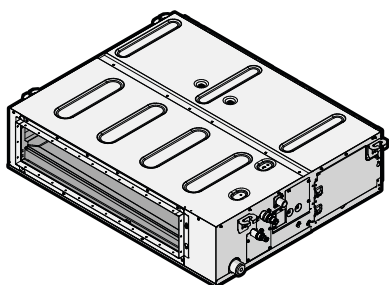




# Operation manual



## Split system air conditioners



ADEA35A2VEB  
ADEA50A2VEB  
ADEA60A2VEB  
ADEA71A2VEB  
ADEA100A2VEB  
ADEA125A2VEB

Operation manual  
Split system air conditioners

English

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## 1 About this document

Thank you for purchasing this product. Please:

- Read the documentation carefully before operating the user interface to ensure the best possible performance.
- Keep the documentation for future reference.

### Target audience

End users



### INFORMATION

This appliance is intended to be used by expert or trained users in shops, in light industry, and on farms, or for commercial and household use by lay persons.

### Documentation set

This document is part of a documentation set. The complete set consists of:

- **General safety precautions:**
  - Safety instructions that you must read before operating your system
  - Format: Paper (in the box of the indoor unit)
- **Operation manual:**
  - Quick guide for basic usage
  - Format: Paper (in the box of the indoor unit)
- **User reference guide:**
  - Detailed step-by-step instructions and background information for basic and advanced usage
  - Format: Digital files on <https://www.daikin.eu>. Use the search function 🔍 to find your model.

Latest revisions of the supplied documentation may be available on the regional Daikin website or via your installer.

The original instructions are written in English. All other languages are translations of the original instructions.

## 2 User safety instructions

Always observe the following safety instructions and regulations.

### 2.1 Instructions for safe operation



#### WARNING: FLAMMABLE MATERIAL

The R32 refrigerant (if applicable) in this unit is mildly flammable. Refer to the outdoor unit specifications for the type of refrigerant to be used.



#### WARNING

- Do NOT modify, disassemble, remove, reinstall or repair the unit yourself as incorrect dismantling or installation may cause an electrical shock or fire. Contact your dealer.
- In case of accidental refrigerant leaks, make sure there are no naked flames. The refrigerant itself is entirely safe and non-toxic. R410A is a non-combustible refrigerant, and R32 is a mildly flammable refrigerant, but they will generate a toxic gas when they accidentally leak into a room where combustible air from fan heaters, gas cookers, etc. is present. Always have qualified service personnel confirm that the point of leakage has been repaired or corrected before resuming operation.



#### CAUTION

Do NOT insert fingers, rods or other objects into the air inlet or outlet. Do NOT remove the fan guard. When the fan is rotating at high speed, it will cause injury.



#### CAUTION

- NEVER touch the internal parts of the controller.
- Do NOT remove the front panel. Some parts inside are dangerous to touch and appliance problems may happen. For checking and adjusting the internal parts, contact your dealer.

### Energy saving and optimum operation



#### CAUTION

NEVER expose little children, plants or animals directly to the airflow.



#### WARNING

Do NOT place a flammable spray bottle near the air conditioner and do NOT use sprays near the unit. Doing so may result in a fire.



#### WARNING

For units using the R32 refrigerant it is necessary to keep any required ventilation openings clear of obstructions.



#### CAUTION

Do NOT operate the system when using a room fumigation-type insecticide. Chemicals could collect in the unit, and endanger the health of people who are hypersensitive to chemicals.

### Maintenance and service (see "5 Maintenance and service" [p. 5])



#### CAUTION

Before accessing terminal devices, make sure to interrupt all power supply.



#### DANGER: RISK OF ELECTROCUTION

To clean the air conditioner or air filter, be sure to stop operation and turn all power supplies OFF. Otherwise, an electrical shock and injury may result.



#### CAUTION

After a long use, check the unit stand and fitting for damage. If damaged, the unit may fall and result in injury.



#### WARNING

Be careful with ladders when working in high places.



