

Clarke®



PORTABLE AIR CONDITIONER MODEL NO: AC7000

PART NO: 3230565

OPERATION & MAINTENANCE INSTRUCTIONS



GC0117

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.

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.

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.

R410A is a refrigerant that complies with EEC environmental standards. Nonetheless, the refrigerant circuit on the machine should never be punctured. At the end of its working life, consign the air conditioning unit to a special collection centre.



Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the 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.

SAFETY WARNINGS



WARNING: IF THE SUPPLY CABLE IS DAMAGED, IT MUST BE REPLACED BY THE MANUFACTURER, ITS SERVICE AGENT OR SIMILARLY QUALIFIED PERSONS IN ORDER TO AVOID A HAZARD.

1. Please read these instructions carefully and retain for future reference.
2. Position the power cable so that it cannot be inadvertently pulled or pinched, and where it does not cause a trip hazard.
3. This appliance is designed for use in residential environments and must not be used for other purposes.
4. If the appliance requires repair, always contact your CLARKE dealer. Always insist on original spare parts. Repairs carried out by unauthorized persons may be dangerous and invalidate the guarantee.
5. This appliance must only be used by adults. Children should not be allowed to play with this appliance.
6. Do not use extension power cables.
7. Before cleaning or maintenance operations, always unplug the appliance from the power supply.
8. Do not move the appliance by pulling the power cable.
9. Do not install the appliance close to sources of gas, oil or sulphur. Do not install near sources of heat.
10. Do not use the appliance on inclined surfaces.
11. Always keep the appliance at least 50 cm away from walls or furniture.
12. Keep the appliance at least 50 cm away from flammable substances (solvents etc) or pressurised containers (e.g. aerosol cans).
13. Do not rest heavy or hot objects on top of the appliance.
14. Do not use the appliance outdoors.
15. Do not obstruct or restrict the airflow to the inlet or from the air outlet.

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.

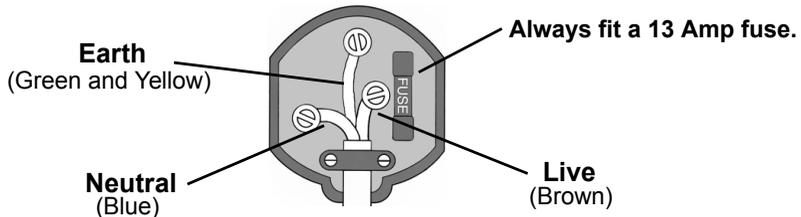


**WARNING! The wires in the power cable of this product are coloured in accordance with the following code:
Blue = Neutral Brown = Live Yellow and Green = Earth**

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

Plug must be BS1363/A approved.

