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You can read the recommendations in the user guide, the technical guide or the installation guide for TOSHIBA RAS-10PAVP-E. You'll find the answers to all your questions on the TOSHIBA RAS-10PAVP-E in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual TOSHIBA RAS-10PAVP-E  
User guide TOSHIBA RAS-10PAVP-E  
Operating instructions TOSHIBA RAS-10PAVP-E  
Instructions for use TOSHIBA RAS-10PAVP-E  
Instruction manual TOSHIBA RAS-10PAVP-E

**TOSHIBA**  
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OWNER'S MANUAL

**AIR CONDITIONER** (SPLIT TYPE)  
For general public use



ENGLISH EN

Indoor Unit	Outdoor Unit
RAS-07PKVP-E	RAS-07PAVP-E
RAS-10PKVP-E	RAS-10PAVP-E
RAS-13PKVP-E	RAS-13PAVP-E
RAS-16PKVP-E	RAS-16PAVP-E
RAS-18PKVP-E	RAS-18PAVP-E
RAS-07PKVP-ND	RAS-07PAVP-ND
RAS-10PKVP-ND	RAS-10PAVP-ND
RAS-13PKVP-ND	RAS-13PAVP-ND
RAS-16PKVP-ND	RAS-16PAVP-ND
RAS-18PKVP-ND	RAS-18PAVP-ND



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.....  
... 16 ADJUSTING AIR FLOW DIRECTION.

.....  
.....

.....  
.....  
.....

..... 17 AUTO RESTART OPERATION ...

.....  
.....  
.....  
.....

.....  
.....

... 18 HOW THE AIR CONDITIONER WORKS .

.....

.....  
.....  
.....

..... 19 TEMPORARY OPERATION ....

.....  
.....  
.....  
.....

.....  
.....  
.....

... 20 CLEANING OPERATION.....

.....  
.....  
.....  
.....

.....  
.....  
.....

..... 20 USUAL MAINTENANCE .....

.....  
.....  
.....  
.....

.....  
.....  
.....

..... 21 AIR CONDITIONER OPERATION AND PERFORMANCE ..

..... 23 TROUBLESHOOTING ..

.....  
.....  
.....

.....  
.....  
.....  
.....

.....

... 24 TROUBLESHOOTING (Remote Controller) .





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When using the unit in a closed room, or operating with other combustion appliances, make sure to open a window occasionally for ventilation. Insufficient ventilation may cause suffocation due to a lack of oxygen. Do not use combustion appliances in the direct flow of the air from the air-conditioning unit. Poor combustion of a combustion appliance may cause suffocation.

Avoid operating for long periods in a high humidity environment (over 80%) such as with the windows or doors open. There may be condensation on the indoor unit and droplets may fall onto the furniture. When the unit won't be used for a long time, turn off the main switch or the circuit breaker. At least once a year check if the mounting table of the outdoor unit is damaged or not. If a damaged state is ignored, the unit may fall or over-turn, causing an injury. EN 2 Stand on a sturdy ladder when attaching/detaching the front panel/air filter/air cleaning filter. Failure to do so may cause a fall or injury. Do not stand on the outdoor unit or place anything on the unit. It may be the cause of injury due to falling or over-turning. Any damage to the unit may cause an electric shock or fire.

Do not place anything around the outdoor unit or allow fallen leaves to accumulate around it. If there are fallen leaves, small animals could enter and contact internal electrical parts, causing a failure or fire. Do not place animals and plants in places where wind from the air-conditioning unit flows directly. It may have a negative influence on the animal or plant. Do not use for special applications such as storage of food or animals, or to display plants, precision devices, or art objects. Do not use on ships or in other vehicles. It may cause a failure in the air-conditioning unit. In addition, it may damage these items. Do not place other electrical appliances or furniture under the unit. Water droplets might fall, causing damage or failure.

When performing maintenance, you must stop operating the unit and turn off the circuit breaker. Since the fan inside may be rotating at high speed, it may cause an injury. After the front panel/air filter is cleaned, wipe away any water and allow to dry. If water remains, it may cause an electric shock. Once the front panel is removed, do not touch the metal parts (aluminum fins, etc.) of the unit. It may cause an injury. When you hear thunder and there might be a lightning strike, stop operating the unit and disconnect the circuit breaker. If lightning strikes, it may cause a failure. Do not hang laundry or other objects from the moving panel.

