

# OPERATION MANUAL

(The Installation Manual is on the back side.)

MODELS: GTL28TV16X2Z + RLGL28TV16X2Z, GTQ35TV16X2Z + RQG35TV16X2Z

## Safety Precautions

- Read the precautions in this manual carefully before operating the unit.
- Keep this manual where the user can easily find it.
- Read the precautions in this manual carefully before operating the unit.
- 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.
- WARNING**
  - Failure to follow these instructions properly may result in personal injury or loss of life.
  - Failure to observe these instructions properly may result in property damage or personal injury. The equipment is transferred depending on the circumstances.
- CAUTION**
  - Never attempt.
  - Be sure to follow the instructions.
- 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 place, be sure also to hand over the manual.
- WARNING**
  - In order to avoid fire, explosion or injury, do not operate the unit when harmful, among which flammable or corrosive gases, are detected near the unit.
  - Be aware that prolonged, direct exposure to cold air from the air conditioner, or to air that is too cool can be harmful to your physical condition and health.
  - Do not place objects, including rods, your fingers, etc., in the air inlet or outlet. Product malfunctioning, product or injury damage may result due to contact with the air conditioner's high-speed fan blades.
  - Do not attempt to repair, dismantle, reinstall or modify the air conditioner yourself as this may result in water leakage, electric shocks or fire hazards.
  - Do not use flammable spray near the air conditioner, or otherwise fire may result.
  - Do not use a refrigerant other than the one indicated on the outdoor unit (R410A) when installing, moving or repairing. Using other refrigerants may cause leakage or damage to the unit and cause personal injury.
  - To avoid electric shocks, do not operate with wet hands.
  - Beware of fire in case of refrigerant leakage. If the air conditioner is not operating correctly, i.e. not generating cool air, refrigerant leakage could be the cause. Consult your dealer for assistance. The refrigerant with the air conditioner is safe and normally does not leak. However, in the event of a leakage, contact with a naked burner, heater or candle may result in generation of noxious gas. Do not use the air conditioner until a qualified service person confirms that the leakage has been repaired.
  - Do not attempt to install or repair the air conditioner yourself. Improper workmanship may result in water leakage, electric shocks or fire hazards. Please contact your local dealer or qualified personnel for installation and maintenance work.
  - When the air conditioner is malfunctioning (giving off a burning odor, etc.) turn off power to 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 circuit breaker. Failure to install the earth leakage circuit breaker may result in electric shocks or fire.

## 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

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

#### To stop operation

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

#### To change the temperature setting

COOL operation	DRY or FAN operation
Press <b>TEMP</b> to raise the temperature and press <b>TEMP</b> to lower the temperature.	The temperature setting is not variable.
Set to the temperature you like from 18-32°C	

## 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 combination.

#### TIMER Operation

##### To use GOOD SLEEP OFF TIMER operation

- Press **OFF**.
    - "HRR 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.

##### To use ON/TIMER operation

- Press **ON**.
    - "HRR 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.

##### To cancel TIMER operation

- Press **OFF**.
    - "HRR OFF" disappears from the LCD.
    - The TIMER lamp goes off.
- A sample setting for combining the 2 timers is shown below.
- "ON" and "OFF" are displayed on the LCD.

#### ECONO Operation

ECONO operation is a function which enables efficient operation. This function is useful for reducing electric utility expense.

##### To start ECONO operation

- Press **ECONO** during operation.
  - "ECONO" is displayed on the LCD.

##### To cancel ECONO operation

- Press **ECONO** again.
  - "ECONO" disappears from the LCD.

## NOTE

- Note on TIMER operation**
  - Once you set ON/GOOD SLEEP OFF TIMER, the time setting is kept in the memory. The memory is canceled 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.
- Notes on ECONO operation**
  - ECONO operation can only be set when the unit is running. Pressing **ECONO** during settings to be canceled, and "ECONO" disappears from the LCD.
  - ECONO operation functions in COOL operation.
  - POWER CHILL and ECONO operation cannot be used at the same time. Priority is given to the function of whichever button is pressed last.
  - This operation is performed with increasing setting temperature and therefore may not provide a sufficient cooling effect.