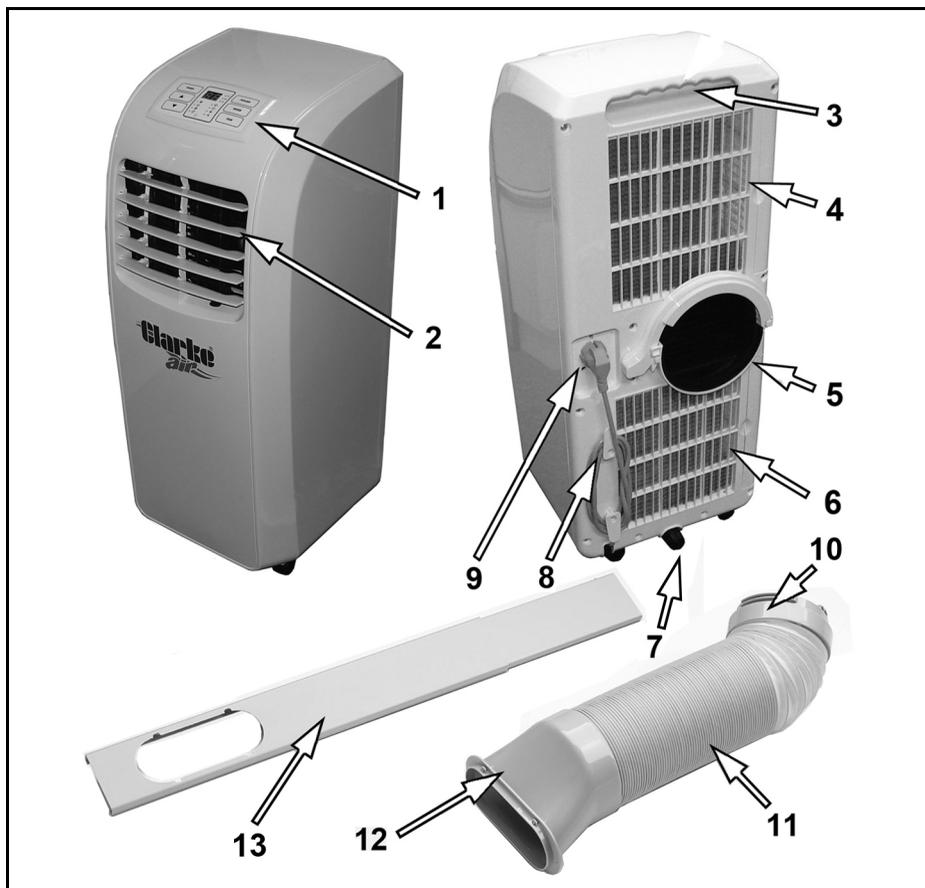


Ensure that the outer sheath of the cable is firmly held by the clamp

We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)

If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself.

OVERVIEW



No	DESCRIPTION	No	DESCRIPTION
1	Control Panel	8	Power Cable with Storage
2	Air Outlet Flap	9	Power Plug with Storage Socket
3	Handle	10	Duct Round Adaptor
4	Upper Air Filter	11	Flexible Duct
5	Air Outlet Port	12	Duct Outlet Connector
6	Lower Air Filter	13	Window Slider Plate
7	Water Drain Port		

CONTENTS

Ensure the air conditioner and its components suffered no damage during transit and that all components are present. Should any loss or damage be apparent, please contact your CLARKE dealer immediately.

The following components are supplied with the unit;

1. Flexible exhaust duct.
2. Exhaust duct outlet connector (2 pieces)
3. Exhaust duct round connector.
4. Adjustable window slider plate.
5. Remote control handset with batteries.

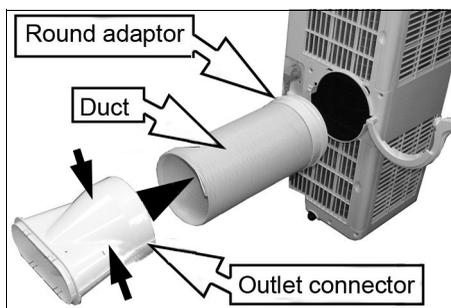
INSTALLATION

IMPORTANT: Do not position your air conditioner where it will be exposed to sources of heat above 35°C.

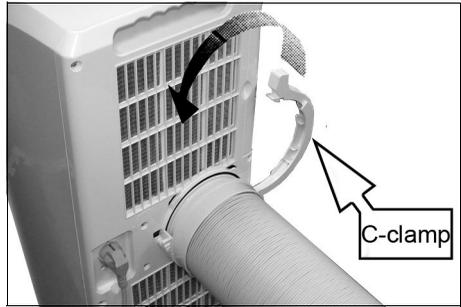
1. Always transport the air conditioner upright. Remember to drain the tank before moving the appliance.
 - It is recommended to wait up to 2 hours after transporting/unpacking the air conditioner before using it, to allow the refrigerant gasses to settle.
2. Position the unit on a level, dry surface with at least 50 cm of free air space around the unit.

NOTE: Do not use the air exhaust duct when in DRY or FAN only modes.

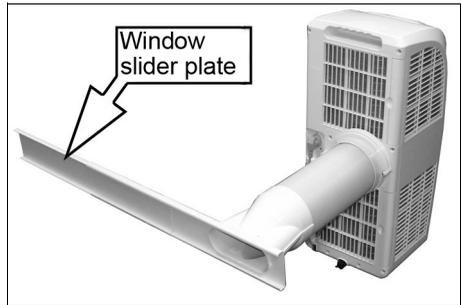
3. Twist fit the round adaptor to the exhaust duct.
4. Clip the two halves of the duct outlet connector together before twist-fitting them to the duct as shown.



5. Fit the exhaust duct assembly complete to the outlet port of the air conditioner and secure in place by locking down the c-clamp until it clips into position.



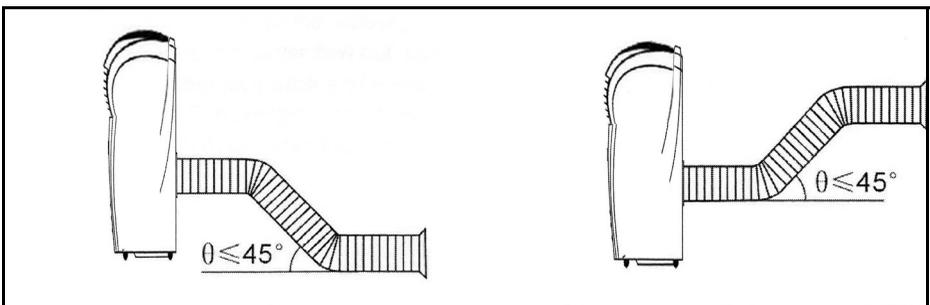
6. Move the air conditioner into position, and extend/adjust the flexible exhaust duct to suit your window layout.
7. Clip the window slider plate to the duct outlet connector to complete the duct assembly.
8. Set the window slider plate in position in the nearest window opening.

