

**DAIKIN**



# INSTALLATION AND OPERATION MANUAL

***VRV* System air conditioners**

FXLQ20P7VEB  
FXLQ25P7VEB  
FXLQ32P7VEB  
FXLQ40P7VEB  
FXLQ50P7VEB  
FXLQ63P7VEB





**CONTENTS**

	Page
Before installation.....	1
Important information regarding the refrigerant used.....	2
Selecting installation site.....	2
Indoor unit installation.....	3
Refrigerant piping work.....	4
Drain piping work.....	5
Electric wiring work.....	5
How to install the remote controller and wiring inside the unit.....	6
Wiring examples.....	7
Field setting.....	8
Test operation.....	8
Maintenance.....	8
Disposal requirements.....	10
Wiring diagram.....	10



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 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.



Installation must be done by a licensed technician. The choice of materials and installation must comply with the applicable national and international regulations.

**BEFORE INSTALLATION**

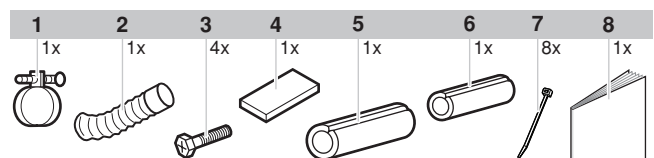
- Leave the unit inside its packaging until you reach the installation site. Where unpacking is unavoidable, use a sling of soft material or protective plates together with a rope when lifting, this to avoid damage or scratches to the unit.
- Refer to the installation manual of the outdoor unit for items not described in this manual.
- Caution concerning refrigerant series R410A:  
The connectable outdoor units must be designed exclusively for R410A.
- Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once in the unit, such animals can cause malfunctions, smoke or fire when making contact with electrical parts.
- When moving the unit while removing it from the carton box, be sure to lift it without exerting any pressure on other parts, especially the refrigerant piping, drain piping and other resin parts.

**Precautions**

- Do not install or operate the unit in rooms mentioned below.
  - Places with mineral oil, or filled with oil vapour or spray like in kitchens. (Plastic parts may deteriorate.)
  - Where corrosive gas like sulphurous gas exists. (Copper tubing and brazed spots may corrode.)
  - Where volatile flammable gas like thinner or gasoline is used.
  - Where machines generating electromagnetic waves exist. (Control system may malfunction.)
  - Where the air contains high levels of salt such as air near the ocean and where voltage fluctuates a lot (e.g. in factories). Also in vehicles or vessels.
  - Where there is no risk of flammable gas leaking.
  - The equipment is not intended for use in a potentially explosive atmosphere.
- Do not install accessories on the casing directly. Drilling holes in the casing may damage electrical wires and consequently cause fire.
- This appliance is not intended for use by persons, including children, with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

**Accessories**

Check if the following accessories are included with your unit.



- |   |                         |   |                                   |
|---|-------------------------|---|-----------------------------------|
| 1 | Metal clamp             | 6 | Insulation for liquid pipe        |
| 2 | Drain hose              | 7 | Clamp                             |
| 3 | Leveling screw          | 8 | Installation and operation manual |
| 4 | Sealing pad             |   |                                   |
| 5 | Insulation for gas pipe |   |                                   |

## Optional accessories

There are two types of remote controllers: wired and wireless.

- Select a remote controller according to customer request and install in an appropriate place.
- Refer to catalogues and technical literature for selecting a suitable remote controller.

**For the following items, take special care during construction and check after installation is finished**

Tick ✓ when checked	
<input type="checkbox"/>	Is the indoor unit fixed firmly? The unit may drop, vibrate or make noise.
<input type="checkbox"/>	Is the gas leak test finished? It may result in insufficient cooling or heating.
<input type="checkbox"/>	Is the unit fully insulated and checked for air leaks? Condensate water may drip.
<input type="checkbox"/>	Does drainage flow smoothly? Condensate water may drip.
<input type="checkbox"/>	Does the power supply voltage correspond to that shown on the name plate? The unit may malfunction or components may burn out.
<input type="checkbox"/>	Are wiring and piping correct? The unit may malfunction or components may burn out.
<input type="checkbox"/>	Is the unit safely grounded? Dangerous at electric leakage.
<input type="checkbox"/>	Is the wiring size according to specifications? The unit may malfunction or components may burn out.
<input type="checkbox"/>	Is nothing blocking the air outlet or inlet of either the indoor or outdoor units? It may result in insufficient cooling or heating.
<input type="checkbox"/>	Are refrigerant piping length and additional refrigerant charge noted down? The refrigerant charge in the system might not be clear.

## Notes to the installer

- Read this manual carefully to ensure correct installation. Be sure to instruct the customer how to properly operate the system and show him/her the enclosed operation manual.
- Explain to the customer what system is installed on the site. Be sure to fill out the appropriate installation specifications in the chapter "What to do before operation" of the outdoor unit operation manual.
- This unit can be installed on the floor or be mounted to a wall.

