

## PORTABLE AIR CONDITIONER MODEL NO: AC13050

PART NO: 3230578

## OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

DL0524 - Rev 3

### INTRODUCTION

Thank you for purchasing this CLARKE Portable Air Conditioner.

Before attempting to operate the machine, it is essential that you read this manual thoroughly and carefully follow all instructions given. In doing so you will ensure the safety of yourself and that of others around you, and you can also look forward to the product giving you long and satisfactory service.

### **TECHNICAL SPECIFICATIONS**

Model Number	AC13050
Power Supply	230V/50Hz
Weight	28 kg
Dimensions (L x W x H)	340 x 443 x 815 mm
Water Sump Capacity	0.55 L
Air Flow Volume	360 m3/h
Operating Temperature	15 - 35oC
Exhaust Duct Diameter	150 mm
Exhaust Duct Length (expanded)	1500 mm
Permissible Excessive Operating Pressure (suction/discharge)	1.0 MPa/3.5 MPa
Max Pressure (Low/High Pressure Side)	1.5 MPa/5.5 MPa
Sound Pressure Level	56 dB LpA
Sound Power Level	63 dB LwA
Guaranteed Sound Power Level	65 dB LwA
Energy Efficiency	EU Class A
Cooling Capacity	3.5 kW
Electrical Insulation Class	1
Energy Efficiency ratio (EER)	2.62
REFRIGERANT DATA	
This product contains hermetically sealed	d non refillable gas
Туре	R290
Volume	245 g
Global Warming Potential (GWP) Value	3
CO <sup>2</sup> Equivalent	0.000735 T

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## SAFETY INSTRUCTIONS

- Carefully read the instructions before operating the unit.
- This air conditioner is for indoor use only.
- This air conditioner must be only connected to a 230 V / 50 Hz earthed outlet.
- Installation must be in accordance with regulations of the country where the air conditioner is used.
- If you are in any doubt about the suitability of your electrical supply have it checked and, if necessary, modified by a qualified electrician.
- This air conditioner has been tested and is safe to use. However, as with any electrical appliance use it with care.
- Disconnect the power plug from socket before dismantling, assembling or cleaning.
- Avoid touching any moving parts within the air conditioner.
- **NEVER** insert fingers, pencils or any other objects though the guard
- This air conditioner can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the air conditioner. Cleaning and user maintenance shall not be made by children without supervision.
- **DO NOT** leave children unsupervised with this air conditioner.
- **DO NOT** clean the air conditioner by spraying it or immersing it in water.
- **NEVER** connect the air conditioner to an electrical outlet using an extension cable. If an outlet is not available, one should be installed by a qualified electrician.
- **NEVER** operate this air conditioner if the cable or plug is damaged. Make sure that the power cable is not stretched or exposed to sharp objects/ edges.
- A damaged supply cable should be replaced by the manufacturer or a qualified electrician in order to avoid a hazard.
- Any service other than regular cleaning or filter replacement should be performed by an authorized service representative. Failure to comply could result in a voided warranty.
- **DO NOT** use the air conditioner for any other purpose than its intended use.

- The air conditioner unit must always be stored and transported upright, otherwise irreparable damage may be caused to the compressor; if in doubt we suggest waiting at least 24 hours before starting the unit.
- Avoid restarting the air conditioning unit unless 3 minutes have passed since being turned off. This prevents damage to the compressor.
- **NEVER** use the mains plug or an external timer as a switch to start and stop the air conditioning unit. Use the provided ON/OFF button located on the control panel.
- Always place the air conditioner on a dry and stable surface.
- The air conditioner should not be installed in laundry or wet rooms
- The air conditioner must be placed in a room without sources of ignition (for example: open flames, an operating gas appliance or an operating electric heater).
- Condensation may form on the base of this air conditioner during use, **DO NOT** use on sensitive or absorbent floors.

### **R290 REFRIGERANT GAS**



R290 refrigerant gas complies with European environmental directives.