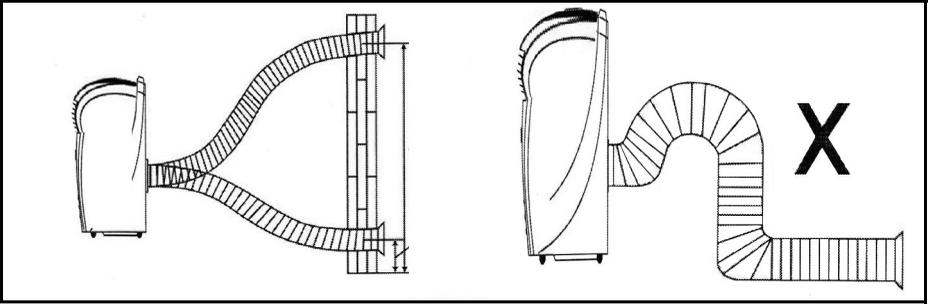


NOTE: The length of the exhaust duct is variable between 480 mm and 1500 mm (adaptor/outlet connector included). Using a shorter length of ducting uses less energy.

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.

NOTE: 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.

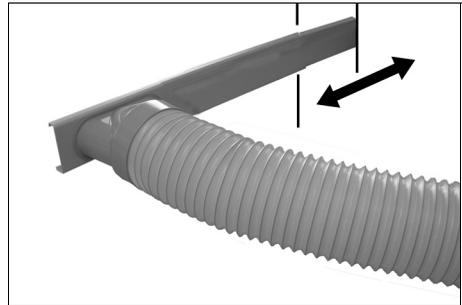




9. Extend the two parts of the window slider plate and fit into the window opening.

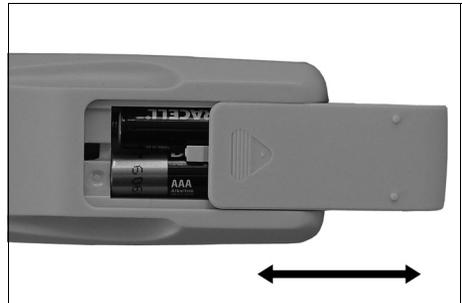
10. Secure in position by closing the window and if required, use wedges to secure the window slider plate so that it cannot fall out.

- The window slider plate is designed to fit most standard vertical sash type and horizontal sliding windows. However, it may be necessary for you to adapt the installation procedure for various other types of window.