The moving panel could fall and cause an injury. 3 EN NAMES OF PARTS Outdoor unit a Refrigerant connecting pipe, electric wires and drain hose b Air inlet c Air outlet b a c Indoor unit d e f g h i j k l m n o Humidity sensor/temperature sensor Front panel Moving panel Air filter Air outlet Horizontal air flow louver Vertical air flow louver Plasma ion charger Display panel Infrared signal receiver Remote controller Panel support e f g do n k j i h l m CAUTION (RAS-\*\*\*-ND model only) Use care to avoid burns. A heater is installed on the base plate of the outdoor unit. When the outside air temperature is low, the heater runs to warm the base plate even if the unit is not operating so that snow does not accumulate inside the outdoor unit. NAMES AND FUNCTIONS OF INDICATORS AND CONTROLS ON INDOOR UNIT Display panel The operating states are shown below. a RESET button b OPERATION indicator (Green) c TIMER/S.CLEAN indicator (Orange) d PURE indicator (Blue) \*1 e Infrared signal receiver \*1: If the orange light of the PURE indicator is turned on, this indicates a problem in the plasma ion charger. Please contact the dealer whates the temperature setting (17°C to 30°C). d PURE indicator Shows that the electrical air purifying operation is in progress. e FAN speed indicator Indicates the selected fan speed.

AUTO or one of five fan speed levels (LOW, e ig f LOW+ , MED , MED+ , HIGH ) can be shown. Indicates AUTO when the operating mode is either AUTO or : DRY. In the illustration, all indicators are shown f TIMER and clock time indicator for purposes of explanation. During The time setting for timer operation or the clock time is indicated. operation, only the relevant indicators are The current time is always indicated except during TIMER operation. shown on the remote controller. g Hi POWER indicator Indicates when Hi POWER operation starts. Press the Hi POWER button to start and press it again to sto with electronic starters. If you plan to use fluorescent lamps, consult with your local dealer. If other electrical appliances are activated by the remote controller, move these appliances or consult with your local dealer.

Location of the remote controller Keep the remote controller where its signals can reach the receiver of the indoor unit (a distance of up to 7 m is allowed). When you select timer operation, the remote controller automatically transmits a signal to the indoor unit at the specified time. If you keep the remote controller in a location where proper signal transmission is blocked, a time lag of up to 15 minutes may occur. Remote controller holder Installing the remote controller holder Before you actually install the remote controller holder on a wall or pillar, check whether the remote controller signals can be received by the indoor unit. Mounting and removing the remote controller To mount the remote controller, hold it parallel to the remote controller holder and push it in fully.

To remove the remote controller, slide the remote controller upwards and out from the holder. 7m Types of signal receiving tones When the receiver of the indoor unit receives a signal, a signal receiving tone is made from the indoor unit. Beep ...

.....

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Start/Change Prolonged beep .....

. Stop Beep-beep .....

.....

Notify When the notification sound beep-beep is made This indicates that the temperature, fan speed, or air flow direction settings were returned to the basic settings. Item Temperature Fan speed Horizontal air flow Vertical air flow Basic setting 22°C (8°C--8°C OPERATION (RAS-\*\*\*-ND model only)) AUTO

When the horizontal air flow louver faces the front. When the vertical air flow louver stops at the louver limit position. 9 EN AUTOMATIC OPERATION When you set the air conditioner to AUTO mode, it automatically selects cooling, heating, or fan only operation depending on the room temperature. ( see page 19.) The fan speed and louver are also automatically controlled. Start a button Press this button to start the air conditioner. b AUTO button (AUTO) Press AUTO button. c Temperature button (TEMP) Set the desired temperature. b The OPERATION indicator (green) on the display panel of the indoor unit lights.

The operating mode is selected according to the room temperature and operation starts after approximately 3 minutes.



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· If the AUTO mode is uncomfortable, you can select the desired conditions manually. The fan speed and louver position can be changed, and MODE is also changed from AUTO to A when the fan speed or louver position is changed. The fan speed indicator is also shown. c a Stop button Press this button again to stop the air conditioner.

