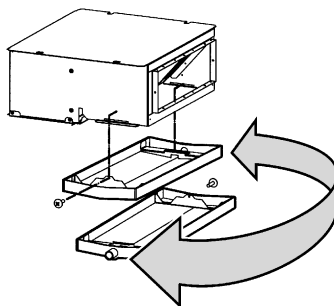
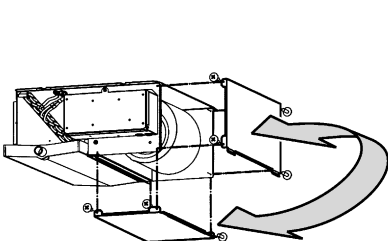


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Daikin Europe N.V.

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 eneansvar, at klimaanlægmodellerne, som denne deklaration vedrører:

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

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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:
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:
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:

Low Voltage 73/23/EEC
Machinery Safety 98/37/EEC
Electromagnetic Compatibility 89/336/EEC *

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.
Direktivejä, sellaisina kuin ne ovat muutettuina.

* Note	as set out in the Technical Construction File DAIKIN.TCF.021 and judged positively by KEMA according to the Certificate 2024351-QUA/EMC02-4565 .
Hinweis	wie in der Technischen Konstruktionsakte DAIKIN.TCF.021 aufgeführt und von KEMA positiv ausgezeichnet gemäß Zertifikat 2024351-QUA/EMC02-4565 .
Remarque	tel que stipulé dans le Fichier de Construction Technique DAIKIN.TCF.021 et jugé positivement par KEMA conformément au Certificat 2024351-QUA/EMC02-4565 .
Bemerk	zoals vermeld in het Technisch Constructiedossier DAIKIN.TCF.021 en in orde bevonden door KEMA overeenkomstig Certificaat 2024351-QUA/EMC02-4565 .
Nota	tal como se expone en el Archivo de Construcción Técnica DAIKIN.TCF.021 y juzgado positivamente por KEMA según el Certificado 2024351-QUA/EMC02-4565 .
Nota	delineato nel File Tecnico di Costruzione DAIKIN.TCF.021 e giudicato positivamente da KEMA secondo il Certificato 2024351-QUA/EMC02-4565 .
Σημείωση	όπως προσδιορίζεται στο Αρχείο Τεχνικής Κατασκευής DAIKIN.TCF.021 και κρίνεται θετικά από το KEMA σύμφωνα με το Πιστοποιητικό 2024351-QUA/EMC02-4565 .
Nota	tal como estabelecido no Ficheiro Técnico de Construção DAIKIN.TCF.021 e com o parecer positivo de KEMA de acordo com o Certificado 2024351-QUA/EMC02-4565 .
Bemærk	som anført i den Tekniske Konstruktionsfil DAIKIN.TCF.021 og positivt vurderet af KEMA i henhold til Certifikat 2024351-QUA/EMC02-4565 .
Information	utrustningen är utförd i enlighet med den Tekniska Konstruktionsfilen DAIKIN.TCF.021 som positivt intygas av KEMA vilket också framgår av Certifikat 2024351-QUA/EMC02-4565 .
Merk	som det fremkommer i den Tekniske Konstruktionsfilen DAIKIN.TCF.021 og gjennom positiv bedømmelse av KEMA ifølge Sertifikat 2024351-QUA/EMC02-4565 .
Huom	jotka on esitetty Teknisessä Asiakirjassa DAIKIN.TCF.021 ja jotka KEMA on hyväksynyt Sertifikaatin 2024351-QUA/EMC02-4565 mukaisesti.

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COMBINE THIS INDOOR UNIT WITH A DAIKIN OUTDOOR UNIT ONLY!

READ THIS MANUAL CAREFULLY TO ENSURE CORRECT INSTALLATION. BE SURE TO GIVE THE CUSTOMER THE ENCLOSED OPERATION MANUAL.

REFER TO THE INSTALLATION MANUAL OF THE OUTDOOR UNIT FOR THE ITEMS NOT DESCRIBED BELOW.

Standard supplied accessories

Suction air filter	1	
Installation manual Operation manual	1 of each	

Optional accessories

Wiring adaptor for electrical heater (KRP1B61)	
Remote controller	



IMPROPER INSTALLATION OR ATTACHMENT OF EQUIPMENT OR ACCESSORIES COULD RESULT IN ELECTRIC SHOCK, SHORTCIRCUIT, 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.