## Troubleshooting

### 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
<b>Operation does not start soon.</b> <ul style="list-style-type: none"><li>When "ON/OFF" button was pressed soon after operation was stopped.</li><li>When the mode was reset.</li></ul>	<ul style="list-style-type: none"><li>This is to protect the air conditioner. You should wait for about 3 minutes.</li></ul>
<b>Air does not come out.</b>	<ul style="list-style-type: none"><li>If the operation is started when the airflow setting is "Auto", the SMELL PROOF operation starts running to prevent unpleasant odour inside the indoor unit. Wait for about 1 minute. (Except when POWER CHILL operation is set.) Refer to Adjusting the Airflow Rate / SMELL PROOF Operation.</li></ul>
<b>The flap does not start swinging immediately.</b>	<ul style="list-style-type: none"><li>The air conditioner is adjusting the position of the flap. The flap will start moving soon.</li></ul>
<b>A sound is heard.</b>	<ul style="list-style-type: none"><li><b>A sound like a flow of water</b><ul style="list-style-type: none"><li>This sound is generated because the refrigerant in the air conditioner is flowing.</li><li>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.</li></ul></li><li><b>Blowing sound</b><ul style="list-style-type: none"><li>This sound is generated when the flow of the refrigerant in the air conditioner is switched over.</li></ul></li><li><b>Ticking sound</b><ul style="list-style-type: none"><li>This sound is generated when the size of the air conditioner slightly expands or shrinks as a result of temperature changes.</li></ul></li><li><b>Clopping sound</b><ul style="list-style-type: none"><li>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.</li></ul></li></ul>
<b>The outdoor unit emits water or steam.</b>	<ul style="list-style-type: none"><li><b>In COOL or DRY operation</b><ul style="list-style-type: none"><li>Moisture in the air condenses into water on the cool surface of outdoor unit piping and drips.</li></ul></li></ul>
<b>Mist comes out of the indoor unit.</b>	<ul style="list-style-type: none"><li>This happens when the air in the room is cooled into mist by the cold airflow during COOL operation.</li></ul>
<b>The indoor unit gives out odour.</b>	<ul style="list-style-type: none"><li>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.</li></ul>

## Read before Operation

### Name of Parts

#### Indoor Unit

- Air filter
- Accessory filter
- Air inlet
- Front panel
- Model name plate
- Indoor temperature sensor:
  - It senses the air temperature around the unit.
- Display
- Air outlet
- Louvers (vertical blades):
  - The louvers are inside of the air outlet.
- Dual Flap (horizontal blade)
- Signal receiver:
  - It receives signals from the remote controller.
  - When the unit receives a signal, you will hear a beep sound.

#### Outdoor Unit

- 15
  - 16
  - 17
  - 18
  - 19
  - 20
- Appearance of the indoor / outdoor unit may differ from some models.

## Operation

### Adjusting the Airflow Rate / SMELL PROOF Operation

#### Adjusting the airflow rate

You can adjust the airflow rate to increase your comfort.

#### To change the airflow rate setting

- Press **FAN**.
- Each pressing of **FAN** advances the airflow rate setting in sequence.
- Auto → Low → Middle → High
- In DRY operation, the airflow rate setting is not variable.

#### SMELL PROOF operation

The SMELL PROOF operation prevents unpleasant odour inside the indoor unit. This function is available in both DRY and COOL operation.

#### To use SMELL PROOF operation

- Before starting the operation, press **FAN** to set to Auto.
- Press **MODE** to select the DRY or COOL operation.
- Press **ON/OFF**.
  - Air starts circulating about 1 minute after the operation is started. However, if the POWER CHILL operation is started, air starts circulating immediately.

## NOTE

- Note on airflow rate setting**
    - At smaller airflow rates, the cooling effect is also smaller.
  - Note on SMELL PROOF operation**
    - SMELL PROOF operation can prevent some odours, but not all.
  - Notes on the operating conditions**
    - The air conditioner always consumes a small amount of electricity even while it is not operating.
    - If you are not going to use the air conditioner for a long period, turn off the circuit breaker.
    - Use the air conditioner in the following conditions.
- | Mode | Operating conditions            | If operation is continued out of this range           |
|------|---------------------------------|---|
| COOL | Outdoor temperature 19.4 - 50°C |   |
|      | Indoor temperature 18 - 32°C    | • A safety device may stop the operation.             |
| DRY  | Indoor humidity 80% max.        | • Condensation may occur on the indoor unit and drip. |

## Care

### Care and Cleaning

- CAUTION** Before cleaning, be sure to stop the operation and turn off the circuit breaker.

