

# AIR CONDITIONER

**COWAY**

CAC12-ST02

CAC18-ST02



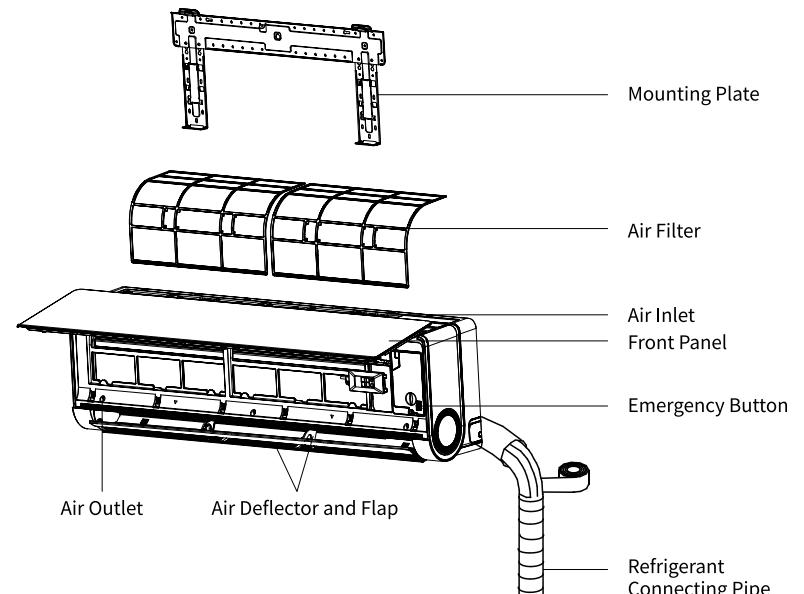
## SPLIT TYPE AIR CONDITIONER USER MANUAL ►

This instruction manual contains important information and recommendations that we would advise you to comply with to obtain the best results from the air conditioner.

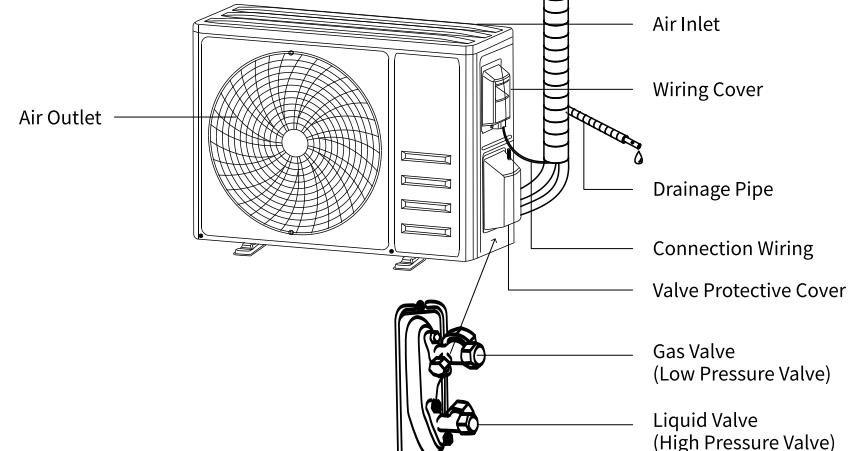
## CONTENTS

Remote Control	3
Operation Instructions	10
Test Operation	11
Maintenance	12
Troubleshooting	14
Specifications	16

## INDOOR UNIT



## OUTDOOR UNIT



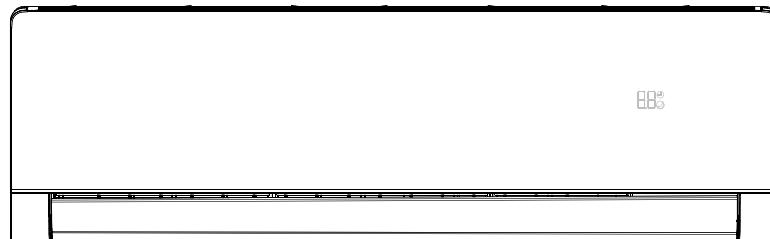
With the protective cover removed

\* The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details.