## IMPORTANT INFORMATION REGARDING THE REFRIGERANT USED

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Refrigerant type: R410A

GWP<sup>(1)</sup> value: 1975

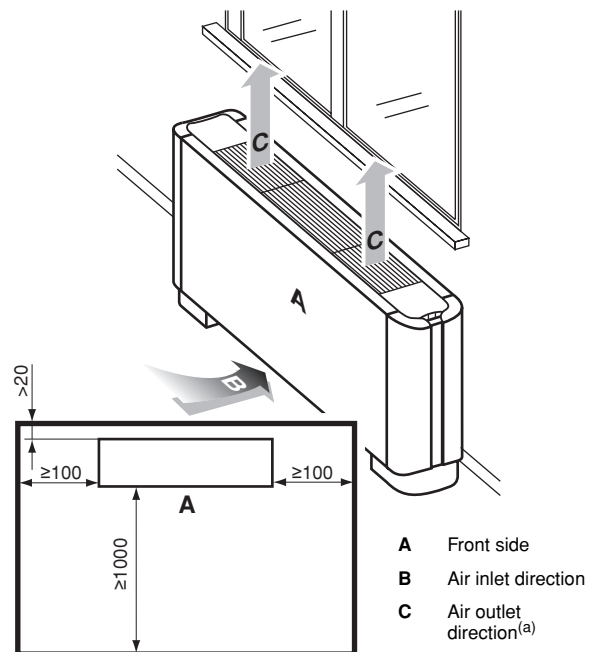
<sup>(1)</sup> GWP = global warming potential

Periodical inspections for refrigerant leaks may be required depending on European or local legislation. Please contact your local dealer for more information.

## SELECTING INSTALLATION SITE

- 1 Select an installation site where the following conditions are fulfilled and that meets your customer's approval.
  - Where optimum air distribution can be ensured.
  - Where nothing blocks air passage.
  - Where condensate water can be properly drained.
  - Where the floor or wall is strong enough to bear the indoor unit weight.
  - Where sufficient clearance for maintenance and service can be ensured.
  - Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual of the outdoor unit.)
  - This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
  - Keep indoor unit, outdoor unit, power supply wiring and transmission wiring at least 1 meter away from televisions and radios. This is to prevent image interference and noise in those electrical appliances. (Noise may be generated depending on the conditions under which the electric wave is generated, even if 1 meter is kept.)
  - When installing the wireless remote controller kit, the distance between wireless remote controller and indoor unit might be shorter if there are fluorescent lights who are electrically started in the room. The indoor unit must be installed as far as possible away from fluorescent lights.
  - Do not place objects that are susceptible to moisture directly beneath the indoor or outdoor units. Under certain conditions, condensation on the main unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, resulting in fouling or failure of the object concerned.

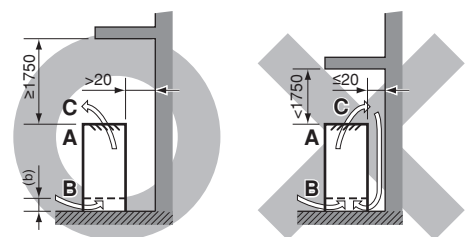
2



### NOTE



Make sure no short circuit of air is caused when placing the unit directly under a windowsill.



(a) The air outlet direction can be chosen by rotating the discharge grill.


(b)  $\geq 100$  mm in case of wall mounting

unit of measurement = mm

## INDOOR UNIT INSTALLATION

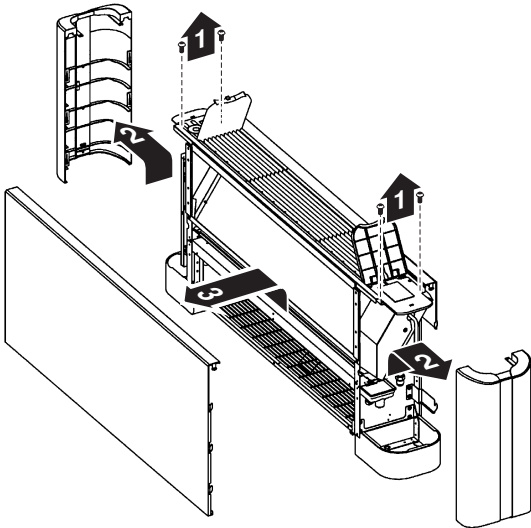
As for the parts to be used for installation work, be sure to use the provided accessories and specified parts designated by our company.

Make sure wiring, piping and drain piping meets your customer's requirements and must comply with local and national regulations.

-  Ensure the unit is level when installed so that drainage flows smoothly. If inclined, water can leak.


### How to open and close the front panel

To open the front panel, remove 4 screws from the corner pieces, unhook the corner pieces and remove the front panel as shown in the figure below.

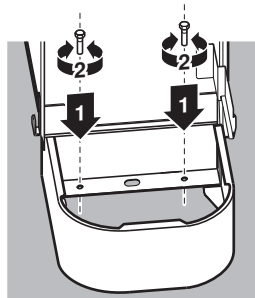


To close the front panel, use the opposite method.