R290 has a low GWP (Global Warming Potential) of 3.

The air conditioner contains about 245 g of R290 refrigerant gas.

- Do not use or store in an unventilated space with an area smaller than 25m<sup>2</sup> per unit. The room must be such as to prevent stagnation of possible leaks of refrigerant gas as there could be a danger of fire or explosion hazard should the refrigerant come into contact with electric heaters, stoves or other sources of ignition.
- Refrigerant gas may be odourless.
- Do not use the product and contact the retailer for advice if damage has occurred to the unit which may have compromised the refrigerant system.
- Any repairs or maintenance must only be carried out on the unit by a suitably qualified engineer. Before opening and servicing the unit, the authorized engineer must be in possession of a copy of the manufacturer's service manual and must follow the safety information contained within it to ensure all hazards are minimized.
- The refrigerant system must not be perforated or punctured.

### ENERGY SAVING AND UNIT SAFETY PROTECTION TIPS

- Do not cover or restrict the airflow from the outlet or inlet grills.
- For maximum performance the air conditioner should be situated at least 50 cm from the walls or other objects.
- Keep the filters clean. Under normal conditions, filters should only need cleaning once every two weeks. Since the filters remove airborne particles, more frequent cleaning maybe necessary, depending on the air quality.
- For the initial start-up set the fan speed to maximum and the thermostat to 4-5 degrees lower than the current temperature. Thereafter, set the fan to low and set the thermostat to your desired setting.
- To protect the unit we recommend the unit should only be used when the room temperature is between 15°C and 35°C.

## **ENVIRONMENTAL PROTECTION**



Recycle unwanted materials instead of disposing of them as waste. All unwanted accessories and packaging should be sorted and taken to a recycling centre for disposal in a manner which is compatible with the environment.



By purchasing this product, the customer is taking on the obligation to deal with its safe disposal in accordance with the Waste Electrical and Electronic Equipment regulations (WEEE).



In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

Under the Waste Batteries and Accumulators Regulations Act 2009, Clarke International are required to inform the owner of products containing batteries (as defined within these regulations), that they must also be disposed of at a recycling centre or suchlike facility.

## **ELECTRICAL CONNECTIONS**

#### WARNING! READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO THE MAINS SUPPLY.

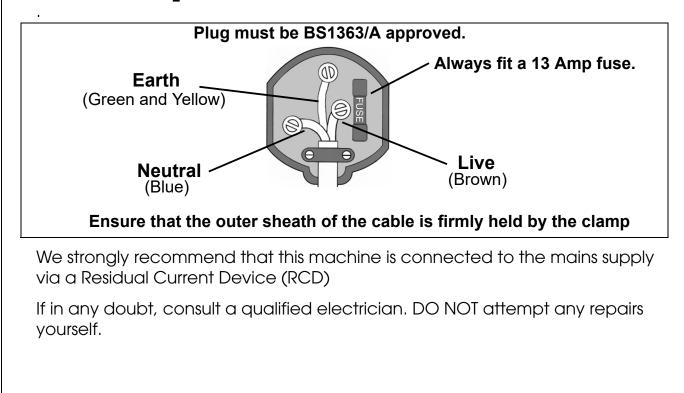
Before switching the product on, make sure that the voltage of your electricity supply is the same as that indicated on the rating plate. This product is designed to operate on 230 V AC 50Hz. Connecting it to any other power source may cause damage.

This product may be fitted with a non-rewireable plug. If it is necessary to change the fuse in the plug, the fuse cover must be refitted. If the fuse cover becomes lost or damaged, the plug must not be used until a suitable replacement is obtained.

If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.