\* The shape and position of buttons and indicators may vary according to the model, but their function are the same.

Note: This figure shown may be different from the actual object. Please take the latter as the standard.

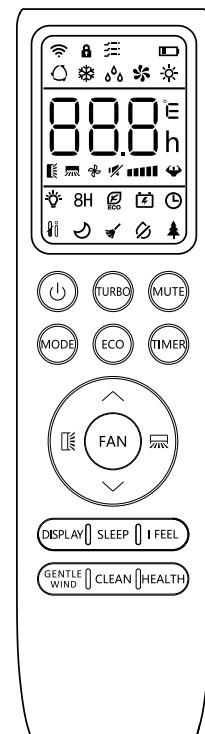
## INDOOR DISPLAY



No.	LED	Function
1		Indicator for Timer, temperature and Error codes.
2		Lights up during Timer operation.
3		SLEEP mode.

## REMOTE CONTROL DISPLAY

No.	Symbols	Meaning
1		Battery Indicator
2		Auto Mode
3		Cooling Mode
4		Dry Mode
5		Fan Only Mode
6		ECO Mode
7		Timer
8		Temperature Indicator
9		Fan Speed: Auto/Speed 1 to Speed 5
10		Mute Function
11		TURBO Function
12		Up-Down Auto Swing
13		Left-Right Auto Swing
14		SLEEP Function
15		Health Function
16		I FEEL Function
17		Signal Indicator
18		Gentle Wind
19		Child-Lock
20		Display ON/OFF
21		Self-Clean Function



The display and some functions of the remote control may vary according to the model.

No.	Symbols	Function
1	⊕	To turn on/off the air conditioner.
2	^	To increase temperature, or Timer setting hours.
3	▼	To decrease temperature, or Timer setting hours.
4	<b>MODE</b>	To select the mode of operation (AUTO, COOL, DRY, FAN).
5	<b>ECO</b>	To activate/deactivate the ECO function.
6	<b>TURBO</b>	To activate/deactivate the TURBO function.
7	<b>FAN</b>	To select the fan speed of auto/mute/low/low-mid/mid/mid-high/high/turbo.
8	<b>TIMER</b>	To set the time for timer on/off.
9	<b>SLEEP</b>	To switch-on/off the function SLEEP.
10	<b>DISPLAY</b>	To switch-on/off the LED display.
11	◐	To stop or start horizontal flaps louver movement or set the desired up/down air flow direction.
12	◓	To stop or start vertical deflectors louver movement or set the desired left/right air flow direction.
13	<b>I FEEL</b>	To switch-on/off the I FEEL function.
14	<b>MUTE</b>	To switch-on/off the MUTE function.
15	<b>MODE + TIMER</b>	To activate/deactivate the CHILD-LOCK function.
16	<b>CLEAN</b>	To activate/deactivate the SELF-CLEAN function.
17	<b>GENTLE COOL WIND</b>	To activate/deactivate the GENTLE COOL WIND function.
18	<b>HEALTH</b>	To activate/deactivate the HEALTH function.

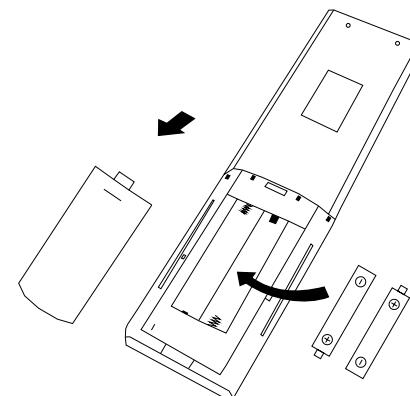
⚠ The unit confirms the correct reception of each button with the beep.