### Floorstanding installation


-  Make sure that the floor is strong enough to bear the unit weight.

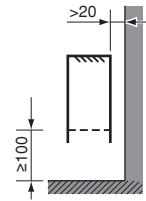
- 1 Level the indoor unit with the leveling screws (accessory part).  
If the floor is too uneven to level the unit, place the unit on a flat and level base.



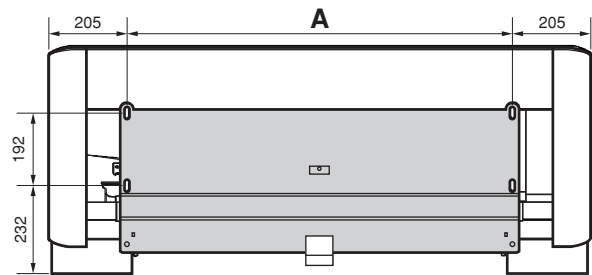
- 2 If the unit is in danger of falling over, either fasten to the wall using the holes provided, or fasten to the floor with a field supplied floor fastener.

## Wallmounted installation

-  Check whether the wall is strong enough to bear the weight of the unit. If there is a risk, reinforce the wall before installing the unit.
- Use the installation mount on the rear of the unit for installation.
- The unit requires minimum 100 mm clearance on the underside for air intake and minimum 20 mm clearance from the wall by using spacers (field supply).

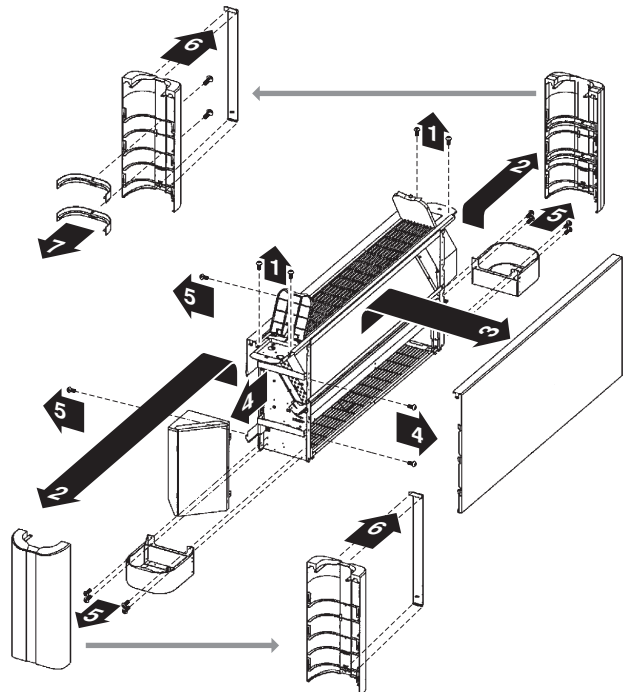


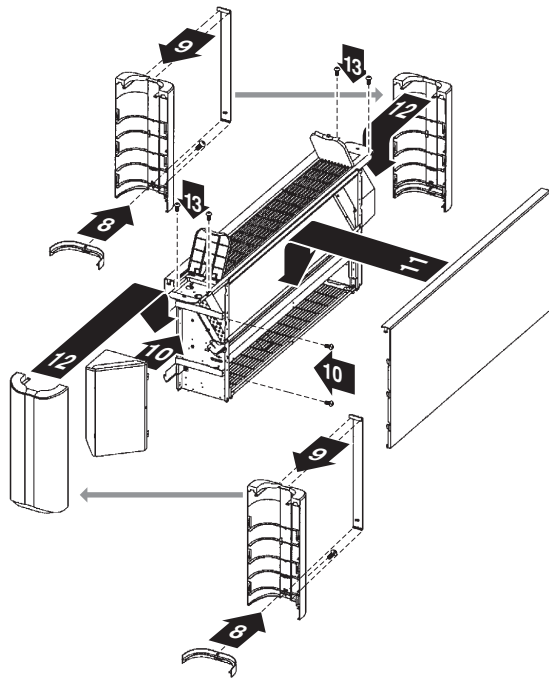
- 1 Positioning of holes for fastening to the wall.  
Unit of measurement = mm.



Model	A (mm)
FXLQ20 + FXLQ25	590
FXLQ32 + FXLQ40	730
FXLQ50 + FXLQ63	1010

- 2 The legs can be removed if the indoor unit is to be hung on a wall. To do so, remove the legs and mount the 2 decorationstrips to the corner pieces as shown in the figures below.





**NOTE** When mounting the unit to a wall, operating sound may become bigger.

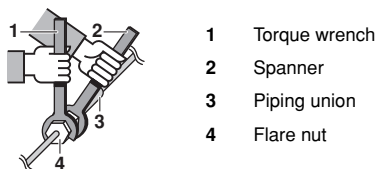
## REFRIGERANT PIPING WORK

For refrigerant piping of outdoor unit, refer to the installation manual supplied with the outdoor unit.

Before rigging tubes, check which type of refrigerant is used.

