

# TOSHIBA

Leading Innovation >>>

## AIR CONDITIONER (SPLIT TYPE) Owner's Manual



EH99940201-1

### Indoor Unit

Model name:

Slim Duct Type

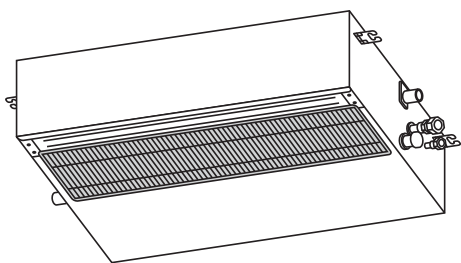
**RAV-SM304SDT-E**

**RAV-SM404SDT-E**

**RAV-SM454SDT-E**

**RAV-SM564SDT-E**

For commercial use



Original instruction

**ADOPTION OF NEW REFRIGERANT**

This Air Conditioner adopts a new refrigerant HFC (R410A) instead of the conventional refrigerant R22 in order to prevent destruction of the ozone layer.

This appliance is not intended for use by person (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.

„Maschinenlärminformations-Verordnung - 3. GPSGV, der höchste Schalldruckpegel beträgt 70 dB(A) oder weniger gemäss EN ISO 7779.“

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Thank you for purchasing this Toshiba air conditioner.

Please read carefully through these instructions that contain important information which complies with the "Machinery" Directive (Directive 2006 / 42 / EC), and ensure that you understand them.

After reading these instructions, be sure to keep them in a safe place together with the Owner's Manual and Installation Manual supplied with your product.

**Generic Denomination: Air Conditioner**






**Definition of Qualified Installer or Qualified Service Person**

The air conditioner must be installed, maintained, repaired and removed by a qualified installer or qualified service person. When any of these jobs is to be done, ask a qualified installer or qualified service person to do them for you.

A qualified installer or qualified service person is an agent who has the qualifications and knowledge described in the table below.

Agent	Qualifications and knowledge which the agent must have
Qualified installer	<ul style="list-style-type: none"> <li>The qualified installer is a person who installs, maintains, relocates and removes the air conditioners made by Toshiba Carrier Corporation. He or she has been trained to install, maintain, relocate and remove the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such operations by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to these operations.</li> <li>The qualified installer who is allowed to do the electrical work involved in installation, relocation and removal has the qualifications pertaining to this electrical work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to electrical work on the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.</li> <li>The qualified installer who is allowed to do the refrigerant handling and piping work involved in installation, relocation and removal has the qualifications pertaining to this refrigerant handling and piping work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to refrigerant handling and piping work on the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.</li> <li>The qualified installer who is allowed to work at heights has been trained in matters relating to working at heights with the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.</li> </ul>
Qualified service person	<ul style="list-style-type: none"> <li>The qualified service person is a person who installs, repairs, maintains, relocates and removes the air conditioners made by Toshiba Carrier Corporation. He or she has been trained to install, repair, maintain, relocate and remove the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such operations by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to these operations.</li> <li>The qualified service person who is allowed to do the electrical work involved in installation, repair, relocation and removal has the qualifications pertaining to this electrical work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to electrical work on the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.</li> <li>The qualified service person who is allowed to do the refrigerant handling and piping work involved in installation, repair, relocation and removal has the qualifications pertaining to this refrigerant handling and piping work as stipulated by the local laws and regulations, and he or she is a person who has been trained in matters relating to refrigerant handling and piping work on the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.</li> <li>The qualified service person who is allowed to work at heights has been trained in matters relating to working at heights with the air conditioners made by Toshiba Carrier Corporation or, alternatively, he or she has been instructed in such matters by an individual or individuals who have been trained and is thus thoroughly acquainted with the knowledge related to this work.</li> </ul>

## ■ Warning indications on the air conditioner unit

Warning indication		Description
 <p><b>WARNING</b> <b>ELECTRICAL SHOCK HAZARD</b> Disconnect all remote electric power supplies before servicing.</p>	<p><b>WARNING</b> <b>ELECTRICAL SHOCK HAZARD</b> Disconnect all remote electric power supplies before servicing.</p>	
 <p><b>WARNING</b> Moving parts. Do not operate unit with grille removed. Stop the unit before the servicing.</p>	<p><b>WARNING</b> Moving parts. Do not operate unit with grille removed. Stop the unit before the servicing.</p>	
 <p><b>CAUTION</b> High temperature parts. You might get burned when removing this panel.</p>	<p><b>CAUTION</b> High temperature parts. You might get burned when removing this panel.</p>	
 <p><b>CAUTION</b> Do not touch the aluminum fins of the unit. Doing so may result in injury.</p>	<p><b>CAUTION</b> Do not touch the aluminum fins of the unit. Doing so may result in injury.</p>	
 <p><b>CAUTION</b> <b>BURST HAZARD</b> Open the service valves before the operation, otherwise there might be the burst.</p>	<p><b>CAUTION</b> <b>BURST HAZARD</b> Open the service valves before the operation, otherwise there might be the burst.</p>	

# 1 Precautions for safety

The manufacturer shall not assume any liability for the damage caused by not observing the description of this manual.

## WARNING

### General

- Carefully read Owner's Manual before starting the air conditioner. There are many important things to keep in mind for daily operation.
- Ask for installation to be performed by the dealer or a professional. Only a qualified installer (\*1) is able to install an air conditioner. If a non-qualified person installs an air conditioner, it may result in problems such as fire, electric shock, injury, water leakage, noise and vibration.
- Do not use any refrigerant different from the one specified for complement or replacement. Otherwise, abnormally high pressure may be generated in the refrigeration cycle, which may result in a failure or explosion of the product or an injury to your body.
- Places where the operation sound of the outdoor unit may cause a disturbance. (Especially at the boundary line with a neighbour, install the air conditioner while considering the noise.)

### Transportation and storage

- To transport the air conditioner, wear shoes with protective toe caps, protective gloves, and other protective clothing.
- To transport the air conditioner, do not take hold of the bands around the packing carton. You may injure yourself if the bands should break.
- Before stacking the packing cartons for storage or transportation, heed the precautions written on the packing cartons. Failure to heed the precautions may cause the stack to collapse.
- The air conditioner must be transported in stable condition. If any part of the product broken, contact your dealer.
- When the air conditioner must be transported by hand, carry it by two or more people.

### Installation

- Only a qualified installer(\*1) or qualified service person(\*1) is allowed to carry out the electrical work of the air conditioner. Under no circumstances must this work be done by an unqualified individual since failure to carry out the work properly may result in electric shocks and / or electrical leaks.
- After the installation work has been completed, have the installer explain about the circuit breaker positions. In the event that trouble has occurred in the air conditioner, set the circuit breaker to the OFF position, and contact a service person.
- If the unit is installed in a small room, take appropriate measures to prevent the refrigerant from exceeding the limit concentration even if it leaks. Consult the dealer from whom you purchased the air conditioner when you implement the measures. Accumulation of highly concentrated refrigerant may cause an oxygen deficiency accident.
- Do not install the air conditioner in a location that may be subject to a risk of expire to a combustible gas. If a combustible gas leaks and becomes concentrated around the unit, a fire may occur.
- Use the company-specified products for the separately purchased parts. Use of non-specified products may result in fire, electric shock, water leakage or other trouble. Have the installation performed by a professional.
- Confirm that earthing is performed correctly.