**AUTOMATIC OPERATION (AUTO CHANGEOVER)** When you set the air conditioner to A mode or switch over from AUTO operation because of a change in settings, the air conditioner automatically selects cooling or heating operation depending on the room temperature. ( see page 19.) Start a button Press this button to start the air conditioner. b Mode select button (MODE) Select A. c Temperature button (TEMP) Set the desired temperature.

d Fan speed button (FAN) Select one of "AUTO" LOW , LOW+ HIGH , MED , MED+ , · The OPERATION indicator (green) on the display panel of the indoor unit lights. The operating mode is selected according to the room temperature and operation starts after approximately 3 minutes. · The temperature, fan speed and louver position can be changed. You can select the desired conditions manually. c b a d Stop button Press this button again to stop the air conditioner. EN 10 COOLING/HEATING OPERATION Start a button Press this button to start the air conditioner. b Mode select button (MODE) Select COOL or HEAT . c Temperature button (TEMP ) Set the desired temperature. d Fan speed button (FAN) Select one of "AUTO" LOW , LOW+ HIGH .

c b a d , MED , MED+ , · The OPERATION indicator (green) on the display panel of the indoor unit turns on. Operation starts after approximately 3 minutes. Stop button Press this button again to stop the air conditioner. DRY OPERATION Start a button Press this button to start the air conditioner. b Mode select button (MODE) Select DRY . c Temperature button (TEMP ) Set the desired temperature. · The fan speed setting is fixed to AUTO and the AUTO is displayed.

· The OPERATION indicator (green) on the display panel of the indoor unit turns on, and operation starts after approximately 3 minutes. c b a Stop button Press this button again to stop the air conditioner. 11 EN 8°C OPERATION (RAS-\*\*\*-ND model only) This function is usable for prevention of freeze of an uninhabited room.

Press this button to start the 8°C set temperature heating operation. The air conditioner controls the room temperature to about 8°C. The room temperature may deviate slightly from 8°C depending on the size of the room and the installation condition of the unit. Starting the 8°C heating operation while the air conditioner is stopped Start a 8°C button Press this button to start the 8°C set temperature heating operation. · The OPERATION indicator (green) on the display panel of the indoor unit turns on.

Operation starts after approximately 3 minutes. Stop button Press this button to stop the air conditioner. a If the 8°C heating operation starts while the air conditioner is stopped, press the 8°C button again to stop the operation. Starting the 8°C heating operation while the air conditioner is operating Start a 8°C button Press this button to change to the 8°C set temperature heating operation. · If the air conditioner performs a cooling (including automatic cooling) or dry operation, it stops and the 8°C set temperature heating operation starts after approximately 3 minutes.

@@@ Check the operating condition on the screen of the remote control. @@@@ Setting changes cannot be made with other buttons.

@@@@@ When the fan speed is automatic, it changes up to MED+ . @@@@@ Holding down the ON button changes the time in one hour increments. b SET SET button Press the SET SET button to set the timer. The timer time is displayed, and the timer starts.

@@@@ Holding down the OFF button changes the time in one hour increments. b SET SET button Press the SET SET button to set the timer. The timer time is displayed, and the timer starts. @@@@@ You cannot set the timer when the clock display is flashing.

@@@ button to set the ON timer. @@@ button to set the OFF timer. @@ · If the same time is set for both ON and OFF timers, no timer operation is performed. Also, the air conditioner may stop operating. CAUTION Approximately 3 seconds later, the remote controller will transmit the signal to the indoor unit and a receiving beep will sound from the indoor unit after you press the SET SET button. Daily combined timer (setting the ON and OFF timers simultaneously and activating every day) This feature is useful when you want to use the combined timers at the same time every day. Setting combined TIMER (1) Press the ON (2) Press the OFF ON button to set the ON timer. button to set the OFF timer. OFF (3) Press the SET SET button. (4) After step (3), an arrow mark ( or ) flashes for about 3 seconds.

Press the SET SET button during this flashing. · Both arrows ( Press the CLR , ) are shown while the daily timer is activated. button. Cancelling timer operation CLR Clock display During TIMER operation (ON-OFF, OFF-ON, OFF timer), the clock time indicator is not shown so the setting time can be displayed. To view the current time, press the SET button briefly and the current time will be displayed for about 3 seconds.