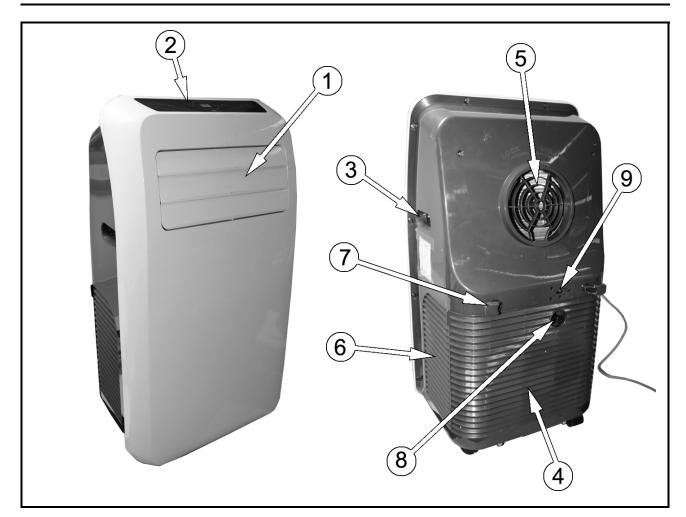
If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The **Blue** wire must be connected to the terminal which is marked **N**.
- The **Brown** wire must be connected to the terminal which is marked **L**.
- The Yellow and Green wire must be connected to the terminal which is marked E or ±.



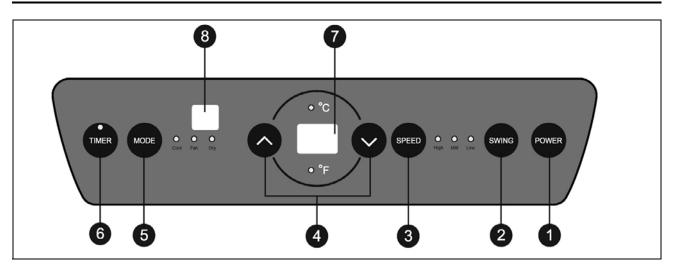
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## **OVERVIEW**



No	DESCRIPTION	No	DESCRIPTION
1	Air Outlet Flap	6	Air Filter Frame (side)
2	Control Panel	7	Power Cable Storage Hooks
3	Handle	8	Drainage Cap and Plug
4	Air Intake (rear)	9	Plug Storage Socket
5	Air Outlet Port (for ducting)		

## **CONTROL PANEL AND REMOTE CONTROL UNIT**



#### 1. Power Button

Press the button to turn the air conditioner ON/OFF.

#### 2. Swing Button

Pressing the swing button makes the louvres move up and down.

#### 3. Speed Button

Press the speed button to select between High / Mid / Low speed.

#### 4. Temp/Time adjustment buttons

#### 5. Mode Button

Press the mode button to select between cooling / fan and dehumidification.

#### 6. Timer Button

In standby mode, press the button to set the ON time.

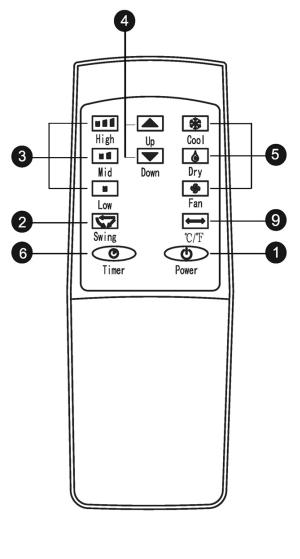
When the air conditioner is on, press the button to set the OFF time.

#### 7. Display Window

#### 8. Remote Sensor

#### 9. °C / °F Switching Button

Press the button to switch between  $^{\rm o}{\rm C}$  /  $^{\rm o}{\rm F}.$ 



## CONTENTS

The following components are supplied in the box;

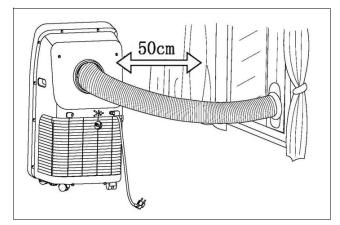
- 1. Air Conditioner
- 2. Exhaust Duct Set
- 3. Remote Control Unit (including 2 x AAA batteries)
- 4. Window Kit

Should any loss or damage be apparent, please contact your CLARKE dealer immediately.

