

TOSHIBA

OWNER'S MANUAL
MANUEL DU PROPRIETAIRE
BETRIEBSANLEITUNG
MANUALE DEL PROPRIETARIO
MANUAL DEL PROPIETARIO
MANUAL DO UTILIZADOR
GEBRUIKSAANWIJZING
ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ

AIR CONDITIONER (SPLIT TYPE)
CLIMATISEUR (TYPE SPLIT)
KLIMAGERÄT (SPLIT-SYSTEM)
CONDIZIONATORE D'ARIA (TIPO MULTIAMBIENTI)
APARATO DE AIRE ACONDICIONADO (TIPO SPLIT)
AR CONDICIONADO (TIPO SPLIT)
AIRCONDITIONER (GESPLITST TYPE)
ΚΛΙΜΑΤΙΣΤΙΚΟ (ΤΥΠΟΣ SPLIT)

<High-Wall Type>/<Type mural haut>
<Wandmontierter Typ>/<Tipo a condotto nascosto>
<Modelo de pared>/<Tipo Mural>
<Hoog-Wandtype>/<Τύπος Υψηλού Τοίχου>

Heat Pump Model/Modèle à thermopompe
Geräte mit Heizung/Modello con pompa di riscaldamento
Modelo con bomba de calor/Modelo de bomba térmica
Model met warmtepomp/Μοντέλο με Αντλία Θερμότητας



Indoor Unit/Unité intérieure
Raumeinheit/Unità interna
Unidad interior/Unidade interior
Binnenunit/Εσωτερική Μονάδα

Outdoor Unit/Unité extérieure
Außengerät/Unità esterna
Unidad exterior/Unidade exterior
Buitenunit/Εξωτερική Μονάδα

RAV-SM560KRT-E
RAV-SM800KRT-E

RAV-SM560AT-E
RAV-SM800AT-E

Thank you very much for purchasing TOSHIBA Air Conditioner.
Please read this owner's manual carefully before using your Air Conditioner.
• Be sure to obtain the "Owner's manual" and "Installation manual" from constructor (or dealer).
Request to constructor or dealer
Please clearly explain the contents of the Owner's manual and hand over it.

Nous vous remercions pour avoir choisi un climatiseur TOSHIBA.
Veuillez lire attentivement ce Manuel du propriétaire avant d'utiliser votre climatiseur.
• Assurez-vous que le constructeur (ou le revendeur) vous remette le "Manuel du propriétaire" et le "Manuel d'installation".

Demande au constructeur ou au revendeur
Veuillez expliquer clairement le contenu du Manuel du propriétaire et le remettre au client.

Wir danken Ihnen, dass Sie sich für ein TOSHIBA Klimagerät entschieden haben.
Bitte lesen Sie diese Betriebsanleitung, bevor Sie Ihr Klimagerät benutzen, sorgfältig.
• Lassen Sie sich die "Betriebsanleitung" und das "Installations-Handbuch" unbedingt vom Installateur oder vom Lieferanten aushändigen.
Eine Bitte an den Installateur oder Lieferanten:
Bitte erklären Sie dem Käufer den Inhalt der Betriebsanleitung und händigen sie ihm aus.

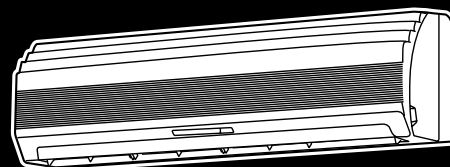
Grazie di aver acquistato un condizionatore d'aria TOSHIBA.
Prima di usare il condizionatore d'aria, leggere con attenzione questo manuale del proprietario.
• Si raccomanda di tenere a portata di mano il "Manuale del proprietario" e il "Manuale di installazione" ricevuti dal produttore (o dal rivenditore).
Richiesta al produttore o al rivenditore
Spiegare chiaramente il contenuto del Manuale del proprietario e consegnarne una copia all'utente.

Muchas gracias por haber adquirido el aparato de aire acondicionado TOSHIBA.
Lea atentamente este manual del propietario antes de utilizar el aparato de aire acondicionado.
• Asegúrese de que el fabricante (o distribuidor) le proporcione el "Manual del propietario" y el "Manual de instalación".
Solicitud al fabricante o distribuidor
Explique con claridad el contenido del Manual del propietario y entréguelo al cliente.

Muito obrigada por adquirir o Ar Condicionado TOSHIBA.
Leia atentamente este manual do utilizador antes de utilizar o seu ar condicionado.
• Não se esqueça de receber o "Manual do utilizador" e o "Manual de instalação" do fabricante (ou agente).
Pedido ao fabricante ou agente
Explique por favor o conteúdo do Manual do utilizador e entregue-o.

Hartelijk dank voor uw keuze voor een airconditioner van TOSHIBA.
Lees deze gebruiksaanwijzing zorgvuldig door voordat u de airconditioner gaat gebruiken.
• Zorg ervoor dat u zowel de 'gebruiksaanwijzing' als de 'installatiehandleiding' van de installateur (of leverancier) krijgt.
Verzoek aan de installateur of de leverancier
Leg de inhoud van de gebruiksaanwijzing duidelijk uit en overhandig de gebruiksaanwijzing nadien aan de klant.

Σας ευχαριστούμε πολύ που προτιμήσατε για την αγορά σας ένα Κλιματιστικό TOSHIBA.
Παρακαλούμε διαβάστε προσεκτικά τις οδηγίες χρήσης πριν από τη χρήση του Κλιματιστικού.
• Βεβαιωθείτε ότι ο κατασκευαστής (ή ο πωλητής) σας παρέδωσε και τις "Οδηγίες Χρήσης" και το "Εγχειρίδιο Εγκατάστασης".
Παράκληση για τον κατασκευαστή ή τον πωλητή
Παρακαλώ εξηγήστε με σαφήνεια τα περιεχόμενα των Οδηγιών Χρήσης και παραδώστε το.



ADOPTION OF NEW REFRIGERANT

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

UTILISATION DU NOUVEAU REFRIGERANT

Ce climatiseur est d'un type inédit qui utilise le nouveau réfrigérant HFC (R410A) au lieu du réfrigérant traditionnel R22, afin d'éviter la destruction de la couche d'ozone.

EINFÜHRUNG EINES NEUEN KÜHLMITTELS

Dies ist ein neuartiges Klimagerät. Anstatt des herkömmlichen Kühlmittels R22 verwendet es das neue ozonschichtschonende HFC Kühlmittel R410A.

