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DAIKIN

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Siesta®

DAIKIN ROOM AIR CONDITIONER

INSTALLATION MANUAL

THE KEY FOR SMART INFORMATION

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R32 SPLIT SERIES

MODELS

Installation Manual R32 Split Series — English

ATXC20CV1B	ARXC20CV1B
ATXC25CV1B	ARXC25CV1B
ATXC35CV1B	ARXC35CV1B
ATXC50CV1B	ARXC50CV1B
ATXC60CV1B	ARXC60CV1B
ATXC71CV1B	ARXC71CV1B

ENGLISH

INSTALLATION MANUAL

SAFETY PRECAUTIONS

Read the precautions in this manual carefully before operating the unit.

This appliance is filled with R32.

- The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.
- Meaning of WARNING and CAUTION notices.

⚠ WARNING	Failure to follow these instructions properly may result in personal injury or loss of life.
⚠ CAUTION	Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

- The safety marks shown in this manual have the following meanings:

❗ Be sure to follow the instructions. | ⏚ Be sure to establish a ground connection. | ⃠ Never attempt.

- After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the air conditioner and take care of it with the aid of operation manual.

⚠ WARNING

- Ask your dealer or qualified person to carry out installation work.
  Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or 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.
- Install the air conditioner according to the instructions given in this manual.
  Incomplete installation may cause water leakage, electrical shock, or fire.
- Be sure to use only the specified accessories and parts for installation work.
  Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.
- Install the air conditioner on a foundation strong enough to withstand the weight of the unit.
  A foundation of insufficient strength may result in the equipment falling and causing injury.
- Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual.
  Be sure to use a dedicated power supply circuit only. Insufficiency of power circuit capacity and improper workmanship may result in electric shocks or fire.
- Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance.
- Use a cable of suitable length.
  Do not use tapped wires or an extension lead, as this may cause overheating, electric shocks or fire.
- Make sure that all wiring is secured, the specified wires are used, and that there is no strain on the terminal connections or wires.
  Improper connections or securing of wires may result in abnormal heat build-up or fire.
- When wiring the power supply and connecting the wiring between the indoor and outdoor units, position the wires so that the control box lid can be securely fastened.
  Improper positioning of the control box lid may result in electric shocks, fire or overheating terminals.
- After connecting interconnecting and supply wiring, be sure to shape the cables so that they do not put undue force on the electrical covers or panels. Install covers over the wires.
  Incomplete cover installation may cause terminal overheating, electrical shocks, or fire.
- When installing or relocating the air conditioner, be sure to bleed the refrigerant circuit to ensure it is free of air, and use only the specified refrigerant (R32).
  The presence of air or other foreign matter in the refrigerant circuit cause abnormal pressure rise, which may result equipment damage and even injury.
- The installation height from the floor must be over 2.3m.
- If refrigerant gas leaks during installation, ventilate the area immediately. ❗
  Toxic gas may be produced if the refrigerant comes into contact with fire.
- After completing installation, check for refrigerant gas leakage. ❗
  Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.
- During pump-down, stop the compressor before removing the refrigerant piping.
  If the compressor is still running and the stop valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in refrigeration cycle, which may result equipment damage and even injury.
- During installation, attach the refrigerant piping securely before running the compressor.
  If the refrigerant pipes are not attached and the stop valve is open when the compressor is run, air will be sucked in, causing abnormal pressure in the refrigeration cycle, which may result equipment damage and even injury.
- Be sure to earth the air conditioner. ⏚
  Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.
- Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electrical shocks, or fire.

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⚠ WARNING

- All electrical wiring must not touch the water piping or any moving parts of the fan motors.
- Confirm that the unit has been switched OFF before installing or servicing the unit.
- Disconnect from the main power supply before servicing the air conditioner unit.
- DO NOT pull out the power cord when the power is ON.
  This may cause several electrical shocks which may result in the fusing.
- Keep the indoor and outdoor units, power cable and transmission wiring, at least 1m from TVs and radios, to prevent distorted pictures and static.
  Depending on the type and source of the electrical waves, static may be heard even when more than 1m away.
- Do not use means to accelerate the defrosting process (if applicable) or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.
- The appliance must be installed, operated and stored in a room with a floor area larger than Xm^2 (refer to Section "Special Precautions When Dealing With R32 Unit").
  In case it does not satisfy minimum floor area, it requires to install a good ventilation room.
- NOTE: The manufacturer may provide other suitable examples or may provide additional information about the refrigerant odour.

