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You can read the recommendations in the user guide, the technical guide or the installation guide for HITACHI RAS-S18H2. You'll find the answers to all your questions on the HITACHI RAS-S18H2 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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User guide HITACHI RAS-S18H2  
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**SPLIT TYPE AIR CONDITIONER**

**INDOOR UNIT/OUTDOOR UNIT**

**MODEL**

**RAS-S18H2 / RAC-S18H2**

OUTDOOR UNIT



RAC-S18H2

INDOOR UNIT



RAS-S18H2



<p><b>Instruction manual</b> Page 1-26 To obtain the best performance and ensure years of trouble free use, please read this instruction manual completely.</p> <p><b>Bedienungsanleitung</b> Seite 27-82 Bitte lesen Sie diese Bedienungsanleitung aufmerksam durch, um durch richtige Bedienung jahrelangen und störungsfreien Betrieb zu gewährleisten.</p> <p><b>Mode d'emploi</b> Page 83-78 Des performances optimales et un fonctionnement à long terme sont assurés en appliquant les présentes instructions après avoir entièrement lu ce mode d'emploi.</p> <p><b>Manuale di istruzioni</b> Pag. 79-104 Per garantire la migliore prestazione e la più lunga durateleggere attentamente e al completo le seguenti istruzioni.</p>	<p><b>Manual de instrucciones</b> Página 105-130 Para obtener el mejor funcionamiento y asegurar años de uso libre de problemas, lea cuidadosamente este manual de instrucciones.</p> <p><b>Manual de instruções</b> Página 131-156 A fim de obter um bom funcionamento e de garantir uma utilização sem falhas durante muitos anos, é favor ler este manual de instruções completamente.</p> <p><b>Объяснение</b> Страницы 157-182 Для получения наилучшей работы кондиционера на протяжении многих лет необходимо полностью ознакомиться с данной инструкцией по эксплуатации.</p> <p><b>Инструкция по эксплуатации</b> стр. 183-208 Для обеспечения наилучшей эксплуатационных характеристик и наиболее безопасной работы оборудования необходимо полностью ознакомиться с данной Инструкцией по эксплуатации.</p>
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**Manual abstract:**

@Manual de instruções Página 131~156 A fim de obter um bom funcionamento e de garantir uma utilização sem falhas durante muitos anos, é favor ler este manual de instruções completamente. O E A > A ~ X A E U E U I O T M A I > . 157~182 ° E . U E O I - I U A U E O - U < . f i O U E I - E U E O I - I U O - U j i O E . I - E ^ U > ~ U O , I < i . U . ^ U < U E U E ~ U U I A < ~ . U < ~ , . U . f . i O I A E , ; U U A I < U ^ ~ U E ~ O E A > A ~ A E U E U I O U E ~ . . 183~208 . 1 ENGLISH SAFETY PRECAUTION G G G Please read the "Safety Precaution" carefully before operating the unit to ensure correct usage of the unit. Pay special attention to signs of " ! Warning " and " ! Caution ". The "Warning" section contains matters which, if not observed strictly, may cause death or serious injury. The "Caution" section contains matters which may result in serious consequences if not observed properly. Please observe all instructions strictly to ensure safety. The sign indicate the following meanings.

Make sure to connect earth line. Indicates the instructions that must be followed. The sign in the figure indicates prohibition. G Please keep this manual after reading. PRECAUTIONS DURING INSTALLATION G Do not reconstruct the unit.

Water leakage, fault, short circuit or fire may occur if you reconstruct the unit by yourself. Please ask your sales agent or qualified technician for the installation of your unit. Water leakage, short circuit or fire may occur if you install the unit by yourself. Please use earth line. Do not place the earth line near water or gas pipes, lightning-conductor, or the earth line of telephone.

Improper installation of earth line may cause electric shock. A circuit breaker should be installed depending on the mounting site of the unit. Without a circuit breaker, the danger of electric shock exists. Do not install near location where there is flammable gas. The outdoor unit may catch fire if flammable gas leaks around it. Please ensure smooth flow of water when installing the drain hose. ! WARNING G G ! CAUTION G G G PRECAUTIONS DURING SHIFTING OR MAINTENANCE ! W A R N I N G G Should abnormal situation arises (like burning smell), please stop operating the unit and turn off the circuit breaker.