## REPLACEMENT OF BATTERIES

Remove the battery cover plate from the rear of the remote control, by sliding it in direction as the arrow.

Install the batteries according the direction (+ and -) shown on the Remote Control.  
Reinstall the battery cover by sliding it into place.

⚠ Use 2 pieces LRO3 AAA (1.5V) batteries.  
Do not use rechargeable batteries.  
Replace the old batteries with new ones of the same type when the display is no longer legible.  
Do not dispose batteries as unsorted municipal waste.  
Collection of such waste separately for special treatment is necessary.



### Note:

1. Direct the remote control toward the Air conditioner.
2. Check that there are no objects between the remote control and the Signal receptor in the indoor unit.
3. Never leave the remote control exposed to the rays of the sun.
4. Keep the remote control at a distance of at least 1m from the television or other electrical appliances.



**MUTE function**

1. Press **MUTE** button to active this function, and  will appear on the remote display. Do it again to deactivate this function.
2. When the **MUTE** function runs, the indoor unit will operate at lowest fan speed. The **MUTE** function cannot be activated under dry mode.

When pressing **Fan/TURBO/SLEEP** button, the **MUTE** function will be deactivated. **MUTE** function cannot be activated under dry mode.

**SLEEP function**

Pre-set the sleep program.

Press **SLEEP** button to activate the **SLEEP** function, and appears on the display.

After 10 hours of running in sleep mode, the air conditioner will change to the previous setting mode.

**I FEEL function**

Press **I FEEL** button to activate this function, the  will appear on the remote display. Do it again to deactivate this function.

This function enables the remote to measure the temperature at its current location. It then sends the signal to the air conditioner to optimise the temperature around you to ensure optimal comfort.

It will automatically deactivate after 8 hours.

**ECO function**

In this mode the appliance automatically sets the operation to save energy.

Press the **ECO** button, the  appears on the display, and the appliance will run in **ECO** mode. Press again to cancel it.

**DISPLAY function (Indoor display)**

Switch ON/OFF the LED display on panel.

Press **DISPLAY** button to switch off the LED display on the panel. Press again to switch on the LED display.

**SELF-CLEAN function**

To activate this function, turn off the indoor unit, then press the **CLEAN** icon button. You will hear a beep sound. The **[AC]** will appear on the Indoor LED panel and  will appear on the remote display.

1. This function helps clean the accumulated dirt, bacteria, etc form the indoor evaporator.
2. This function will run for about 30 minutes, and it will return to its original pre-set mode. You may cancel the process by pressing the  button.

You will hear 2 beeps when the process has been completed or cancelled.

 It's normal if there is some noise during this function process, as plastic materials expand with heat and contract with cold.

 We suggest operating this function at the following ambient conditions to avoid certain safety protection features.

Indoor unit	Temp < (30°C)
Outdoor unit	(5°C) < Temp < (30°C)

 It's suggested to utilize this function every 3 months.

**Note:** Changing the Temperature Unit from °C to °F or vice versa: long press **TURBO** button for 7 seconds.

**GENTLE WIND function**

1. Turn on the indoor unit, and change to **COOL** mode, then press **GENTLE WIND** button to active this function,  will appear on the display. Do it again to deactivate it.
2. This function will auto close the vertical flaps, and give you the comfortable gentle wind feeling.

**HEALTH function**

1. Turn on the indoor unit at first, press **HEALTH** to active this function,  will appear on the display. Do it again to deactivate it.
2. When the **HEALTH** function is initiated, the Bipolar Ionizer & UVC Sterilisation will be energised and running.

## OPERATION INSTRUCTIONS

**!** Attempt to use the air conditioner under the temperature beyond the specified range may cause the air conditioner protection device to start and the air conditioner may fail to operate. Therefore, try to use the air conditioner in the following temperature conditions.