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

- Use a pipe cutter and flare suitable for the used refrigerant.
- To prevent dust, moisture or other foreign matter from infiltrating the tube, either pinch the end, or cover it with tape.
- Use copper alloy seamless pipes (ISO 1337).
- The outdoor unit is charged with refrigerant.
- To prevent water leakage, execute heat insulation work completely on both sides of the gas and liquid piping. When using a heat pump, the temperature of the gas piping can reach up to approximately 120°C. Use insulation which is sufficiently heat resistant.
- Be sure to use both a spanner and torque wrench together when connecting or disconnecting pipes to/from the unit.

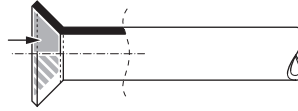


- Do not mix anything other than the specified refrigerant, such as air, etc..., inside the refrigerant circuit.
- Use annealed material only for flare connections.

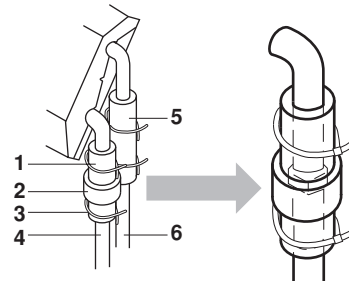
- Refer to the table below for the dimensions of flare nut spaces and the appropriate tightening torque. (Overtightening may damage the flare and cause leaks.)

Pipe gauge (mm)	Tightening torque (N·m)	Flare dimension A (mm)	Flare shape
Ø6.4	15~17	8.7~9.1	
Ø9.5	33~39	12.8~13.2	
Ø12.7	50~60	16.2~16.6	
Ø15.9	63~75	19.3~19.7	

- 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.



- Make sure there is no refrigerant gas leak. A toxic gas may be released by the refrigerant gas leaking indoor and being exposed to flames from an area heater, cooking stove, etc. If the refrigerant gas leaks during the work, ventilate the area.
- Finally, insulate as shown in the figure below.

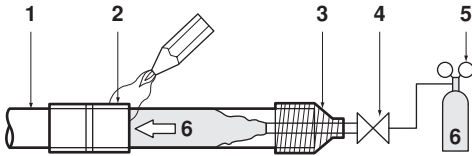


- 1 Insulation for gas pipe (accessory part)
- 2 Sealing pad (accessory part) (wrapped over union)
- 3 Clamp (4x accessory part)
- 4 Gas pipe
- 5 Insulation for liquid pipe (accessory part)
- 6 Liquid pipe

**!** Be sure to insulate local piping all the way into the pipe connections inside the unit.  
Exposed piping may cause condensation or may cause burns when touched.

## 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 oxidized film on the inside of the pipes, adversely affecting valves and compressors in the refrigerating system and preventing normal operation.
- 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).



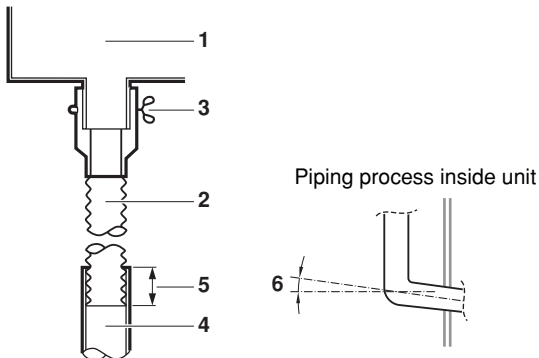
- Refrigerant piping
- Part to be brazed
- Taping
- Hand valve
- Pressure-reducing valve
- Nitrogen

## DRAIN PIPING WORK

Rig the drain pipe as shown below. Improperly rigged piping could lead to leaks and eventually wet furniture and belongings.

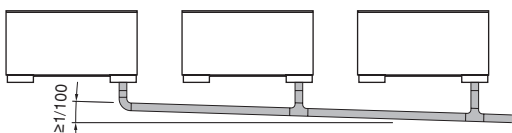
### 1 Carry out the drain piping

Connect the drain hose (accessory part) using the attached hose and parts, as shown in the figure below.



- Drip pan
- Drain hose (accessory part)
- Metal clamp (accessory part)
- 3/4" drain pipe
- Cut to a suitable length
- Slope

### 2 If converging multiple drain pipes, install according to the procedure shown below. Use a slope downwards at a gradient of at least 1/100.



Select converging drain pipes with a size that is suitable for the operating capacity of the unit.

- After piping work is finished, check if drainage flows smoothly. Pour approximately 1 liter of water slowly in the air outlet and check drainage flow.
- Be sure to insulate all indoor pipes.



### Drain piping connections

- Do not connect the drain piping directly to sewage pipes that smell of ammonia. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.
- Keep in mind that the drain pipe will become blocked if water remains in the drain pipe.