Contact your agent. Fault, short circuit or fire may occur if you continue to operate the unit under abnormal situation. Please contact your agent for maintenance.

Improper self maintenance may cause electric shock and fire. Please contact your agent if you need to remove and reinstall the unit. Electric shock or fire may occur if you remove and reinstall the unit yourself improperly. G G PRECAUTIONS DURING OPERATION ! W A R N I N G G Avoid an extended period of direct air flow for your health. G Do not insert a finger, a rod or other objects into the air outlet or inlet. As the fan is rotating at a high speed, it will cause injury. Before cleaning, be sure to stop the operation and turn the breaker OFF. G Do not use any conductor as fuse wire, this could cause fatal accident. G During thunder storm, disconnect and turn off the circuit breaker. 2 PRECAUTIONS DURING OPERATION G The product shall be operated under the manufacturer specification and not for any other intended use.

G Do not attempt to operate the unit with wet hands, this could cause fatal accident. G When operating the unit with burning equipments, regularly ventilate the room to avoid oxygen insufficiency. G Do not direct the cool air coming out from the air-conditioner panel to face household heating apparatus as this may affect the working of apparatus such as the electric kettle, oven etc. G Please ensure that outdoor mounting frame is always stable, firm and without defect. If not, the outdoor unit may collapse and cause danger.

G Do not splash or direct water to the body of the unit when cleaning it as this may cause short circuit. G ! C A U T I O N Do not use any aerosol or hair sprays near the indoor unit. This chemical can adhere on heat exchanger fin and blocked the evaporation water flow to drain pan. The water will drop on tangential fan and cause water splashing out from indoor unit. G Please switch off the unit and turn off the circuit breaker during cleaning, the high-speed fan inside the unit may cause danger.

G Turn off the circuit breaker if the unit is not to be operated for a long period. G Do not climb on the outdoor unit or put objects on it. G Do not put water container (like vase) on the indoor unit to avoid water dripping into the unit. Dripping water will damage the insulator inside the unit and causes short-circuit. G Do not place plants directly under the air flow as it is bad for the plants. When operating the unit with the door and windows opened, (the room humidity is always above 80%) and with the air deflector facing down or moving automatically for a long period of time, water will condense on the air deflector and drips down occasionally. This will wet your furniture. Therefore, do not operate under such condition for a long time. G If the amount of heat in the room is above the cooling or heating capability of the unit (for example: more people entering the room, using heating equipments and etc.), the preset room temperature cannot be achieved.

G This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely. G Young children should be supervised to ensure that they do not play with the appliance. G 3 ENGLISH NAMES AND FUNCTIONS OF EACH PART INDOOR UNIT Air filter To prevent dust from coming into the indoor unit. (Refer page 21) Front panel Indoor unit indicators Light indicator showing the operating condition. (Refer page 5) Horizontal deflector (Air Outlet) (Refer page 16) G Vertical deflector Remote controller Send out operation signal to the indoor unit. So as to operate the whole unit. (Refer page 6) OUTDOOR UNIT DRAIN PIPE Condensed water drain to outside. CONNECTING CORD AIR INLET (BACK, LEFT SIDE) AIR OUTLET MODEL NAME AND DIMENSIONS MODEL RAS-S18H2 RAC-S18H2 WIDTH (mm) 780 850 HEIGHT (mm) 280 650 DEPTH (mm) 215 298 4 INDOOR UNIT INDICATORS FILTER LAMP When the device is operated for a total of about 100 hours, the FILTER lamp lights to indicate that it is time to clean the filter.



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**OPERATION LAMP** This lamp lights during operation. The OPERATION LAMP flashes in the following cases during heating.