#### DANGER: RISK OF ELECTROCUTION

Disconnect the power supply for more than 10 minutes, and measure the voltage at the terminals of main circuit capacitors or electrical components before servicing. The voltage MUST be

less than 50 V DC before you can touch electrical components. For the location of the terminals, see the warning label for persons performing service and maintenance.



#### CAUTION

Turn off the unit before cleaning the unit exterior, air filter and suction grille.



#### WARNING

Do NOT let the indoor unit get wet.  
**Possible consequence:** Electrical shock or fire.

About the refrigerant (see "5.2 About the refrigerant" [p. 5])



#### WARNING: MILDLY FLAMMABLE MATERIAL

The R32 refrigerant (if applicable) in this unit is mildly flammable. Refer to the outdoor unit specifications for the type of refrigerant to be used.



#### WARNING

The appliance using R32 refrigerant shall be stored so as to prevent mechanical damage and in a well-ventilated room without continuously operating ignition sources (e.g. open flames, an operating gas appliance, or an operating electric heater). The room size shall be as specified in the General safety precaution.



#### WARNING

- Do NOT pierce or burn refrigerant cycle parts.
- Do NOT use cleaning materials or means to accelerate the defrosting process other than those recommended by the manufacturer.
- Be aware that the refrigerant inside the system is odourless.

## 3 About the system

### WARNING

- R410A is a non-combustible refrigerant, and R32 is a mildly flammable refrigerant; they normally do NOT leak. If the refrigerant leaks in the room and comes into contact with fire from a burner, a heater, or a cooker, this may result in a fire (in case of R32), or the formation of a harmful gas.
- Turn OFF any combustible heating devices, ventilate the room, and contact the dealer from where you purchased the unit.
- Do NOT use the unit until a service person confirms that the part from which the refrigerant leaked has been repaired.

Troubleshooting (see ["6 Troubleshooting"](#) [p 7])

### WARNING

**Stop operation and shut OFF the power if anything unusual occurs (burning smells etc.).**

Leaving the unit running under such circumstances may cause breakage, electrical shock or fire. Contact your dealer.

## 3 About the system

### INFORMATION

The sound pressure level is less than 70 dBA.

### WARNING: FLAMMABLE MATERIAL

The R32 refrigerant (if applicable) in this unit is mildly flammable. Refer to the outdoor unit specifications for the type of refrigerant to be used.

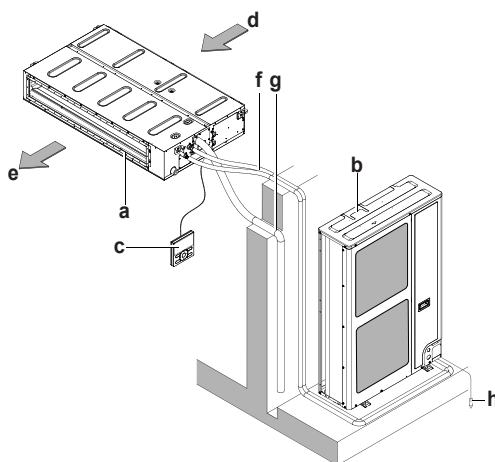
### WARNING

- Do NOT modify, disassemble, remove, reinstall or repair the unit yourself as incorrect dismantling or installation may cause an electrical shock or fire. Contact your dealer.
- In case of accidental refrigerant leaks, make sure there are no naked flames. The refrigerant itself is entirely safe and non-toxic. R410A is a non-combustible refrigerant, and R32 is a mildly flammable refrigerant, but they will generate a toxic gas when they accidentally leak into a room where combustible air from fan heaters, gas cookers, etc. is present. Always have qualified service personnel confirm that the point of leakage has been repaired or corrected before resuming operation.

## 3.1 Components

### INFORMATION

The following figure is an example and may NOT completely match your system layout.



- a Indoor unit
- b Outdoor unit
- c User interface
- d Air inlet
- e Air outlet
- f Refrigerant piping and electric wiring
- g Drain pipe
- h Earth wire to ground outdoor unit to prevent electric shocks.

### CAUTION

Do NOT insert fingers, rods or other objects into the air inlet or outlet. Do NOT remove the fan guard. When the fan is rotating at high speed, it will cause injury.