#### Units

#### Indoor unit and remote controller

##### 1. Wipe them with a dry soft cloth.

##### Front panel

- Open the front panel.
  - Hold the front panel by the indentations in the main unit and open the front panel.
- Remove the front panel.
  - Slide the front panel to either the left or right and pulling it toward you. This will disconnect the front panel shaft on one side.
  - Disconnect the front panel shaft on the other side in the same manner.
  - You can also remove the front panel by pushing it open until the front panel shaft is disconnected.
- Clean the front panel.
  - Wipe it with a soft cloth soaked in water.
  - Only neutral detergent may be used.
  - In case of washing the panel with water, wipe it with dry soft cloth, dry it up in the shade after washing.
- Attach the front panel.
  - Align the front panel shaft on the left and right of the front panel with the slots, then push them all the way in.
  - Close the front panel slowly.
  - Press the front panel at both sides and the center.

#### CAUTION

- Do not touch the aluminium fins of the indoor unit. If you touch those parts, this may cause an injury.
- When removing or attaching the front panel, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with your hands.
- Do not touch the aluminium fins of the indoor unit. If you touch those parts, this may cause an injury.
- For cleaning, do not use hot water above 40°C, benzene, gasoline, thinner, volatile oils, polishing compound, scrubbing brushes, hard stuff.
- After cleaning, make sure that the front panel is securely fixed.

## Troubleshooting

### Troubleshooting

Case	Explanation
Remote controller does not work properly.	<ul style="list-style-type: none"><li>No remote controller signals are displayed.</li><li>The remote controller sensitivity is low.</li><li>The display is low in contrast or blacked out.</li><li>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.</li></ul>

#### Check again.

Please check again before calling a repair person.

Case	Explanation
The air conditioner does not operate. (OPERATION lamp is off.)	<ul style="list-style-type: none"><li>Has a circuit breaker turned off or a fuse blown?</li><li>Is it a power failure?</li><li>Are batteries set in the remote controller?</li><li>Is the timer setting correct?</li></ul>
Cooling effect is poor.	<ul style="list-style-type: none"><li>Are the air filters clean?</li><li>Is there anything blocking the air inlet or the outlet of the indoor and the outdoor units?</li><li>Is the temperature setting appropriate?</li><li>Are the windows and doors closed?</li><li>Are the airflow rate and the air direction set appropriately?</li></ul>
Operation stops suddenly. (OPERATION lamp flashes.)	<ul style="list-style-type: none"><li>Are the air filters clean?</li><li>Is there anything blocking the air inlet or the outlet of the indoor and the outdoor units?</li><li>Turn off the circuit breaker and take all obstacles away. Then turn it on again and try operating the air conditioner with the remote controller. If the lamp still flashes, call the service shop where you bought the air conditioner.</li><li>If the lamp stop flashing after the above steps, there is no malfunction.</li></ul>
An abnormal functioning happens during operation.	<ul style="list-style-type: none"><li>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.</li></ul>

## Read before Operation

### Name of Parts

#### Remote Controller

- Signal transmitter:
  - It send signals to the indoor unit.
- Display (LCD):
  - It displays the current setting. (In this illustration, each section is shown with its display on for the purpose of explanation.)
- ON/OFF button:
  - Press this button once to start operation. Press once again to stop it.
- TEMPERATURE adjustment button:
  - It changes the temperature setting.
- FAN setting button:
  - It selects the airflow rate setting.
- SWING button:
  - Adjusting the airflow direction.
- POWER CHILL button:
  - POWER CHILL operation
- MODE selector button:
  - It selects the operation mode. (DRY/COOL/FAN)
- ECONO button:
  - It cancels the timer setting.
- TIMER CANCEL button:
  - It cancels the timer setting.
- ON/TIMER button
- GOOD SLEEP OFF/TIMER button
- COANDA button:
  - COANDA operation

## NOTE

- Notes on remote controller**
  - Never expose the remote controller to direct sunlight.
  - Dust on the signal transmitter or receiver will reduce the sensitivity. Wipe off dust with soft cloth.
  - Signal communication may be disabled if an electronic-starter-type fluorescent lamp (such as inverter-type lamp) is in the room. Consult the shop that is the case.
  - If the remote controller signals happen to operate another appliance, move that appliance to somewhere else, or consult the shop.