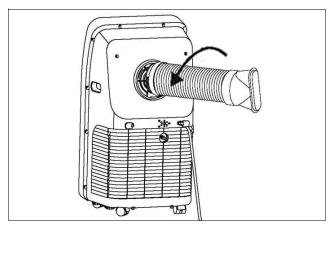
## INSTALLATION

# IMPORTANT: Do not position your air conditioner where it will be exposed to sources of heat above $35^{\circ}C$ .

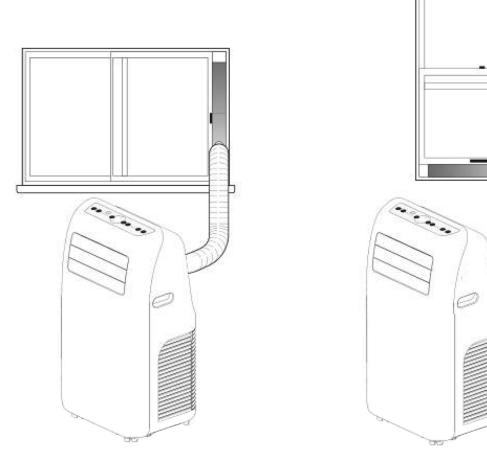
- 1. Always transport the air conditioner upright or resting on one side. Remember to drain the tank before moving the appliance.
- 2. Position the unit on a level, dry surface at least 50 cm away from surrounding objects.



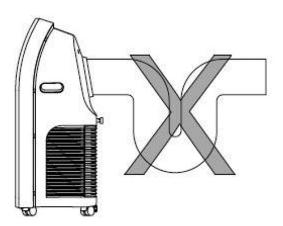
- 3. Screw the air exhaust duct on to the air outlet located on the rear of the air conditioner.
- 4. Insert the other end of the air exhaust duct into the window sealing plate.



5. Move the air conditioner into position and extend the flexible exhaust duct to suit your window layout.



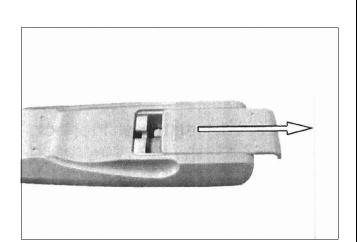
- **NOTE:** The length of the exhaust duct is variable between 480mm and 1500mm (adaptors included). Using a shorter length of ducting uses less energy.
- **NOTE:** The length of duct has been designed to suit the specification of the air conditioner. Do not use an extension or change to a different size duct as it may lead to poor performance.
- 6. The flexible exhaust ducting can be bent to an angle if followed by a straight section but tight curves and kinks must always be avoided.
- Extend the two parts of the window sealing plate and fit into the window opening, below or beside the window panel as shown above.



8. Secure in position by closing the window, or if not secure, wedge or otherwise secure the window slider plate so that it cannot fall out.

### **FITTING BATTERIES**

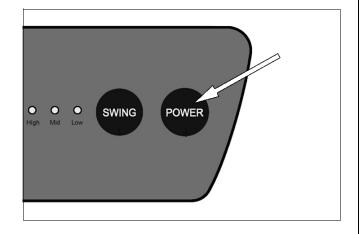
- 1. Slide the battery cover away as indicated by the arrow on the rear of the remote control.
- Fit 2 x AAA batteries into the battery compartment following the polarity diagram inside.



### **OPERATION**

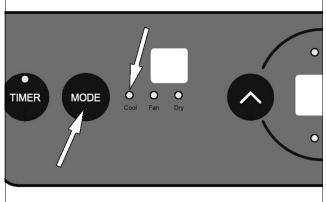
### **GENERAL OPERATION**

- If the room is exposed to direct sunlight, draw any curtains during the sunniest part of the day.
- 1. Press the Power button to switch the air conditioner On/Off.
- The unit will select the last mode used.