ADOZIONE DI UN NUOVO REFRIGERANTE

Questo condizionatore d'aria è di un tipo nuovo che adotta un nuovo refrigerante HFC (R410A) al posto del refrigerante convenzionale R22, per prevenire la distruzione dello strato di ozono dell'atmosfera terrestre.

ADOPCIÓN DE NUEVO REFRIGERANTE

Este aparato de aire acondicionado es un modelo reciente que incorpora el nuevo refrigerante HFC (R410A) en lugar del refrigerante convencional R22 para así evitar daños en la capa de ozono.

ADOPÇÃO DO NOVO REFRIGERANTE

Este ar condicionado é um modelo novo que adota um novo refrigerante HFC (R410A) em vez do refrigerante convencional R22 para evitar a destruição da camada de ozono.

TOEPASSING VAN EEN NIEUW KOELMIDDEL

Deze airconditioner is een nieuwe type dat werkt met een nieuw koelmiddel HFC (R410A) in plaats van met het conventionele koelmiddel R22, als bijdrage om de aantasting van de ozonlaag te reduceren.

ΥΙΟΘΕΤΗΣΗ ΝΕΟΥ ΨΥΚΤΙΚΟΥ

Το παρόν Κλιματιστικό είναι νέος τύπος που υιοθετεί νέο ψυκτικό HFC (R410A) στη θέση του συμβατικού ψυκτικού R22 προκειμένου να βοηθήσει στην προστασία του όζοντος.

CONTENTS

ACCESSORIES	1	AUTOMATIC OPERATION (Auto Changeover)	7
PRECAUTIONS FOR SAFETY	1	ADJUSTING AIR FLOW DIRECTION	8
PARTS NAME	3	HOW THE AIR CONDITIONER WORKS	8
NAME AND FUNCTIONS OF INDICATORS AND CONTROLS	3	TEMPORARY OPERATION	9
NAME AND OPERATIONS OF INDICATORS AND CONTROLS	4	MAINTENANCE	9
CORRECT USAGE	6	AIR CONDITIONER OPERATIONS AND PERFORMANCE	11
DRY OPERATION	7	PROBLEMS AND CAUSES	12

SOMMAIRE

ACCESSOIRES	13	FONCTIONNEMENT AUTOMATIQUE (Commutation Automatique)	19
MESURES DE SECURITE	13	REGLAGE DU SENS DE DIFFUSION D'AIR	20
NOM DES PIECES	15	COMMENT FONCTIONNE LE CLIMATISEUR	20
NOM ET FONCTIONS DES INDICATEURS ET COMMANDES	15	FONCTIONNEMENT TEMPORAIRE	21
NOM ET OPERATIONS DES INDICATEURS ET COMMANDES	16	ENTRETIEN	21
UTILISATION CORRECTE	18	FONCTIONNEMENT ET PERFORMANCES DU CLIMATISEUR	23
DESHUMIDIFICATION	19	PROBLEMES ET CAUSES	24

INHALT

ZUBEHÖR	25	BETRIEBSART ENTFEUCHTEN	31
SICHERHEITSVORKEHRUNGEN	25	AUTOMATISCHER BETRIEB (Automatischerwechsel)	31
TEILEBEZEICHNUNGEN	27	REGULIERUNG DER LUFTSTROMRICHTUNG	32
BEZEICHNUNGEN UND FUNKTIONEN DER ANZEIGEN UND BEDIENELEMENTE	27	ARBEITSWEISE DES KLIMAGERÄTS	32
BEZEICHNUNGEN UND FUNKTIONEN DER ANZEIGEN UND BEDIENELEMENTE	28	TEMPORARY	33
RICHTIGE HANDHABUNG	30	WARTUNG	33
		FUNKTIONEN UND LEISTUNG DES KLIMAGERÄTS	35
		STÖRUNGEN UND IHRE URSACHEN	36

INDICE

ACCESSORI	37	FUNZIONAMENTO AUTOMATICO (Commutazione Automatica)	43
PRECAUZIONI PER LA SICUREZZA	37	REGOLAZIONE DELLA DIREZIONE DEL FLUSSO DELL'ARIA	44
NOME DELLE PARTI	39	COME FUNZIONA IL CONDIZIONATORE D'ARIA	44
NOMI E FUNZIONI DEGLI INDICATORI E DEI COMANDI	39	FUNZIONAMENTO TEMPORANEO	45
NOMI E FUNZIONI DEGLI INDICATORI E DEI COMANDI	40	MANUTENZIONE	45
USO CORRETTO	42	OPERAZIONI E PRESTAZIONI DEL CONDIZIONATORE D'ARIA	47
FUNZIONAMENTO DI DEUMIDIFICAZIONE	43	PROBLEMI E CAUSE	48

CONTENIDO

ACCESORIOS	49	FUNCIONAMIENTO AUTOMÁTICO (Cambio Automático)	55
PRECAUCIONES PARA SU SEGURIDAD	49	AJUSTE DEL SENTIDO DE CIRCULACIÓN DEL AIRE	56
NOMBRE DE LOS COMPONENTES	51	CÓMO FUNCIONA EL APARATO DE AIRE ACONDICIONADO	56
NOMBRE Y FUNCIONES DE LOS INDICADORES Y DE LOS CONTROLES	51	FUNCIONAMIENTO TEMPORAL	57
NOMBRE Y FUNCIONES DE LOS INDICADORES Y DE LOS CONTROLES	52	MANTENIMIENTO	57
UTILIZACIÓN CORRECTA	54	FUNCIONES Y RENDIMIENTO DEL APARATO DE AIRE ACONDICIONADO	59
FUNCIONAMIENTO CON AIRE SECO	55	PROBLEMAS Y CAUSAS	60

ÍNDICE

ACESSÓRIOS	61	FUNIONAMENTO AUTOMÁTICO (Mudança Automática)	67
PRECAUÇÕES DE SEGURANÇA	61	AJUSTE DA DIRECÇÃO DO FLUXO DE AR	68
NOME DAS PEÇAS	63	COMO FUNCIONA O AR CONDICIONADO	68
NOME E FUNÇÕES DOS INDICADORES E CONTROLOS	63	OPERAÇÃO TEMPORÁRIA	69
NOME E OPERAÇÕES DOS INDICADORES E CONTROLOS	64	MANUTENÇÃO	69
UTILIZAÇÃO CORRECTA	66	OPERAÇÃO E FUNCIONAMENTO DO AR CONDICIONADO	71
FUNCIONAMENTO A SECO	67	PROBLEMAS E CAUSAS	72