15 EN MEMORY/MY COMFORT OPERATION Use the MEMO button to store a frequently used operation setting for convenience. Start the air conditioner in the operation mode that you want the remote controller to store. Press the button as shown below while the air conditioner is operating. a MEMO button Press this button briefly to ready for storing the setting. All the icons currently shown flash, except for the clock time indicator and mode indicator.

b MEMO button Hold down the MEMO button for 3 seconds or more while the indicator flashes. The mark is shown and the setting is stored. · If you do not press the MEMO button within 3 seconds or if you press another button, the MEMORY setting is cancelled. · Operation modes which can be stored with the MEMO button are MODE, Temperature, FAN, TIMER and Hi POWER. a b To operate the air conditioner with the setting stored using the MEMO button. a MY COMFORT button Press the MY COMFORT button. The setting stored with the MEMO button will be shown and the air conditioner operates based on the setting. (A): When the MY COMFORT button is pressed while operation is stopped · The OPERATION indicator (green) on the display panel of the indoor unit turns on, and operation starts after approximately 3 minutes. (B): When the MY COMFORT button is pressed during operation · The operation mode changes to the setting stored with the MEMO button. · Initial setting: MODE : AUTO Temperature : 22 a EN 16 ADJUSTING AIR FLOW DIRECTION · Adjust the air flow direction properly.



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Failure to do so could cause discomfort and make an uneven room temperature distribution. · Adjust the vertical air flow using the remote controller. · Adjust the horizontal air flow using the remote controller. Adjusting the vertical air flow The air conditioner automatically adjusts the vertical air flow direction according to the operating conditions when AUTO or A mode is selected. Adjusting the horizontal air flow Preparation: · While the air conditioner is operating, you can use the remote controller to change the air flow in the horizontal (left/right) direction. To set a selected vertical air flow direction Use this function when the air conditioner is operating. a FIX button Hold down or briefly press the FIX button on the remote controller to move the louver in the desired direction. b To set a selected horizontal air flow direction Use this function when the air conditioner is operating. b FIX button Hold down or briefly press the FIX button on the remote controller to move the louver in the desired direction. NOTE · Change the vertical/horizontal air flow louver direction within the range indicated.

· In subsequent operations, the vertical/horizontal air flow is automatically set to the direction that you set the louver using the FIX button. To automatically swing the air flow direction Perform this function when the air conditioner is operating. @@ · The horizontal air flow louver swings. @@@@ Always use the FIX button. If you move the louver manually, it may malfunction during operation.

@@@ Operation resumes without warning 3 minutes after power is restored. INFORMATION The AUTO RESTART OPERATION is not set to work at factory shipment, and so it is necessary to set it to this function if required. HOW TO SET AUTO RESTART To set the auto restart function, proceed as follows: The power supply to the unit must be on. The function will not be set if the power is off. To enable the auto restart function, hold down the RESET button for 3 seconds.

The air conditioner receives the setting and beeps 3 times. Now the auto restart setting is activated. The system can restart automatically. (1) When the air conditioner is in stand-by (not running). Hold down the RESET button for 3 seconds or more. RESET button · The air conditioner starts to operate. The green indicator turns on. · After about 3 seconds, the air conditioner beeps 3 times. The green indicator flashes for 5 seconds. · The air conditioner is operating.

If the air conditioner is not required to run at this time, push the RESET button again or use the remote controller to stop the air conditioner. (2) When the air conditioner is operating. Hold down the RESET button for 3 seconds or more. · The air conditioner stops operating. The green indicator turns off. · 3 seconds after pushing the button, the air conditioner beeps 3 times. The green indicator flashes for 5 seconds · The air conditioner stops. If you do not need the air conditioner to stop at this time, use the remote controller to restart the air conditioner. During the subsequent operation, the green indicator is turned on. · The auto restart operation will not accept a command if timer operation with the remote controller is activated.

· After restarting the air conditioner by the AUTO RESTART OPERATION, the louver swing (AUTO) operation resumes. HOW TO CANCEL AUTO RESTART To cancel the auto restart operation, proceed as follows: Repeat the setting procedure. The air conditioner receives the setting and beeps 3 times. Now the auto restart setting is cancelled. The air conditioner needs to be manually restarted with the remote controller after the main supply is turned off.

(1) When the air conditioner is in stand-by (not running). Hold down the RESET button for 3 seconds or more. · The air conditioner starts to operate. The green indicator will turn on. · After about 3 seconds, the air conditioner beeps 3 times.