### COOLING MODE (COOL)

- 1. Press the mode button repeatedly to select COOL.
- The cool indicator lamp lights up.
- 2. Press the Temp/Time adjustment buttons to select the temperature between 16 °C - 30 °C.
- 3. Press the speed button to select between High / Mid / Low speed.
- 4. Press the swing button to set the air outlet flap moving up and down to circulate the air more freely if required.



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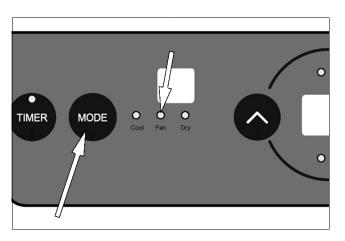
### FAN MODE (FAN)

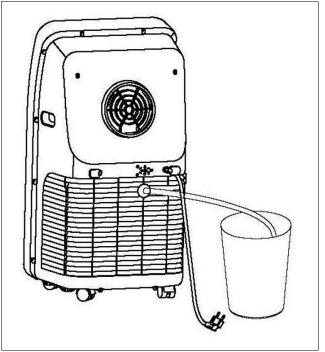
- 1. Press the mode button repeatedly to select FAN.
- The FAN indicator lamp lights up.
- 2. Press the speed button to select between High / Mid / Low speed.

**NOTE:** In fan mode, you cannot set the temperature.

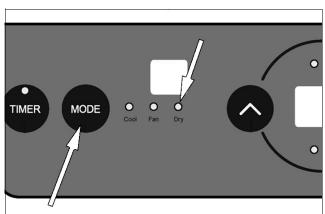
### DEHUMIDIFYING MODE (DRY)

- 1. Remove the drain cap / plug from the rear of the air conditioner and connect the drainage hose to the outlet.
- 2. Place the other end of the drainage hose into a bucket.





- 3. Press the mode button repeatedly to select DRY.
- The dry indicator lamp lights up.
- If the room temperature is above 17°C (62°F), the fan will come on.
- It will go off again if the room temperature drops below 15°C (59°F).
- In dehumidify mode, the fan runs at low speed and cannot be adjusted.
- The temperature setting cannot be adjusted in dehumidifying mode.



### TIMER MODE

#### TO SET THE "ON" TIME (IN STANDBY MODE)

- 1. Press the Timer button to set the ON time.
- 2. Press the Time adjustment buttons to set the ON time (1-24 hours).
- The timer indicator lamp lights up.

#### TO SET THE "OFF" TIME (WHEN THE AIR CONDITIONER IS ON)

- 1. Press the Timer button to set the OFF time.
- 2. Press the Time adjustment buttons to set the OFF time (1-24 hours).
- The timer indicator lamp lights up.

## FAULT CODES

The following fault codes can be displayed on the control panel.

Code	Diagnosis of Fault	Action Required
El	Coil temp is abnormal.	Return to CLARKE Service Department for repair.
E2	Room temp is abnormal.	Return to CLARKE Service Department for repair.
E3	No Refrigerant	Check for leaks and return to CLARKE Service Department for repair if required.
E4	Anti-freezing protection.	None, will recover automatically when the temperature exceeds 8°C.
E5	Motor Failure	Replace motor. Return to CLARKE Service Department for repair.
FL	Water is full inside the machine.	Drain water from the drain port at the bottom rear of the unit.

### DRAINING OFF THE WATER

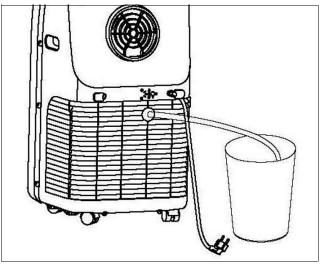
### MANUAL DRAINAGE:

1. When the internal water tank is full, the unit will stop working and show "FL" on the display panel.

- 2. Turn off the unit using the power button and unplug from the mains. Try not to move the air conditioner abruptly as this may cause water to spill out from the internal water tank.
- 3. Place a tray under the drain port.
- 4. Remove the drain cap / plug from the drain port water will drain from the water tank.
- 5. Once drained, replace the drain cap / plug and switch back on.