INSTALLING THE INDOOR UNIT



Never turn the circuit breaker ON until all the installation work is completed!

Contact your Daikin dealer to confirm the outdoor unit combination.

Outlook drawing (See figure 1)

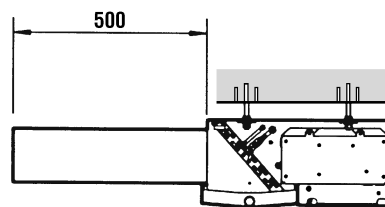
- 1 liquid pipe Ø6.4 mm or 1/4" Cut
- 2 gas pipe Ø9.52 mm or 3/8" Cut
- 3 drain socket OD=Ø27.2 ID=Ø21.6
- 4 rubber bush for wiring intake of the on/off-switch, the remote controller and the wiring adaptor for the electrical heater
- 5 rubber bush for wiring intake of the power supply
- 6 service space
- 7 switch box
- 8 switch box cover
- 9 screw for opening the switch box cover

Selecting the location



Make sure that the indoor and outdoor unit is installed out of reach for children!

The units are designed for ceiling concealed installation with an air discharge duct of 500 mm.



Leave sufficient space for piping, servicing and electric wiring.

Be sure to install the unit so that:

- the indoor and outdoor unit, the interconnection and the power supply cable are at least 1 m away from televisions or radios. This is to prevent interference from the air conditioner on your televisions or radios.
- the air will be distributed to the entire room.
- the ceiling is strong enough to bear the weight of the indoor unit.
- there are no obstructions for the air inlet and outlet.
- the wall hole to the outdoor side for the electric wiring, the refrigerant and drain piping can be made without problems in terms of building structure.

Please consult with your dealer for installing in a special environment (e.g. a place in oily surroundings, a place with sulfide gas, a place where chemicals are used nearby, a place with big voltage fluctuations, a place with volatile flammable gas, a place in which machines generate electromagnetic waves).

Installation

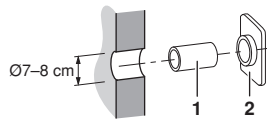
Selection of installation site

- Ensure sufficient clearance for maintenance and service.
- Make sure that no piping is passing through the hatched area (See figure 2)
 - condensation can drip on the switch box
 - pipes can prevent you from opening the switch box smoothly
- Refer to the installation manual of the outdoor unit and confirm the maximum allowable piping length.

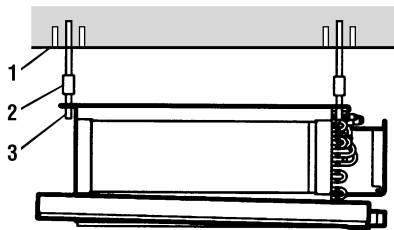
Preparation before installation

- Relation of the ceiling opening to the unit and suspension bolt position (See figure 1)
- Making the wall hole to the outdoor side for the electric wiring, the refrigerant and drain piping
 - The hole must slope down toward the outdoor side.
 - The hole size must be just as large as to hold the protective pipe (Ø7–8 cm) (field supply).
 - Use a wall hole cover (field supply) to hide the wall hole as much as possible.

- 1 protective pipe (field supply)
- 2 wall hole cover (field supply)



- The fan speed for this indoor unit is equipped to provide a standard external pressure.
- Install the suspension bolts



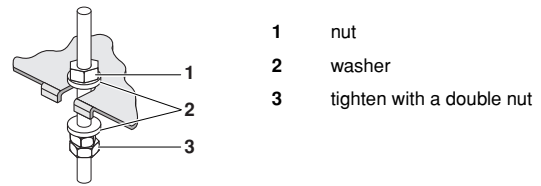
- 1 anchor (field supply)
- 2 long nut or turn-buckle (field supply)
- 3 suspension bolt (field supply)

Use M10 size bolts for the suspension.

Use anchors for existing ceiling, and a sunken insert, sunken anchor or other field supplied parts to reinforce the ceiling in order to bear the weight of the unit.

