

# OPERATION MANUAL

AIR CONDITIONER

Duct Type

## **MODEL:**

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\* Write down the model name.  
(Refer to the rating label.)

Before using this product, read these instructions thoroughly. Also, keep this manual for future reference, together with the installation manuals for the indoor and outdoor units.



PART No. 9381386604-01

**FUJITSU GENERAL LIMITED**

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## 1. SAFETY PRECAUTIONS

To prevent personal injury or property damage, read this section carefully before you use this product, and be sure to comply with the following safety precautions.

Incorrect operation due to failure to follow the instructions may cause harm or damage, the seriousness of which is classified as follows:

### WARNING

This mark warns of death or serious injury.

### CAUTION

This mark warns of injury or damage to property.



This mark denotes an action that is PROHIBITED.



This mark denotes an action that is COMPULSORY.

### WARNING



- This product contains no user-serviceable parts. Always consult authorized service personnel for repairing, installation, and relocation of this product. Improper installation or handling will cause leakage, electric shock, or fire.
- In the event of a malfunction such as burning smell, immediately stop operation of the air conditioner, and disconnect all the power supply by turning off the electrical breaker or disconnecting the power plug. Then consult authorized service personnel.
- Take care not to damage the power supply cable. If it is damaged, it should be replaced only by the authorized service personnel in order to avoid a hazard.
- If a refrigerant leakage is suspected, all naked flames shall be removed or extinguished, and consult authorized service personnel.



### WARNING



- In the event of a thunder storm or any prior sign of a lightning strike, turn off the air conditioner via the remote controller, and refrain from touching the product or the power source to prevent any electrical hazards.
- This product 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 this product by a person responsible for their safety. Children should be supervised to ensure that they do not play with this product.



- Do not start or stop the operation of this product by turning on or off the circuit breaker.
- Do not use flammable gases near this product.
- Do not expose yourself directly to the cooling airflow for many hours.
- Do not insert your fingers or any other objects into outlet port or inlet grille.
- Do not operate with wet hands.



### CAUTION



- Provide occasional ventilation during use.
- Always operate this product with air filters installed.
- Ensure that any electronic equipment is at least 1 m away from this product.
- Disconnect all the power supply when not using this product for extended periods.
- After a long period of use, ensure to get the mounting of the indoor unit checked to prevent this product from falling down.
- The airflow direction and the room temperature should be carefully considered when you use this product in a room with infants, children, elderly or sick persons.
- Keep the surroundings of the outdoor unit clean and tidy, and do not place items around it. Any objects blocking or entering from the outlet ports may cause product malfunction.



- Do not direct the airflow at fireplaces or heating apparatus.
- Do not block or cover the intake grille and the outlet port.
- Do not apply any heavy pressure to radiator fins.
- Do not climb on, place objects on, or hang objects from this product.
- Do not place any other electrical products or household belongings under this product. Dripping condensation from this product might get them wet, and may cause damage or malfunction of your property.
- Do not expose this product directly to water.
- Do not use this product for preservation of food, plants, animals, precision equipment, art work, or other objects. This may cause quality deterioration of those items.
- Do not expose animals or plants to the direct airflow.
- Do not drink the drainage from the air conditioner.
- Do not pull the power supply cable.
- Do not touch the aluminum fins of heat exchanger built-in this product to avoid personal injury when you install or maintain the unit.
- Do not stand on unstable steps when operating or cleaning this product. It may overturn and can cause injury.

## 2. BASIC OPERATIONS

**NOTE:** For detailed instructions on how to operate, refer to the operation manual of the remote controller.

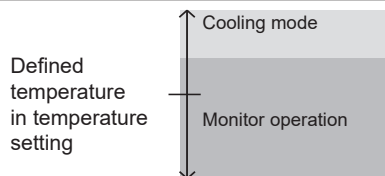
The operation mode and the temperature setting range are shown in the following table.

Operation mode	Temperature setting range
Auto	20.0 - 30.0 °C
Cooling	20.0 - 30.0 °C
Dry	20.0 - 30.0 °C
Fan	You cannot set the temperature.

### ■ Auto mode

The air conditioner selects the appropriate operation mode according to your room's present temperature.

