

DAIKIN ROOM AIR CONDITIONER

OPERATION MANUAL

(The Installation Manual is on the back side.)
MODEL: STK09SRV16, STK12SRV16

Safety Precautions

- Keep this manual where the user can easily find it.
- Read the precautions in this manual carefully before operating the unit.
- The following symbols are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.
- WARNING**
Failure to follow these instructions properly may result in personal injury or loss of life.
- CAUTION**
Failure to follow these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.
- Never attempt.
- Be sure to follow the instructions.
- Be sure to establish an earth connection.
- After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the equipment is transferred to a new user, be sure to hand over the manual.
- WARNING**
In order to avoid electric shock or injury, do not operate the air conditioner among flammable or explosive gases, are detected near the unit.
- Be aware that prolonged, direct exposure to cool air from the air conditioner, especially to the head, may cause discomfort.
- Do not abuse objects, including rods, your finger, etc., in the air inlet or outlet. Product malfunctioning, product or injury damage may result in electric shock or fire, or other damage.
- Do not attempt to repair, disassemble, or modify the air conditioner.
- Do not use flammable spray near the air conditioners, or otherwise fire may result.
- Do not use the unit other than the one indicated on the outdoor unit (P30) when installing, moving or repairing. Using other refrigerants may cause trouble or damage to the unit, and personal injury.
- To avoid electric shock, do not touch the power cord.
- Beware of fire in case of refrigerant leakage. If the air conditioner is not operating correctly, i.e. not generating cool air, refrigerant leakage may be the cause. Contact your dealer or service center. The refrigerant in the air conditioner is safe and non-toxic. However, if you suspect that there is a naked burner, heater or cooler may result in generation of noxious gas. Do not use the air conditioner until a qualified service person confirms that the unit is safe.
- Do not attempt to install or repair the air conditioner. Improper maintenance may result in water damage, electric shock or fire. Please contact your local dealer. Contact your local dealer or personnel qualified for installation and maintenance work.
- If the power cord is damaged, do not use the unit. Turn off the power of the unit and contact your local dealer. Continued operation under such circumstances may result in a failure, electric shocks or fire hazards.
- Be sure to install an earth leakage breaker. Failure to install the earth leakage circuit breaker may result in electric shocks or fire.

P002

Operation

DRY · COOL · FAN Operation

The air conditioner operates with the operation mode of your choice. From the next time on, the air conditioner will operate with the same operation mode.

To start operation

1. Press **MODE** and select a operation mode.
• Each pressing of the button advances the mode setting in sequence.
2. Press **ON/OFF**.
• "ON" is displayed on the LCD.
• The OPERATION lamp lights green.

To stop operation

3. Press **ON/OFF** again.
• "ON" disappears from the LCD.
• Then OPERATION lamp goes off.

To change the temperature setting

4. Press **TEMP**.

COOL operation	DRY or FAN operation
Press ▲ to raise the temperature and ▼ to lower the temperature. Set to the temperature you like from 18-32°C.	The temperature setting is not variable.

NOTE

- Note on COOL operation**
This air conditioner cools the room by releasing the heat in the room outside. Therefore, the cooling performance of the air conditioner may be degraded if the outdoor temperature is high.
- Note on DRY operation**
The computer chip works to rid the room of humidity while maintaining the temperature as much as possible. It automatically controls temperature and airflow rate, so manual adjustment of these functions is unavailable.
- Note on FAN operation**
• This mode is valid for fan only.
- Recommended temperature setting**
• For cooling: 26-28°C

Operation

Timer / ECONO Operation

Timer functions are useful for automatically switching the air conditioner on or off at night or in the morning. You can also use GOOD SLEEP OFF TIMER and ON TIMER in combination.

TIMER Operation**To use GOOD SLEEP OFF TIMER operation**

1. Press **OFF**.
• "HR OFF" is displayed on the LCD.
Each pressing of **OFF** advances the time setting by 1 hour.
The time can be set between 1 to 9 hours.
• The TIMER lamp lights yellow.
- Once GOOD SLEEP OFF TIMER operation starts, the set temperature will increase gradually by 2°C in the next 2 hours to prevent excessive cooling for your pleasant sleep.

To use ON TIMER operation

1. Press **ON**.
• "HR ON" is displayed on the LCD.
Each pressing of **ON** advances the time setting by 1 hour.
The time can be set between 1 to 12 hours.
• The TIMER lamp lights yellow.

NOTE

- Note on TIMER operation**
Once you set ON (GOOD SLEEP OFF TIMER), the time setting is kept in the memory. The memory is cleared when remote controller batteries are replaced.
- In the following cases, set the timer again.**
 - After a circuit breaker has turned off.
 - After a power failure.
 - After replacing batteries in the remote controller.