Installing the indoor unit

Install the indoor unit temporarily. Attach the hanger bracket to the suspension bolt. Be sure to fix it securely by using a nut and washer on the upper and lower side of the hanger bracket and tighten the upper nut.



NOTE Check that the unit is levelled at all 4 corners. (See figure 3)

- 1 vinyl tube with water
- 2 water level

INSTALLING THE OUTDOOR UNIT

Refer to the installation manual of the outdoor unit.

REFRIGERANT PIPING

This unit is especially designed for use of R-410A refrigerant.

Field piping

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

Pipe connections

- Refer to the chapter "Outlook drawing" on page 1 for the required piping diameters.
- If installed as a multi system indoor unit, use the reducers supplied with the outdoor unit when the piping from the indoor unit does not fit on the port of the outdoor unit. For instructions, read the instruction sheet supplied with the outdoor unit.
- Be sure to insulate the gas pipe and the liquid pipe separately with polyethylene foam insulation material (thermal conductivity=0.041~0.052 kW/mK)

Indoor unit		
Insulation	Inside diameter	wall thickness
Gas pipe	12–15 mm	8–10 mm
Liquid pipe	8–10 mm	7–10 mm

NOTE For the gas pipe, use a polyethylene foam resistant to a temperature of 110°C.



When inserting the refrigerant piping in the wall hole, take care not to let dust or moisture come into the piping. Protect the pipes with a cap or seal the pipe end completely with tape.

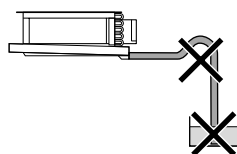


- 1 dust
- 2 moisture
- 3 tape
- 4 cap

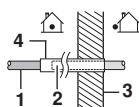
DRAIN PIPING



- The drain hose must slope downward to the outdoor side.
- Do not use a trap in the drain piping.
- Never put the end of the drain hose into water.
- If you extend the drain hose, always insulate it up to the outdoor side with polyethylene foam insulation material (field supply).



- 1 drain hose fixed to the indoor unit
- 2 the indoor side extension drain hose
- 3 wall
- 4 polyethylene foam



Drain check

Make sure that the drain hose is firmly connected

Pour some water into the drain pan to check if the water flows smoothly.

VACUUM DRYING OF THE INSTALLATION

Refer to the installation manual of the outdoor unit.

FIELD WIRING



- All field wiring and components must be provided by a licensed electrician and must comply with the relevant local and national codes.
- Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance.
- Before supplying the power, check that the voltage is within $\pm 10\%$ of the rated voltage marked on the nameplate.
- Take care not to bend the printed circuit board when inserting or removing the connectors.

Field wiring

Wire in accordance with the wiring diagrams (see [figure 6](#)) and outlook diagram. (See [figure 1](#))

	: Field wiring
	: Terminal
	: Connector
	: Wire clamp
	: Protective earth (screw)
BLK	: Black
BLU	: Blue
BRN	: Brown
GRN	: Green
GRY	: Gray
ORG	: Orange
RED	: Red
WHT	: White
YLW	: Yellow

A1P.....	Printed circuit board
C1R.....	Capacitor (fan motor)
F1T.....	Thermal fuse 152°C (M1F embedded)
F1U.....	Fuse (250 V/5 A)
HAP.....	Light emitting diode (service monitor - green)
M1F.....	Motor (fan)
R1T.....	Thermistor (air)
R2T.....	Thermistor (liquid)
R3T.....	Thermistor (coil)
RyF1-4.....	Magnetic relay (fan)
SS1.....	Selector switch (emergency)
X1M,X2M.....	Terminal strip
RC.....	Signal receiver circuit
T1R.....	Transformer
TC.....	Signal transmission circuit

ADAPTOR FOR WIRING

RyH.....	Magnetic relay
----------	----------------

CONNECTOR FOR OPTIONAL PARTS

X33A.....	Connector (adaptor for wiring)
X35A.....	Connector (group control adaptor)
X40A.....	Connector (remote on/off, forced off)
X60A,X61A.....	Connector (interface adaptor for sky air series)

FIELD SUPPLY

K1R..... Magnetic relay
EH..... Electrical heater

Wired remote controller :
Details of wired remote controller :
Adaptor for wiring :
Terminals for operation indicator :
Fan operation :
Compressor operation :
Switch box :

NOTE



1. When using the central remote controller, see manual for connection to the unit.
2. The remote controller model varies according to the combination system. See technical materials and catalogs, etc. before connecting.