## ELECTRIC WIRING WORK

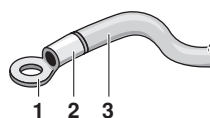
### General instructions

- All field supplied parts and materials and electric works must be conform to local and national regulations.
- All wiring must be performed by an authorized electrician.
- Use copper wire only.
- Follow the "Wiring diagram" attached to the unit to wire the outdoor unit, indoor units and the remote controller. For details on hooking up the remote controller, refer to the "Installation manual of the remote controller".
- Attach the earth leakage circuit breaker and fuse to the power supply line.
- 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. Note that the operation will restart automatically if the main power supply is turned off and then turned back on again.
- This system consists of multiple indoor units. Mark each indoor unit as unit A, unit B..., and be sure the terminal block wiring to the outdoor unit and BS unit are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.
- Be sure to ground the air conditioner.
- Do not connect the ground wire to:
  - gas pipes: might cause explosions or fire if gas leaks.
  - telephone ground wires or lightning rods: might cause abnormally high electric potential in the ground during lightning storms.
  - plumbing pipes: no grounding effect if hard vinyl piping is used.
- Make sure electrical wires are stripped equally.



### Precautions

- Observe the notes mentioned below when wiring to the power supply terminal board.
  - Use a round crimp-style terminal for insulation sleeve for connection to the terminal block for wiring the units. When none are available, follow the instructions below.



- Round crimp-style terminal
- Attach insulation sleeve
- Wiring

- 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 dimension, connect them according to the figure.



Use the specified electric wire. Connect the wire securely to the terminal. Lock the wire down without applying excessive force to the terminal. Use torques according to the table below.

Terminal	Size	Tightening torque (N·m)
Terminal block for remote controller	M3.5	0.79-0.97
Power supply terminal block	M4	1.18-1.44
Ground terminal	M4	1.44-1.94

- When attaching the control box lid, make sure not to pinch any wires.
  - After all wiring connections are done, fill in any gaps in the casing wiring holes with putty or insulation material (field supply) thus to prevent small animals or dirt from entering the unit from outside and causing short circuits in the control box.
- Keep total current of crossover wiring between indoor units less than 12 A. Branch the line outside the terminal board of the unit in accordance with electrical equipment standards, when using two power wiring greater than 2 mm<sup>2</sup> (Ø1.6).  
The branch must be sheathed in order to provide an equal or greater degree of insulation as power supply wiring itself.
  - Do not connect wires of different dimensions to the same grounding terminal. Looseness in the connection may deteriorate the protection.
  - Remote controller cords and wires connecting the units should be located at least 50 mm away from power supply wiring. Not following this guideline may result in malfunction due to electrical noise.
  - For the remote controller wiring, refer to the "Installation manual of the remote controller" supplied with the remote controller.
  - Use only specified wires and tightly connect wires to the terminals. Be careful that wires do not place external stress on the terminals. Keep wiring in neat order so that they do not obstruct other equipment such as popping open the control box cover. Make sure the cover closes tight. Incomplete connections could result in overheating, and in the worse case, electric shock or fire.
  - Fasten wiring with clamps (accessory part).

## Electrical characteristics

Model	Hz	Volts	Voltage range	Power supply		Fan motor	
				MCA	MFA	kW	FLA
20	50/60	220-240/220	±10%	0.3	15	0.015	0.2
25				0.3	15	0.015	0.2
32				0.6	15	0.025	0.5
40				0.6	15	0.025	0.5
50				0.6	15	0.035	0.5
63				0.6	15	0.035	0.5

MCA: Minimum Circuit Amps (A)

MFA: Maximum Fuse Amps (A)

FLA: Full Load Amps (A)

**NOTE** For details, refer to "Electrical data" in the technical data book.

## Specifications for field supplied fuses and wire

Power supply wiring			
Model	Field fuses	Wire	Size
20~63	16 A	H05VV-U3G	Local codes

Model	Wire	Size
20~63	Sheathed wire (2)	0.75-1.25 mm <sup>2</sup>

**NOTE** For details, refer to "Wiring examples" on page 7.



Allowable length of transmission wiring between indoor and outdoor units, and between the indoor unit and the remote controller is as follows:

- Outdoor unit - indoor unit: max. 1000 m (total wiring length: 2000 m)
- Indoor unit - remote controller: max 500 m