INHOUD

ACCESSOIRES	73	DROGEN	79
VOORZORGSMAATREGELEN VOOR UW VEILIGHEID	73	AUTOMATISCHE BEDIENING (Automatisch Omschakelen)	79
BENAMING VAN DE ONDERDELEN	75	INSTELLEN VAN DE LUCHTSTROOMRICHTING	80
BENAMING EN FUNCTIE VAN VERKLIKKERLAMPEN EN BEDIENINGSELEMENTEN	75	HOE DE AIRCONDITIONER WERKT	80
BENAMING EN FUNCTIE VAN VERKLIKKERLAMPEN EN BEDIENINGSELEMENTEN	76	TIJDELIJKE BEDIENING	81
CORRECT GEBRUIK	78	ONDERHOUD	81
		BEDIENING EN WERKING VAN DE AIRCONDITIONER	83
		PROBLEMEN EN OORZAKEN	84

ΠΕΡΙΕΧΟΜΕΝΑ

ΠΑΡΕΛΚΟΜΕΝΑ	85	ΑΥΤΟΜΑΤΗ ΛΕΙΤΟΥΡΓΙΑ (Αυτόματη Μεταβολή)	91
ΠΡΟΦΥΛΑΞΕΙΣ ΑΣΦΑΛΕΙΑΣ	85	ΔΙΟΡΘΩΣΗ ΤΗΣ ΚΑΤΕΥΘΥΝΣΗΣ ΡΟΗΣ ΤΟΥ ΑΕΡΑ	92
ΟΝΟΜΑ ΜΕΡΩΝ	87	ΠΩΣ ΛΕΙΤΟΥΡΓΕΙ ΤΟ ΚΛΙΜΑΤΙΣΤΙΚΟ	92
ΟΝΟΜΑ ΚΑΙ ΛΕΙΤΟΥΡΓΙΕΣ ΤΩΝ ΟΡΓΑΝΩΝ ΕΝΔΕΙΞΗΣ ΚΑΙ ΕΛΕΓΧΟΥ	87	ΠΡΟΣΩΡΙΝΗ ΛΕΙΤΟΥΡΓΙΑ	93
ΟΝΟΜΑ ΚΑΙ ΛΕΙΤΟΥΡΓΙΕΣ ΤΩΝ ΟΡΓΑΝΩΝ ΕΝΔΕΙΞΗΣ ΚΑΙ ΕΛΕΓΧΟΥ	88	ΣΥΝΤΗΡΗΣΗ	93
ΟΡΘΗ ΧΡΗΣΗ	90	ΛΕΙΤΟΥΡΓΙΕΣ ΚΛΙΜΑΤΙΣΤΙΚΟΥ ΚΑΙ ΑΠΟΔΟΣΗ	95
ΞΗΡΗ ΛΕΙΤΟΥΡΓΙΑ	91	ΠΡΟΒΛΗΜΑΤΑ ΚΑΙ ΑΙΤΙΕΣ	96

ENGLISH

FRANCAIS

DEUTSCH

ITALIANO

ESPAÑOL

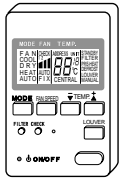
PORTUGUÊS

NEDERLANDS

ΕΛΛΗΝΙΚΑ

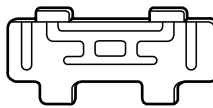
ACCESSORIES

Remote controller



(sold separately)

Installation plate



Screws for installation plate Ø4mm x 25mm



PRECAUTIONS FOR SAFETY

WARNING

WARNINGS ABOUT INSTALLATION


- Make sure to ask the qualified installation professional in electric work to install the air conditioner.
If the air conditioner is inappropriate installed by yourself, it may cause water leak, electric shock, fire, and so on.
- Ground the air conditioner without fail.
Do not connect the ground wire to gas pipe, water pipe, lightning rod or ground wire of telephone. If the air conditioner is imperfectly grounded, it may cause electric shock.

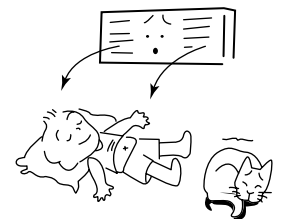


CAUTION

TO DISCONNECT THE APPLIANCE FROM THE MAINS SUPPLY

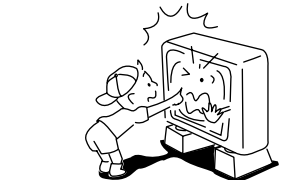
This appliance must be connected to the mains by means of a switch with a contact separation of at least 3 mm.

The installation fuse (25A D type ) must be used for the power supply line of this conditioner.



WARNINGS ABOUT OPERATION

- Cleaning of the air filter and other parts of the air filter involves dangerous work in high places, so be sure to have a service person do it. Do not attempt it yourself. The cleaning diagram for the air filter is there for the service person, and not for the customer.
- Avoid cooling the room too strong or exposing the human body to cool breeze for a long time as it is bad for the health.
- When you notice something abnormal with the air conditioner (smells like something scorching, poor cooling, etc.), immediately turn off the main switch, the circuit breaker, from the mains to stop the air conditioner, and contact the dealer. If the air conditioner is continuously operated with something abnormal, it may cause machine failure, electric shock, fire, and so on.



WARNINGS ABOUT MOVEMENT AND REPAIR

- 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.
- Whenever the air conditioner needs repair, make sure to ask the dealer to do it. If it is repaired imperfectly, it may cause electric shock or fire.
- When moving the air conditioner for re-installing at another place, ask the dealer to do it. If it is imperfectly installed, it may cause electric shock or fire.