### Operation

- Before opening the intake grille of the indoor unit or service panel of the outdoor unit, set the circuit breaker to the OFF position. Failure to set the circuit breaker to the OFF position may result in electric shocks through contact with the interior parts. Only a qualified installer(\*1) or qualified service person(\*1) is allowed to remove the intake grille of the indoor unit or service panel of the outdoor unit and do the work required.
- Inside the air conditioner are high-voltage areas and rotating parts. Due to the danger of electric shocks or of your fingers or physical objects becoming trapped in the rotating parts, do not remove service panel of the outdoor unit. When work involving the removal of these parts is required, contact a qualified installer or a qualified service person.
- Do not move or repair any unit by yourself. Since there is high voltage inside the unit, you may get electric shock when removing the cover and main unit.
- Use of a stand more than 50 cm high to clean the filter of the indoor unit or to carry out other such jobs constitutes working at heights. Due to the danger of falling off the stand and injuring yourself while working at heights, this kind of work should not be done by unqualified individuals. When this kind of work must be carried out, do not do it yourself but ask a qualified installer or a qualified service person to do it for you.
- Do not touch the aluminum fin of the outdoor unit. You may injure yourself if you do so. If the fin must be touched, do not touch it yourself but contact a qualified installer or a qualified service person.
- Do not climb onto or place objects on top of the outdoor unit. You may fall or the objects may fall off of the outdoor unit and result in injury.
- Do not place any combustion appliance in a place where it is directly exposed to the wind of air conditioner, otherwise it may cause imperfect combustion.
- When the air conditioner is operated with a combustion appliance in the same place, ventilate the room sufficiently. Poor ventilation causes oxygen shortage.
- When the air conditioner is used in a closed room, sufficiently ventilate the room. Poor ventilation causes oxygen shortage.
- Do not expose your body to cool air directly for a long time and do not cool yourself excessively. Doing so may result in deteriorated physical condition and ill health.
- Do not insert your finger or a stick into the air intake or discharge. Doing so may result injury as the fan is rotating at high speed inside the unit.

- Consult the shop where you purchased the air conditioner if air conditioning (cooling and heating) is not performed properly as a refrigerant leakage may be the cause. Confirm the repair details with a qualified service person(\*1) when the repair includes additional charging of the refrigerant.
- Stop running the air conditioner and turn off the breaker before cleaning. Otherwise, injury may result as the fan is rotating at high speed inside the unit.

**Repairs**

- If there is any kind of trouble (such as when an error display has appeared, there is a smell of burning, abnormal sounds are heard, the air conditioner fails to cool or heat or water is leaking) has occurred in the air conditioner, do not touch the air conditioner yourself but set the circuit breaker to the OFF position, and contact a qualified service person. Take steps to ensure that the power will not be turned on (by marking "out of service" near the circuit breaker, for instance) until qualified service person arrives. Continuing to use the air conditioner in the trouble status may cause mechanical problems to escalate or result in electric shocks or other trouble.
- If the fan grille is damaged, do not approach the outdoor unit but set the circuit breaker to the OFF position, and contact a qualified service person to have the repairs done. Do not set the circuit breaker to the ON position until the repairs are completed.
- If there is a danger of the indoor unit's falling, do not approach the indoor unit but set the circuit breaker to the OFF position, and contact a qualified installer or a qualified service person to refit the unit. Do not set the circuit breaker to the ON position until the unit has been refitted.
- If there is a danger of the outdoor unit's toppling over, do not approach the outdoor unit but set the circuit breaker to the OFF position, and contact a qualified installer or a qualified service person to have the improvements or refitting done. Do not set the circuit breaker to the ON position until the improvements or refitting is completed.
- Do not customize the unit. Doing so may result in fire, electric shock or other trouble.

**Relocation**

- When the air conditioner is to be relocated, do not relocate it yourself but contact a qualified installer or a qualified service person. Failure to relocate the air conditioner properly may result in electric shocks and / or a fire.

**CAUTION**

**To disconnect the appliance from the mains supply.**

- This appliance must be connected to the mains by means of a switch with a contact separation of at least 3 mm.

**The installation fuse (all types can be used) must be used for the power supply line of this air conditioner.**

**Installation**

- Certainly lay the drain hose for perfect draining. Improper drainage may cause flooding in the house and getting furniture wet.
- Connect the air conditioner to an exclusive power supply of the rated voltage, otherwise the unit may break down or cause a fire.
- Confirm that the outdoor unit are fixed on the base. Otherwise, falling down of the units or other accidents may occur.










**Operation**


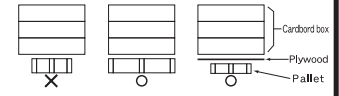
- Do not use this air conditioner for special purpose such as preserving food, precision instruments, art objects, breeding animals, car, vessel.
- Do not touch any switches with wet finger, otherwise you may get an electric shock.
- If the air conditioner will not be used for a considerably long time, turn off the main switch or the circuit breaker, for safety.
- To make the air conditioner operate in its original performance, operate it within the range of the operating temperature specified in the instructions. Otherwise it may cause a malfunction, or water leak from the unit.
- Prevent any liquid from falling into the remote controller. Do not spill juice, water or any kind of liquid.
- Do not wash the air conditioner. Doing so may result in electric shock.
- Check whether the installation base and other equipment have become deteriorated after being used for a long time. Leaving them such condition may result in the unit's falling down and causing injury.
- Do not leave flammable sprays or other flammable materials near the air conditioner, and do not spray flammable aerosol directly to the air conditioner. They may catch fire.
- Stop running the air conditioner and turn off the breaker before cleaning. Otherwise, injury may result as the fan is rotating at high speed inside the unit.
- Ask for cleaning of the air conditioner to be performed by the dealer. Cleaning the air conditioner in an improper manner may cause damage to plastic parts, insulation failure of electric parts or other parts, and result in a malfunction. In the worst case, it may result in water leakage, electric shock, smoke emission or fire.
- Do not put a water container such as a vase on the unit. Water intrusion into the unit may occur and it may cause deterioration of electric insulation and result in electric shock.

(\*1) Refer to the "Definition of Qualified Installer or Qualified Service Person."