Troubleshooting

Troubleshooting

Case	Explanation
Operation does not start soon.	• This is to protect the air conditioner. You should wait for about 3 minutes.
Air does not come out.	• If the operation is started when the airflow setting is "Auto", the SMELL PROOF operation starts running to prevent unpleasant odour into the indoor unit. Wait for about 1 minute. (Except when POWER CHILL operation is set.) Refer to Adjusting the Airflow Rate / SMELL PROOF Operation.
The flap does not start swinging immediately.	• The air conditioner is adjusting the position of the flap. The flap will start moving soon.
Operation stopped suddenly. (OPERATION lamp is on.)	• For some protection, the air conditioner may stop operating on a sudden large voltage fluctuation. It automatically resumes operation in about 3 minutes. Voltage range protection: 160V-265V
A sound is heard.	■ A sound like a flow of water • This sound is generated because the refrigerant in the air conditioner is flowing. • This is a pumping sound of the water in the air conditioner and heard when the water is pumped out from the air conditioner in cooling or drying operation. ■ Banging sound • This sound is generated when the flow of the refrigerant in the air conditioner is switched over. ■ Ticking sound • This sound is generated when the size of the air conditioner slightly expands or shrinks as a result of temperature changes. ■ Clapping sound • This sound is heard from the inside of the air conditioner when the exhaust fan is activated while the room doors are closed. Open the window or turn off the exhaust fan.
The outdoor unit emits water or steam.	■ In COOL or DRY operation • Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.
Mist comes out of the indoor unit.	• This happens when the air in the room is cooled into mist by the cold airflow during COOL operation.

Case	Explanation
The indoor unit gives out odour.	• This happens when smells of the room, furniture, or cigarettes are absorbed into the unit and discharged with the airflow. (If this happens, we recommend you to have the indoor unit washed by a technician. Consult the service shop where you bought the air conditioner.)
The outdoor fan rotates while the air conditioner is not in operation.	■ The operation is stopped: • The outdoor fan continues rotating for about 60 seconds for system protection. ■ While the air conditioner is not in operation: • When the outdoor temperature is very high, the outdoor fan starts rotating for system protection.
Remote controller does not work properly.	■ No remote controller signals are displayed. ■ The remote controller sensitivity is low. ■ The display is low in contrast or blacked out. ■ The display runs out of control. • The batteries are dying and the remote controller is malfunctioning. Replace all the batteries with new, dry batteries (AAA). For details, refer to "To set the batteries" of this manual.
Operation stops suddenly. (OPERATION lamp flashes.)	• Are the air filters clean? • Is there anything blocking the air inlet or the outlet of the indoor and outdoor units? • Is the temperature setting appropriate? • Are the windows and doors closed? • Are the airflow rate and the air direction set appropriately?
An abnormal functioning happens during operation.	• The air conditioner may malfunction with lightning or radio waves. Turn off the circuit breaker, turn it on again and try operating the air conditioner with the remote controller.

Check again.

Please check again before calling a repair person.

Case

Explanation

Call the service shop immediately.

WARNING

Troubleshooting

Troubleshooting

3

These cases are not troubles.

The following cases are not air conditioner troubles but have some reasons. You may just continue using it.

Case

Explanation

Call the service shop immediately.

Disposal requirements

Preparation before Operation

Name of Parts

1

Indoor Unit

2

Remote Controller

Preparation before Operation

Name of Parts

2

Indoor Unit

3

Outdoor Unit

Fault diagnosis by remote controller

Troubleshooting

Troubleshooting

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DAIKIN AIR CONDITIONER INSTALLATION MANUAL

ACCESSORIES

	AC	~L
⑥ Mounting plate	1	(F) Operation/installation manual
⑦ Mounting screw M4 × 25L	6	⑧ Tie-Wrap
⑨ Wireless remote controller	1	⑩ Product warranty
⑪ Dry battery (AAA)	2	⑫ Gas Pipe - 3.5 M
⑬ Indoor unit fixing screw M4 × 12L	2	⑭ Liquid Pipe - 3.5 M

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.

SAFETY PRECAUTIONS
Meaning of **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 an earth 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 the operation manual.

WARNING

If your dealer or qualified personnel 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. Installation in accordance with the instructions in this installation manual. Improper installation may result in water leakage, electric shocks or fire, drain water causes trouble or problem in particular, both air intake and exhaust have clear paths of air, the unit is not in the path of direct sunlight, the unit is away from the source 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 electrical ignition type fluorescent lamps (inverter or rapid start type) as they may shorten the remote controller range, the unit is at least 1 metre away from any television or radio unit, may cause interference with the picture or sound, install at the recommended height (1.8m).

For walls containing metal frame or metal board, be sure to use a wall embedded pipe and wall cover in the feed-through hole to prevent possible heat, electrical shock, or fire. Be sure to caulk the gaps around the pipes with caulking material to prevent water leakage.
1) Bore a feed-through hole of 65mm in the wall. It has a down slope toward the outside. 2) Insert a wall embedded pipe into the wall pipe. 3) Insert a wall hole cover into the wall pipe. 4) After completing refrigerant piping, wiring, and drain piping, caulk pipe hole gap with putty.