### CONTINUOUS DRAINAGE

- 1. Remove the drain cap / plug from the drain port
- 2. Use a suitably sized water pipe to connect to the drain port.
- 3. You can plumb this pipe into your current plumbing system, lead it outside or use a water pump.
- 4. Note: This model has a selfevaporative function, which reduces the need to empty the water tank.



- **NOTE:** If the unit is vented correctly most of the water is reused to cool the condenser coils and any excess is evaporated.
- **NOTE:** Please do not use continuous drainage if you intend to use the self-evaporating facility.

## MAINTENANCE

### CLEANING



WARNING: PLEASE SHUT OFF THE UNIT AND UNPLUG FROM THE MAINS BEFORE CLEANING OR PERFORMING ANY MAINTENANCE.

- 1. Clean the outside surfaces of the unit with a duster or a soft, moist cloth.
- 2. Do not use solvents which could damage the plastic components.

### **CLEANING THE AIR FILTERS**

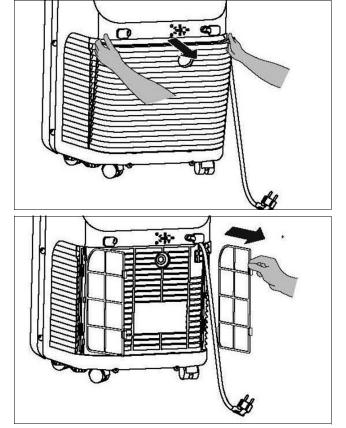
Clean the air filters every 2 weeks. If the air filter is blocked with dust, performance will be affected.

1. Remove the rear grille.

2. Slide out the 3 air filters.

**NOTE:** One of the filters is attached to the rear grille.

- 3. Wash the air filters gently in warm water with a mild detergent.
- 4. Rinse the filters and dry them gently out of direct sunlight.
- Make sure the filters are dry before use.



5. Clip the filters back into position and re-fit the grille.

### END OF SEASON CLEANING

If the air conditioner is not going to be used for a long time:

- 1. Drain the internal water tank (page 13).
- 2. Run the air conditioner in fan mode for 2 hours to dry out the inside.
- 3. Switch off the unit and disconnect the power cable. Coil it around the hooks at the back of the machine and set the plug in the socket provided.
- 4. Clean the filters.
- 5. Dismantle the exhaust ducting and store it safely.
- 6. Remove the batteries from the remote control to preserve battery life.
- 7. Cover the air conditioner with a plastic bag and store it in a dry place.