⚠ CAUTION

- Do not install the air conditioner at any place where there is danger of flammable gas leakage.
  In the event of a gas leakage, build-up of gas near the air conditioner may cause a fire to break out.
- While following the instructions in this installation manual, install drain piping to ensure proper drainage and insulate piping to prevent condensation. ⃠
  Improper drain piping may result in indoor water leakage and property damage.
- Tighten the flare nut according to specified method such as with a torque wrench. ❗
  If the flare nut is too tight, it may crack after prolonged use, causing refrigerant leakage.
- Do not overcharge the unit.
  The unit is factory pre-charged. Overcharge will cause over-current or damage to the compressor.
- Install the refrigerant circuit will be high, please keep the inter-unit wiring away from copper pipes that are not thermally insulated.
- Only qualified personnel can handle, fill, purge and dispose of the refrigerant.

NOTICE

Disposal requirement

Your air conditioning product is marked with this symbol. This means that electrical and electronic products shall not be mixed with unsorted household waste.
Do not try to dismantle the system yourself: the dismantling of the air conditioning system, treatment of the refrigerant, of oil and of other parts must be done by a qualified installer in accordance with relevant local and national legislation. Air conditioners must be treated at a specialized treatment facility for re-use, recycling and recovery.
By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. Please contact the installer or local authority for more information. Batteries must be removed from the remote controller and disposed of separately in accordance with relevant local and national legislation.

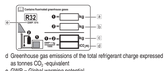
IMPORTANT

Important information regarding the refrigerant used

This product contains fluorinated greenhouse gases.
Do not vent gases into the atmosphere.
Refrigerant type: R32
GWP [1] value: 675
[1] GWP = Global Warming Potential

1 Please fill in with indelible ink.
■ ① the factory refrigerant charge of the product,
■ ② the additional refrigerant amount charged in the field and
■ ③ = ① + ② the total refrigerant charge
on the refrigerant charge label supplied with the product.
The filled out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the service cover).

a Factory refrigerant charge: see unit name plate
b Additional refrigerant amount charged
c Total refrigerant charge



d Greenhouse gas emissions of the total refrigerant charge expressed as tonnes CO_2 -equivalent
e GWP = Global warming potential

NOTICE

In Europe, the **greenhouse gas emissions** of the total refrigerant charge in the system (expressed as tonnes CO_2 -equivalent) is used to determine the maintenance intervals.
Follow the applicable legislation.

Formula to calculate the greenhouse gas emissions:
GWP value of the refrigerant × Total refrigerant charge [in kg] / 1000

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

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ACCESSORIES

Ⓐ Mounting plate	1	Ⓑ Remote controller holder	1	Ⓒ AAA dry-cell batteries	2
Ⓓ Wireless remote controller	1	Ⓔ Fixing screws for remote controller holder M3 × 16L	2	Ⓕ Titanium apatite deodorizing filter	2
Ⓖ Drain socket	1	Ⓗ Drain plug * Only for heat pump models.	1	① Installation manual	1
				② Operation manual	1

CHOOSING AN INSTALLATION SITE

- Before choosing the installation site, obtain user approval.

Indoor Unit

The indoor unit should be sited in a place where:
- The restrictions on installation specified in the indoor unit installation drawing are met.
- Both air intake and exhaust have clear paths met.
- The unit is not in the path of direct sunlight.
- The unit is away from the sources of heat or steam.
- There is no source of machine oil vapour (this may shorten indoor unit life).
- Cool air is circulated throughout the room.
- The unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type). As these may shorten the remote controller range.
- The unit is at least 1 metre away from any television or radio set (unit may cause interference with the picture or sound).
- Install at the recommended height (more than 2.3m).
- Do not install the units at or near doorway.
- Do not operate any heating apparatus too close to the air conditioner unit or use in room where mineral oil, oil vapour or oil steam exist, this may cause plastic part to melt or deform as a result of excessive heat or chemical reaction.
- When the unit is used in kitchen, keep flour away from going into suction of the unit.
- This unit is not suitable for factory used where cutting oil, mist or iron powder exist or voltage fluctuates greatly.
- Do not install the units at area like hot spring or oil refinery plant where sulphide gas exists.
- Ensure the color of wires of the outdoor unit and the terminal markings are same to the indoors respectively.
- IMPORTANT : DO NOT INSTALL OR USE THE AIR CONDITIONER UNIT IN A LAUNDRY ROOM.
  Do not use joined and twisted wires for incoming power supply. The equipment is not intended for use in a potentially explosive atmosphere