Room temperature	Operation
Higher than the setting temperature	Cooling
Close to the setting temperature	Determined by outdoor temperature



When Auto mode is first selected, the fan will operate at low speed for about a few minutes, during which time the indoor unit detects the room conditions and selects the operation mode.

When the air conditioner has adjusted your room's temperature to near the thermostat setting, it will begin monitor operation.

In the monitor operation mode, the fan will operate at low speed. If the room temperature subsequently changes, the air conditioner will once again select the appropriate operation to adjust the temperature to the value set in the thermostat.

If the mode automatically selected by the unit is not what you wish, select one of the mode operations (Cooling, Dry, Fan).

### ■ Cooling mode

Use to cool your room.

**NOTE:** Set the temperature lower than the current room temperature, otherwise, the fan alone will operate.

### ■ Dry mode

Use for gently cooling while dehumidifying your room.

#### NOTES:

- Set the temperature lower than the current room temperature, otherwise, the operation will not operate.
- The unit will operate at low speed in order to adjust room humidity. The indoor unit's fan may stop from time to time. Also, the fan may operate at very low speed when adjusting room humidity.
- The fan speed cannot be changed manually.

### ■ Fan mode

Use to circulate the air throughout your room.

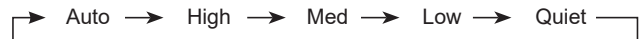
**NOTE:** You cannot set the temperature.

## 3. AIRFLOW SETTINGS

**NOTE:** For detailed instructions on how to operate, refer to the operation manual of the remote controller.

### 3.1. Fan speed setting

The fan speed changes as follows.



When Auto is selected, the fan speed is automatically adjusted according to the operation mode.

**Cooling:** As the room temperature approaches that of the set temperature, the fan speed becomes slower.

**Fan:** The fan runs at low fan speed.

When Quiet is selected, Super Quiet operation begins. The indoor unit's airflow will be reduced for quieter operation.

- The Super Quiet operation cannot be used during the Dry mode. (The same is true when the Dry mode is selected during the Auto mode operation.)
- During the Super Quiet operation, cooling performance will be reduced somewhat. If the room does not cool down when using the Super Quiet operation, adjust the indoor unit's fan speed.

## 4. TIMER OPERATIONS

**NOTE:** For detailed instructions on how to operate, refer to the operation manual of the remote controller.

### 4.1. On timer or Off timer

**NOTE:** Depending on the remote controller, this function may not be available.

The On timer starts the operation at your desired time.

The Off timer stops the operation at your desired time.

### 4.2. Weekly timer

**NOTE:** Depending on the remote controller, this function may not be available.

The Weekly timer enables you to set operation schedules for each day of the week.

Use the Day off setting to switch off timed operation for a selected day in the coming week. Because all days can be set together, the weekly timer can be used to repeat the timer settings for all of the days.

#### Temperature setting range

Auto, Cooling, or Dry mode: 20-30 °C

- The operation modes will be the same as the mode at the last time operation was stopped. So Cooling → Dry → Cooling → Dry type of operations cannot be set automatically.
- If you set the On timer and Off timer on the same time, the On timer will work.
- If two On timers are set on the same time, the air conditioner will run in the order of the program number.
- You cannot the Weekly timer and the other timers simultaneously. If you use the On/Off timer, the Program timer, or the Sleep timer while the Weekly timer is activated, the Weekly timer will be deactivated. In such a case, activate the Weekly timer after the other timer finishes.

### 4.3. Program timer

**NOTE:** This function is available only when using the wireless remote controller.

The Program timer operates as the combination of the On timer and Off timer.

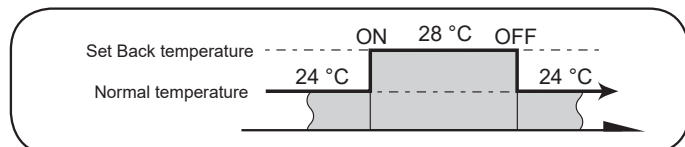
You can set the Program timer only within a span of 24 hours.

## 4.4. Temperature Set Back timer

**NOTE:** Depending on the remote controller, this function may not be available.

The Temperature Set Back timer changes the temperature setting for day of the week.

The temperature setting range is the same as the range of the operation mode.