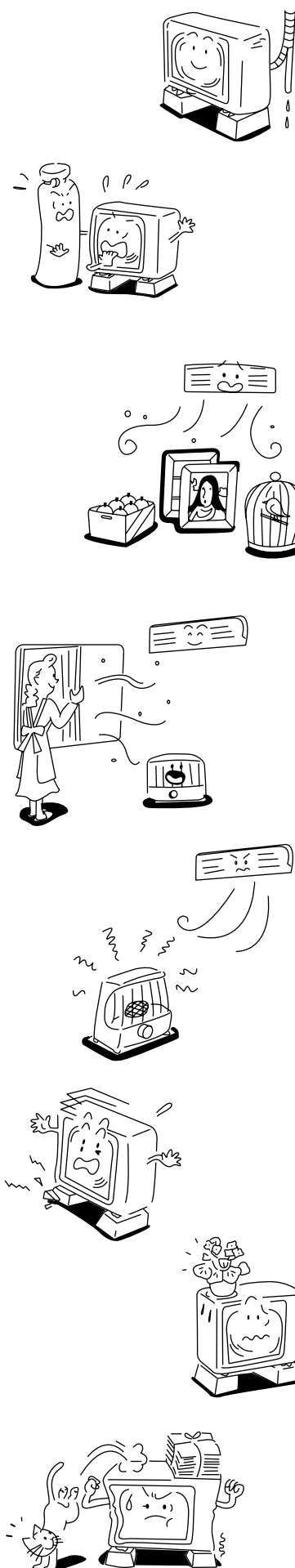
CAUTION

CAUTIONS ABOUT INSTALLATION

- Certainly lay the drain hose for perfect draining. Bad drainage may cause flooding in the house and getting furniture wet.
- Make sure to connect the air conditioner to an exclusive power supply of the rated voltage, otherwise the unit may break down or cause a fire.
- Do not install the unit in a place where inflammable gas may leak. If inflammable gas accumulates around the unit, it may cause a fire.

CAUTIONS ABOUT OPERATION

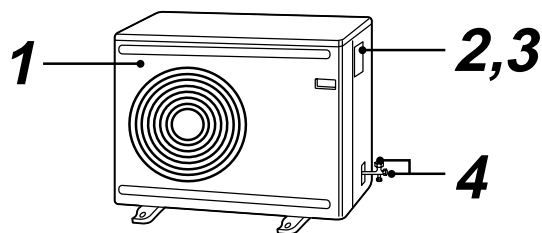
- Carefully read this manual before starting the air conditioner. There are many important things to keep in mind for daily operation.
- Do not use this air conditioner for special purpose such as preserving food, precision instruments, art objects, breeding animals, growing potted plants, etc.
- Avoid exposing potted plants and animals to the wind of the air conditioner, since it badly affects the health and growth of them.
- When the air conditioner is operated with a combustion appliance in the same place, be careful of ventilation to let fresh air enter the room. Poor ventilation causes oxygen shortage.
- 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 used in a closed room, be careful of sufficient ventilation of the room. Poor ventilation causes oxygen shortage.
- Do not touch any switches with wet finger, otherwise you may get an electric shock.
- If the air conditioner won't be used for a considerably long time, turn off the main switch or the circuit breaker, for safety.
- Check the concrete blocks, etc. of the base of the outdoor unit occasionally. If the base is left damaged or deteriorated, the unit may topple over and inflict an injury to a person as the worst case.
- Do not put anything on the outdoor unit nor step onto it. If you do so, it may not only topple over the unit but also injure yourself.
- 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.



PARTS NAME

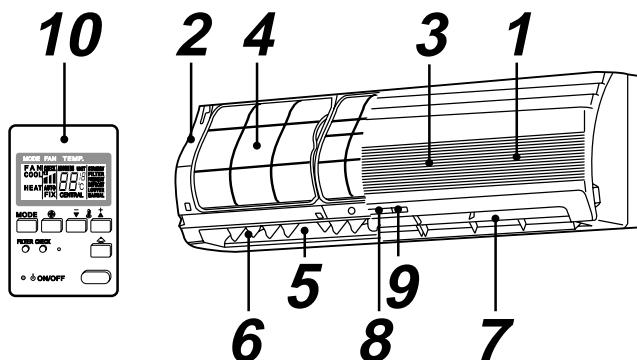
Outdoor unit

- 1** Air outlet - blows off hot air during cooling or cool air during heating
- 2** Power supply box - contains electrical parts
- 3** Earth screw - in the electrical parts box
- 4** Refrigerant line connections



Indoor unit

- 1** Room temperature sensor
- 2** Front panel
- 3** Air inlet grille
- 4** Air filter
- 5** Air outlet
- 6** Horizontal air flow louver
- 7** Vertical air flow louver
- 8** Display panel
- 9** Infrared signal receiver
- 10** Remote controller

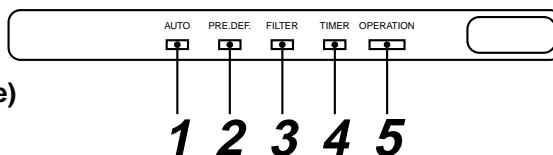


NAME AND FUNCTIONS OF INDICATORS AND CONTROLS

Display panel

The operating conditions are indicated below.

- | | |
|---|----------------------------------|
| 1 AUTO (green) | 2 PRE. DEF. lamp (orange) |
| 3 FILTER lamp (orange) | 4 TIMER lamp (yellow) |
| 5 OPERATION lamp (green/*orange) | |



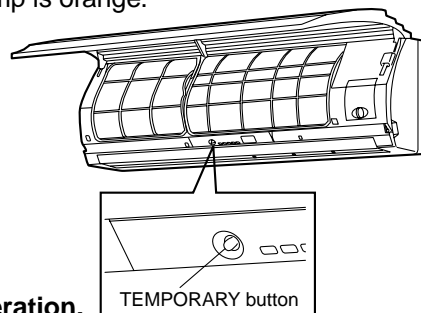
The operation lamp flash rapidly (five times per second), when safety protection feature come into operation.

* When the auto restart function is in operation, the OPERATION lamp is orange.

TEMPORARY button

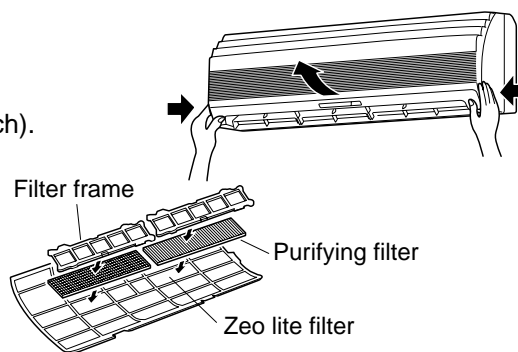
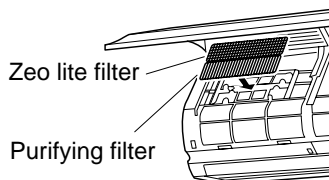
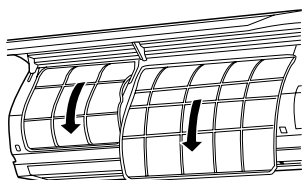
If you misplace or lose the remote controller or its batteries are exhausted, push the TEMPORARY button.