**Information on the transportation, handling and storage of the carton**

**Examples of indication on the carton**

Symbol	Description	Symbol	Description
	Keep dry		Do not drop
	Fragile		Do not lay down
	Stacking height (12 cartons can be stacked in this case)		Do not walk on this carton
	This side up		Do not step
	Handle with care		

Other cautions	Description
 <div style="border: 1px solid black; padding: 5px; margin-left: 10px;"> <p><b>Caution</b></p> <p>Injury possibility. Don't handle with packing band, or may get injured in case of broken band.</p> </div>	<p><b>CAUTION</b></p> <p>Injury possibility. Don't handle with packing band, or may get injured in case of broken band.</p>
<div style="border: 1px solid black; padding: 5px;"> <p><b>Stacking notice.</b></p> <p>In case that cardboard boxes protrude out of pallet when stacking, lay a 10mm thick plywood over the pallet.</p>  </div>	<p><b>Stacking notice.</b></p> <p>In case that cardboard boxes protrude out of pallet when stacking. Lay a 10 mm thick plywood over the pallet.</p>

Merci d'avoir acheté ce climatiseur Toshiba.

Veuillez lire attentivement ces instructions qui contiennent des informations importantes qui sont conformes à la directive « Machines » (Directive 2006/42/EC), et assurez-vous de bien les comprendre.

Après avoir lu ces instructions, veuillez à les conserver en lieu sûr avec le Manuel du propriétaire et le Manuel d'installation fournis avec votre produit.

**Dénomination générique : Climatiseur**






**Définition d'un Installateur qualifié ou Technicien d'entretien qualifié**

Le climatiseur doit être installé, entretenu, réparé et enlevé par un installateur qualifié ou une personne d'entretien qualifiée. Lorsqu'une de ces opérations doit être effectuée, demandez à un installateur qualifié ou un technicien d'entretien qualifié de les exécuter pour vous.

Un installateur qualifié ou technicien d'entretien qualifié est un agent qui a les qualifications et connaissances décrites dans le tableau ci-dessous.

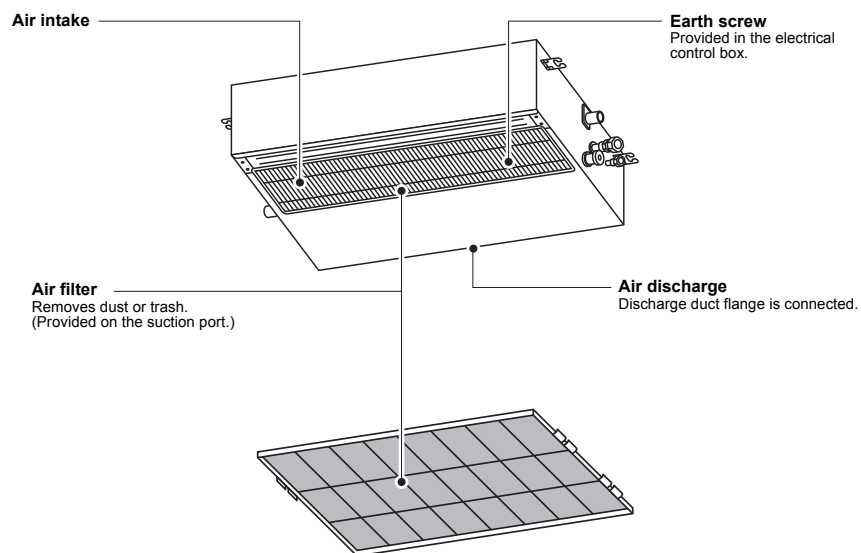
Agent	Qualifications et connaissances que cet agent doit posséder
Installateur qualifié	<ul style="list-style-type: none"> <li>L'installateur qualifié est une personne qui installe, entretient, déplace et enlève les climatiseurs fabriqués par Toshiba Carrier Corporation. Il ou elle a été formé pour installer, entretenir, déplacer et enlever les climatiseurs fabriqués par Toshiba Carrier Corporation ou, alternativement, il ou elle a reçu des consignes concernant de telles opérations par une ou des personnes qui ont été formées et a, par conséquent, acquis toutes les connaissances associées à ces opérations.</li> <li>L'installateur qualifié qui est autorisé à effectuer un travail électrique compris dans l'installation, le déplacement et l'enlèvement possède les qualifications nécessaires à ce travail électrique conformément aux réglementations et à la législation locales, et il ou elle est une personne qui a été formée pour les problèmes relatifs au travail électrique sur les climatiseurs fabriqués par Toshiba Carrier Corporation ou, alternativement, il ou elle a reçu des consignes dans de tels domaines par une ou des personnes qui ont été formées et possèdent, par conséquent, les connaissances relatives à ce travail.</li> <li>L'installateur qualifié qui est autorisé à manipuler du fluide frigorigène et à réaliser un travail de raccordement compris dans l'installation, le déplacement et l'enlèvement possède les qualifications nécessaires à cette manipulation de fluide frigorigène et de ce travail de raccordement conformément aux réglementations et à la législation locales, et il ou elle est une personne qui a été formée pour les problèmes relatifs à la manipulation de fluide frigorigène et de travail de raccordement sur les climatiseurs fabriqués par Toshiba Carrier Corporation ou, alternativement, il ou elle a reçu des consignes dans de tels domaines par une ou des personnes qui ont été formées et possèdent, par conséquent, les connaissances relatives à ce travail.</li> <li>L'installateur qualifié qui est autorisé à travailler en hauteur a été formé aux domaines relatifs au travail en hauteur avec les climatiseurs fabriqués par Toshiba Carrier Corporation ou, alternativement, il ou elle a reçu des consignes dans de tels domaines par une ou des personnes qui ont été formées et possède, par conséquent, toutes les connaissances requises pour ce travail.</li> </ul>
Technicien d'entretien qualifié	<ul style="list-style-type: none"> <li>La personne d'entretien qualifiée est une personne qui installe, répare, entretient, déplace et enlève les climatiseurs fabriqués par Toshiba Carrier Corporation. Il ou elle a été formé pour installer, réparer, entretenir, déplacer et enlever les climatiseurs fabriqués par Toshiba Carrier Corporation ou, alternativement, il ou elle a reçu des consignes pour de telles opérations par une ou des personnes qui ont été formées et a, par conséquent, acquis toutes les connaissances associées à ces opérations.</li> <li>La personne d'entretien qualifiée qui est autorisée à effectuer un travail électrique compris dans l'installation, la réparation, le déplacement et l'enlèvement possède les qualifications nécessaires à ce travail électrique conformément aux réglementations et à la législation locales, et il ou elle est une personne qui a été formée pour les problèmes relatifs au travail électrique sur les climatiseurs fabriqués par Toshiba Carrier Corporation ou, alternativement, il ou elle a reçu des consignes dans de tels domaines par une ou des personnes qui ont été formées et possèdent, par conséquent, les connaissances relatives à ce travail.</li> <li>La personne d'entretien qualifiée qui est autorisée à manipuler du fluide frigorigène et à réaliser un travail de raccordement compris dans l'installation, la réparation, le déplacement et l'enlèvement possède les qualifications nécessaires à cette manipulation de fluide frigorigène et de ce travail de raccordement conformément aux réglementations et à la législation locales, et il ou elle est une personne qui a été formée pour les problèmes relatifs à la manipulation de fluide frigorigène et de travail de raccordement sur les climatiseurs fabriqués par Toshiba Carrier Corporation ou, alternativement, il ou elle a reçu des consignes dans de tels domaines par une ou des personnes qui ont été formées et possèdent, par conséquent, les connaissances relatives à ce travail.</li> <li>La personne d'entretien qualifiée qui est autorisée à travailler en hauteur a été formée aux domaines relatifs au travail en hauteur avec les climatiseurs fabriqués par Toshiba Carrier Corporation ou, alternativement, il ou elle a reçu des consignes dans de tels domaines par un ou des personnes qui ont été formées et possèdent, par conséquent, toutes les connaissances requises pour ce travail.</li> </ul>

