

## OWNER'S INSTRUCTIONS

AW12ZKA AW18ZKA AW24ZKB

## Window-type Room Air Conditioner (Cool)



## **Safety Precautions**

The following safety precautions must be taken when installing and using your air conditioner.

- 1 The air conditioner must be plugged into its own specific power source, which must be installed in compliance with national wiring, earthing and safety regulations.
  - Depending on national regulations and your specific installation, you may need to install: A circuit breaker
  - For further information on electrical requirements, contact a professional electrician.

This device must be installed according to the national electrical rules.

- 2 Make sure that the unit is correctly ventilated at all times; do NOT place clothing or other materials over it.
- **3** NEVER spill liquids of any kind into the unit. Should this happen, unplug the unit and contact your installation specialist.
- **4** Do NOT insert anything between the air outlet blades, as it may damage the inner fan and you may be hurt. Keep children away from the unit.
- 5 ALWAYS ensure that the power cable is in good condition. If the power cord is damaged in any way, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- 6 Do NOT attempt to repair the unit yourself. If it is damaged in any way, contact: An authorized service center
  - The dealer from whom you purchased the air conditioner.
- 7 Do NOT place any blocking objects in front of the unit.
- 8 If the remote control will not be used for a long time, remove the batteries.
- **9** Before throwing out the device, it is necessary to pull back the battery cells and get rid of them safely.

#### CAUTION

The manufacturer does not assume responsibility for accidents or injury caused by an incorrectly installed air conditioner. If you are unsure about installation, contact an installation specialist.



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	CAUTION "The high inrush current of the starting compressor motor can have adverse effects to the operation of other equipment under unfavorable mains conditions. This equipment does not comply with the relevant technical standards for the limitation of voltage fluctuations and flicker." Before connecting this equipment to the power supply system, please report to your supply authority and obtain the consent. Do not connect other electric appliances to the same supply lines.	





#### Getting Started

You have just purchased a window-type room air conditioner and it has been installed by your installation specialist.

Your Owner's Instructions contain valuable information on using your air conditioner. Please take the time to read them as they will help you take full advantage of the unit's functions.

This Owner's Instructions is just for using your air conditioner correctly. Thus, the illustrations shown in this manual may not exactly match your air conditioners.

The booklet is organized as follows.

- The following figures are shown on pages 4 and 5:
  - Air conditioning unit (main parts, buttons and display)
  - Remote control (buttons)

They will help you find the buttons and understand the symbols displayed.

 In the main part of the document, you will find a series of step-by-step procedures for each function available.

The illustrations in the step-by-step procedures use four different symbols:



Moreover, applicable, wherever the illustrations show the positions of the buttons on both the remote control and the unit itself.

For the	The illustrations have a
Remote control	Gray background. Example:
Unit itself	White background. Example:

Eð

## **Inserting the Remote Control Batteries**

You must insert or replace the remote control batteries when:

- You purchase the air conditioner
- The remote control does not work correctly
- Use two AAA, LR03 1.5 V batteries. Do not use old batteries or different kinds of batteries together.

Batteries may be completely discharged after 12 months, even if they have not actually been used.

- 1 Push the battery cover on the rear of the remote control with your thumb in the direction of the arrow and remove it.
- Insert the two batteries, taking care to respect the polarities:
   + on the battery with + on the remote control
   on the battery with on the remote control
- 3 Close the cover by sliding it back until it clicks into place.

<u>Result</u>: You can control all the functions on your air conditioning unit directly from your seat, using the remote control.





Cooling Your R	oom
	You must select the Cool mode if you wish to lower the temperature in your room. You can also set the fan speed.
e Control Control Panel	1       If necessary, press the <sup>(1)</sup> (On/Off) button. <u>Result</u> :       ◆ The operating mode indicator (COOL or FAN) on the unit comes on.         ◆ The air conditioner starts up in the mode selected when the unit was last used.         ◆ The unit beeps twice.         (● The air conditioner is fitted with a protection mechanism to prevent the unit from being damaged when it is started immediately after being:         ● Plugged in         ● Stopped
Fan Mode Cool	It will start up automatically after about three minutes.         2       If the COOL indicator is not lit up on the unit:         •       Press the cool button on the remote control or         or       •         •       Press the MODE button on the unit one or more times until the COOL indicator lights up         Result:       •         •       The unit beeps each time you press MODE.         •       •         •       The air conditioner starts up in Cool mode.         >       You can change modes at any time.
Temp	<ul> <li>3 To adjust the temperature, press the  or  button on the remote control one or more times until the required temperature is displayed. To adjust the temperature, press the  or  vor  button on the unit one or more times until the required temperature is displayed.</li> <li>Possible temperatures are between 18°C and 30°C inclusive.</li> <li><u>Result</u>: </li> <li>Each time you press the temperature buttons:</li> <li>The temperature is adjusted by 1°C and displayed on the control panel</li> <li>The air conditioner starts cooling if the room temperature is higher than the selected temperature.</li> </ul>
High Med Low Fan	4       To set the fan speed to       Then         High       ◆ Press the 
	indicator lights up         Low <ul> <li>Press the <ul></ul></li></ul>
	Result:         Each time you press a button, the unit beeps.
E-8	5 To control the direction of the air flow, refer to page 10.