- 1** Open the air inlet grille to push the TEMPORARY button.
- 2** Push the TEMPORARY button to start the air conditioner. Push this button once again to stop it.
- 3** Continue to push the button for 10 seconds to start cooling operation.



Preparing the filters

1. Open the air inlet grille, and remove the air filters.
2. Attach the supplied zeo lite filters and purifying filters (two each).



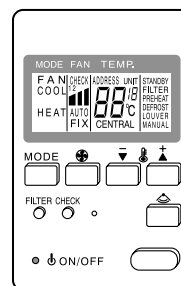
NAME AND OPERATIONS OF INDICATORS AND CONTROLS

Display section

All display items are shown in the figure below for purpose of explanation.

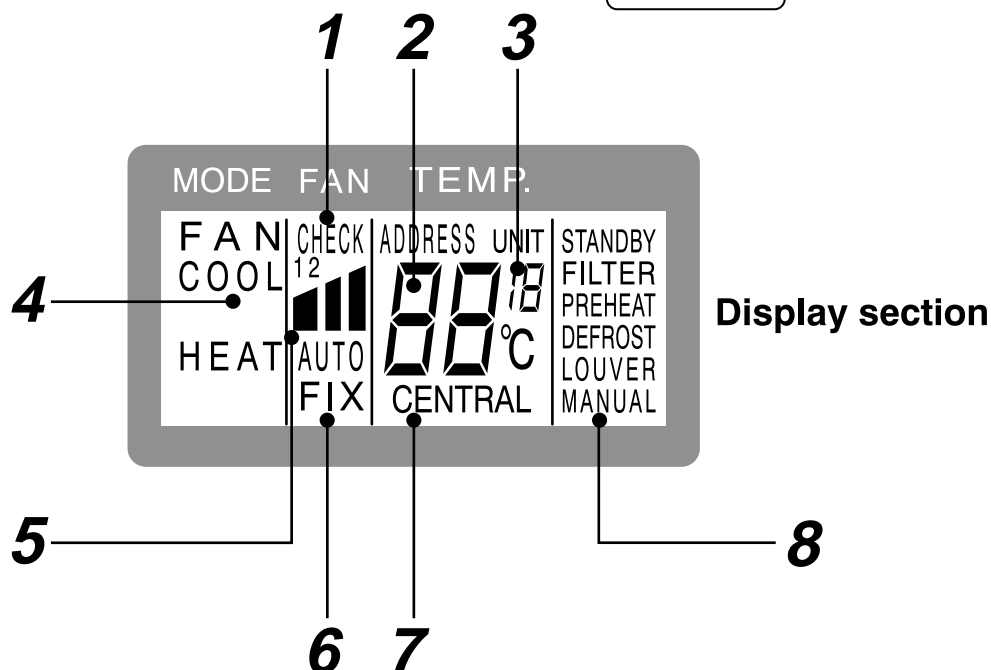
Only selected items are displayed in actual operation.
(All indicators are displayed for the explanation.)

The displayed contents differ according to shape or type.



Display section

Operation section



1 CHECK

Displayed during check mode.

2 Set up temperature display

The selected set up temp. is displayed.

3 Unit display

Unit No. in which error/fault is displayed in the set up temp. display section.

4 Operation mode display

The selected operation mode is displayed.

5 Fan mode display

The selected fan mode is displayed.



6 Air volume fix display

This is not displayed on this model.

7 CENTRAL control display

Displayed when used with the central remote controller, etc.

8 STANDBY display

It is displayed when the operation cannot be performed though it is not an error.

FILTER display

If "FILTER" is displayed, clean the air filter.

PREHEAT/DEFROST display

Displayed when heating operation or defrost operation starts.

LOUVER display

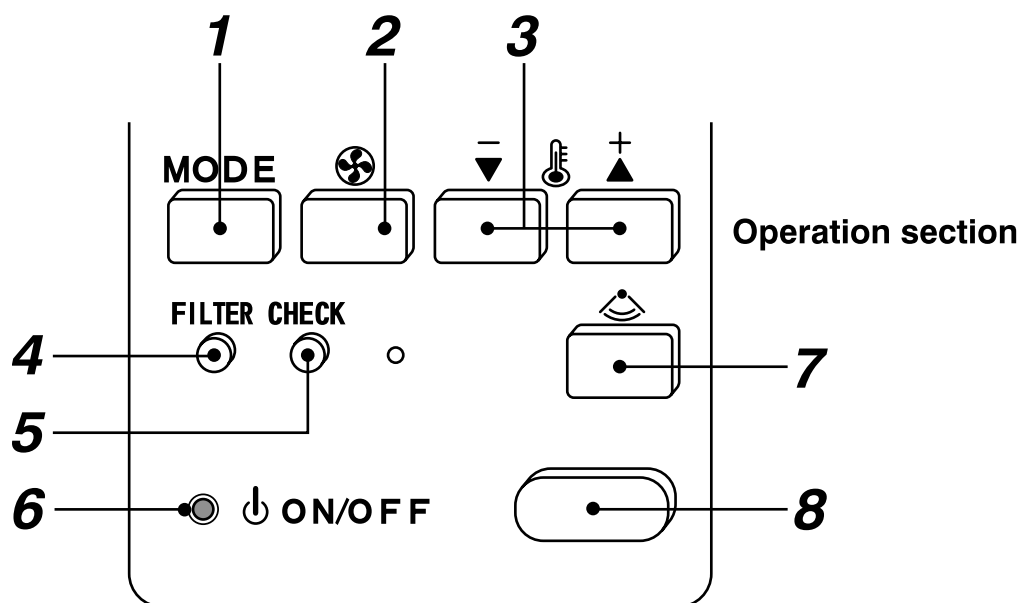
It is displayed while the discharge louver operates in AUTO mode.

LOUVER/MANUAL display

It is not displayed on this model.

Operation section

Push each button to select a desired operation.



1 Operation select button

Selects desired operation mode.

2 Air volume select button

Selects the desired air volume mode

3 Set up temp. button

Adjusts the required room temperature.

Match to the desired set temperature by pushing ▼ ▲.