**■ Avertissements apposés sur le climatiseur**

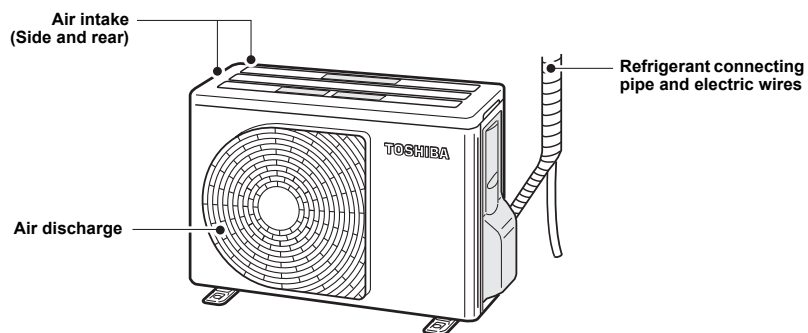
Indication d'avertissement	Description		
 <table border="1"> <tr> <td><b>WARNING</b></td> </tr> <tr> <td><b>ELECTRICAL SHOCK HAZARD</b> Disconnect all remote electric power supplies before servicing.</td> </tr> </table>	<b>WARNING</b>	<b>ELECTRICAL SHOCK HAZARD</b> Disconnect all remote electric power supplies before servicing.	<p><b>AVERTISSEMENT</b></p> <p><b>RISQUE DE DECHARGE ELECTRIQUE</b> Débranchez toutes les alimentations électriques distantes avant l'entretien.</p>
<b>WARNING</b>			
<b>ELECTRICAL SHOCK HAZARD</b> Disconnect all remote electric power supplies before servicing.			
 <table border="1"> <tr> <td><b>WARNING</b></td> </tr> <tr> <td>Moving parts. Do not operate unit with grille removed. Stop the unit before the servicing.</td> </tr> </table>	<b>WARNING</b>	Moving parts. Do not operate unit with grille removed. Stop the unit before the servicing.	<p><b>AVERTISSEMENT</b></p> <p>Pièces mobiles. Ne faites pas fonctionner l'unité avec la grille déposée. Arrêtez l'unité avant l'entretien.</p>
<b>WARNING</b>			
Moving parts. Do not operate unit with grille removed. Stop the unit before the servicing.			
 <table border="1"> <tr> <td><b>CAUTION</b></td> </tr> <tr> <td>High temperature parts. You might get burned when removing this panel.</td> </tr> </table>	<b>CAUTION</b>	High temperature parts. You might get burned when removing this panel.	<p><b>PRÉCAUTION</b></p> <p>Pièces à haute température. Vous pourriez vous brûler en déposant ce panneau.</p>
<b>CAUTION</b>			
High temperature parts. You might get burned when removing this panel.			
 <table border="1"> <tr> <td><b>CAUTION</b></td> </tr> <tr> <td>Do not touch the aluminum fins of the unit. Doing so may result in injury.</td> </tr> </table>	<b>CAUTION</b>	Do not touch the aluminum fins of the unit. Doing so may result in injury.	<p><b>PRÉCAUTION</b></p> <p>Ne touchez pas les ailettes en aluminium de l'unité. Vous pourriez vous blesser.</p>
<b>CAUTION</b>			
Do not touch the aluminum fins of the unit. Doing so may result in injury.			
 <table border="1"> <tr> <td><b>CAUTION</b></td> </tr> <tr> <td><b>BURST HAZARD</b> Open the service valves before the operation, otherwise there might be the burst.</td> </tr> </table>	<b>CAUTION</b>	<b>BURST HAZARD</b> Open the service valves before the operation, otherwise there might be the burst.	<p><b>PRÉCAUTION</b></p> <p><b>RISQUE D'EXPLOSION</b> Ouvrez les soupapes de service avant l'opération, sinon un éclatement pourrait se produire.</p>
<b>CAUTION</b>			
<b>BURST HAZARD</b> Open the service valves before the operation, otherwise there might be the burst.			

## 2 Parts name

### ■ Indoor unit



### ■ Outdoor unit



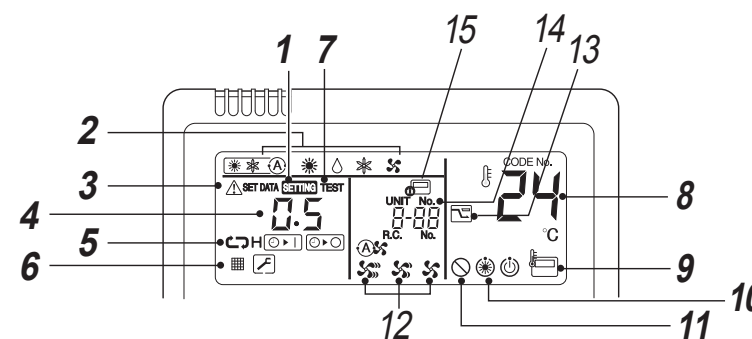
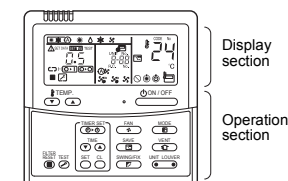
## 3 Wired remote controller

This remote controller can control the operation of up to 8 indoor units.

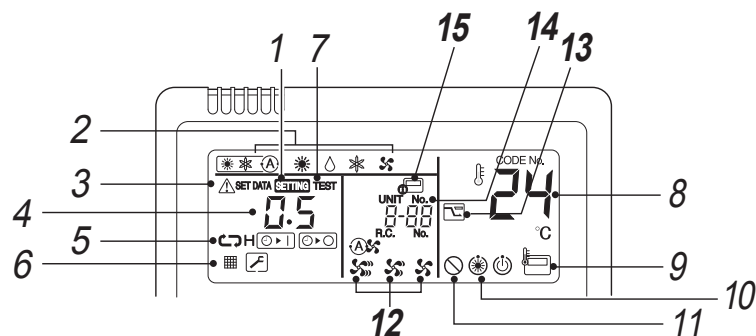
### ■ Display section

In the display illustration below all the icons are shown. When the unit is in operation, only relevant icons will be displayed.