· The air conditioner is operating. If the air conditioner is not required to run at this time, push the RESET button again or use remote controller to stop the air conditioner. (2) When the air conditioner is operating. Hold down the RESET button for 3 seconds or more. · The air conditioner stops operating. The green indicator is turned off. · After about 3 seconds, the air conditioner beeps 3 times. · The air conditioner stops. If you do not need the air conditioner to stop at this time, use the remote controller to restart the air conditioner. During subsequent operation, the green indicator is turned on.

RESET button INFORMATION Do not hold down the RESET button for more than 10 seconds. Otherwise, the forced cooling operation used during servicing and re-installation will activate. To stop the forced cooling operation, press the RESET button again. EN 18 HOW THE AIR CONDITIONER WORKS Automatic Operation As shown in Figure 1, Automatic Operation mode selects the operation based on the room temperature data when operation begins.

Room temperature when operation begins or when selected again Room temperature Setting temperature+1 Setting temperature Setting temperature-1 Cooling operation Fan only operation Heating operation Figure 1 The operation mode is selected again after the compressor has remained stopped for 15 minutes. Hi POWER operation When you press the Hi POWER button during cooling, heating or A operation, the air conditioner starts the following operation. · Cooling operation The cooling operation is performed at 1°C lower than the temperature setting. The fan speed is also set to high\*. \* The noise level raises, according to the fan speed. · Heating operation The heating operation is performed at 2°C higher than the temperature setting.

The fan speed is automatically switched according to the operating condition. SLEEP MODE operation The air conditioner automatically controls the room temperature, air flow and noise level, to prevent overcooling in summer and maintain a warm and comfortable room in winter. INFORMATION · The power and noise level are reduced during sleep mode, so the room may not be cooled sufficiently if the mode is used for a long period of time. · The sleep mode cannot be used during dry operation, PURE operation (independent operation). (PURE operation (independent operation) is when the PURE button is pressed while the air conditioner is stopped to perform PURE operation by itself.

The air conditioner does not operate at this time.) · If the FAN button is pressed during sleep mode, the sleep mode is canceled. · Sleep mode is not a timer operation. Dry operation ( ) The dry mode automatically selects the cooling dry operation based on the difference between the temperature setting and the actual room temperature. The fan speed indicator shows AUTO, and low speed is used.

· The display panel indicators will decrease in brightness in sleep mode.



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**19 EN HINTS FOR ECONOMICAL OPERATION** Maintain room temperature at a comfortable level Clean the air filters Clogged air filters impair the performance of the air conditioner. Clean them every two weeks. Never open doors and windows more than necessary To keep cool or warm air in the room, never open doors and windows more than necessary. Window curtains During cooling operation, close the curtains to avoid direct sunlight. During heating operation, close the curtains to keep the heat in. Use the timer effectively Set the timer for the desired operating time. Allow uniform circulation of room air Adjust the air flow direction for even circulation of room air. Close Please Chilly Please clean Control Use the timer effectively Blows upward of Cold and dry panel Warm air Air flow adjustment Blows downward **TEMPORARY OPERATION** Temporary operation This function is used to operate the unit temporarily in case you misplace the remote controller or the batteries are used up. · Push the RESET button to start the automatic operation (AUTO).

· While the temporary operation is activated, the remote controller operation is disabled. I cannot find the remote controller A temporary operation feature is provided! **INFORMATION** Do not hold down the RESET button for more than 3 seconds. ( see page 18.) **CLEANING OPERATION** Cleaning operation This function is used to dry the inside of the air conditioner to reduce the growth of mold, etc. inside the air conditioner. · When the unit shuts down after having operated for 10 or more minutes in the cooling or dry mode, the cleaning operation is started automatically, and the S.CLEAN indicator on the unit's display panel turns on. Cleaning operation duration · The cleaning operation lasts for 4 hours if the unit has been operating in the cooling or dry mode for 10 minutes or more. About the cleaning operation · · · · The cleaning operation will not make the room cleaner or remove the mold and dust already inside the air conditioner. During operation, a small amount of frost may be visible: this is normal and does not indicate a malfunction.

The vertical airflow louvers and moving panel open slightly. If an ongoing cleaning operation is suspended, the effect of the cleaning will be compromised. To forcibly stop the cleaning operation, press the button twice during the cleaning operation. **EN 20 USUAL 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 Wipe with a dry cloth **CAUTION** · Use a dry cloth to wipe the indoor unit and remote controller.