### Inverter air conditioner:

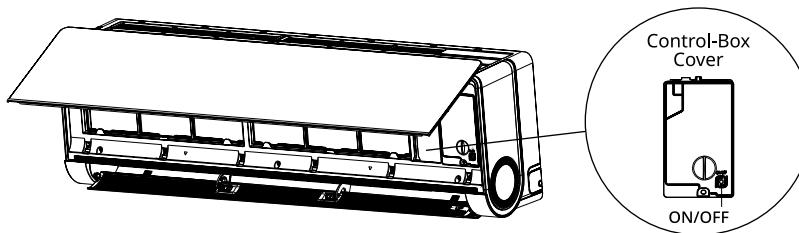
Temperature	MODE	Cooling	Dry
Room temperature		17°C~32°C	
Outdoor temperature		15°C~50°C (Low-temperature cooling: -15°C~50°C)	

With the power supply connected, restart the air conditioner after shutdown, or switch it to other mode during operation, and the air conditioner protection device will start. The compressor will resume operation after 3 minutes.

### **!** Emergency button:

Open the panel and find the emergency button on the electronic control box when the remote controller fails. (Always press the emergency button with insulation material.)

Current status	Operation	Respond	Enter mode
Standby	Press the emergency button once.	It beeps briefly once.	Cooling mode
Running	Press the emergency button once.	It beeps briefly once.	Off mode



Open the panel of indoor unit.

## INSPECTIONS BEFORE TEST RUN

Do the following inspections before test run.

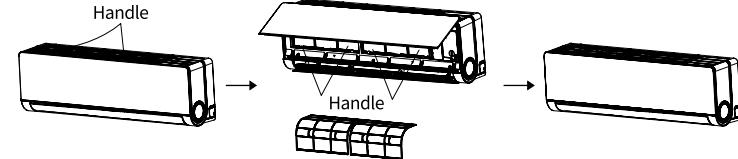
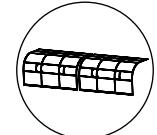
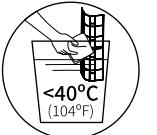
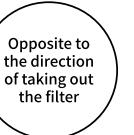
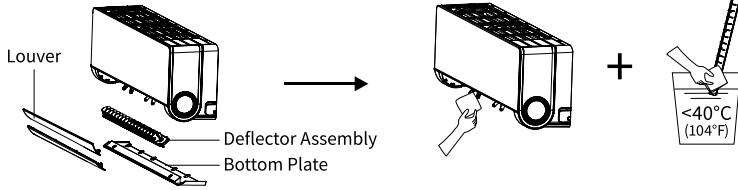
Description	Inspection Method
Electrical safety inspection	<ul style="list-style-type: none"> <li>Check whether the power supply voltage complies with specification.</li> <li>Check whether there is any wrong or missing connection between the power lines, signal line and earth wires.</li> <li>Check whether the earth resistance and insulation resistance comply with requirements.</li> </ul>
Installation safety inspection	<ul style="list-style-type: none"> <li>Confirm the direction and smoothness of drainage pipe.</li> <li>Confirm that the joint of refrigerant pipe is installed completely.</li> <li>Confirm the safety of outdoor unit, mounting plate and indoor unit installation.</li> <li>Confirm that the valves are fully open.</li> <li>Confirm that there are no foreign objects or tools left inside the unit.</li> <li>Complete installation of indoor unit air inlet grille and panel.</li> </ul>
Refrigerant leakage detection	<ul style="list-style-type: none"> <li>The piping joint, the connector of the two valves of the outdoor unit, the valve spool, the welding port, etc., where leakage may occur.</li> <li><b>Foam detection method:</b> Apply soapy water or foam evenly on the parts where leakage may occur, and observe whether bubbles appear or not, if not, it indicates that the leakage detection result is safe.</li> <li><b>Leak detector method:</b> Use a professional leak detector and read the instruction of operation, detect at the position where leakage may occur.</li> <li>The duration of leak detection for each position should last for 3 minutes or more; If the test result shows that there is leakage, the nut should be tightened and tested again until there is no leakage; After the leak detection is completed, wrap the exposed pipe connector of indoor unit with thermal insulation material and wrap with insulation tape.</li> </ul>