- When the leak breaker is turned on at the first time, **SETTING** flashes on the display part of the remote controller.
- While this icon is flashing, the model is being automatically confirmed. Wait till **SETTING** icon has disappeared to use the remote controller.



- 1 SETTING display**  
Displayed while the protective device works or an error occurs.
- 2 Operation mode**  
The selected operation mode is displayed.
- 3 Error display**  
Displayed while the protective device works or an error occurs.
- 4 Timer display**  
Time of the timer is displayed.  
(When an error occurs, the check code is displayed.)
- 5 Timer SET IN setup display**  
The selected timer mode is displayed.
- 6 Filter display**  
Rewinder to clean the air filter.
- 7 TEST run display**  
Displayed during a test run.
- 8 Set temperature display**  
The selected set temperature is displayed.
- 9 Remote controller sensor display**  
Displayed while the sensor of the remote controller is used.
- 10 Pre-heat display**  
Displayed when the heating mode is energized or defrost cycle is initiated.  
While this icon is displayed, the indoor fan stops.
- 11 No function display**  
Displayed when the function requested is not available on that mode.



**12 Fan speed display**

The selected fan speed mode is displayed.

- (AUTO)
- (HIGH)
- (MED.)
- (LOW)

**13 Power saving mode display**

Limits compressor speed (capacity) to save energy.

**14 UNIT No. display**

Displays the number of the indoor unit selected.  
Also displays error code of indoor and outdoor units.

**15 Central control display**

Displayed when the air conditioner is used under the central control in combination with a central control remote controller.

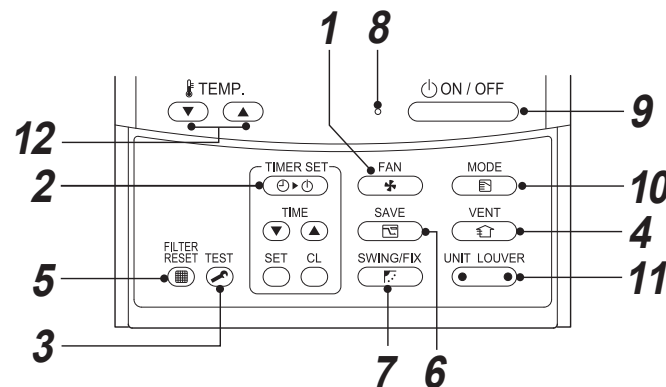
In case the remote controller is disabled by the central control system, flashes.  
The button operation is not accepted.

Even when you push ON/OFF, MODE, or TEMP. button, and the button operation is not accepted. (Settings made by the remote controller vary with the central control mode. For details, refer to the Owner's Manual of the central control remote controller.)

■ **Operation section**

Push each button to select a desired operation.

- The details of the operation needs to be set up once, afterward, the air conditioner can be used by pushing button only.



**1 FAN button (Fan speed button)**

Selects the desired fan speed.

**2 TIMER SET button (Timer set button)**

Use to set up the timer.

**3 TEST button (Test button)**

Use only for service. (During normal operation, do not use this button)

**4 VENT button (Ventilation button)**

If "No function" is displayed on the remote controller when pushing the Ventilation button, a fan is not connected.

**5 FILTER RESET button (Filter reset button)**

Resets (Erases) "FILTER" display.

**6 SAVE button (Power save operation)**

SAVE button is used for power save operation.

**7 SWING/FIX button (Swing/Wind direction button)**

No Function.

**8 Operation lamp**

Lamp is lit during the operation. Lamp is off when stopped.

Although it flashes when operating the protection device or abnormal time.

**9 ON/OFF button**

When the button is pushed, the operation starts, and it stops by pushing the button again.

When the operation has stopped, the operation lamp and all the displays disappear.

**10 MODE button (Operation select button)**

Selects desired operation mode.

**11 UNIT LOUVER button (Unit/Louver select button)**

Selects a unit number (left) and louver number (right).

**UNIT:**

Selects an indoor unit when adjusting wind direction

when multiple indoor units are controlled with one remote controller.

**LOUVER:**

No Function.

**12 TEMP. button (Set up temperature button)**

Adjusts the room temperature.


Set the desired set temperature by pushing or .

**OPTION:**

**Remote controller sensor**

Usually the TEMP. sensor of the indoor unit senses the temperature. The temperature on the surrounding of the remote controller can also be sensed. For details, contact the dealer from which you have purchased the air conditioner.

# 4 Correct usage

When you use the air conditioner for the first time or when you change the SET DATA value, follow the procedure below. From the next time, the operation displayed on the remote controller will start by pushing the  button only.

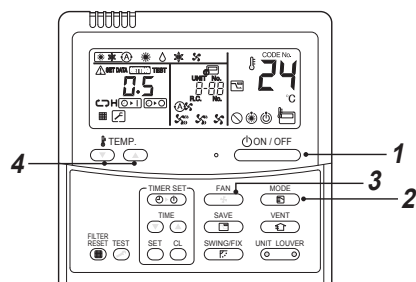
## ■ Preparation

Turn on the main power switch and/or the leakage breaker.



- When the power supply is turned on, a partition line is displayed on the display part of the remote controller.
- After the power supply is turned on, the remote controller does not accept an operation for approx. 1 minute, but it is not a failure.

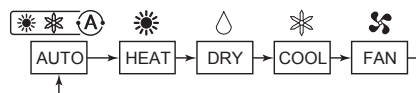
### REQUIREMENT


- While using the air conditioner, operate it only with  button without turning off the main power switch and the leak breaker.
- When you use the air conditioner after it has not been used for a long period, turn on the leakage breaker at least 12 hours before starting operation.








### Start



- 1 Push  button.**  
The operation lamp goes on, and the operation starts.
- 2 Select an operation mode with the "MODE  " button.**  
One push of the button, and the display changes in the order shown as follows.




- 3 Select air volume with "  " button.**  
One push of the button, and the display changes in the order shown as follows.



- When air volume is "  AUTO", air volume differs according to the room temperature.
- In heating operation, if the room temperature is not heated sufficiently with VOLUME "  LOW" operation, select "  MED." or "  HIGH" operation.
- The temperature sensor senses temperature near the suction air port of the indoor unit, which differs from the room temperature depending on the installation condition.  
A value of setting temperature is the measure of room temperature.  
("AUTO  " is not selectable in the FAN mode.)

- 4 Determine the set up temperature by pushing the "TEMP.  " or "TEMP.  " button.**

### Stop

- 1 Push  button.**  
The operation lamp goes off, and the operation stops.


### In case of automatic operation (Auto Changeover)

- Because of some settings change, it will automatically select either cooling, heating, or fan only operation depending on the indoor temperature.
- If the Auto mode is uncomfortable, you can select the desired conditions manually.