### CAUTION

- NEVER touch the internal parts of the controller.
- Do NOT remove the front panel. Some parts inside are dangerous to touch and appliance problems may happen. For checking and adjusting the internal parts, contact your dealer.

### NOTICE

Do NOT wipe the controller operation panel with benzine, thinner, chemical dust cloth, etc. The panel may get discoloured or the coating peeled off. If it is heavily dirty, soak a cloth in water-diluted neutral detergent, squeeze it well and wipe the panel clean. Wipe it with another dry cloth.

### NOTICE

NEVER press the button of the user interface with a hard, pointed object. The user interface may be damaged.

### NOTICE

NEVER pull or twist the electric wire of the user interface. It may cause the unit to malfunction.

## 4 Operation

### 4.1 Operation range

Use the system in the following temperature and humidity ranges for safe and effective operation.

For combination with **R410A outdoor unit**, refer to the following table:

ARXS35~71	Cooling	Heating
Outdoor temperature	10~46°C DB	-15~-18°C WB
Indoor temperature	14~28°C WB	10~30°C DB
Indoor humidity	≤80% <sup>(a)</sup>	—

<sup>(a)</sup> To avoid condensation and water dripping out of the unit. If the temperature or the humidity is beyond these conditions, safety devices may be put in action and the air conditioner may not operate.

AZQS71~125	Cooling	Heating
Outdoor temperature	-5~46°C DB	-15~15.5°C WB
Indoor temperature	14~28°C WB	10~27°C DB
Indoor humidity	≤80% <sup>(a)</sup>	—

<sup>(a)</sup> To avoid condensation and water dripping out of the unit. If the temperature or the humidity is beyond these conditions, safety devices may be put in action and the air conditioner may not operate.

For combination with **R32 outdoor unit**, refer to the following table:

ARXM35~71	Cooling	Heating
Outdoor temperature	-10~46°C DB	-15~24°C DB -16~18°C WB
Indoor temperature	21~37°C DB 14~28°C WB	10~30°C DB
Indoor humidity	≤80% <sup>(a)</sup>	—

<sup>(a)</sup> To avoid condensation and water dripping out of the unit. If the temperature or the humidity is beyond these conditions, safety devices may be put in action and the air conditioner may not operate.

AZAS71~125	Cooling	Heating
Outdoor temperature	-5~46°C DB	-15~21°C DB -15~15.5°C WB
Indoor temperature	20~38°C DB 14~28°C WB	10~27°C DB
Indoor humidity	≤80% <sup>(a)</sup>	—

<sup>(a)</sup> To avoid condensation and water dripping out of the unit. If the temperature or the humidity is beyond these conditions, safety devices may be put in action and the air conditioner may not operate.

Setting temperature range of the user interface:

Cooling	Heating
17~32°C	16~31°C

## 4.2 Operation procedure

- Turn on the power at least 6 hours before operating the unit in order to ensure smoother operation. As soon as the power is turned on, the user interface display appears.
- If there was a power failure during operation, the system automatically restarts immediately after the power supply is recovered.
- The setting temperature range of the user interface is described in chapter "Operation range".
- If you select a function which is not available, the message **NOT AVAILABLE** appears on the user interface.
- The operation procedure depends on the model (heat pump or cooling only). Contact your dealer to confirm which model you are using.

- Read the documentation carefully before operating the user interface to ensure the best possible performance.

## 5 Maintenance and service

### 5.1 Precautions for maintenance and service



#### CAUTION

See "2 User safety instructions" [▶ 2] to acknowledge all related safety instructions.



#### NOTICE

Maintenance **MUST** be done by an authorised installer or service agent.

We recommend performing maintenance at least once a year. However, applicable legislation might require shorter maintenance intervals.



#### NOTICE

When cleaning the heat exchanger, make sure to remove the switch box and fan motor. Water or detergent might deteriorate the insulation of electronic components and result in burnout of these components.

### 5.2 About the refrigerant

This product contains fluorinated greenhouse gases. Do NOT vent gases into the atmosphere.