### NOTES:

- The Temperature Set Back timer only changes the set temperature, it cannot be used to start or stop air conditioner operation.
- The Temperature Set Back timer can be set to operate up to 2 times per day but only 1 temperature setting can be used.
- The Temperature Set Back timer can be used together with the On, Off, and Weekly timer.

## 5. ENERGY SAVING OPERATIONS

**NOTE:** For detailed instructions on how to operate, refer to the operation manual of the remote controller.

### 5.1. Economy operation

**NOTE:** Depending on the remote controller, this function may not be available.

It saves more electricity than other operation modes by changing the set temperature to a moderate setting.

Operation mode	Setting details
Cooling/Dry	The room temperature will be few degrees higher than the set temperature

### NOTES:

- In the Cooling or Dry mode, the maximum output of this operation is approximately 70 % of usual operation. If the room is not cooled well during the Economy operation, select normal operation.
- This operation cannot be performed during the temperature monitoring by the Auto mode.

## 6. CLEANING AND CARE

### CAUTION

- Before cleaning the indoor unit, be sure to turn it off and disconnect all the power supply.
- The fan operates at high speed inside the unit, and could result in personal injury.
- If the filter cleaning involves high-place work, consult the professional technical service personnel.
- Do not expose the indoor unit to liquid insecticides or hair sprays.

When cleaning the unit, do not use water hotter than 40 °C, harsh abrasive cleansers, or volatile agents like benzene or thinner.

## Cleaning air filter

- Dust can be cleaned from the air filter either with a vacuum cleaner, or by washing the filter in a solution of mild detergent and warm water. If you wash the filter, be sure to allow it to dry thoroughly in a shady place before reinstalling.
- If dirt is allowed to accumulate on the air filter, airflow will be reduced, lowering operating efficiency and increasing noise.

## After extended non-use of the unit

If you do not use this product for 1 month or more, perform the Fan mode operation for half a day to dry the internal parts thoroughly before you perform normal operation.

## Additional inspection

After long period of use, accumulated dust inside the indoor unit may reduce the product performance even if you have maintained the unit with instructed daily care or cleaning procedures written in this manual.

In such a case, a product inspection is recommended.

For more information, consult authorized service personnel.

## Filter indicator reset (Special setting)

This function can be used if set correctly during installation. Consult authorized service personnel in order to use this function.

1. Clean the air filter when the filter indicator appears.
2. After cleaning, reset the filter indicator.

\* For detailed instructions on how to operate, refer to the operation manual of the remote controller.

## 7. GENERAL INFORMATION

### ■ Auto-restart function

#### In Event of Power Interruption

Should the power supply to the air conditioner be interrupted by a power failure, the air conditioner will restart automatically in the previously selected mode once the power is restored.

### ■ Malfunctions caused by other electrical devices

Use of other electrical appliances such as an electric shaver or nearby use of a wireless radio transmitter may cause the malfunction of the air conditioner.

If you encounter such a malfunction, disconnect the power supply once. Then reconnect it, and resume operation by using the remote controller.

### ■ Indoor unit temperature and humidity range

Permissible ranges of temperature and humidity are as follows:

Indoor temperature	Cooling/Dry	[°C]	20 to 32
Indoor humidity		[%]	80 or less <sup>*1)</sup>

\*1) If the air conditioner is used continuously for many hours, water may condense on the surface and drip.

- If the unit is operated under the conditions except the permissible temperature range, the air conditioner operation may stop because of the automatic protection circuit working.
- Depending on the operating conditions, the heat exchanger may freeze, causing water leakage or other malfunction (in the Cooling or Dry mode).

### ■ Other informations

- Do not use the air conditioner for any purpose other than room cooling/dry or fan.
- For the permissible ranges of temperature and humidity for the outdoor unit, refer to the outdoor unit installation manual.

## 8. OPTIONAL PARTS

### 8.1. Remote control

The remote controller is optional. You can select from the following types of remote control.

- Wireless remote controller
- Wired remote controller
- Wireless LAN control

To check the available model of remote controller, consult authorized service personnel.

**NOTE:** depending on the remote control, some function may be restricted. Refer to the operation manual of the remote controller or WLAN adapter for details.