4 Filter reset button

Resets (Erases) "FILTER" display.

5 CHECK button

When an error/fault occurs on the air conditioner, this button is used to check the check code indicating fault status.

6 Operation lamp

Lamp is lit during the operation.

Lamp is off when stopped.

Although it flashes when power switch is turned on or when turned on again after power failure, it goes on if the operation has started.

7 Louver operation button

With auto louver function, the discharge louver operates or stops during operation of air conditioner.

8 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 louver display disappear though other displays remain as they are.

"Central indication"

When using a remote controller connected to a central remote controller, etc., contents which can be operated by the standard remote controller and "CENTRAL" display change by setting at the central remote controller.

Setup on central remote controller	"CENTRAL" display on standard remote controller	Contents operated by standard remote controller
Last-push priority (No display)	Goes off	Operated from both standard remote controller and central remote controller, and operated with contents specified later.
Center	Goes on	ON / OFF only can be operated.
Operation inhibit	Flashes	Cannot be operated.

For application control using other "Weekly timer" or "Central remote controller" other than this standard remote controller, refer to the Manual attached to each remote controller.

CORRECT USAGE

When you use the air conditioner at the first time or when you change the setup value, follow the procedure below. From the next time, the operation displayed on the remote controller will start only by pushing ON / OFF button.

Preparation

Turn on the power switch.

- The operation lamp (Red) flashes.

REQUIREMENT

- While using the air conditioner, operate it only with ON/OFF button without turning off the power switch.
- When starting the operation after stop for a long time, turn on the power switch for 12 hours or more before start. (This is required because it is necessary to turn on the compressor case heater for heating in order to prevent overload on the compressor when activating the outdoor unit.)

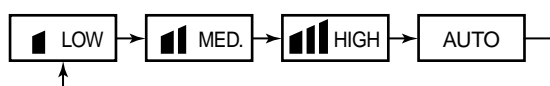
1 Select an operation mode with “MODE” button.

For every push of the button, the display changes as right figure :



2 Select air volume with the “FAN” button.

The display changes as follows :

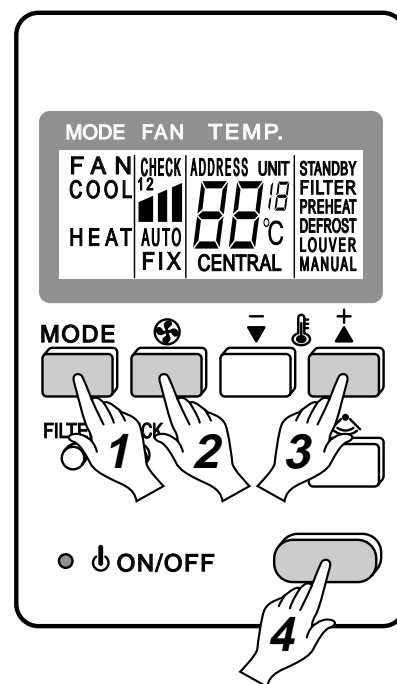


- When air volume is “AUTO”, air volume changes according to the room temperature.

3 Determine the set up temperature by pushing the “TEMP.” ▼ ▲ button.

4 Push “ON/OFF” button.

The operation lamp goes on, and the operation starts .



STOP

Push “ON/OFF” button.

The operation lamp goes off, and the operation stops.

NOTE

In cooling

- When the operation button is pushed, the operation starts approx. 1minute after.

In heating

- When pushing “ON/OFF” button, the indoor fan starts pre-heating operation for 3 to 5 minutes before it starts blowing out hot air.
- When the room temperature reaches the set up temperature and the outdoor unit stops, the mode becomes LOW and air volume decreases accordingly. During defrost operation, the fan stops so that cool air is not out, and “PREHEAT” and “DEFROST” are displayed.

When restarting the operation after stop

- In heating operation, the fan operation may continue for approx. 30 second.
- When restarting the operation immediately after stop, the air conditioner does not operate for approx. 3 minutes to protect the machine.

DRY OPERATION

Start

1 START/STOP button

Push this button to start the air conditioner.

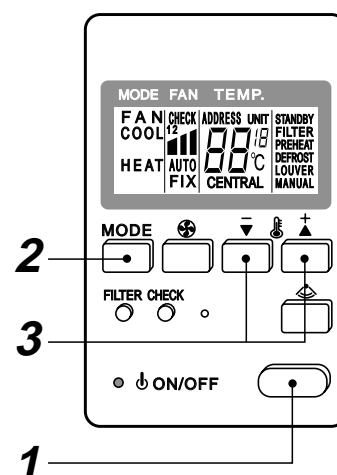
2 Mode select button (MODE)

Select DRY.

3 Temperature button

Set the desired temperature.

- The FAN speed display indicates AUTO
- The OPERATION lamp (green) on the switch panel of the remote controller lights, and operation starts after approximately 3 minutes.



Stop

START/STOP button

Push this button again to stop the air conditioner.

AUTOMATIC OPERATION (Auto Changeover)

When you set the air conditioner in A mode or switch over from AUTO operation because of some settings change, it will automatically select either cooling, heating, or fan only operation depending on the outdoor temperature.

Start

1 START/STOP button

Push this button to start the air conditioner.

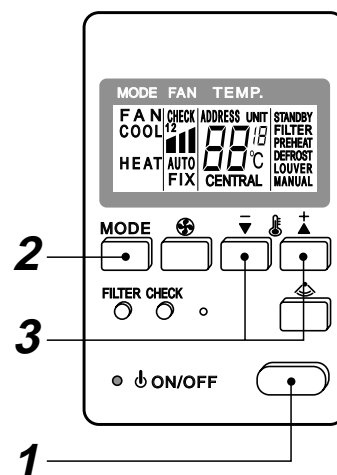
2 Mode select button (MODE)

Select Auto.

3 Temperature button

Set the desired temperature.

- In case of cooling, it starts the operation after approx. 1 minute.
- In case of heating, the operation mode is selected in accordance with the room temperature and operation starts after approximately 3 to 5 minutes.
- When you select the Auto mode, it is unnecessary to set the fan speed.
The FAN speed display will show AUTO and the fan speed will be automatically controlled.
- If the Auto mode is uncomfortable, you can select the desired conditions manually.



Stop

START/STOP button

Push this button again to stop the air conditioner.