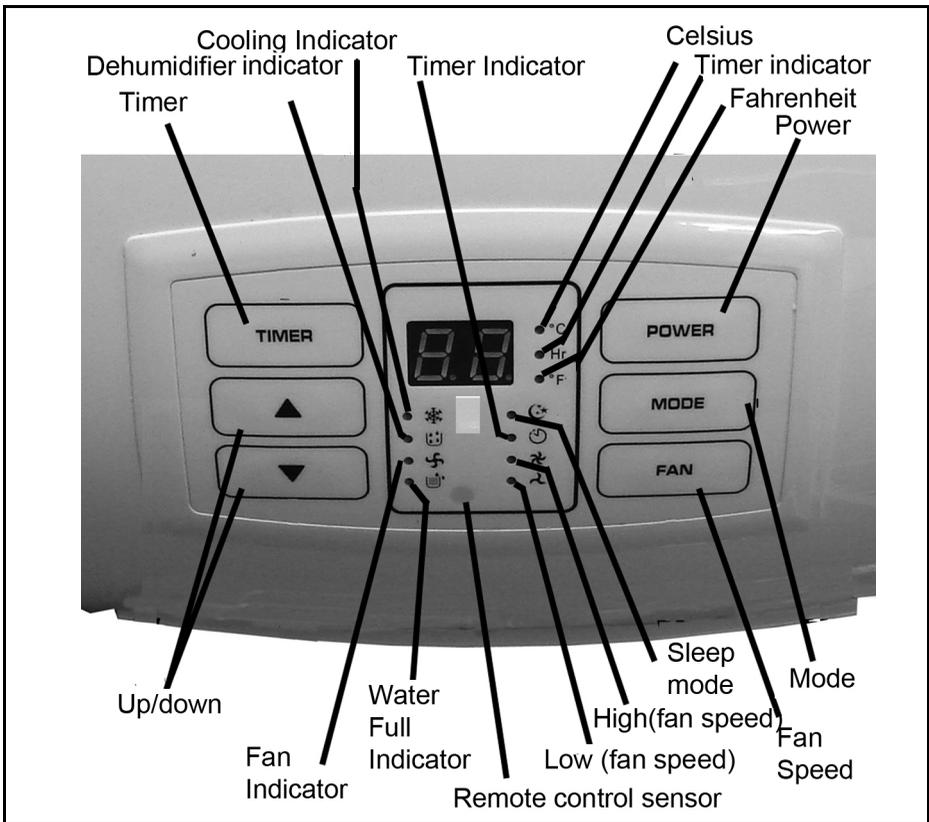


11. Fit two AAA size batteries to the remote control unit by sliding the battery cover away and installing the batteries to face in opposing directions as indicated by the symbols inside the unit.

- Follow the polarity diagram inside the battery compartment.



THE CONTROL PANEL



The control panel has the following buttons:

1. **TIMER:** Press this button to select the timer mode and the main display will initially show "0". Set the running time from 0-24 hours using the UP/DOWN buttons.
 2. **POWER:** Press this button to turn the unit on & off. When turned on, the machine will start running in the previously selected mode.
 3. **MODE:** Press this button to select from COOLING, FAN, and DEHUMIDIFY modes.
 4. **UP/DOWN:** Press the UP or DOWN buttons to set the required temperature or adjust the running time in the TIMER mode.
- Press the UP/DOWN buttons simultaneously to switch from Celsius to Fahrenheit display.

5. **FAN:** Press this button to select Low or High fan speed. If switching between cooling and fan mode, the fan speed remains the same. During drying, the fan will run at low speed.
6. The display in the centre of the panel indicates the following:

COOL	Indicates that the unit is operating in COOLING mode
DEHUMIDIFY	Indicates that the unit is operating in DEHUMIDIFYING mode to remove dampness from the room air.
FAN	Indicates that the unit is operating in FAN mode to circulate air through the unit. The light illuminates in conjunction with the selected fan speed LED.
WATER FULL	Indicates that the water container is full and requires emptying.
SLEEP	Indicates that the unit is operating in SLEEP mode.
TIMER	Indicates that the unit is operating in TIMER mode and will run for a pre-set time.
HIGH	Indicates that the unit is operating at the high fan speed
LOW	Indicates that the unit is operating low fan speed

THE REMOTE CONTROLLER

The remote controller requires 2 x AAA batteries to be installed as shown on page 8.

It incorporates the following buttons.



POWER	Turns the unit on or off.
TIMER	Sets the timer On/Off and allows the running time duration to be adjusted using the Up/Down arrows.
HIGH	Sets the unit to operate at the high fan speed.
LOW	Sets the unit to operate at low fan speed.
SLEEP	Sets the unit to operate in the sleep mode with the fan at its lowest setting.
UP or DOWN (arrows)	Sets the target temperature or adjusts the run time duration in TIMER mode.
°C/°F	Switches the display between degrees Celsius to degrees Fahrenheit.
COOL DRY FAN	Selects either: COOLING mode DEHUMIDIFYING mode FAN mode These options correspond to the "MODE" option on the main control panel.

GENERAL OPERATION

If the room is exposed to direct sunlight, draw any curtains during the sunniest part of the day.

NOTE: Always drain any water from the unit via the drain plug after operating in DRY mode. The unit will automatically stop working when water reaches the high level.

NOTE: Do not use the air exhaust duct when in DRY or FAN modes.

1. Plug the unit into the power supply and the unit will enter 'Standby' mode and the LED will display the room temperature.
2. Press the POWER button.
 - The unit will start up in COOLING mode using High fan speed.
3. Press the MODE button and select from COOLING, DRYING or FAN only modes and the corresponding LED will illuminate.

COOLING MODE

1. With the unit running, press the MODE button & choose COOLING mode.
2. Press the UP/DOWN button to set the desired room temperature.

- The selectable range is 17-30°C (62-86°F) and the temperature will change by 1°C or 1°F each time the button is pressed.
3. Press the FAN button to choose a fan speed.

DRYING (DEHUMIDIFYING) MODE

1. With the unit running, press MODE button on the panel to select DRY mode. The fan speed will run and the panel display will show the actual room temperature. The compressor will stop if the air temperature drops to <15°C and re-start when it returns to 17° C.

AIR SUPPLY (FAN ONLY) MODE

In this mode only the fan operates and the display shows the room temperature. Adjust the position of the air outlet louvres as required.