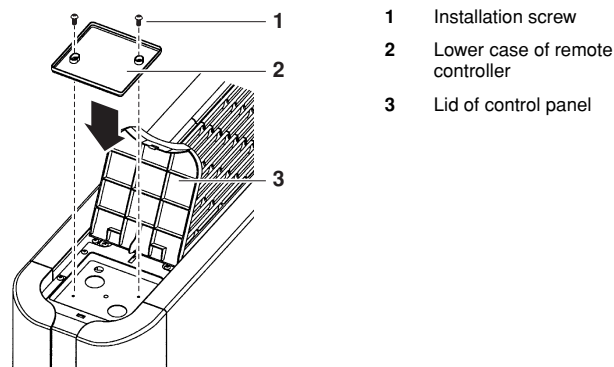
## HOW TO INSTALL THE REMOTE CONTROLLER AND WIRING INSIDE THE UNIT

### Remote controller installation

**NOTE** Refer to the installation manual of the remote controller for instructions on fastening and wiring work.



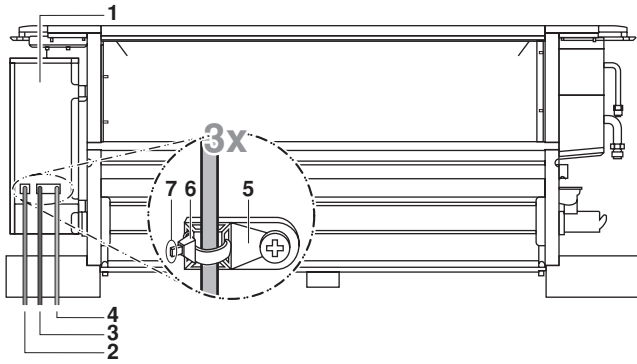
If mounting a remote controller on the unit, mount the remote controller (optional accessory) as shown in the figure.



Open the left side lid of the control panel and mount the lower case of the remote controller.

## Wiring installation

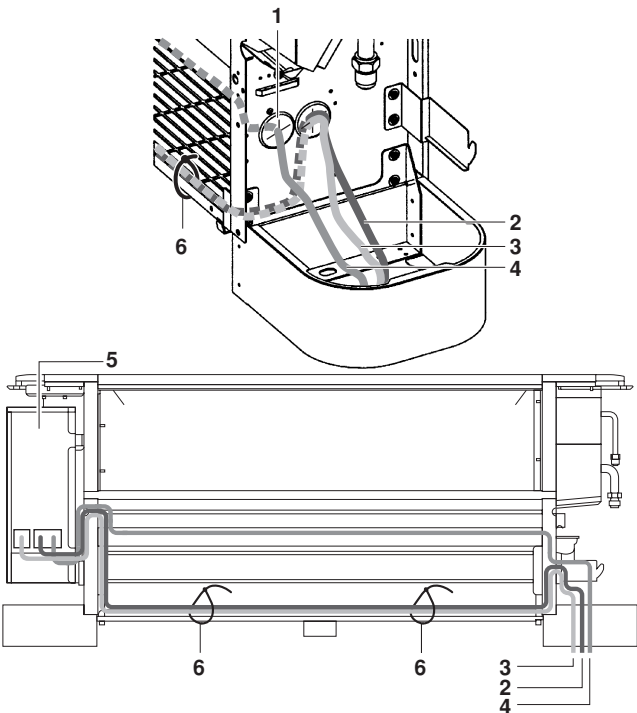
Remove the control box cover and connect the wiring.



- 1 Control box
- 2 Power supply wiring (field supply)
- 3 Remote controller wiring (field supply)
- 4 Transmission wiring (field supply)
- 5 Clamp fastener
- 6 Clamp (accessory part)
- 7 Cut off excess after fastening

**NOTE** For control box wiring, also refer to the "Electric Wiring Diagram" label on the control box cover.

If wiring from the piping side, wire as shown in the figure below.



- 1 Pass through hole of opposite frame panel in same manner
- 2 Remote controller wiring
- 3 Transmission wiring
- 4 Power supply wiring and ground wiring
- 5 Control box
- 6 Fasten with clamp (accessory part)

**!** Do not switch the remote controller wiring, transmission wiring and power supply wiring when connecting the wires to the terminal blocks.

## WIRING EXAMPLES

Fit the power supply wiring of each unit with a switch and fuse as shown in [figure 1](#).

- |   |                   |    |   |
|---|-------------------|----|---|
| 1 | Power supply      | 6  | BS unit (only for heat recovery system) |
| 2 | Main switch       | 7  | Power supply wiring                     |
| 3 | Outdoor unit      | 8  | Transmission wiring                     |
| 4 | Indoor unit       | 9  | Switch                                  |
| 5 | Remote controller | 10 | Fuse                                    |

### Complete system example (3 systems)

When using 1 remote controller for 1 indoor unit. (Normal operation) (See [figure 2](#))

For group control or use with 2 remote controllers (See [figure 4](#))

When including BS unit (See [figure 3](#))

- 1 Outdoor unit
- 2 Indoor unit
- 3 Remote controller (optional accessories)
- 4 Most downstream indoor unit
- 5 For use with 2 remote controllers
- 6 BS unit

### PRECAUTIONS

- A single switch can be used to supply power to units on the same system. However, branch switches and branch circuit breakers must be selected carefully.
- For a group control remote controller, choose the remote controller that suits the indoor unit which has the most functions.
- Do not ground the equipment on gas pipes, water pipes, lightning rods or crossground with telephones. Improper grounding could result in electric shock.

## FIELD SETTING

Field setting must be made on the remote controller in function of the installation condition.

- Setting can be made by changing the "Mode number", "First code No." and "Second code No.".
- For setting and operation, refer to the "Field settings" in the installation manual of the remote controller.

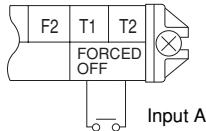
### Control by 2 Remote Controllers (Controlling 1 indoor unit by 2 remote controllers)

When using 2 remote controllers, one must be set to "MAIN" and the other to "SUB". Refer to the installation manual of the remote controller.