ADJUSTING AIR FLOW DIRECTION

- Adjust the air flow direction properly. Otherwise, it might cause discomfort and make the room temperature uneven.
- Adjust the vertical air flow using the remote controller.
- Adjust the horizontal air flow manually.

Adjust the vertical air flow

The air conditioner automatically adjusts the vertical air flow direction in accordance with the operating conditions.

To set the air flow direction by yourself

Perform this adjustment when the air conditioner is in operation.

Push the LOUVER button once on the remote controller.

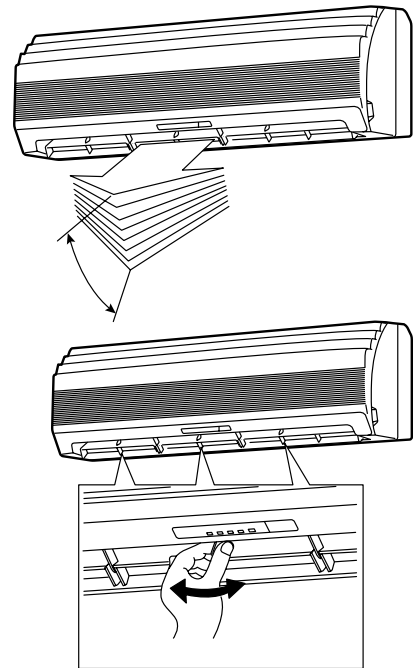
The louver starts to swing. When the desired louver position is reached in the swing, push the LOUVER button again and louver will stop at desired position.

To automatically swing the air flow direction

Perform this function when the air conditioner is in operation.

Push the LOUVER button on the remote controller.

- To stop the function, push the LOUVER button again.



CAUTION

- Do not operate the air conditioner for prolonged periods of time with the air flow direction set downward during cooling operation.
- Do not move the vertical air flow louver manually. Always use the LOUVER button.
If you move the louver manually, it may malfunction during operation.
If the louver malfunctions, stop the air conditioner once, and restart.

Adjust the horizontal air flow

Preparation :

- Take hold of the lever on the horizontal air flow louver and move them to adjust the air flow direction as you desire.
- You can adjust the air flow at the left, center, and right locations of the grilles.

HOW THE AIR CONDITIONER WORKS

Automatic operation

- The air conditioner selects and operates a mode from the cooling, the heating, or the fan only operations, depending on the outdoor temperature.
- If the AUTO mode is uncomfortable, you can select the desired conditions manually.

Room temperature in operation	Operating condition	
The set temperature +1°C or higher (in case that the room is hot)	Cooling operation	Performs the cooling operation at a temperature 1°C higher than the setting.
The set temperature -1°C to +1°C	Fan only operation	Performs the fan only operation (low speed) while monitoring the outdoor temperature. When the room temperature changes, the air conditioner will select the cooling or heating mode.
The set temperature -1°C or lower (in case the room is cold)	Heating operation	Performs the heating operation at a temperature 1°C lower than the setting.

HINTS FOR ECONOMICAL OPERATION

1. Clean air filters

Air flow and performance are reduced if the air filters become blocked.

Clean them every 2 weeks..

2. Never open doors and windows more often than necessary

To keep cool or warm air in the room, never open doors and windows more often than necessary.

3. Use the timer effectively

Set the timer for the desired operating time.

4. Allow uniform circulation of room air

Adjust the air flow direction for the even circulation of room air.

TEMPORARY OPERATION

TEMPORARY operation

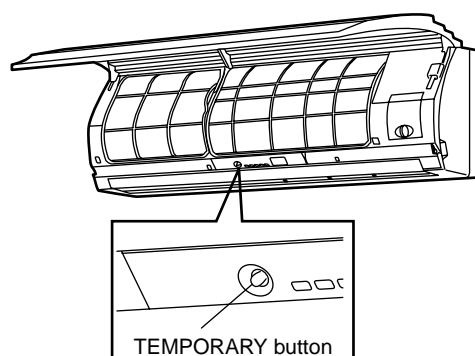
This function is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted.

- Push the TEMPORARY button to start the air conditioner.
- While the substitute operation is set, the remote controller operation is disabled.
- Continue to push the button for 10 seconds to start cooling operation.

Air filter reset

When the FILTER lamp on the air conditioner is indicated, it is time for cleaning. (The lamp will start to indicate, after every 1000 hours of operation.)

- The FILTER lamp will be out when the TEMPORARY button is pushed.
- The FILTER lamp will also be out when the FILTER button on the remote controller is pushed.



MAINTENANCE

WARNING

Before you clean the air conditioner be sure to turn off the circuit breaker or main power switch.

Cleaning of indoor unit and remote controller

CAUTION

- Use a dry cloth to wipe the indoor unit and remote controller.
- A cloth dampened with cold water may be used on the indoor unit if it is very dirty.
- Never use a damp cloth on the remote controller.
- Do not use a chemically-treated duster for wiping or leave such materials on the unit for long. It may damage or fade the surface of the unit.
- Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.

If the air conditioner is not to be used for more than one month

1. Operate the air conditioner in FAN ONLY mode for approximately 6 hours to dry inside the unit
2. Stop the air conditioner and turn off the circuit breaker.
3. Remove the batteries from the remote controller.

Check before operation

CAUTION

- Check that the air filters are installed.
- Check that the air outlet or inlet of the outdoor unit is not blocked.

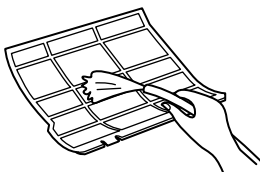
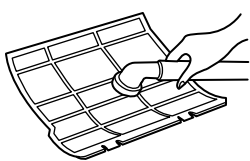
Cleaning the air filter

Clean the air filters every 2 weeks.

If the air filters are covered with dust, the performance of the air conditioner will deteriorate.

Clean the air filters as often as possible.