· When the air conditioner is extremely dirty, use a cloth dipped in cold water to wipe the indoor unit. · Never use a damp cloth on the remote controller. · Do not use a chemical-based duster for wiping or leave such materials on the unit for extended periods of time. Doing so could damage or cause the surface of the unit to fade. · Do not use benzine, thinner, polishing powder, or other solvents for cleaning.

These can cause the plastic surface to crack or deform. Thinner Cooling with high temperature setting. When not using the unit for at least 1 month (1) Perform fan operation for 3 to 4 hours to dry the inside of the unit. · If a high temperature setting is used with cooling operation, fan operation is performed. (2) Stop the air conditioner and turn off the circuit breaker. (3) Clean the air filters. (4) Remove the batteries from the remote controller. Check before operation **CAUTION** · Check that the air filters are installed. · Check that the air outlet and inlet of the outdoor unit are not blocked. Air filter Cleaning the air filter Clean the air filters every 2 weeks.

The performance of the air conditioner will degrade if the air filters are covered with dust. Clean the air filters as often as possible. **21 EN Preparation: 1** Open the moving panel. Pull the handles on the bottom of the right and left sides, and open the moving panel until it is horizontal. **2** Be sure to always grasp the handles when opening the moving panel. (The moving panel cannot be removed.) Front panel Handle Moving panel **3** Support the moving panel with the panel support. Grasp the moving panel with your left hand, and use your right hand to pull up the panel support and fit it into the slot. Panel support Slot **4 5** Remove the air filter. Lift the air filter knob, and pull it out to the front.

Use a vacuum cleaner to remove the dust from the filters or wash them with water. After washing the air filters, dry them in the shade. **6 7** Insert the top section of the air filter so that its right and left edges fit on the indoor unit. Close the moving panel. Grasp the moving panel with your left hand, and use your right hand to lower the panel support downward, and push on the two locations shown in the figure to close it.

If the moving panel is opened, use the remote control to perform the start and stop operations. (The moving panel can be damaged if you try to close it with your hand while it is open.) **PUSH PUSH EN 22 AIR CONDITIONER OPERATION AND PERFORMANCE** Three-minute protection feature A protection feature is provided that 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 set to on. This is used to protect the machine. Heating characteristics Preheating operation The air conditioner does not deliver warm air immediately after it is started.

Warm air flows out after approximately 5 minutes when the indoor heat exchanger has warmed up. Warm air control When the room temperature reaches the temperature setting, the fan indoor speed is automatically reduced. The outdoor unit is stopped at this time. Defrosting If frost has formed on the outdoor unit during the heating operation, defrosting is started automatically (for approximately 5 to 10 minutes) to maintain the heating effect. · The fans in both the indoor and outdoor units stop during the defrost operation. · During the defrost operation, defrosted water is drained from the bottom plate of the outdoor unit. Heating capacity In the heating operation, heat is absorbed from outdoors and released into the room. That is called the heat pump system. When the outdoor temperature is too low, usage of another heating apparatus in combination with the air conditioner is recommended. Consideration for accumulated snow Select the position for the outdoor unit where it will not be subjected to snow drifts, accumulation of leaves or other seasonal debris.

It is important that the air flow of the outdoor unit is not blocked as this will result in reduced heating or cooling performance. During the heating mode and at sub-zero temperatures, the water drained off the outdoor unit as a result of the automatic defrost may accumulate and freeze.



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It is important that adequate drainage or a soak-way be provided. CAUTION (RAS-\*\*\*-ND model only) A heater is installed on the base plate of the outdoor unit. When the outside air temperature is low, the heater runs to warm the base plate even if the unit is not operating so that snow does not accumulate inside the outdoor unit. Do not use the supplied drain nipple for draining water. Drain the water from all the drain holes directly. Provide a space of at least 50 cm under the outdoor unit so that the draining water does not freeze and block the drain holes. Power failure Power failure during operation stops the unit completely. · The OPERATION indicator (green) on the indoor unit starts flashing when power is restored.

· To restart operation, push the button on the remote controller. · Lightning or a car wireless telephone operating nearby may cause the unit to malfunction. Turn the power supply switch off and then on again. Push the button on the remote controller to restart. Air conditioner operating conditions For proper performance, operate the air conditioner under the following temperature conditions.