**You can use both wireless and wired remote controller together.**

However, some functions of the wireless remote controller may be restricted.

### 8.2. Group control

One wired remote controller can control up to 16 air conditioners. All of the air conditioners will be operated with the same settings.

You cannot use group control and wireless LAN control together.

## 9. TROUBLESHOOTING



### WARNING



In following events, immediately stop operation of the air conditioner, and disconnect all the power supply by turning off the electrical breaker or disconnecting the power plug. Then consult your dealer or authorized service personnel.

As long as the unit is connected to the power supply, it is not insulated from the power supply even if the unit is turned off.

- Unit smells of something burning or emits smoke
- Water leaks from the unit

#### Does not operate at all.

- ☐ Has there been a power outage?  
In this case, the unit restarts automatically after the power supply is resumed. (Refer to **page 3**.)
- ☐ Has the circuit breaker been turned off?  
⇒ Turn on the circuit breaker.
- ☐ Has a fuse blown out or the circuit breaker been tripped?  
⇒ Replace the fuse or reset the circuit breaker.
- ☐ Is the timer operating?  
⇒ To check or deactivate the timer setting, Refer to the operation manual of the remote controller.

#### Poor cooling performance.

- ☐ Is the unit operating under the conditions except the permissible temperature range?  
In this case, the air conditioner may stop because of the automatic protection circuit working.
- ☐ Is the air filter dirty?  
⇒ Clean the air filter. (Refer to **page 3**.)
- ☐ Is the intake grille or outlet port of indoor unit blocked?  
⇒ Remove the obstructions.
- ☐ Is the room temperature adjusted appropriately?  
⇒ To change the setting temperature, refer to the operation manual of the remote controller.
- ☐ Is a window or door left opened?  
⇒ Close the window or the door.
- ☐ Is the fan speed set to Quiet?  
⇒ To change the fan speed, refer to the operation manual of the remote controller.

- ☐ Is the air conditioner in the Economy operation?  
⇒ To stop the Economy operation, refer to the operation manual of the remote controller.
- ☐ <In the Cooling mode> Is direct or strong sunlight shining into the room?  
⇒ Close the curtains.
- ☐ <In the Cooling mode> Are there other heating apparatus or computers operating, or too many people in the room?  
⇒ Turn the heating apparatus or computers off, or set the temperature lower.

#### Airflow is weak or stops.

- ☐ Is the fan speed set to Quiet?  
⇒ To change the fan speed, refer to the operation manual of the remote controller.
- ☐ <In the Dry mode> The indoor unit operates at low fan speed to adjust the room humidity, and may stop from time to time.
- ☐ <In the Auto mode> While the monitoring operation, the fan rotates at very low speed.

#### Humidity does not drop.

- ☐ <In the Dry operation> If the setting temperature is high, the humidity may not drop.  
⇒ To lower the humidity, lower the setting temperature.

#### Noise is heard.

- ☐ Is the unit operating, or immediate after stopping operation?  
In this case, refrigerant flowing sound may be heard. It may be particularly noticeable for 2-3 minutes after starting operation.
- ☐ Do you hear a slight squeaking sound during the operation?  
This sound is produced by the minute expansion and contraction of the front panel caused by temperature change.

#### Smell coming from the unit.

- ☐ The air conditioner may absorb various smells generated from interior textile, furniture, or cigarette smoke. These smells may be emitted during the operation.

#### Mist or steam is emitted from the unit.

- ☐ <In the Cooling or Dry mode> A thin mist may be generated by condensation formed with sudden cooling process.

#### Operation is delayed after restart.

- ☐ Has the power supply turned from off to on suddenly?  
In this case, the compressor will not operate for about 3 minutes to prevent a blowout of the fuse.
- ☐ Has the electrical breaker been turned off then on again?  
In this case, the protection circuit will operate for about 3 minutes.

Immediately stop operation and turn off the electrical breaker in following cases. Then consult authorized service personnel.

- The problem persists even if you perform these checks or diagnostics.
- Error sign is shown on the wired remote controller display or the indicator lamps on the IR receiver unit.

#### NOTE:

For any troubleshooting related to the wireless LAN control, refer to the setting manual for WLAN adapter or the mobile app installed in your smartphone or tablet PC.