#### **Airing Your Room**

If the atmosphere in your room is stale, you can air it using the Fan feature and if necessary, evacuate the stale air outside.

- 1 If you wish to evacuate stale air outside, push the ventilation lever on the front of the unit to the right and the open position (  $\sum$  ).
  - Result: The air inside the room circulates and stale air is evacuated outside.

Otherwise, push the ventilation lever to the left and the closed position ( ).

Result: The air simply circulates inside the room.

Remote Control Panel

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(

Fan

Cool

- 2 If necessary, press the (<sup>1</sup>) (On/Off) button. <u>Result</u>: ◆ The operating mode indicator (0
  - t: The operating mode indicator (COOL or FAN) on the unit comes on.
    - The air conditioner starts up in the mode selected when the unit was last used.
    - The unit beeps twice.

#### 3 If the FAN indicator is not lit up on the unit:

- Press the Fan button on the remote control
- <u>or</u>
   Press the MODE button on the unit one or more times until the FAN indicator lights up
- Result: 

  The unit beeps each time you press MODE.
  The air conditioner starts up in Fan mode.
- You can change modes at any time.
   When the air conditioner is in Fan mode, the temperature is not displayed; in this case, you do not need to set the temperature.

# 4 To set the fan speed to... Then... High Press the Press the Press the Press the Press the Press the Dutton on the remote control. Med Press the Dutton on the remote control. Press the Dutton on the remote control.

- or Press the Intigent on the unit until the ♥ indicator lights up

   Low
   Press the <implement on the remote control.</td>

   or Press the Intigent on the unit until the ♥ indicator lights up

   Result:
   Each time you press a button, the unit beeps.
- 5 To control the direction of the air flow, refer to page 10.



## Adjusting the Air Flow Direction Horizontally

**Remote Control** 



Depending on the position of the unit in your room, you can adjust the orientation of the inner air flow blades on the right-hand side of the unit, thus increasing the efficiency of the air conditioner.

- Press the 🙆 button on the remote control. 1 The inner blades swing automatically left and right. Result:
- To stop the blades moving left and right, press the (1) button on the remote 2 control.
  - To stop the blades in a specific position and orient the air flow in the corresponding direction, simply press the a button on the remote  $\succ$ control when the blades are in the desired position.

## Adjusting the Air Flow Direction Vertically

Again depending on the position of the unit in your room, you can adjust the orientation of the outer air flow blades on the right-hand side of the unit.



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RECOMMENDATION	When	Adjust the blades to face
	Cooling	Upwards.

Adjust the air flow blades to the desired position, by pushing them upwards or downwards.

- If you orient the air flow blades downwards and the unit operates in Cool mode  $\mathbf{\Sigma}$ for a long period of time, dew may: Form on the surface of the blades

  - Drip from the blades

#### Setting the On timer

The On Timer enables you to switch on the air conditioner automatically after a given period time. You can set the period of time from 1 hour to 24 hours. You can select the On timer only when the air conditioner is off.

- 1 Check that the air conditioner has been switched off; if necessary, press the () (On/Off) button.
- **Remote Control**

**Control Panel** 



- Set the required mode by pressing the appropriate button: ٠

  - Cool or Fan on the remote control Mode button on the unit (press it one or more times until the ٠ appropriate operating mode indicator lights up)
- Set the operating time by pressing:
- Timer on the remote control. ٠
  - or Timer on the unit one or more times. ٠

Possible time is between 1 hour and 24 hour inclusive.

Result: The remaining time is displayed and decreased by 1 hour automatically to indicate the remaining time.

- ٠ The air conditioner switches on automatically when the operating time reaches zero.
- $\succ$  You can change the setting mode, fan speed, and air flow direction after setting the On timer.

## To Cancel the On Timer

#### To cancel the timer, press:

Timer on the remote control or unit one or more times until "---" is displayed.

or

٠

2

3

 $\overline{\bullet}$  on the remote control or unit (The air conditioner operates in the mode ٠ selected when the unit was last used.)