Cooling operation Outdoor temperature: 10°C to 46°C Room temperature: 21°C to 32°C CAUTION Room relative humidity -- less than 80%. If the air conditioner operates outside this range, the surface of the air conditioner may attract condensation. Outdoor temperature: 15°C to 24°C Room temperature: Less than 28°C Outdoor temperature: 10°C to 46°C Room temperature: 21°C to 32°C Setting temperature: 5°C to 13°C Heating operation Dry operation 8°C Heating If the air conditioner is used in conditions other than above, the safety protection functions may be activated. 23 EN TROUBLESHOOTING

CAUTION If any of the following conditions occur, stop the air conditioner immediately, turn off the main power switch and contact the dealer. · The indicators flash at short intervals (5 Hz).

Reset the circuit breaker 2 to 3 minutes after the power main switch is turned off. Despite the resetting operation, the indicators still continue turning on and off. · The main power fuse often blows, or the circuit breaker is often activated. · Foreign matter or water has fallen inside the air conditioner. · Any other unusual conditions are observed. Before asking for servicing or repairs, check the following points. Inoperative · The power main switch is turned off. · The circuit breaker is activated to cut off the power supply. · The main power fuse has blown. · The electric current has stopped.

· The batteries in the remote controller used up. · The ON timer is set. · As a protective mechanism for the air conditioner, it does not operate for 3 minutes immediately after restarting operation or turning on the main power. EN Recheck Poor cooling or heating performance · The air inlet or outlet of the outdoor unit is blocked. · Doors or windows are opened. · The air filter is clogged with dust. · The louver is not at the correct position. · The fan speed is set to low. · The air conditioner is set to the DRY or SLEEP MODE. · The temperature setting is too high (during cooling operation).

· The temperature setting is too low (during heating operation). · Is the air conditioner being used outside its operating conditions? ( see page 23.) · The protective device may be activated if there is a change in voltage, the air inlet is blocked, or other condition causes an excessive load on the machine. Remove the cause of the problem, and after about 30 seconds, turn on the circuit breaker again. 24 Before asking for servicing or repairs, check the following points.

Condensation forms on the back of the indoor unit. · Condensation on the back of the indoor unit is automatically collected and drained out. Indoor unit or outdoor unit makes a strange noise. · When the temperature changes sharply, the indoor or outdoor unit may make a strange noise (such as a tit-tack noise or flowing noise) because of the expansion/contraction of parts or change in refrigerant flow. The room air smells.

A bad odor comes from the air conditioner. · Smells absorbed in the wall, carpet, furniture, clothing, or furs are coming out. · During PURE operation, a small amount of ozone is produced, and you might notice the smell. The OPERATION indicator turns on and off. @@@@ Water is drained from the outdoor unit. @@@@ · In the defrosting operation, the airflow from both the indoor and outdoor units stops. · A hiss sound is heard when the flow of the refrigerant is changed for defrosting. · The water resulting from automatic defrosting during the heating operation is drained from the outdoor unit. The air flow changes even though the FAN button is not set to the AUTO mode. @@@@ The PURE indicator (Orange) turns on.

@@@ · Some parts may expand or shrink due to temperature fluctuations, and this can result in a slapping sound. · When the refrigerant is flowing, a hissing sound or gurgling sound can result. · A hissing sound can be made when the air conditioner is switched to defrosting operation during heating operation. · An operation sound is made when the moving panel is opened and closed. Sounds made from the outdoor unit · A rustling sound can be made when the air conditioner is switched to defrosting operation during heating operation. EN These are not defects. 26 TROUBLESHOOTING (Remote Controller) Before asking for servicing or repairs, check the following points. The remote controller does not operate correctly. Symptoms The operating mode switches. Causes · Check whether the MODE indicated on the display is AUTO.

Possible Solution The fan speed and lower direction cannot be changed in AUTO mode. When the SWING, FIX or FAN buttons are pressed in AUTO mode, the mode changes to A mode. When dry operation is selected, the air conditioner automatically selects the fan speed. The fan speed can be selected during COOL and HEAT. AUTO The fan speed cannot be changed.

· Check whether the MODE indicated on the display is : DRY. : DRY The Display Goes Off Symptoms The indicators on the display are not shown after a short time. The TIMER display turns off after a certain period of time. Causes · Check whether the timer operation is over when the OFF TIMER is shown on the display. · Check whether the timer operation has started when the ON TIMER is shown on the display.