### In case of cooling

- Start the cooling operation after approx. 1 minute.

### In case of heating

- The heating operation mode is selected in accordance with the room temperature and operation starts after approximately 3 to 5 minutes.
- After the heating operation has stopped, FAN operation may continue for approx. 30 seconds.
- When the room temperature reaches the set temperature and the outdoor unit stops, the super low wind is discharged and the air volume decreases excessively.  
During defrost operation, the fan stops so that cool air is not discharged. ("HEAT READY  " is displayed.)
- When the room temperature has reached the set temperature while the outdoor unit is stopping, the indoor unit discharges wind with a very small air volume.

### NOTE

#### When restarting the operation after stop



When restarting the operation immediately after stop, the air conditioner does not operate for approx. 3 minutes to protect the machine.

## ■ 8°C OPERATION (For object pre-heating) (SDI series 4 and DI series 4 (RAV-SP\*\*\*4AT / RAV-SM\*\*\*4AT) only)


The air conditioner can control the heating temperature to about 8°C in the heating mode.

The 8°C heating operation requires settings with the wired remote controller. Ask the installer or dealer for the settings according to the installation manual of the indoor unit.

### Start

- 1 Set the displayed temperature to 18°C in the heating mode by pushing TEMP.  button.**
- 2 Set the displayed temperature to 8°C by pushing TEMP.  button for at least four seconds.**



### Stop

- 1 Set the displayed temperature to 18°C by pushing TEMP.  button.**  
The air conditioner returns to the normal HEAT mode. Select a desired temperature and operation mode.

### NOTE

- The discharged air temperature is lower than that in the normal heating operation.
- The room temperature may not be heated evenly depending on the remote controller installation location.
- The room temperature may not reach 8°C depending on the room size or the installation conditions.
- The air volume setting is available during the 8°C heating operation.

The 8°C heating operation is cancelled in the following cases.

- When operation is stopped with  button
- When another operation mode is selected with  button
- When temperature setting or operation mode is changed or operation is started/stopped by the wireless remote controller or the central control remote controller.
- If one or more models other than the 4-way air discharge cassette type (4 series), slim duct are connected in the same control group, the 8°C heating operation is not available.
- This function is not available for SM56 that has 2-series outdoor unit.
- When you use this operation mode, observe proper operating hours and we recommend that you ask service staff for periodic maintenance of the air conditioner.

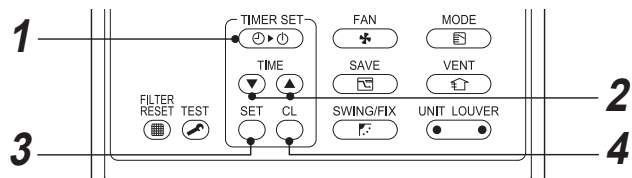


## 5 Timer operation

A type of timer operation can be selected from the following three types. (Setting of up to 168 hours is enabled.)

- OFF timer : The operation stops when the time of timer has reached the set time.
- Repeat OFF timer : Every time, the operation stops after the set time has passed.
- ON timer : The operation starts when the time of timer has reached the set time.

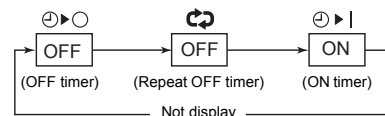
### ■ Timer operation



#### Set

##### 1 Push TIMER SET button.

The timer display (type) changes for every push of the button.



- **SETTING** and timer time displays flash.

##### 2 Push **TIME** to select "SET TIME".

- For every push of **▲** button, the set time increases in the unit of 0.5 hr (30 minutes).  
When setting a time more than 24 hours for timer operation, timer time can be set in the unit of 1 hr. The maximum set time is 168hr (7 days).  
The remote controller displays the set time with time (between 0.5 and 23.5 hours) (\*1) or number of days and time (24 hours or more) (\*2) as shown below.
- For every push of **▼** button, the set time decreases in the unit of 0.5 hr (30 minutes) (0.5 to 23.5 hours) or 1 hr (24 to 168 hours).

#### Example of remote controller display

- In the case of 23.5 hours (\*1)



- In the case of 34 hours (\*2)



Number of days Time

1d shows 1 day (24 hours).

10h shows 10 hours. (Total 34 hours)

##### 3 Push SET button.

**SETTING** display disappears and timer time display goes on, and **▶|** or **▶○** display flashes.  
(When ON timer is activated, timer time, ON timer **▶|** are displayed and other displays disappear.)

##### 4 Cancel of timer operation

Push **○** button.  
TIMER display disappears.

#### NOTE

- When the operation stops after the timer reached the preset time, the Repeat OFF timer resumes the operation by pushing **ON/OFF** button and stops the operation after the time of the timer has reached the set time.
- When you push **SWING/FIX** while the OFF timer function of the air conditioner is active, the indication of the timer function disappears and then appears again after about 5 seconds.  
This is due to normal processing of the remote controller.

## 6 Power saving mode

The power saving mode saves energy by limiting the maximum current which will effect heating or cooling capacity that the unit can generate.

#### Push **SAVE** button during operation.

- The air conditioner enters power saving mode.
- **SAVE** appears on the display.

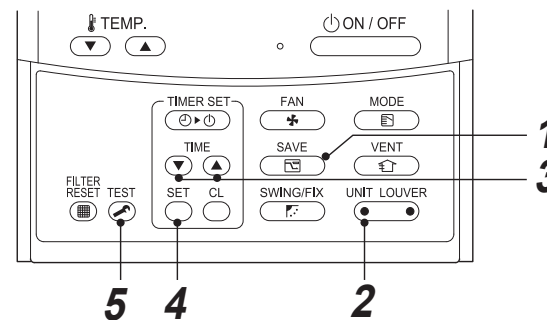
Power saving mode will stay in effect until it is cancelled.

To cancel the power saving mode, push **SAVE** button again.

- **SAVE** disappears.

### ■ To configure the power saving mode settings

When RAV-SP\*\*\*2AT / RAV-SM\*\*\*3AT or older is used, the displayed setting changes, but the actual power level is always "75 %".

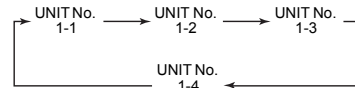


##### 1 Push **SAVE** button for at least four seconds when the air conditioner is not working.

**SETTING**, symbol, and numbers flash.

##### 2 Push **UNIT LOUVER** (left side of the button) to select an indoor unit to be set.

Each time the button is pushed, UNIT No. change as follows:



The fan of the selected unit runs.

# 7 Maintenance

## ⚠ WARNING

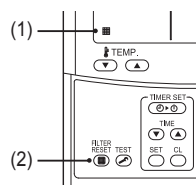
Cleaning the air filter and other parts of the air filter involves dangerous work in high places, so be sure to have a qualified installer or qualified service person to do it.