## TROUBLESHOOTING

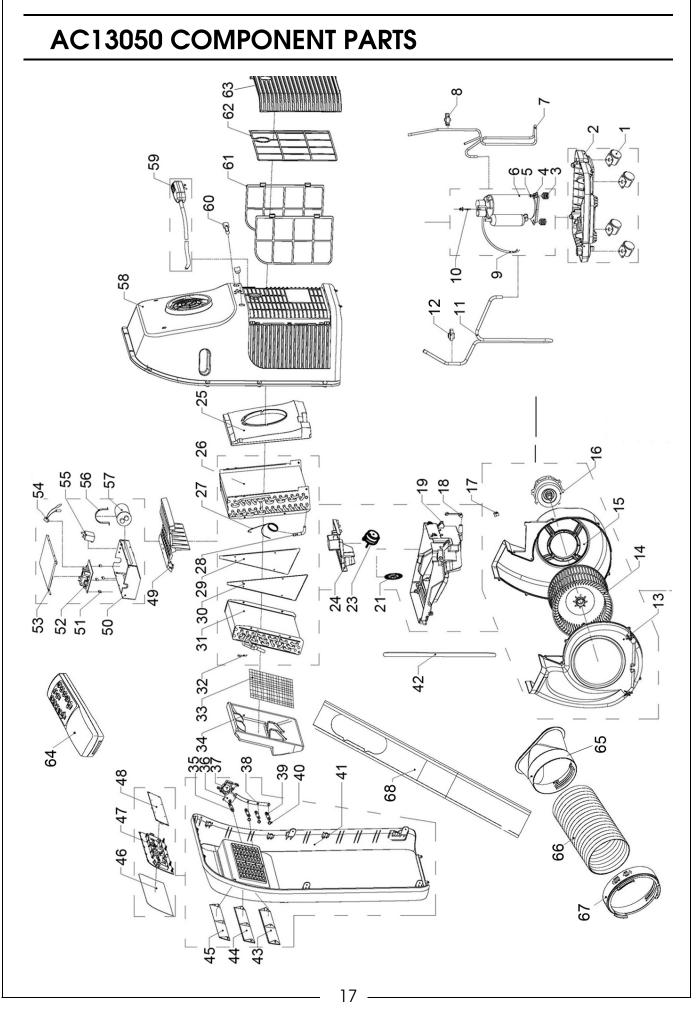
Problem	Cause	Solution
The unit fails to operate	Unit is not plugged in.	Plug the unit into a suitable power source.
	Water tank is full (display shows "FL"	Drain the water container.
	Room temperature is unsuitable.	Check that room temperature is between 15 <sup>0</sup> C - 35 <sup>0</sup> C
Inefficient	Unit is in direct sunlight.	Draw the curtains
cooling	Doors or windows open or another heat source in the room.	Close windows/doors. Remove the heat source.
	Filter screen is dirty.	Clean the filter screen
	Air inlet or air outlet is blocked.	Remove the blockage
	Exhaust air hose not connected properly.	Connect the Exhaust air hose properly.
Noise or vibration	Is the unit standing on an uneven surface?	Stand the unit on a flat, firm surface.
	Flowing noise from inside the air conditioner	This is normal, it is refrigerant being circulated
Compressor doesn't work	Heat protection circuit has cut in.	Wait 3 minutes before re- starting unit.
The remote	The unit is too far away.	Move closer to the unit.
control doesn't work	Batteries are flat.	Replace the batteries.
COEST I WORK	Remote control not pointing at the air conditioner.	Aim the remote control at the unit.

### GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission. This guarantee does not affect your statutory rights.



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No	Description	No	Description
1	Wheel	35	Driving rocker
2	Chassis	36	Step motor
3	Compressor foot pad	37	Swing motor base
4	Gasket	38	Connecting rod
5	Nut	39	Driven rocker
6	Compressor assembly	40	Shaft sleeve
7	Exhaust pipe	41	Front panel
8	Exhaust pipe dumping rubber	42	Support strip
9	Compressor cable assembly	43	Air deflecting strip (lower)
10	Compressor bushing	44	Air deflecting strip (middle)
11	Air suction pipe	45	Air deflecting strip (upper)
12	Air suction pipe dumping rubber	46	Display board face film
13	Air duct - left	47	Control panel
14	Air wheel	48	Electric control display pane
15	Air duct - right	49	Air dust diaphragm
16	Air exhaust motor	50	Electric control box
17	Power line card	51	Isolating column
18	Water plug	52	Main PCB
19	Water pan	53	Control box cover
20	n/a	54	Sensor assembly
21	Pumping wheel	55	Fan capacitor
22	n/a	56	Capacitor card
23	Pumping motor	57	Compressor capacitor
24	Water pan cover	58	Rear panel
25	Air outlet foam	59	Power cable
26	Condenser assembly	60	Power line hook
27	Capillary	61	Strainer -small
28	Strainer	62	Strainer-large
29	Side plate - left	63	Air inlet grille
30	Side plate - right	64	Remote control
31	Evaporator	65	Air exhaust flat nozzle
32	Coil card	66	Air exhaust hose
33	Safety net	67	Air exhaust joint
34	Air outlet foam	68	Window sealplate assembly