### Computerised control (forced off and on/off operation)

- 1 Wire specifications and how to perform wiring
  - Connect input from outside to terminals T1 and T2 of the terminal board (remote controller to transmission wiring).

Wire specification	Sheathed vinyl cord or cable (2 wire)
Gauge	0.75-1.25 mm <sup>2</sup>
Length	Max. 100 m
External terminal	Contact that can ensure the minimum applicable load of 15 V DC, 10 mA



- 2 Actuation
  - The following table explains "forced off" and "on/off operations" in response to input A.

Forced off	on/off operation
Input "on" stops operation	input off → on: turns on the unit (impossible by remote controllers)
Input "off" enables control	input on → off: turns off the unit by remote controller

- 3 How to select forced off and on/off operation
  - Turn the power on and then use the remote controller to select operation.
  - Set the remote controller to the field set mode. For details, refer to the chapter "How to set in the field", in the remote controller manual.
  - When in the field set mode, select mode No. 12, then set the first code No. to "1". Then set second code (position) No. to "01" for forced off and to "02" for on/off operation. (forced off at factory set.)

### Centralized control

For centralized control, it is necessary to designate the group No. For details, refer to the manual of each optional controller for centralized control.

## TEST OPERATION

Refer to the installation manual of the outdoor unit.

The operation lamp of the remote controller will flash when an error occurs. Check the error code on the liquid crystal display to identify the trouble.

Error code	Meaning
ⒶⒷ	Error in power supply to indoor unit
ⒸⒶ	Transmission error between fan driver PCB and controller PCB of the indoor unit
ⒸⒷ	Improper combination of fan driver PCB of the indoor unit or setting failure in control PCB type
ⒶⒷ	Test operation of the indoor unit has not been finished

If any of the items in following table are displayed on the remote controller, there may be a problem with the wiring or power, so check the wiring again.

Error code	Meaning
Ⓐ	There is a short circuit at the forced off terminals (T1, T2)
ⒶⒶ or ⒶⒶ	- The power on the outdoor unit is off - The outdoor unit has not been wired for power supply - Incorrect transmission of forced off wiring
no display	- The power on the indoor unit is off - The indoor unit has not been wired for power supply - Incorrect transmission wiring, forced off wiring or remote controller wiring


## MAINTENANCE



### Caution

- Only a qualified service person is allowed to perform maintenance.
- Before obtaining access to terminal devices, all power supply circuits must be interrupted.
- Do not use water or air of 50°C or higher for cleaning air filters and outside panels.
- Do not wash the air conditioner with water. Doing so may result in an electric shock.
- Do not operate for many hours with opened windows. This may cause condensation.
- Do not stand or place objects on the air conditioner. This could result in injury due falling or turning over.
- Do not place containers with water on the air conditioner. If the containers are turned over, the water could result in equipment failure or electric shock and fire.
- Do not operate the unit with the control panel lid open. If water gets inside the panel, it could result in equipment failure or electric shock.
- If the main power supply is turned off during operation, operation will restart automatically after the power turns back on again.

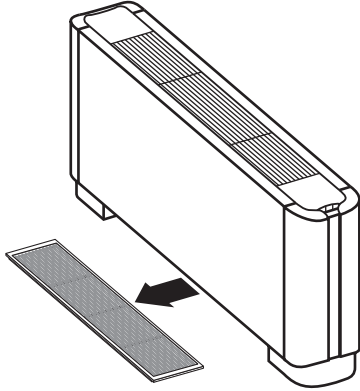
## How to clean the air filter

Clean the air filter when the display shows "  " (TIME TO CLEAN AIR FILTER).

Increase the frequency of cleaning if the unit is installed in a room where the air is extremely contaminated.

If the dirt becomes impossible to clean, change the air filter. (Air filter for exchange is optional.)

- 1 Remove the air filter.

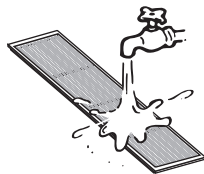
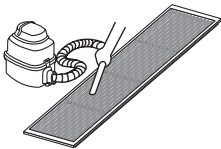


- 2 Clean the air filter.

Use vacuum cleaner (A) or wash the air filter with water (B).

(A) Using a vacuum cleaner

(B) Washing with water



When the air filter is very dirty, use soft brush and neutral detergent.

Remove water and dry in the shade.

- 3 Fix the air filter.

- 4 After turning on the power, press FILTER SIGN RESET button.

The "TIME TO CLEAN AIR FILTER" display is turned off.

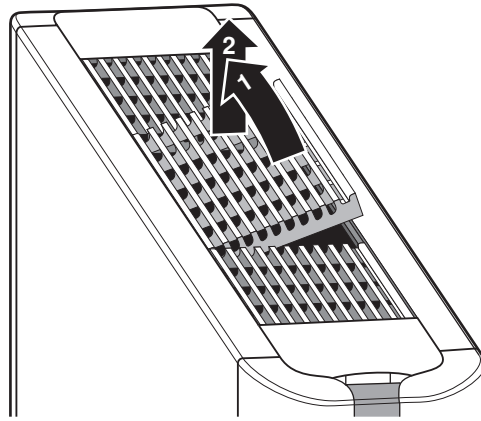
## How to clean air outlet and outside panels

- Clean with soft cloth.
- When it is difficult to remove stains, use water of neutral detergent.
- Clean the air inlet grille when it is shut.