## Operation

### Adjusting the Airflow Direction

You can adjust the airflow direction to increase your comfort.

#### Upper and lower airflow direction

##### To start auto swing

- Press **SWING**.
- "C" is displayed on the LCD.
  - The flap (horizontal blade) will begin to swing.

##### To set the flap at desired position

- This function is effective while flap is in auto swing mode.

- Press **SWING** when the flap has reached the desired position.
- The flap will stop moving.
  - "C" disappears from the LCD.

#### Right and left airflow direction

##### To adjust the louvers (vertical blades)

- Hold the knob and move the louvers. (You will find a knob on the left-side and the right-side blades.)
- When the unit is installed in the corner of the room, the direction of the louvers should be facing away from the wall. If they face the wall, the wall will block off the wind, causing the cooling efficiency to drop.

## CAUTION

- Always use a remote controller to adjust the angles of the flap. If you attempt to move the flap forcibly with hand when it is swinging, the mechanism may be broken.
- Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at a high speed.

## Care

### Care and Cleaning

#### Air filter

- Pull out the air filters.
  - Open the front panel.
  - Push the filter tab at the center of each air filter a little upwards, then pull it down.
- Clean or replace each filter.
  - Wash the air filters with water or clean them with vacuum cleaner.
  - If the dust does not come off easily, wash them with neutral detergent thinned with lukewarm water, then dry them up in the shade.
  - Be sure to remove the accessory filter (optional part).
  - It is recommended to clean the air filters every 2 weeks.
- Set the air filter as they were and close the front panel.
  - Insert claws of the filters into slots of the front panel. Close the front panel slowly and push the panel at the 3 points.
  - Press the front panel at both sides and the centre.

#### Optional filter

Item	Part No.
Titanium apatite deodorizing air-purifying filter (with frame) 1 set	KAFA70A45
Ag-ion filter (with frame) 1 set	KAFA057A41
Anti Microbial filter (with frame) 1 set	KAFA500A04
Micro-filter - PM2.5 (with frame) 1 set	KAFA250A02
Micro-filter - PM0.1 (with frame) 1 set	KAFA10A03

#### [Installation]

Hold the filter frame and hook it on the 4 claws of the air filter.

#### ■ Titanium apatite deodorizing/Multi function/ Air-purifying filter/ Anti Microbial filter

##### [Maintenance]

Filter can be renewed by washing it with water once every 6 months. We recommend replacing it once every 3 years.

##### 1. Take off the filter.

- Vacuum dusts, and soak in lukewarm water for about 10 to 15 minutes if dirt is heavy.

- Do not remove the filter from frame when washing with water.

- After washing, shake off remaining water and dry in the shade.
- Do not wring out the filter when removing water from it.

## Troubleshooting

### Troubleshooting

#### Call the service shop immediately.

- WARNING**
  - When an abnormality (such as a burning smell) occurs, stop operation and turn off the circuit breaker.
  - Continued operation in an abnormal condition may result in troubles, electric shocks or fire. Consult the service shop where you bought the air conditioner.
  - Do not attempt to repair or modify the air conditioner by yourself. Incorrect work may result in electric shocks or fire. Consult the service shop where you bought the air conditioner.

If one of the following symptoms takes place, call the service shop immediately.

- The power cord is abnormally hot or damaged.
- An abnormal sound is heard during operation.
- The circuit breaker, a fuse, or the earth leakage circuit breaker cuts off the operation frequently.
- A switch or a button often fails to work properly.
- There is a burning smell.
- Water leaks from the indoor unit.

#### Disposal requirements

- 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.

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.