(1) During preheating For about 23 minutes after starting up. (2) During defrosting Defrosting will be performed about once every one hour when frost forms on the heat exchanger of the outdoor unit, for 510 minutes each time. **TIMER LAMP** This lamp lights when the timer is working. **TEMPORARY SWITCH OPERATION INDICATOR** Temporary Switch **TEMPORARY SWITCH** Press Non-conductor Stick **TEMPORARY SWITCH** Use this switch to start and stop when the remote controller does not work. [Use non-conductor stick (example toothpick)] G G By pressing the temporary switch, the operation is done in previously set operation mode.

When the operation is done using the temporary switch after the power source is turned off and turn on again, the operation is done in automatic mode. 5 **ENGLISH NAMES AND FUNCTIONS OF REMOTE CONTROL UNIT REMOTE CONTROLLER** G This controls the operation of the indoor unit. The range of control is about 7 meters. If indoor lighting is controlled electronically, the range of control may be shorter. This unit can be fixed on a wall using the fixture provided.

Before fixing it, make sure the indoor unit can be controlled from the remote controller. G Handle the remote controller with care. Dropping it or getting it wet may compromise its signal transmission capability. G After new batteries are inserted into the remote controller, the unit will initially require approximately 10 seconds to respond to commands and operate. G Signal emitting window/transmission sign °CH G G G G G °CH G RESET G G G G **AUTO HEAT DEHUMIDIFY COOL FAN FAN SPEED LOW MED HI** G G Point this window toward the indoor unit when controlling it. The transmission sign blinks when a signal is sent. Display This indicates the room temperature selected, current time, timer status, function and intensity of circulation selected. **START/STOP** button Press this button to start operation. Press it again to stop operation. **SLEEP** button Use this button to set the sleep timer.

**TEMPERATURE** buttons Use these buttons to raise or lower the temperature setting. (Keep pressed, and the value will change more quickly.) **TIME** button Use this button to set and check the time and date. **RESET** buttons **FUNCTION** selector Use this button to select the operating mode. Every time you press it, the mode will change from (AUTO) to (HEAT) to (DEHUMIDIFY) to (COOL) and to (FAN) cyclically. **FAN SPEED** selector This determines the fan speed. Every time you press this button, the intensity of circulation will change from (AUTO) to (HI) to (MED) to (LOW) (This button allows selecting the optimal or preferred fan speed for each operation mode). **AUTO SWING** button Controls the angle of the horizontal air deflector. **TIMER** control Use this button to set the timer. **OFF-TIMER** button Select the turn OFF time.

**ON-TIMER** button Select the turn ON time. **RESERVE** button Time setting reservation. **CANCEL** button Cancel time reservation. **SLEEPING STOP (CANCEL) START (RESERVE) START/STOP TIME TIMER SET TIMER SELECTOR ON TIMER OFF TIMER** Precautions for Use Do not put the remote controller in the following places. G Under direct sunlight.

G In the vicinity of a heater. G Handle the remote controller carefully. Do not drop it on the floor, and protect it from water. G Once the outdoor unit stops, it will not restart for about 3 minutes (unless you turn the power switch off and on or unplug the power cord and plug it in again). This is to protect the device and does not indicate a failure.

G If you press the **FUNCTION** selector button during operation, the device may stop for about 3 minutes for protection. G **AUTO SWING 6 VARIOUS FUNCTIONS** I Auto Restart Control G If there is a power failure, operation will be automatically restarted when the power is resumed with previous operation mode and airflow direction. (As the operation is not stopped by remote controller.) G If you intend not to continue the operation when the power is resumed, switch off the power supply. When you switch on the circuit breaker, the operation will be automatically restarted with previous operation mode and airflow direction. Note: 1. If you do not require Auto Restart Control, please consult your sales agent or OFF by remote control. 2. Auto Restart Control is not available when Timer or Sleep Timer mode is set. **AUTOMATIC OPERATION** The device will automatically determine the mode of operation, HEAT, COOL or DEHUMIDIFY (emitting air) as soon as the room temperature becomes lower than the setting temperature.