**NOTE** Do not use gasoline, benzene, thinner, polishing powder, liquid insecticide. It may cause discolouring or warping.

Do not let the indoor unit get wet. It may cause an electric shock or a fire.

## Removal and installation of discharge grill



Lift the rear using the front as a leverage. To install use the opposite method.

**NOTE**

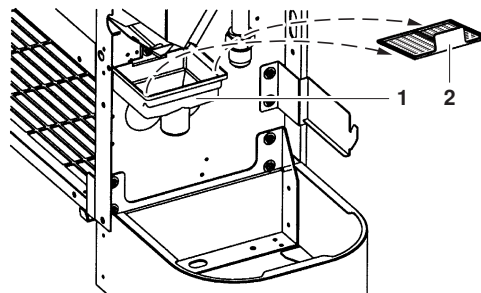


Be sure to install the discharge grill in the same way as before removal. Otherwise the air flow direction will be averse with a short circuit of air or a wrong spreading of air as possible result. Refer to the figures mentioned in the [note on page 2](#).

## How to clean the drain strainer

The drain strainer clears dirt out of the drain water and prevents the piping from clogging. However, if the strainer mesh gets clogged, water may overflow. Remove and wash the mesh with water before and after seasons when the unit is in use and once during those seasons.

- 1 Remove the drain strainer in the drip pan under the drain pan and wash off any dirt that may have accumulated.



- 1 Drip pan
- 2 Drain strainer (take out)

- 2 Return the drain strainer to its previous position so that the strainer does not leak.

**NOTE**



Because cleaning requires removing the front panel, contact your local dealer.

## Start up after a long stop

Confirm the following:

- Check that the air inlet and outlet are not blocked. Remove any obstacle.
- Check if the earth is connected.

Clean the air filter and outside panels.

- After cleaning the air filter, make sure to attach it.

Turn on the main power supply switch.

- The control panel display lights when the power is turned on.
- To protect the unit, turn on the main power switch at least 6 hours before operation.

## What to do when stopping the system for a long period

Turn on FAN OPERATION for half a day and dry the unit.

- Refer to the operation manual of the outdoor unit.





Cut off the power supply.

- When the main power switch is turned on, some wattage is being consumed even if the system is not operating.
- The remote controller display is turned off when the main power switch is turned off.

## 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

	: TERMINAL BLOCK
	: CONNECTOR
	: TERMINAL
	: FIELD WIRING
L	: LIVE
N	: NEUTRAL

BLK	: BLACK	PNK	: PINK
BLU	: BLUE	RED	: RED
BRN	: BROWN	WHT	: WHITE
ORG	: ORANGE	YLW	: YELLOW

A1P.....PRINTED CIRCUIT BOARD

C1.....CAPACITOR (M1F)

F1U.....FUUSE (B, 5 A, 250 V)

HAP.....LIGHT EMITTING DIODE  
(SERVICE MONITOR - GREEN)

K1R~K3R.....MAGNETIC RELAY (M1F)

M1F.....MOTOR (INDOOR FAN)

Q1M.....THERMO SWITCH (M1F EMBEDDED)

R1T.....THERMISTOR (AIR)

R2T,R3T.....THERMISTOR (COIL)

T1R.....TRANSFORMER (220-240 V/22 V)

X1M.....TERMINAL BLOCK (POWER SUPPLY)

X2M.....TERMINAL BLOCK (CONTROL)

Y1E.....ELECTRONIC EXPANSION VALVE

### CONNECTOR OPTIONAL ACCESSORY

X18A.....CONNECTOR (WIRING ADAPTOR FOR ELECTRICAL APPENDICES)

### WIRED REMOTE CONTROLLER

R1T.....THERMISTOR (AIR)

SS1.....SELECTOR SWITCH (MAIN/SUB)

WIRED REMOTE CONTROLLER	:
(OPTIONAL ACCESSORY)	:
CONTROL BOX (INDOOR)	:
TRANSMISSION WIRING	:
CENTRAL REMOTE CONTROLLER	:
INPUT FROM OUTSIDE	:
POWER SUPPLY	:

### NOTE



1. WHEN USING THE CENTRAL REMOTE CONTROLLER, SEE MANUAL FOR CONNECTION TO THE UNIT.
2. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED "OFF" OR "ON/OFF" CONTROL OPERATION CAN BE SELECTED BY THE REMOTE CONTROLLER. SEE INSTALLATION MANUAL FOR MORE DETAILS.
3. USE COPPER CONDUCTORS ONLY.



\*4PW53089-1 B 000000S\*

Copyright © Daikin

**DAIKIN EUROPE N.V.**

Zandvoordestraat 300, B-8400 Oostende, Belgium

4PW53089-1B