Setting the Off Timer		
Remote Control Control Panel	The Off Timer enables you to switch off the air conditioner automatically after a given period of time. You can set the period of time from 1 hour to 24 hours. You can select the Off timer only when the air conditioner is on. 1 Check that the air conditioner has been switched on; if necessary, press the ① (On/Off) button.	
tipe tipe tipe tipe tipe tipe tipe tipe	<ul> <li>2 Set the operating time by pressing:</li> <li>Timer on the remote control <u>or</u></li> <li>Timer on the unit one or more times.</li> <li>Possible times are between 1 hour and 24 hour inclusive.</li> <li><u>Result</u>: • The remaining time is displayed and decreased by 1 hour automatically to indicate the remaining time.</li> <li>The air conditioner switches off automatically when the operating time reaches zero.</li> <li>You can change the setting mode, fan speed, and air flow direction after setting the Off timer.</li> </ul>	
Timer Bio Seep Speed	To Cancel the Off Timer To cancel the timer, press: • Timer on the remote control or unit one or more times until "" is displayed. gr • () on the remote control or unit (The air conditioner operates in the mode selected when the unit was last used.)	
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#### Selecting Bio Sleep Mode

Bio Sleep mode helps users to fall asleep well after going to bed whether being too hot to sleep or being awakened by coldness. The Bio Sleep Mode can be selected only when the air conditioner is switched on or off in cool mode.

The Bio Sleep function can be set whether the air conditioner is

switched on or off,and this function can be selected for any mode.
Press the D button on the remote control

Press the Been button on the unit . <u>Result:</u> • Each time you press a

- It: Each time you press a butoon, the unit beeps.

  - The remaining time is displayed and decreased by 1 hour automatically to indicate the remaining time.
  - If Bio Sleepis selected after switching on the unit ,the air conditioner will run in Cool mode. During this period, the temperature displayed is one you set for the Cool mode. If the Bio Sleep is selected before switch on the unit, the air conditioner starts running in Cool mode and the temperature is set to 26 °C.
  - The fan is running in low mode, and you can adjust the speed.

## In cool mode

Bio Sleep Mode keeps the skin temperature at the best during the 3 stages such as, Falling Asleep stage → Sound Sleep Stage → Wake Up Stage in order.

- ① Falling Asleep Stage :
  - This stage supports environment to quickly cool down. Together with comfortable intermittent air, you will be able to fall asleep quickly.
- ② Sound Sleep Stage :
  - This stage helps users to take deep sleep and keep the healthy skin by controlling wavy temperature control and insensible air stream.
- ③ Wake Up Stage :

This stage supports comfortable intermittent air to the room to raise human body temperature for refreshing wake up.



\* The above temperature graph might be indicated differently from the temperature indicator of indoor unit depending on the user's lacation.

- ► The recommended temperature is set between 25°C and 27°C, and 26°C is the most ideal temperature for comfortable sleep.
- Airflow blades(left and right swing) and fan speed are controlled automatically as the above 3 stages in Bio Sleep Mode.
- ► Set Off timer in Bio Sleep Mode over 5 hours. You feel disturbed sleep if the Good Morning is set too short or long because the basic off timer is set for 8 hours. If the Bio Sleep Mode is set less than 4 hours, the operation will be
- ► stopped after the set time. If the Bio Sleep Mode is set over 5 hours, it will run as Wake Up stage for the last one hours before stop.

Remote Control Control Panel







#### To Cancel the Bio Sleep Mode

If you no longer wish to use the Bio Sleep mode that you have set, you can cancel it at any time.

1	Press the⊚ button on the remote control. or
	press the $\textcircled{0}$ button on the unit to switch off the air conditioner.
2	To cancel a selected Bio Sleep mode, you can also press the 🖄
	or press the , Eswer, Mode) or Timer button on the unit.
Result:	<ul> <li>The unit beeps.</li> <li>The <sup>1</sup>/<sub>2</sub> indicator is no longer displyed.</li> </ul>
	<ul> <li>The air conditioner operates in the mode selected last.</li> </ul>
>	If you select the Energy Saving mode in the Bio Sleep mode, the Bio Sleep mode will be canceled and the air conditioner will start up in the Energy Saving mode.

## **Selecting Smart Saving Mode**







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If you wish to save smart when using your air conditioner, select the smart saving mode with the Smart Saver button.

- 1 To select the smart saving mode, press the Smart Saver button on the remote control or unit one or more times until the Smart Saver indicator lights up.
  - Result:

     The fan and compressor cycle on and off together.
     The fan will continue to run for a short time after the compressor cycles off.
  - If you would like the air conditioner to run in Fan mode, do not press the Smart Saver button. You cannot use the Fan mode in the saving mode.
- 2 To stop the smart saving mode, press the Smart Saver button on the remote control or unit again.
  - Result: The fan runs at all times, while the compressor cycles on and off.
  - If you select the Sleep Timer in the Smart Saving mode, the Smart Saving will be cancelled and the air conditioner will start up in the Sleep Timer mode.