9 **ENGLISH COOLING OPERATION** Use the device for cooling when the outdoor temperature is -10~43°C. If in doors humidity is very high (80%), some dew may form on the air outlet grille of the indoor unit. °C 1 Press the **FUNCTION** selector so that the display indicates (COOL). Set the desired **FAN SPEED** with the (the display indicates the setting). (**FAN SPEED**) button **RESET 2 (AUTO)**: The **FAN SPEED** is HI at first and varies to MED or LOW automatically when the preset temperature has been reached. (HI) : Economical as the room will become cool quickly. (MED) : Fan speed slow. (LOW) : Fan speed slower. Set the desired room temperature with the **TEMPERATURE** button (the display indicates the setting). The temperature setting and the actual room temperature may vary some how depending on conditions.

3 °C Press the (**START/STOP**) button. Cooling operation starts with a beep. Press the button again to stop operation. The **START** cooling function does not start if the temperature setting is **STOP** higher than the current room temperature (even though the (**OPERATION**) lamp lights). The cooling function will start as soon as you set the temperature below the current room temperature.

I As the settings are stored in memory in the remote controller, you (**START/STOP**) button next time. only have to press the 10 **FAN OPERATION** You can use the device simply as an air circulator. Use this function to dry the interior of the indoor unit at the end of summer. 1 2 **RESET** Press the **FUNCTION** selector so that the display indicates (FAN). Press the (**FAN SPEED**) button.

**START STOP** Press the (**START/STOP**) button. Fan operation starts with a beep. Press the button again to stop operation. **FAN SPEED (AUTO)** ..... When the **AUTO** fan speed mode is set in the cooling/heating operation: G G G For the heating operation The fan speed will automatically change according to the temperature of discharged air. When the difference of room temperature and setting temperature is large, fan starts to run at HI speed.

When the room temperature reaches setting temperature, fan speed changes to LOW automatically. When the difference of room temperature and setting temperature is large, fan starts to run at HI speed. After room temperature reaches the preset temperature, the cooling operation, which changes the fan speed and room temperature to obtain optimum conditions for natural healthful cooling will be performed.



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G For the cooling operation G 11 ENGLISH HOW TO SET THE TIMER Time, Day, Month TIME, DAY, MONTH (current time, day, month) After you change the batteries; Set the current month and day with the TIMER control button. 1 M D M D OFF TIMER RESET ON TIMER RESERVE CANCEL OFF-Timer Press the (OFF-TIMER) button. The (OFF) mark blinks on the display. Start 1 STOP AM You can set the device to turn off at the present time. ON-Timer Stop Start G The device will turn on at the designated times. Press the (ON-TIMER) button the (ON) mark blinks on the display. 1 AM ON/OFF-Timer Start Stop 1 Press the button so that the mark blinks.

(ON-OFF) (OFF) G The device will turn on (off) and off (on) at the designated times. G The switching occurs first at the preset time that comes earlier. G The arrow mark appearing on the display indicates the sequence of switching operations. Set the turn-off time with the TIMER control button. Press the (RESERVE) button.

PM 2 Press the (ONTIMER) button so that the (OFF) mark lights and the (ON) mark blinks. PM 3 PM AM How to Cancel Reservation Point the signal window of the remote controller toward the indoor unit, and press the (CANCEL) button. The (RESERVED) sign goes out with a beep and the (TIMER) lamp turns off on the indoor unit. NOTE You can set only one of the OFF-timer, ON-timer and ON/OFF-timer. 12 Press the (TIME) button.

2 Set the current time with the TIMER control button. 3 Press the (TIME) button again. The time indication starts lighting instead of flashing. G The time indication will disappear 4 automatically in 10 second. PM AM PM PM G To check the current time setting, press the (TIME) button twice. Example: The current time is 1:30 p.m. The setting of the current time is now complete. Set the turn-off time with the TIMER control button. PM 2 Point the signal window of the remote controller toward the indoor unit, and press the (RESERVE) button.