Wireless Remote Controller

- Do not expose the remote controller to direct sunlight (this will hinder receiving signals from the indoor unit).
- Turn on all the fluorescent lamps in the room, if any, and find the site where remote controller signals are properly received by the indoor unit (within 7 metres).

Outdoor Unit

The outdoor unit should be sited in a place where:
- The restrictions on installation specified in the outdoor unit installation drawing are met.
- Drain water causes no trouble or problem in particular.
- Both air intake and exhaust have clear paths of air.
- The unit is in a clear path of air but not directly exposed to rain, strong winds, or direct sunlight.
- There is no fear of inflammable gas leakage.
- The unit is no directly exposed to salt, sulfidized gases, or machine oil vapour (they may shorten outdoor unit life).
- Operation noise or hot (cold) air flow does not cause trouble to neighbours.
- The unit is at least 3 metres away from any television or radio antenna.
- Condensation dripping from the stop valve cannot damage anything during operation.

⚠ CAUTION

When operating the air conditioner in a 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 snow areas, select an installation site where the snow will not affect the unit.
- If there is a likelihood of snow accumulating on the outdoor unit, attach a snow protection hood.
- In high humidity areas or heavy snow areas, it is recommended to attach a drain pan heater to prevent ice build-up from the bottom frame.

⚠ CAUTION

Do not install the unit at altitude over 2000m for both indoor and outdoor.

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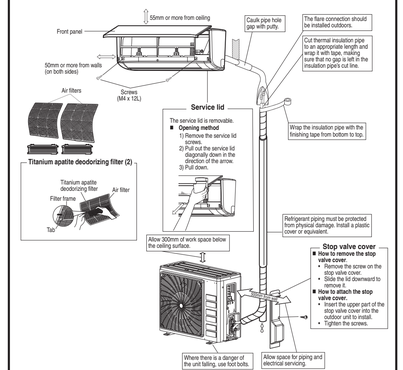
INDOOR/OUTDOOR UNIT INSTALLATION DRAWINGS



	ARXC20/25/35	ARXC50/60/71
Max. allowable piping length	20m	30m
Min. allowable piping length*	3m	
Max. allowable piping height	15m	20m
Additional refrigerant required for refrigerant piping exceeding 7.5m in length*	17g/m	
Gas pipe	3/8 inch (9.5mm)	1/2 inch (12.7mm)
Liquid pipe	1/4 inch (6.4mm)	

* Be sure to add the proper amount of additional refrigerant.
Failure to do so may result in reduced performance.
** The suggested shortest pipe length is 10ft (3m), in order to avoid noise from the outdoor unit and vibration.
(Mechanical noise and vibration may occur depending on how the unit is installed and the environment in which it is used.)

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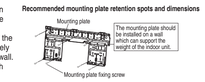
INDOOR INSTALLATION GUIDELINE

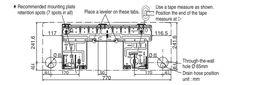
INSTALLING THE MOUNTING PLATE

- The mounting plate should be installed on a wall which can support the weight of the indoor unit.
1) Temporarily secure the mounting plate to the wall, make sure that the panel is completely level, and mark the drilling points on the wall.
2) Secure the mounting plate to the wall with screws.

Recommended mounting plate retention spots and dimensions



INDOOR UNIT ATXC20/25/35/50


Recommended mounting plate retention spots (7 spots in all)
Place a leveler on these tabs.
Use a tape measure as shown. Position the end of the tape measure at ☆1
117
116.5
261.6
246
246
246