## Read before Operation

### Preparation before Operation

#### CAUTION

- Incorrect handling of batteries can result in injury from battery leakage, rupturing or heating, or lead to equipment failure. Please observe the following precautions and use safely.
  - If the solution from the batteries should get in the eyes, do not rub the eyes. Instead, immediately flush the eyes with tap water and seek the attention of a medical professional.
  - Keep batteries out of reach of children. In the event that batteries are swallowed, seek the immediate attention of a medical professional.
  - Do not expose batteries to heat or fire. Do not disassemble or modify batteries. The insulation or gas release vent inside the battery may be damaged, resulting in battery leakage, rupturing, or heating.
  - Do not damage or peel off labels on the batteries.

#### To set the batteries

- Remove the back cover by sliding and then slightly lifting it.
- Set 2 dry batteries (AAA).
- Return the back cover to the previous position.

#### To operate the remote controller

- To use the remote controller, aim the transmitter at the indoor unit. If there is anything to block signals between the unit and the remote controller, such as a curtain, the unit will not operate.
- Do not drop the remote controller. Do not get it wet.
- The maximum distance for communication is about 7m.

#### To install the Accessory filter

- Hold the filter frame and hook it on the 4 claws of the air filter.
- When installing the Accessory filter, refer to "Care and Cleaning", and pull out the air filters.

#### Turn on the circuit breaker

After the power is turned on, the flap of the indoor unit closes to set the reference position.

## NOTE

- Tips for saving energy**
  - Be careful not to cool the room too much.
  - Keeping the temperature setting at a moderate level helps save energy.
  - Cool windows with a blind or a curtain.
  - Blocking sunlight and air from outdoors increases the cooling effect.
  - Clogged air filters cause inefficient operation and waste energy. Clean them once in about every 2 weeks.
- Notes on batteries**
  - Do not use a leaking battery.
  - When replacing the batteries, use batteries of the same type, and replace both old batteries together.
  - When the system is not used for a long time, take the batteries out.
  - If the remote controller display begins to fade and the degradation of reception performance occurs within a year, however, replace both batteries with new, dry batteries (AAA).
  - The attached batteries are provided for the initial use of the system.
  - The usable period of the batteries may be short depending on the manufactured date of the air conditioner.

## Operation

### COANDA / POWER CHILL Operation

#### COANDA Operation

The flow of air will be in the upward direction which will provide a comfortable wind that will not come in direct contact with people.

##### To start COANDA operation

- Press **COANDA**.
  - The flap position will change, preventing air from blowing directly on the occupants of the room.
  - "C" is displayed on the LCD. The flap will go up.

##### To cancel COANDA operation

- Press **COANDA** again.
  - The flap will return to the memory position same as before COANDA mode.
  - "C" disappears from the LCD.

#### POWER CHILL operation

POWER CHILL operation quickly maximises the cooling effect in any operation mode. You can get the maximum capacity.

##### To start POWER CHILL operation

- Press **POWER CHILL**.
  - POWER CHILL operation ends in 20 minutes. Then the system automatically operates again with the previous settings which were used before POWER CHILL operation.
  - "C" is displayed on the LCD.

##### To cancel POWER CHILL operation

- Press **POWER CHILL** again.
  - "C" disappears from the LCD.

## NOTE

- Notes on COANDA operation**
  - The flap position will change, preventing air from blowing directly on the occupants of the room.
  - If the upper and lower airflow direction is selected, the COANDA operation will be canceled.
  - The airflow rate can be set to any level. However, a low airflow rate may cause cold air to go down and blow on people.
- Notes on POWER CHILL operation**
  - When using POWER CHILL operation, there are some functions which are not available.
  - POWER CHILL operation can only be set when the unit is running.
  - POWER CHILL operation will not increase the capacity of the air conditioner if the air conditioner is already in operation with its maximum capacity demonstrated.
- In COOL operation**
  - To maximize the cooling efficiency, the operation temperature is set to 18°C and the room airflow rate is maximized. The temperature and airflow settings are not variable.
- In DRY operation**
  - The temperature setting is lowered by 2.0°C and the airflow rate is maximized.
- In FAN operation**
  - The airflow rate is fixed to the maximum setting.