## TEST RUN INSTRUCTION

1. Turn on the power supply.
2. Press the ON/OFF button on the remote controller to turn on the air conditioner.
3. Press the **MODE** button to switch the mode **COOLING**.  
In each mode set as below:  
**COOLING**-Set the lowest temperature.
4. Run about 8 minutes in **COOL** mode and check all functions are properly run and respond the remote controller. Functions check as recommended:
  - 4.1 If the outlet air temperature responds to the cooling modes.
  - 4.2 If the water drains properly from the drainage hose.
  - 4.3 If the Louver and deflectors (optional) rotate properly.
5. Observe the test run state of the air conditioner at least 30 minutes.
6. After the successfully test run, return the normal setting and press ON/OFF button on the remote controller to turn off the unit.
7. Inform the user to read this manual carefully before use, and demonstrate to the user how to use the air conditioner, the necessary knowledge for service and maintenance, and the reminder for storage of accessories.

## BASIC MAINTENANCE

<b>⚠ Warning</b>	<ul style="list-style-type: none"> <li>When cleaning, you must shut down the machine and cut off the power supply for more than 5 minutes.</li> <li>Under no circumstances should the air conditioner be flushed with water.</li> <li>Volatile liquid (e.g. thinner or gasoline) will damage the air conditioner, so only use soft dry cloth or wet cloth dipped with neutral detergent to clean the air conditioner.</li> <li>Pay attention to cleaning the filter screen regularly to avoid dust covering which will affect the filter screen effect. When the operating environment is dusty, the cleaning frequency should be increased appropriately.</li> <li>After removing the filter screen, do not touch the fins of the indoor unit to avoid scratching.</li> </ul>
<b>Clean the unit</b>	 <p>Wring it dry and gently wipe the surface of the unit.</p> <p><b>Tip:</b> Wipe frequently to keep air conditioner clean and good appearance .</p>

<b>Disassembling and assembling of filter</b>	<ul style="list-style-type: none"> <li>Grasp the raised handle on the filter by hand, and then pull the filter out in the direction deviating from the unit, so that the upper edge of the filter is separated from the unit. The filter can be removed by lifting the filter upwards.</li> <li>When installing the filter, first insert the lower end of the filter screen into the corresponding position of the unit, and then squeeze the upper end of the filter into the corresponding buckling position of the unit body.</li> </ul> 		
<b>Clean the filter</b>			
	Take out the filter from the unit.	Clean the filter with soapy water and air dry it.	Replace the filter.
	<p><b>Tip:</b> When you find accumulated dust in the filter, please clean the filter in time to ensure the clean, healthy and efficient operation inside the air conditioner.</p>		
<b>Cleaning of inner air duct</b>	<ul style="list-style-type: none"> <li>First, loosen the knob on the middle of louver and bend the louver outwards to take it out.</li> <li>Then, grasp both sides of bottom plate push downwards to take down the bottom plate.</li> <li>Finally, loosen the buckle of deflector assembly with your thumb and take it out.</li> <li>Wipe the air duct and fan assembly with a clean and wrung wet rag.</li> <li>Clean the removed parts with soapy water and air dry it.</li> <li>After cleaning, restore the removed parts in turn.</li> </ul> 		
<b>Service and maintenance</b>	<ul style="list-style-type: none"> <li>When the air conditioner is not in use for a long time, do the following work: Take out the batteries of the remote controller and disconnect the power supply of the air conditioner.</li> <li>When starting to use after long-term shutdown:       <ol style="list-style-type: none"> <li>1. Clean the unit and filter screen;</li> <li>2. Check whether there are obstacles at the air inlet and outlet of indoor and outdoor units;</li> <li>3. Check whether the drain pipe is unobstructed; Install the batteries of the remote controller and check whether the power is on.</li> </ol> </li> </ul>		