No	Description
35	Driving rocker
36	Step motor
37	Swing motor base
38	Connecting rod
39	Driven rocker
40	Shaft sleeve
41	Front panel
42	Support strip
43	Air deflecting strip (lower)
44	Air deflecting strip (middle)
45	Air deflecting strip (upper)
46	Display board face film
47	Control panel
48	Electric control display panel
49	Air dust diaphragm
50	Electric control box
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61	Strainer -small
62	Strainer-large
63	Air inlet grille
64	Remote control
65	Air exhaust flat nozzle
66	Air exhaust hose
67	Air exhaust joint
68	Window sealplate assembly

## **DECLARATIONS OF CONFORMITY**

CAR INTERNATIONAL Hennell Street, Explore, Essex CM16 4LG	C C C C C C C C C C C C C C C C C C C
DECLARATION OF CONFORMITY This is an important document and should be retained.	DECLARATION OF CONFORMITY This is an important document and should be retained.
We hereby declare that this product(s) complies with the following statuary requirement(s): Electromagnetic Compatibility Regulations 2016 Electrical Equipment (Safety) Regulations 2016 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 The Eco-clession for Energy-Related Products and Energy Information (Amendment) (EU Exit)	We hereby declare that this product(s) complies with the following directive(s): 2014/30/EU Electromagnetic Compatibility Directive 2014/35/EU Low Voltage Equipment Directive 2011/65/EU Restriction of Hazardous substances 2009/125/EC Eco-design Requirements for Energy Related Products
The following standards have been applied to the product(s): EN 55014-1.2017, EN 55014-2.2015, EN 61000-3-2.2014, EN 61000-3-3.2013, EN 60335-2-40:2003+A11:2004+A12:2005+A1:2006+A2:2009+A13:2012, EN 60335-1.2012+A11:2014+A13:2017, EN 62233-2008, IEC 62321-1:2013, IEC 62321-2:2013, IEC 62321-3-1:2013, IEC 62321-3-2013, IEC 62321-8:2013 IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-8:2017	The following standards have been applied to the product(s): EN 55014-1:2017, EN 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 60335-2-40:2003+A112:204+A12:2005+A1:2006+A2:2009+A13:2012, EN 60335-1:2012+A11:2014+A13:2017, EN 82233:2008, IEC 62321-1:2013, IEC 62321-2:2013, IEC 62321-3-1:2013, IEC 62321-4:2017, IEC 62321-8:2017 IEC 62321-6:2016, IEC 62321-7-1:2015, IEC 62321-4:2017, IEC 62321-8:2017 IEC 62221-6:2015, IEC 62321-7-1:2015, IEC 62321-4:2017, IEC 62321-8:2017 IEC 6221-6:2015, IEC 62321-7-1:2015, IEC 62321-4:2017, IEC 62321-8:2017
ISO 17075-1:2015. The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the afonementioned legislation has been compiled and is available for inspection by the relevant enforcement authorities. The UKCA mark was first applied in: 2022	The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the alorementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities. The CE mark was first applied in: 2020
Product Description:     12000 BTU Portable Air Conditioner       Model number(s):     AC13050       Serial / batch Number:     N/A       Date of Issue:     31/10/2022       Signed:     AMARANA	Product Description:     12000 BTU Portable Air Conditioner       Model number(s):     AC13050       Serial / batch Number:     N/A       Date of Issue:     31/10/2022       Signed:     AMMANA
J.A. Clarke Director AC13050 UKCA Clarke DOC 103122 Page 1 of 1	J.A. Clarke Director AC13639 CE Clarke DOC 103122 Page 1 of 1

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