Refrigerant type: R32

Global warming potential (GWP) value: 675

Refrigerant type: R410A

Global warming potential (GWP) value: 2087.5



#### NOTICE

Applicable legislation on **fluorinated greenhouse gases** requires that the refrigerant charge of the unit is indicated both in weight and CO<sub>2</sub> equivalent.

**Formula to calculate the quantity in CO<sub>2</sub> equivalent tonnes:** GWP value of the refrigerant × total refrigerant charge [in kg]/1000

Contact your installer for more information.



#### WARNING: FLAMMABLE MATERIAL

The R32 refrigerant (if applicable) in this unit is mildly flammable. Refer to the outdoor unit specifications for the type of refrigerant to be used.



#### WARNING

- Do NOT pierce or burn refrigerant cycle parts.
- Do NOT use cleaning materials or means to accelerate the defrosting process other than those recommended by the manufacturer.
- Be aware that the refrigerant inside the system is odourless.

## 5 Maintenance and service



### WARNING

- R410A is a non-combustible refrigerant, and R32 is a mildly flammable refrigerant; they normally do NOT leak. If the refrigerant leaks in the room and comes into contact with fire from a burner, a heater, or a cooker, this may result in a fire (in case of R32), or the formation of a harmful gas.
- Turn OFF any combustible heating devices, ventilate the room, and contact the dealer from where you purchased the unit.
- Do NOT use the unit until a service person confirms that the part from which the refrigerant leaked has been repaired.

### 5.3 To clean the drain pan

- 1 Clean the drain pan so that it does NOT become clogged and dusty.

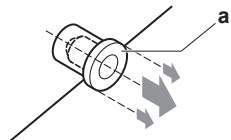
### 5.4 To handle the drain pipe plug



### NOTICE

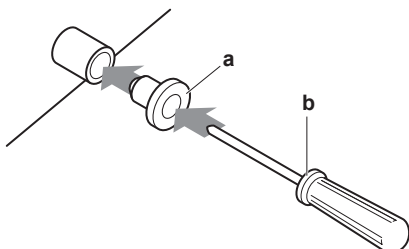
- Do NOT remove the drain pipe plug. Water might leak out.
- Use the drain outlet only to discharge the water if the drain pump is not used or before maintenance.
- Insert and remove the drain plug gently. Excessive force may deform the drain socket of the drain pan.

- 1 **Pull out the plug:** Do NOT wiggle the plug up and down.



a Drain plug

- 2 **Push in the plug:** Set the plug and push it in using a Phillips screwdriver.



a Drain plug  
b Phillips screwdriver

### 5.5 Cleaning the air filter, suction grille, air outlet and outside panels

#### 5.5.1 To clean the air outlet and outside panels



### WARNING

Do NOT let the indoor unit get wet. **Possible consequence:** Electrical shock or fire.



### NOTICE

- Do NOT use gasoline, benzene, thinner polishing powder or liquid insecticide. **Possible consequence:** Discoloration and deformation.
- Do NOT use water or air of 50°C or higher. **Possible consequence:** Discoloration and deformation.
- Do NOT scrub firmly when washing the blade with water. **Possible consequence:** The surface sealing peels off.

Clean with a soft cloth. If it is difficult to remove stains, use water or neutral detergent.

#### 5.5.2 To clean the air filter

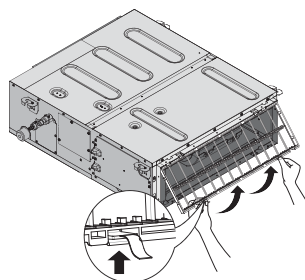
##### When to clean the air filter:

- Rule of thumb: Clean every 6 months. If the air in the room is extremely contaminated, increase the cleaning frequency.
- Depending on the settings, the user interface can display the **TIME TO CLEAN AIR FILTER** notification. Clean the air filter when the notification is displayed.
- If the dirt becomes impossible to clean, change the air filter (= optional equipment).

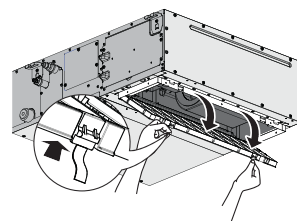
##### How to clean the air filter:

- 1 Remove the air filters by pulling their cloth upward (in case of rear suction) or backward (in case of bottom suction).