Do not attempt it by yourself.

After the cooling or dry auto (cooling) operation has finished, the dry operation is performed and the fan starts running. When cleaning the unit, stop the drying operation forcibly and turn off the circuit breaker to avoid electric shock.

### Cleaning air filters

Clogged air filters will reduce the cooling and heating performance.



(1) If "■" is displayed on the remote controller, clean the air filters.

(2) When the cleaning of air filters has been completed, push button. "■" disappears.

### ◆ When the unit will not be used for a long time

- 1 Perform the fan operation for a couple of hours to dry inside.
- 2 Press on the remote controller to stop running, and turn off the circuit breaker.
- 3 Clean the air filters and reinstall them.

### ◆ Before the cooling season

#### Clean the drain pan

Contact the dealer where you purchased the product.

(Drain does not work if the drain pan or vent is clogged. In some cases the drain may overflow and wet the wall or floor. Be sure to clean the drain pan before the cooling season.)

### ◆ Check periodically

- If the unit is used for a long time, parts may deteriorate and cause malfunction or bad drainage of dehumidified water depending on the heat, humidity, or dust.
- In addition to the usual maintenance, it is recommended that you have the unit checked and maintained by the dealer where you purchased it.

### NOTE

For environmental conservation, it is strongly recommended that the indoor and outdoor units of the air conditioner in use be cleaned and maintained regularly to ensure efficient operation of the air conditioner.

When the air conditioner is operated for a long time, periodic maintenance (once a year) is recommended.

Furthermore, regularly check the outdoor unit for rust and scratches, and remove them or apply rustproof treatment, if necessary.

As a general rule, when an indoor unit is operated for 8 hours or more daily, clean the indoor unit and outdoor unit at least once every 3 months. Ask a professional for this cleaning / maintenance work.

Such maintenance can extend the life of the product though it involves the owner's expense.

Failure to clean the indoor and outdoor units regularly will result in poor performance, freezing, water leakage, and even compressor failure.

### Maintenance List

Part	Unit	Check (visual / auditory)	Maintenance
Heat exchanger	Indoor / outdoor	Dust / dirt clogging, scratches	Wash the heat exchanger when it is clogged.
Fan motor	Indoor / outdoor	Sound	Take appropriate measures when abnormal sound is generated.
Filter	Indoor	Dust / dirt, breakage	<ul style="list-style-type: none"> <li>• Wash the filter with water when it is contaminated.</li> <li>• Replace it when it is damaged.</li> </ul>
Fan	Indoor	<ul style="list-style-type: none"> <li>• Vibration, balance</li> <li>• Dust / dirt, appearance</li> </ul>	<ul style="list-style-type: none"> <li>• Replace the fan when vibration or balance is terrible.</li> <li>• Brush or wash the fan when it is contaminated.</li> </ul>
Air intake / discharge grilles	Indoor / outdoor	Dust / dirt, scratches	Fix or replace them when they are deformed or damaged.
Drain pan	Indoor	Dust / dirt clogging, drain contamination	Clean the drain pan and check the downward slope for smooth drainage.
Ornamental panel, louvers	Indoor	Dust / dirt, scratches	Wash them when they are contaminated or apply repair coating.
Exterior	Outdoor	<ul style="list-style-type: none"> <li>• Rust, peeling of insulator</li> <li>• Peeling / lift of coat</li> </ul>	Apply repair coating.

# 8 Troubleshooting

Check the points described below before requesting repair.

	Symptom	Cause
It is not a malfunction.	Outdoor unit <ul style="list-style-type: none"> <li>White, misty, cold air or water comes out</li> <li>Sometimes the noise of air leaking is heard.</li> <li>A noise is heard when the power is turned on.</li> </ul>	<ul style="list-style-type: none"> <li>The fan of the outdoor unit is automatically stopped and defrosting is performed.</li> <li>The solenoid valve works when defrosting starts or stops.</li> <li>The outdoor unit is preparing for running.</li> </ul>
	Indoor unit <ul style="list-style-type: none"> <li>Sometimes a swishing is heard.</li> <li>A clacking sound is heard.</li> <li>Discharged air smells unusual.</li> </ul>	<ul style="list-style-type: none"> <li>When the unit starts running, during operation, or immediately after the unit stops running, a sound such as water flowing may be heard, or the operation sound may become louder for a couple of minutes immediately after the unit starts running. This is the sound of the refrigerant flowing or the dehumidifier draining.</li> <li>This is a sound generated when the heat exchanger, etc. expands and contracts slightly due to temperature change.</li> <li>Various smells from the walls, carpet, clothes, cigarette, cosmetics, etc. adhere to the air conditioner.</li> </ul>
	<ul style="list-style-type: none"> <li>The unit does not run</li> </ul>	<ul style="list-style-type: none"> <li>Has a blackout occurred?</li> <li>Has the circuit breaker blown?</li> <li>Has the protective device been activated? (The operation indicator and  on the remote controller are blinking.)</li> </ul>
Check again.	The room does not cool down or warm up.	<ul style="list-style-type: none"> <li>Is the air intake or discharge of the outdoor unit clogged?</li> <li>Is a door or window open?</li> <li>Is the air filter clogged with dust?</li> <li>Is the air volume set to "Low"? Or is the operation mode set to "Fan"?</li> <li>Is the setup temperature appropriate?</li> </ul>

If there is something unusual even after checking the above, stop running the unit, turn off the circuit breaker, and inform the dealer where you purchased the product of the product number and symptom. Do not attempt to repair the unit by yourself as doing so is dangerous. If the check indicator (E0 t, F0 t, H0 t, etc.) is displayed on the remote controller LCD, inform the dealer of its content as well.

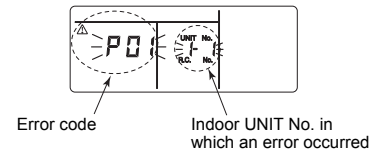
If any of the following occur, stop running the unit immediately, turn off the circuit breaker, and contact the dealer where you purchased the product.

- The switch does not work properly.
- The circuit breaker often blows out.
- You unintentionally put a foreign object or water inside.
- The unit cannot be run even after the cause of the protective device activation is removed.
- Other unusual conditions are found.

## Confirmation and check

When an error occurred in the air conditioner, an error code and indoor UNIT No. appear on the display part of the remote controller.

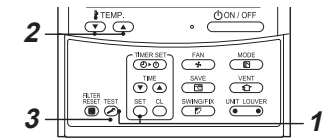
The error code is only displayed during the operation. If the display disappears, operate the air conditioner according to the following "Confirmation of error log" for confirmation.



## Confirmation of error log

When an error occurred on the air conditioner, the error log can be confirmed with the following procedure. (The error log is stored in memory up to 4 errors.)

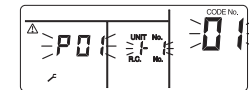
The log can be confirmed from both operating status and stop status.