CAUTION

Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire. Do not use a dedicated power supply circuit only. Insufficient power capacity and improper workmanship may result in electric shocks or fire. Make sure that all wiring are secured, and that there is no strain on the terminal connections on wires. Improper connections of 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 board can be securely fastened. Improper positioning of the control board may result in electric shocks, fire or over heating terminals. If refrigerant gas leaks during installation, ventilate the area immediately. To prevent gas from leaking into the room, do not connect the refrigerant gas.

After completing installation, check the system for air leakage.

In the event of a gas leakage during the refrigerant piping, turn off the air conditioner to ensure its free of air, and use only the specified refrigerant (R32). The presence of air in the refrigerant piping may result in equipment damage and even injury.

While following the refrigerant piping, attach the refrigerant piping to the compressor before turning the compressor on. The refrigerant piping may result in equipment damage and even injury.

During pump-down, stop the compressor before removing the refrigerant piping. The compressor is still running and the stop valve is open during pump-down, valve is open which may cause damage to the compressor.

Do not turn the air conditioner on until the compressor has stopped.

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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 drawings are met.
- both air intake and exhaust have clear paths of air.
- the unit is not in the path of direct sunlight.
- the unit is away from the source 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 electrical ignition type fluorescent lamps (inverter or rapid start type) as they may shorten the remote controller range.
- the unit is at least 1 metre away from any television or radio unit, may cause interference with the picture or sound.
- install at the recommended height (1.8m).

Where there is no work space because the unit is close to ceiling:

CAUTION

When carrying the outdoor unit during installation, wear protection gloves.

Outdoor unit

The outdoor unit should be sited in a place where:

- there are no restrictions on the outdoor unit installation drawings are met.
- drain water causes trouble or problem in particular.
- both air intake and exhaust have clear paths of air (they should be free of snow in snowy districts).
- 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 inhalable gas leakage.
- the unit is not directly exposed to salt, suffocating gases, or machine oil vapour.
- operating sound or hot airflow does not cause trouble to neighbours.
- the unit is at least 3 metres away from any television or radio antenna.

Where there is no work space because the unit is close to ceiling:

CAUTION

When carrying the outdoor unit during installation, wear protection gloves.

OUTDOOR UNIT INSTALLATION GUIDELINES

OUTDOOR UNIT

1 INSTALLING THE OUTDOOR UNIT

1 FLARING THE PIPE END

1) Cut the pipe end with a pipe cutter.

2) Remove burrs with the cut surface facing downward so that the chips do not enter the pipe.

3) Put the flare on the pipe.

4) Check that the flaring is properly made.

5) Check that the flaring may cause refrigerant gas leakage.

6) Remove the service lid opening/closing type.

7) Open the service lid.

8) Place both hands under the centre of the front grille, and while pushing up, pull it toward you.

9) Install the front grille and firmly engage the upper hooks (3 locations).

10) Install the air filter and then mount the front panel.

2 REMOVING AND INSTALLING THE FRONT PANEL

Hold the front panel by the indentations in the main unit and open the panel. Slide the front panel sideways to disengage the front panel shaft toward you to remove it.

You can also remove the front panel by pushing it open until the front panel shaft is disconnected.

3 OPENING THE SERVICE LID

The service lid is opening/closing type.

1) Remove the service lid.

2) Pull out the service lid diagonally down in the direction of the arrow.

3) Pull down.

4 HOW TO SET THE DIFFERENT ADDRESSES

When two indoor units are installed in one room, the two wireless remote controllers can be set for different addresses.

1) Remove the front grille. (2 screws)

2) Remove the service lid.

3) Remove the electrical connector.

4) Pull out the PCB.

5) Cut the address jumper (JA) on the printed circuit board.

6) Cut the address jumper (JA) in the remote controller.

5 REMOVING AND INSTALLING THE FRONT GRILLE

Align the front panel shaft of the front panel with the grooves, and push all the front grille in slowly. Push the centre of the lower surface of the panel firmly.

6 REMOVING THE FRONT GRILLE

Remove the front grille.

2) Remove the front grille. (2 screws)

3) Remove the front grille.

4) In front of the front grille, there are 3 upper hooks. Lightly pull the front grille toward you with your fingers, and push down on the hooks with your other hand.

7 DRAIN WORK

If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 30mm in height under the outdoor unit's feet.

In sites with poor drainage, use block bases for outdoor unit. Adjust too high until the unit is level. Otherwise, water leakage or pooling of water may occur.

Note: Remove polythene film from front panel whenever applied.

* If the drain port is covered by a mounting base or floor surface, place additional foot bases of at least 30mm in height under the outdoor unit's feet.

* Additional foot bases make sure to use them when the outdoor unit is tilted.

** In order to prevent damage to the outdoor unit, do not use block bases for outdoor unit if the outdoor unit is tilted more than 10 degrees.

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