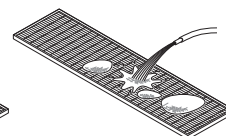
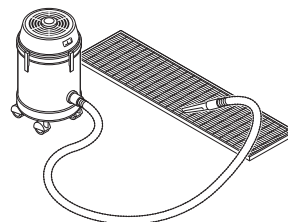
rear suction



bottom suction

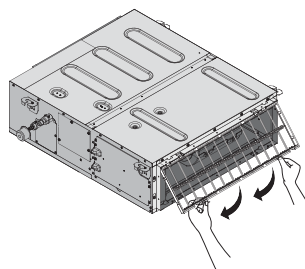


- 2 Clean the air filter. Use a vacuum cleaner or wash with water. If the air filter is very dirty, use a soft brush and neutral detergent.

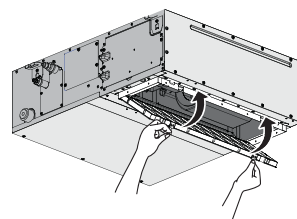


- 3 Dry the air filter in the shadow.
- 4 Reattach the air filter. Align the 2 hanger brackets and push the 2 clips in their place and pull the cloth if necessary.

rear suction



bottom suction



- 5 Confirm that 4 hangers are fixed.
- 6 In case of bottom suction, close the air inlet grille.



7 Turn ON the power.

8 Press the **FILTER SIGN RESET** button.

**Result:** The **TIME TO CLEAN AIR FILTER** notification disappears from the user interface.

## 5.6 Maintenance before a long stop period

- Let the indoor units run in fan only operation for about half a day in order to dry the interior of the units.
- Turn off the power. The user interface display disappears. When the main power is turned on, the air conditioner will use some power, even if it is not operating.
- Clean air filters and casings of indoor units. Contact your installer or maintenance person to clean air filters and casings of the indoor unit. Maintenance tips and procedures for cleaning are provided in the installation/operation manuals of dedicated indoor units. Make sure to install cleaned air filters back in the same position.

## 5.7 Maintenance after a long stop period

- Check and remove everything that might be blocking inlet and outlet vents of indoor units and outdoor units.
- Check if the earth is connected properly.
- Check if there is somewhere a broken wire. Contact your dealer in case of problems.
- Clean air filters and casings of indoor units. Contact your installer or maintenance person to clean air filters and casings of the indoor unit. Maintenance tips and procedures for cleaning are provided in the installation/operation manuals of dedicated indoor units. Make sure to install cleaned air filters back in the same position.
- Turn on the power at least 6 hours before operating the system in order to ensure smoother operation. As soon as the power is turned on, the user interface display appears.

# 6 Troubleshooting

If one of the following malfunctions occurs, take the measures shown below and contact your dealer.



### WARNING

**Stop operation and shut OFF the power if anything unusual occurs (burning smells etc.).**


Leaving the unit running under such circumstances may cause breakage, electrical shock or fire. Contact your dealer.

The system **MUST** be repaired by a qualified service person.

Malfunction	Measure
If a safety device such as a fuse, a breaker or an earth leakage breaker frequently actuates or the ON/OFF switch does NOT properly work.	Turn OFF the main power switch.
If water leaks from the unit.	Stop the operation.
The operation switch does NOT work well.	Turn OFF the power supply.
If the user interface display indicates the unit number, the operation lamp flashes and the malfunction code appears.	Notify your installer and report the malfunction code.



### INFORMATION

Refer to the reference guide located on <https://www.daikin.eu> for more troubleshooting tips. Use the search function  to find your model.

After checking all the items above, if it is impossible to fix the problem yourself, contact your installer and state the symptoms, the complete model name of the unit (with manufacturing number if possible) and the installation date.

# 7 Disposal



### NOTICE

Do NOT try to dismantle the system yourself: dismantling of the system, treatment of the refrigerant, oil and other parts **MUST** comply with applicable legislation. Units **MUST** be treated at a specialised treatment facility for reuse, recycling and recovery.



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3P551387-1B 2024.07