**1** When and buttons are pushed at the same time for 4 seconds or more, the following display appears.

If is displayed, the mode enters in the error log mode.

- [01: Order of error log] is displayed in CODE No.
- [Error code] is displayed in CHECK.
- [Indoor unit address in which an error occurred] is displayed in Unit No.



**2** Every pushing of button used to set temperature, the error log stored in memory is displayed in order. The numbers in CODE No. indicate CODE No. [01] (latest) → [04] (oldest).

### REQUIREMENT

Do not push button because all the error log of the indoor unit will be deleted.

**3** After confirmation, push button to return to the usual display.

## 9 Operations and performance

### ▼ Check before running

- Check whether the earth wire is cut or disconnected.
- Check whether the air filter is installed.
- Turn on the circuit breaker 12 hours or more before starting operation.

### ▼ 3 minutes protection function

3-minutes protection function prevents the air conditioner from starting for initial 3 minutes after the main power switch / circuit breaker is turned on for re-starting the air conditioner.

### ▼ Power failure

Power failure during operation will stop the unit completely.

- To restart the operation, push the ON / OFF button on the remote controller.
- Lightning or a wireless car telephone operating nearby may cause the unit to malfunction. Turn off the main power switch or circuit breaker and then turn them on again. Push the ON / OFF button on the remote controller to restart.

### ▼ Defrosting operation

If the outdoor unit is frosted during the heating operation, defrosting starts automatically (for approximately 2 to 10 minutes) to maintain the heating capacity.

- The fans in both indoor and outdoor units will stop during the defrosting operation.
- During the defrosting operation, the defrosted water will be drained from the bottom plate of the outdoor unit.

### ▼ Heating capacity

In the heating operation, the heat is absorbed from the outside and brought into the room. This way of heating is called heat pump system. When the outside temperature is too low, it is recommended to use another heating apparatus in combination with the air conditioner.

### ▼ Air conditioner operating conditions

For proper performance, operate the air conditioner under the following temperature conditions:

Cooling operation	Outdoor temperature	: -15 °C to 43 °C (Dry bulb temp.)
	Room temperature	: 21 °C to 32 °C (Dry bulb temp.), 15 °C to 24 °C (Wet bulb temp.)
	<b>[CAUTION]</b>	Room relative humidity – less than 80 %. If the air conditioner operates in excess of this figure, the surface of the air conditioner may cause dewing.
Heating operation	Outdoor temperature	: -15 °C to 15 °C (Wet bulb temp.)
	Room temperature	: 15 °C to 28 °C (Dry bulb temp.)

If air conditioner is used outside of the above conditions, safety protection may work.

## 10 Installation

### ◆ Do not install the air conditioner in the following places

- Do not install the air conditioner in any place within 1 m from a TV, stereo, or radio set. If the unit is installed in such place, noise transmitted from the air conditioner affects the operation of these appliances.
- Do not install the air conditioner near a high frequency appliance (sewing machine or massager for business use, etc.), otherwise the air conditioner may malfunction.
- Do not install the air conditioner in locations where iron or other metal dust is present. If iron or other metal dust adheres to or collects on the interior of the air conditioner, it may spontaneously combust and start a fire.
- Do not install the air conditioner in a humid or oily place, or in a place where steam, soot, or corrosive gas is generated.
- Do not install the air conditioner in a salty place such as seaside area.
- Do not install the air conditioner in a place where a great deal of machine oil is used.
- Do not install the air conditioner in a place where it is usually exposed to strong wind such as in seaside area.
- Do not install the air conditioner in a place where sulfurous gas generated such as in a spa.
- Do not install the air conditioner in a vessel or mobile crane.
- Do not install the air conditioner in an acidic or alkaline atmosphere (in a hot-spring area or near a chemicals factory, or in a place subject to combustion emissions). Corrosion may be generated on the aluminum fin and copper pipe of the heat exchanger.
- Do not install the air conditioner near an obstacle (air vent, lighting equipment, etc.) that disturbs discharge air. (Turbulent airflow may reduce the performance or disable devices.)
- Do not use the air conditioner for special purposes such as preserving food, precision instruments, or art objects, or where breeding animals or growing plants are kept. (This may degrade the quality of preserved materials.)
- Do not install the air conditioner over an object that must not get wet. (Condensation may drop from the indoor unit at a humidity of 80 % or more or when the drain port is clogged.)
- Do not install the air conditioner in a place where an organic solvent is used.
- Do not install the air conditioner near a door or window subject to humid outside air. Condensation may form on the air conditioner.
- Do not install the air conditioner in a place where special spray is used frequently.

### ◆ Be careful with noise or vibrations

- Do not install the air conditioner in a place where noise by outdoor unit or hot air from its air discharge annoys your neighbors.
- Install the air conditioner on a solid and stable foundation so that it prevents transmission of resonating, operation noise and vibration.
- If one indoor unit is operating, some sound may be audible from other indoor units that are not operating.

# 11 Specifications

Model	Sound power level (dBA)		Weight (Kg)
	Cooling	Heating	
RAV-SM304SDT-E	*	*	22
RAV-SM404SDT-E	*	*	22
RAV-SM454SDT-E	*	*	22
RAV-SM564SDT-E	*	*	22

\* Under 70 dBA

## Declaration of Conformity

Manufacturer: Toshiba Carrier Corporation  
336 Tadehara, Fuji-shi, Shizuoka-ken 416-8521 JAPAN

Authorized Representative / TCF holder: Nick Ball  
Toshiba EMEA Engineering Director  
Toshiba Carrier UK Ltd.  
Porsham Close, Belliver Industrial Estate,  
PLYMOUTH, Devon, PL6 7DB.  
United Kingdom

Hereby declares that the machinery described below:

Generic Denomination: Air Conditioner

Model / type: RAV-SM304SDT-E  
RAV-SM404SDT-E  
RAV-SM454SDT-E  
RAV-SM564SDT-E

Commercial name: Digital Inverter Series / Super Digital Inverter Series Air Conditioner

Complies with the provisions of the "Machinery" Directive (Directive 2006 / 42 / EC) and the regulations transposing into national law

Complies with the provisions of the following harmonized standard:  
EN 378-2: 2008+A2:2012

### NOTE

This declaration becomes invalid if technical or operational modifications are introduced without the manufacturer's consent.

MEMO

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Information according to EMC Directive 2004/108/EC	
(Name of the manufacturer)	<b>TOSHIBA CARRIER CORPORATION</b>
(Address, city, country)	23-17 Takanawa, 3-Chome, Minatoku, Tokyo 108-8580 Japan
(Name of the Importer/Distributor in EU)	Toshiba Carrier UK Ltd.
(Address, city, country)	Porsham Close, Belliver Industrial Estate, PLYMOUTH, Devon, PL6 7DB. United Kingdom

**TOSHIBA CARRIER CORPORATION**  
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