## **Operating Recommendations**

Here are a few recommendations that you should follow when using your air conditioner.

Торіс	Recommendation
Power failure	If a power failure occurs when the air conditioner is operating, the unit is switched off. When the power returns, the air conditioner starts up again automatically.

## **Temperature and Humidity Ranges**

The following table indicates the temperature and humidity ranges within which the air conditioner can be used.

Mode	Indoor Temperature	Outdoor Temperature	Indoor Humidity
Cooling	21°C to 32°C approx.	21°C to 54°C approx.	80% or less
f the air conditioner is used at		Then	
Higher temperatures		The automatic protection feature may be triggered and the air conditioner stopped.	
Lower temperatures		A water leakage or some other malfunction may happen if the heat exchanger freezes.	
Higher humidity levels		Water may condense on and drip from the surface of the unit if it is used for long periods.	



## **Solving Common Problems**

Before contacting the after-sales service, perform the following simple checks. They may save you the time and expense of an unnecessary service call.

Problem	Explanation/Solution		
The air conditioner does not operate at all	<ul> <li>Check that the circuit breaker used for the air conditioner has not been triggered.</li> <li>Check that the power cable is plugged into a wall socket and the socket is switched on, if necessary.</li> <li>Check that the operating mode indicator (COOL or FAN) on the unit is lit up; if necessary press &amp; (On/Off) on the remote control or unit.</li> </ul>		
The air conditioner does not operate with the remote control	<ul> <li>Check that there are no obstacles between you and the unit.</li> <li>Replace the remote control batteries if necessary.</li> <li>Check that you are close enough to the unit (seven metres/yards or less).</li> </ul>		
No beep is heard when you press	<ul> <li>Check that you are pointing the remote control at the remote control sensor on the unit.</li> <li>Replace the remote control batteries if necessary.</li> </ul>		
The air conditioner does not cool	<ul> <li>Check that the correct operating mode has been selected COOL.</li> <li>The room temperature may be too low.</li> <li>Dust may be blocking the air filter; refer to page 15 for cleaning instructions.</li> <li>Check that there is no obstacle blocking the air flow into or out of the unit.</li> </ul>		
The air flow direction does not change when you press the	<ul> <li>Check that the air conditioner has been switched on; if necessary, press (On/Off) on the remote control or unit.</li> </ul>		
The timer is not correctly triggered	<ul> <li>Check that the timer has been programmed correctly; see page 11~13.</li> </ul>		
Odours are permeated in the room during air conditioning	♦ Air the room.		

## **Technical Specifications**

Design and specifications are subject to change without notice.

Model No.	Power Supply	Net Dim.(mm)	
AW12ZKA	230V~,50Hz	W560XH370XD550	
AW18ZKA	230V~,50Hz	W620XH425XD645	
AW24ZKB	230V~,50Hz	W620XH425XD645	

Note : All specifications are as per rated condition, i.e. Indoor temp. : 27°C and outdoor temp: 35°C. Current and power vary as the outdoor temperature vary.



100mm or more

#### Installation of the Drain Tube

Fix the drain tube as shown in the figure.

#### Installation of the Drain Pan

The procedure for installing the drain pan should be determined by the condition of the installing area.

 In the case of an area where the drain pan can not be directly installed on the rear side of the unit after installing the air conditioner.
 <u>Example</u>: High storage

1 Open the front grill; refer to page 16

2 Remove the screw located at the lower section of the front grille. It is secured in the section depending on the model.

- Remove the front panel.
   3-1 Press both sides of the cabinet in the direction of the arrow as shown in the figure.
  - 3-2 Pull the lower part of the front panel slightly forward. (below three inches)
  - 3-3 Lift the front panel upward.

Applying excessive force to remove the front panel may cause damage to the tab ; be sure not to use excessive force.

4 Remove two screws on the lower, right and left sides of the unit.

- 5 Remove the chassis from the cabinet.
- 6 Remove the rubber cap inserted into the basepan.
- 7 Fix the drain pan as shown in the figure, and then connect the drain hose. (You can use any commercially-available drain hose.)
- 8 Install the cabinet at the specified area after installing the drain pan, and then re-assemble it in the original condition.
  - Secure the front panel to the case by replacing the screw removed in step 2. If a screw not removed in step 2, secure the panel with a supplied screw.

In the case of an area where the drain pan can be directly installed on the rear side of the unit after installing the air conditioner.

1 Follow steps 6 and 7 only

In the case the lock in the front panel gets broken, apply the screw in the hole provided on the front panel.









Bottom-Side View with Drain Pan and Hose in Place



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#### **Contact SAMSUNG WORLD WIDE**

If you have any comments or questions regarding a Samsung products, contact SAMSUNG customer care center

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