- 1 Open the air inlet grille.**
Lift the air inlet grille up to the horizontal position.
- 2 Take hold of the left and right handles of the air filter and lift it up slightly, then pull it downward to take it out from the filter holder.**
- 3 Remove the filters.**
- 4 Use a vacuum cleaner to remove the dust from the filters or wash them with water. If you wash the air filters, dry them in the shade.**

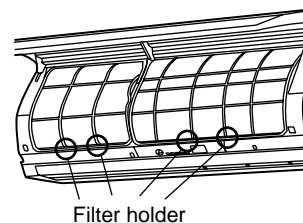
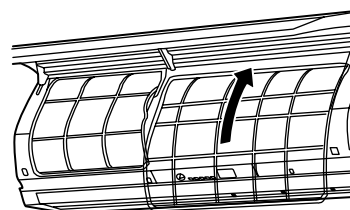
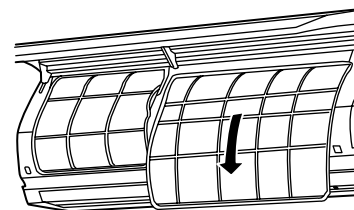
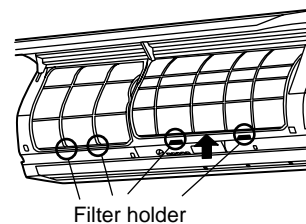
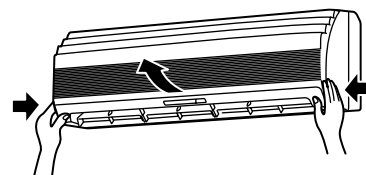
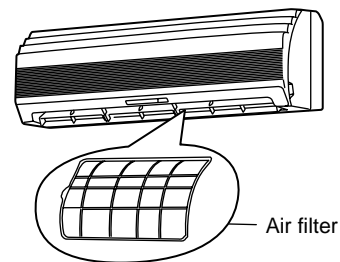


- 5 Insert the upper portion of the air filter aligning right and left edges on the indoor unit until correctly positioned.**

- 6 Close the air inlet grille.**

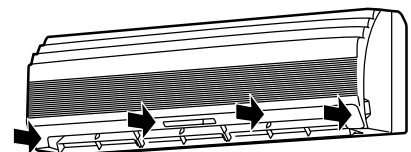
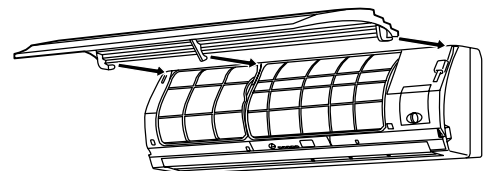
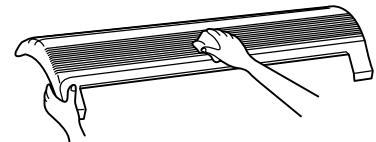
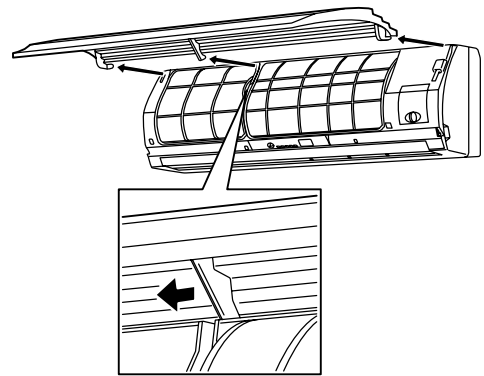
* If the filter lamp on the indoor unit is indicated, push the FILTER button on the remote controller or the TEMPORARY button on the indoor unit to turn off the lamp.

FAN ONLY Operation



Cleaning the air inlet grille

1. Remove the air inlet grille.
Hold the both sides of the air inlet grille and open upward.
Move the center arm to the left and remove the grille.
2. Wash it with water using a soft sponge or towel.
(Do not use metallic scrubbing brush or other hard brushes.)
 - Use of such hard objects will cause scratches on the surface of the air inlet grille, and the coating to peel off.
 - If very dirty, clean the air inlet grille with a neutral detergent, and rinse it off with water after removing it from the unit.
3. Wipe out water from the air inlet grille and dry.
4. Fit the left and right arms of the air inlet grille to the shafts on the two sides of the air conditioner and push in completely, and then push in the center arm.
5. Check that the center arm has been completely inserted and close the air inlet grille.
 - Push the arrow locations (four) at the bottom of the air inlet grille to check whether the grille is completely closed.



AIR CONDITIONER OPERATIONS AND PERFORMANCE

3 minute protection function

A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it is restarted immediately after operation or when the power supply switch is turned on. This will protect the machine.

Heating operation characteristics

Preheating operation

The air conditioner will not deliver warm air immediately after it is started.

Warm air flows out after approximately 5-minutes when the indoor heat exchanger warms up.
(The PRE.-DEF. lamp is on during the preheating operation.)

Warm air control

When the room temperature reaches the set temperature, the indoor fan speed is automatically reduced to prevent cold draft.

The outdoor unit will stop.

Defrosting

If the outdoor unit is frosted during heating operation, defrosting is started automatically (for approximately 5 to 10 minutes). To maintain the heating effect, the PRE.-DEF. lamp is on.

- The fans on the indoor and outdoor units stop during the defrost operation.
- During defrost operation, defrosted water drains from the bottom plate of the outdoor unit.

Heating capacity

If the outdoor temperature is too low, it is recommended that additional heating appliances be used in conjunction with the air conditioner.

Power failure

Power failure during operation will stop the unit completely.

- The OPERATION lamp (green) on the indoor unit will start flashing when power is restored.
- To restart operation, push the START/STOP button on the remote controller.

Air conditioner operating conditions

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

Cooling operation	Outdoor temperature : -5°C to 43°C
	Room temperature : 18°C to 32°C
	CAUTION 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 21°C
	Room temperature : Less than 30°C

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

PROBLEMS AND CAUSES

CAUTION

If any of the following conditions occur, turn off the main power supply switch and immediately contact the dealer :

- The indicator lamps flash at short intervals (5 Hz) even though you have tried turning off the power supply and turning on again after 2 to 3 minutes.
- Switch operation is erratic.
- The main power fuse often blows out, or the circuit breaker is often activated.
- A foreign matter or water has fallen into the inside of the air conditioner.
- Any other unusual condition is observed.

Before you ask for servicing or repairs, check the following points.

Recheck

Inoperative

- The main power switch is turned off.
- The circuit breaker is activated to cut off power supply.
- The main power fuse is blown.
- ON timer is set.

Does not cool well or heat well

- The air inlet or outlet of the outdoor unit is blocked.
- Doors or windows are opened.
- The air filter is blocked with dust.
- The louver is not at the correct position.
- The fan speed is set too low.
- The set temperature is too high. (In cooling operation)
- The set temperature is too low. (In heating operation)

TOSHIBA CARRIER CORPORATION
336 TADEHARA FUJI-SHI, SHIZUOKA-KEN, 416-8521, JAPAN