Description The air conditioner stops since the setting time has elapsed. When the time reaches the time setting for the ON timer operation, the air conditioner starts to operate automatically and the ON timer display turns off. : ON The Signal Receiving Tone Does Not Sound Symptoms No receiving tone is made from the indoor unit even when the button is pushed.



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Causes · Check whether the infrared signal transmitter of the remote controller is properly pointed towards the receiver of the indoor unit when the button is pushed. Description Point the infrared signal transmitter of the remote controller towards the receiver of the indoor unit, and then press the button repeatedly. 27 EN SPECIFICATIONS Type Model Indoor Unit RAS-07PKVP-E RAS-07PKVP-ND Power supply Cooling capacity Heating capacity Cooling current Cooling power Heating current Heating power Dimensions Net weight Type Model Indoor Unit RAS-13PKVP-E RAS-13PKVP-ND Power supply Cooling capacity Heating capacity Cooling current Cooling power Heating current Heating power Dimensions Net weight Type Model Indoor Unit RAS-18PKVP-E RAS-18PKVP-ND Power supply Cooling capacity Heating capacity Cooling current Cooling power Heating current Heating power Dimensions Net weight (kW) (kW) (A) (W) (A) (W) CAPA. CAPA. AMP. WATT. AMP.

WATT. 0.300.28 40 0.300.28 40 790 295 242 12 220240 V ~50 Hz 220230 V ~60 Hz 5.0 6.0 6.686.12 1450 6.  
866.29 1500 780 550 290 40 (kW) (kW) (A) (W) (A) (W) CAPA. CAPA. AMP. WATT.  
AMP. WATT. 0.240.22 30 0.  
240.22 30 790 295 242 12 (kW) (kW) (A) (W) (A) (W) CAPA. CAPA. AMP. WATT. AMP. WATT. 0.210.19 25 0.

210.19 25 790 295 242 12 Reverse cycle, Split type Outdoor Unit RAS-07PAVP-E RAS-07PAVP-ND Indoor Unit RAS-10PKVP-E RAS-10PKVP-ND Outdoor Unit RAS-10PAVP-E RAS-10PAVP-ND 220240 V ~50 Hz 220230 V ~60 Hz 2.0 2.5 1.861.70 330 2.352.15 415 780 550 290 39 220240 V ~50 Hz 220230 V ~60 Hz 2.5 3.0 0.

210.19 25 0.210.19 25 790 295 242 12 2.192.

01 450 2.562.35 535 780 550 290 39 Width (mm) Height (mm) Depth (mm) (kg) Reverse cycle, Split type Outdoor Unit RAS-13PAVP-E RAS-13PAVP-ND Indoor Unit RAS-16PKVP-E RAS-16PKVP-ND Outdoor Unit RAS-16PAVP-E RAS-16PAVP-ND 220240 V ~50 Hz 220230 V ~60 Hz 3.5 4.0 3.  
443.15 740 3.773.46 810 780 550 290 40 220240 V ~50 Hz 220230 V ~60 Hz 4.5 5.5 0.270.25 35 0.270.25 35 790 295 242 12 5.

545.08 1195 5.975.47 1305 780 550 290 40 Width (mm) Height (mm) Depth (mm) (kg) Reverse cycle, Split type Outdoor Unit RAS-18PAVP-E RAS-18PAVP-ND Width (mm) Height (mm) Depth (mm) (kg) · These specifications are subject to change without notice for the purpose of incorporating technical improvements. EN 28 The specified air-conditioning performance is based on the data determined under the following conditions. For cooling Air inlet temperature °C Indoor coil assembly Dry bulb 27 Wet bulb 19 Outdoor coil assembly Dry bulb 35 Wet bulb 24 Dry bulb 20 For heating Air inlet temperature °C Indoor coil assembly Wet bulb -- Outdoor coil assembly Dry bulb 7 Wet bulb 6 29 EN Information according to EMC Directive 2004/108/EC (Name of the manufacturer) (Address, city, country) (Name of the Importer / Distributor in EU) (Address, city, country) TOSHIBA CARRIER CORPORATION 336 Tadehara, Fuji-shi, Shizuoka-ken, 416-8521 Japan Toshiba Carrier UK Ltd. Porsham Close, Belliver Industrial Estate, PLYMOUTH, Devon, PL6 7DB. United Kingdom EG44550301 .



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