Malfunction	Possible Causes
The appliance does not operate	Power failure/plug pulled out.
	Damaged indoor/outdoor unit fan motor
	Faulty compressor thermomagnetic circuit breaker.
	Faulty protective device or fuses.
	Loose connections or plug pulled out.
	It sometimes stops operating to protect the appliance.
	Voltage higher or lower than the voltage range.
	Active TIMER-ON function.
	Damaged electronic control board.
Strange odor	Dirty air filter.
Noise of running water	Back flow of liquid in the refrigerant circulation.
A fine mist comes from the air outlet	This occurs when the air in the room becomes very cold, for example in the COOLING or DEHUMIDIFYING/DRY modes.
A strange noise can be heard	This noise is made by the expansion or contraction of the front panel due to variations in temperature and does not indicate a problem.
Insufficient airflow, either hot or cold	Unsuitable temperature setting.
	Obstructed air conditioner intakes and outlets.
	Dirty air filter.
	Fan speed set at minimum.
	Other sources of heat in the room.
	No refrigerant.
The appliance does not respond to commands	Remote control is not close enough to indoor unit.
	The batteries of remote control need to be replaced.
	Obstacles between remote control and signal receiver in indoor unit.
The display is off	Active DISPLAY function.
	Power failure.
Switch off the air conditioner immediately and cut off the power supply in the event of:	Strange noises during operation.
	Faulty electronic control board.
	Faulty fuses or switches.
	Spraying water or objects inside the appliance.
	Overheated cables or plugs.
	Very strong smells coming from the appliance.

## ERROR CODE ON THE DISPLAY

In case of error, the display on the indoor unit shows the following error codes:

Display	Description of the trouble
E1	Indoor room temperature sensor fault.
E2	Indoor pipe temperature sensor fault.
E3	Outdoor pipe temperature sensor fault.
E4	Refrigerant system leakage or fault.
E5	Malfunction of indoor fan motor.
E7	Outdoor ambient temperature sensor fault.
E0	Indoor and outdoor communication fault.
E8	Outdoor discharge temperature sensor fault.
E9	Outdoor IPM module fault.
E8	Outdoor current detects fault.
EE	Outdoor PCB EEPROM fault.
EF	Outdoor fan motor fault.
EH	Outdoor suction temperature sensor fault.

## SPECIFICATIONS

Model Name		CAC12-ST02	CAC18-ST02
Horsepower		1.5 HP	2.0 HP
Type		Cooling Only	
Control Type		Remote Controller	
Cooling Capacity	BTU	12000 (2730 - 13648)	18000 (3412 - 19107)
Cooling Capacity	W	3500 (800-4000)	5275 (1000-5600)
CSPF	Wh/Wh	5.51	5.32
Indoor Sound Pressure (H/M/L/SL)	dB(A)	44/40/35/31	50/46/41/31
Outdoor Sound Pressure	dB(A)	55	55
Power Supply		220-240V~/50Hz/1P	220-240V~/50Hz/1P
Voltage Range	V	165~265	165~265
Application Area	m <sup>2</sup>	15-23	20~35
Rated Current	A	4.8 (1.2~8.5)	9.5 (1.5~10.5)
Refrigerant Type/Charge		R32/480g	R32/420g
Ambient Temperature Range	Indoor	17°C - 32°C	
	Outdoor	15°C - 50°C	
Net Dimensions (W×H×D)	Indoor	808×209×305 mm	910×167×315 mm
	Outdoor	787×290×498 mm (With Valve)	863×349×602 mm (With Valve)
Net Weight (kg)	Indoor	10.8	11.6
	Outdoor	20	26