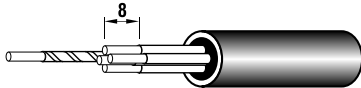
NOTE



In case of installing an electric heater, execute the additional wiring and use a separate power supply of 1~50 Hz 230 V.

Field cable and field fuse

- Use solid core cables to avoid loosening of the wires.
- Refer to the installation manual of the outdoor unit for the required field cable section and field fuse.
- Remove maximum 8 mm of the wire insulation when connecting the wires to the terminals.



- Open the switch box cover. Pull the wires through rubber bush 5 (See figure 1) and connect them to the matching power supply terminal.

NOTE



Observe the notes mentioned below when wiring to the power supply terminal board.

- 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.



INSTALLING THE REMOTE CONTROLLER



- Do not install the remote controller near a heater or in a position exposed to direct sunlight.
- Do not directly touch the PC board with your hand during installation.

Installation instructions and field settings

Refer to the installation manual delivered with the optional remote controller.

Setting the air filter replacement



By installing an air suction and discharge filter, lifetime of the unit can be prolonged.

Setting

- The remote controller displays  when it is time to clean the air filters.
- Change the second code n° according to the table depending on the amount of dirt or dust in the room (the 2nd code n° is factory set to '01' for light air filter contamination).

Setting	Display interval	Mode n°	1st code n°	2nd code n°
light air filter contamination	±2500 hrs.	20	0	01
heavy air filter contamination	±1250 hrs.	20	0	02

Setting the remote sensor

The customer has the ability to select the thermistor. Both unit and remote controller are equipped with a thermistor.

Setting

- Change the second code n° according to the table to enable or disable the remote sensor

Setting	Mode n°	1st code n°	2nd code n°
enabled	20	2	01
disabled	20	2	02



CAUTION for multi heat pump system

Enable the remote sensor when combined to a multi split heat pump system.

When the thermostat is switched off in heating mode, the expansion valve of the outdoor unit will not close completely. Some refrigerant will pass through, causing a temperature rise of the heat exchanger. The thermistor of the unit is sensing a higher temperature than the actual room temperature. This can cause a problem for the unit during start up in heating mode. By enabling the thermistor in the remote controller, the actual room temperature is sensed instead of the heat exchanger temperature.

Setting the FORCED ON/OFF function

The customer has the ability to select the FORCED OFF or the FORCED ON/OFF function.

Setting	Mode n°	1st code n°	2nd code n°
FORCED ON	22	1	01
FORCED OFF	22	1	02

CHECKLIST

After installing, check the following items:

Tick ✓ when checked	
☐	Is the indoor unit securely installed?
☐	Is the gas leakage checked?
☐	Is the heat insulation: • for the gas pipe adequate? • for the liquid pipe adequate? • for the indoor side extension drain hose adequate?
☐	Does the drain flow out smoothly?
☐	Are the line voltages within tolerance?
☐	Is the earth wire earthed?
☐	Are the correct wires used?
☐	Are the air inlet and outlet of the indoor and outdoor unit not blocked?
☐	If installed as multi system indoor unit, check for each indoor unit if the piping and the wiring have the same code. (A/B/C/D/E)

SPECIAL FEATURES

Air suction direction (See figure 4)

This feature allows the user to choose the air suction direction. By switching the plate from bottom to rear, the air suction direction can be changed from the rear to the bottom side.

Drain pan outlet (See figure 5)

The customer has the possibility to select either right or left sided water drain outlet.

External off-on/off switch

This feature permits the user to switch off the unit remotely.

When the contact is open, the user has the opportunity to operate the remote controller. When the contact is closed, the unit is switched off.

(Remark: wiring length up to 100 m.)

Master-slave unit system (mode batting)

System operation mode cool or heat is determined by the mode the master unit is in. When the master unit is in cool mode, respectively heat mode, the system can only operate in cooling, respectively heating, regardless of the thermostat setting.

- When the master unit is OFF, the system mode is determined by the unit which is switched on first.
- For setting the master unit, contact your dealer.

NOTES

NOTES