The (OFF) mark starts lighting instead of flashing and the sign (RESERVED) lights. A beep occurs and the (TIMER) lamp lights on the indoor unit. PM 3 Example: The device will turn off at 11:00p.m. The setting of turn-off time is now complete. Set the turn-on time with the TIMER control button. 2 Point the signal window of the remote controller toward the indoor unit, and press the (RESERVE) button. The (ON) mark starts lighting instead of flashing and the (RESERVED) sign lights. A beep occurs and the (TIMER) lamp lights on the indoor unit. Example: The device will turn on at 7:00 a.

m. The setting of the turn-on time is now complete. 3 AM AM Set the turn-on time with the TIMER control button. 4 Point the signal window of the remote controller toward the indoor unit, and press the (RESERVE) button. The (ON) mark starts lighting instead of flashing and the (RESERVED) sign lights.

A beep occurs and the (TIMER) lamp lights on the indoor unit. PM 5 PM Example: The device will turn off at 10:30 p.m. and it will be turned on at 7:00 a.m. The settings of the turn-on/off times are now complete. AM AM G The timer may be used in three ways: off-timer, on-timer, and ON/OFF (OFF/ON)-timer.

Set the current time at first because it serves as a reference. As the time settings are stored in memory in the remote controller, you only have to press the (RESERVE) button in order to use the same settings next time. G 13 ENGLISH HOW TO SET THE SLEEP TIMER Set the current time at first if it is not set before (see the pages for setting the current time). Press the (SLEEP) button, and the display changes as shown below. Mode H Indication 41 Sleep timer hour

42 hours 4 3 hours Sleep timer off 1 47 hours SLEEP Sleep Timer: The device will continue working for the designated number of hours and then turn off. Point the signal window of the remote controller toward the indoor unit, and press the SLEEP button. The timer information will be displayed on the remote controller. The TIMER lamp lights with a beep from the indoor unit.

When the sleep timer has been set, the display indicates the turn-off time. Example: If you set 3 hours sleep time at 11:38 p.m., the turn-off time is 2:38 a.m. H Sleep timer Start The device will be turned off by the sleep timer and turned on by on-timer. 1 Set the ON-timer. 2 Press the (SLEEP) button and set the sleep timer. AM For heating: In this case, the device will turn off in 2 hours (at 1:38 a.m.

) and turn on early so that the preset temperature will be almost reached at 6:00 next morning. H AM How to Cancel Reservation Point the signal window of the remote controller toward the indoor unit, and press the (CANCEL) button. The (RESERVED) sign goes out with a beep and the (TIMER) lamp turns off on the indoor unit. 14 Explanation of the sleep timer The device will control the FAN SPEED and room temperature automatically so as to be quiet and good for people's health. NOTE G G If date or current time is not set, sleep timer can not be set.

If you set the sleep timer after the off-, on/off- or off/on-timer has been set, the sleep timer becomes effective instead of the off-, on/ off- or off/on-timer set earlier. You can not set other timer during sleep timer operation. After sleep timer time is up and when press sleep button again, the sleep timer will be set as last setting. Sleep timer effective only once. G G G 15 ENGLISH ADJUSTING THE AIR DEFLECTOR 1 Adjustment of the conditioned air in the upward and downward directions.

The horizontal air deflector is automatically set to the proper angle suitable for each operation. The deflector can be swung up and down continuously and also set to the desired angle using the "(AUTO SWING)" button. RESET G If the "(AUTO SWING)" button is pressed once, the horizontal air deflector swings up and down. If the button is pressed again, the deflector stops in its current position. Several seconds (about 6 seconds) may be required before the deflector starts to move. Use the horizontal air deflector within the adjusting range shown on the right. When the operation is stopped, the horizontal air deflector moves and stops at the position where the air outlet closes. When cooling, dehumidifying Vertical about 15 about 60 G G !

@@@CAUTION 1. @.@. @@@@Caution Do not close the room for a long period of time.

@@This will enable you to enjoy a comfortable room temperature. @@@@The cooling capacity is slightly weakened and the cooling speed becomes slower when the air cleansing filters are used. So, set the fan speed to "HIGH" when using it in this condition. Air cleansing filters are not washable and can be use in 1 year time. Type number for this air cleansing filter is <SPX-CFH15>.



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