SETTING THE TIMER

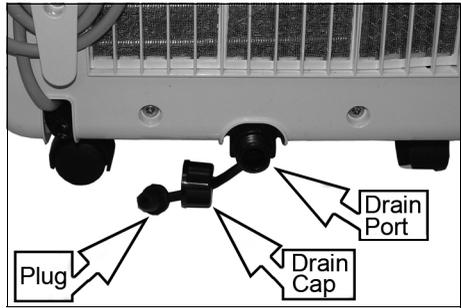
1. With the unit turned on, press the TIMER button.
 - The display will show "1"hr.
2. Press the Up or Down button to adjust the set time from 1 hour to 24 hours.
 - Once the set running time has elapsed, the unit will switch off automatically.
 - Press the timer button once to query the remaining run time. To cancel the timer, change the time value to '0' hours.

DRAINING OFF THE WATER

The air conditioner has a self-evaporating system. Condensing water will recycle to cool the condenser, which improves cooling efficiency but also saves energy and reduces noise. The condensation may eventually collect faster than the system can cycle and the water container will become full.

When the water container is full, the "Water Full" symbol will flash on the control panel and the appliance give an audible alarm. After this, the air conditioner will shut down automatically.

1. Before emptying the water, switch off and disconnect from the power supply. Take care not to tilt the machine causing water to spill from the collection tray.
 2. Remove the drain cap and plug from the drain port and let the water flow out into a container.
 3. Once drained, replace the plug and drain cap and switch back on.
 4. For continuous draining, remove the drain cap and insert a length of 13 mm OD drain hose into the drain port. Position it to discharge at a height lower than the drain port of the air conditioner which may require raising the unit above floor level.
- This is likely to be beneficial when operating in DEHUMIDIFYING mode.



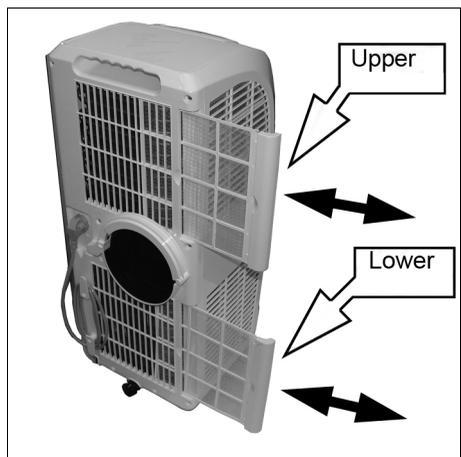
MAINTENANCE

CLEANING

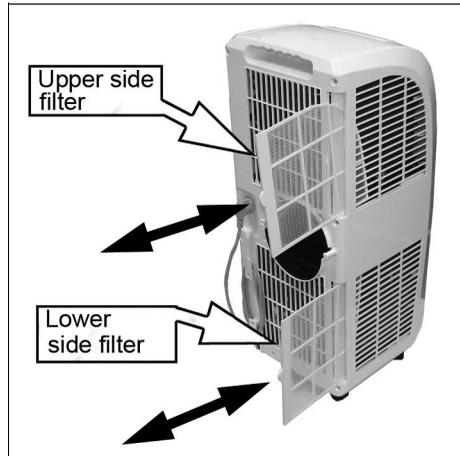


WARNING: ALWAYS TURN OFF THE UNIT AND DISCONNECT FROM THE POWER SUPPLY BEFORE CLEANING.

1. Clean the outside surfaces of the unit with a duster or a soft, moist cloth.
- Do not use solvents which could damage the plastic components.
2. If the air filters are blocked with dust, the efficiency of the unit will be reduced. Clean the filters after approximately two weeks of regular use.
 3. To remove the air filters, grasp the handhold and slide the rear filters sideways from the back of the appliance.



4. Grip the flange and draw the side filters from the side of the unit.
5. Wash the air filters gently in warm water with a mild detergent. Rinse the filters and dry them gently out of direct sunlight.
 - Make sure the filters are dry before use.
6. Slide all the filters back into position, side filters first, noting that the top of the upper side filter is curved and that the rear filters are marked, 'UP' and 'DOWN'.



STORAGE

1. If the appliance is not going to be used for some time, remove the drain cap/plug and ensure all the water is removed.
2. Operate the unit in FAN mode at low speed until the drain outlet is dry. This will discourage the growth of mould inside the unit.
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. Remove and contract the exhaust duct and store it carefully.
 - The duct must be disconnected by releasing the C-clamp which holds it in place.
5. Remove the batteries from the remote control to prevent damage caused by leakage.
6. Cover the unit and store it in a dry location.

FAULT CODES

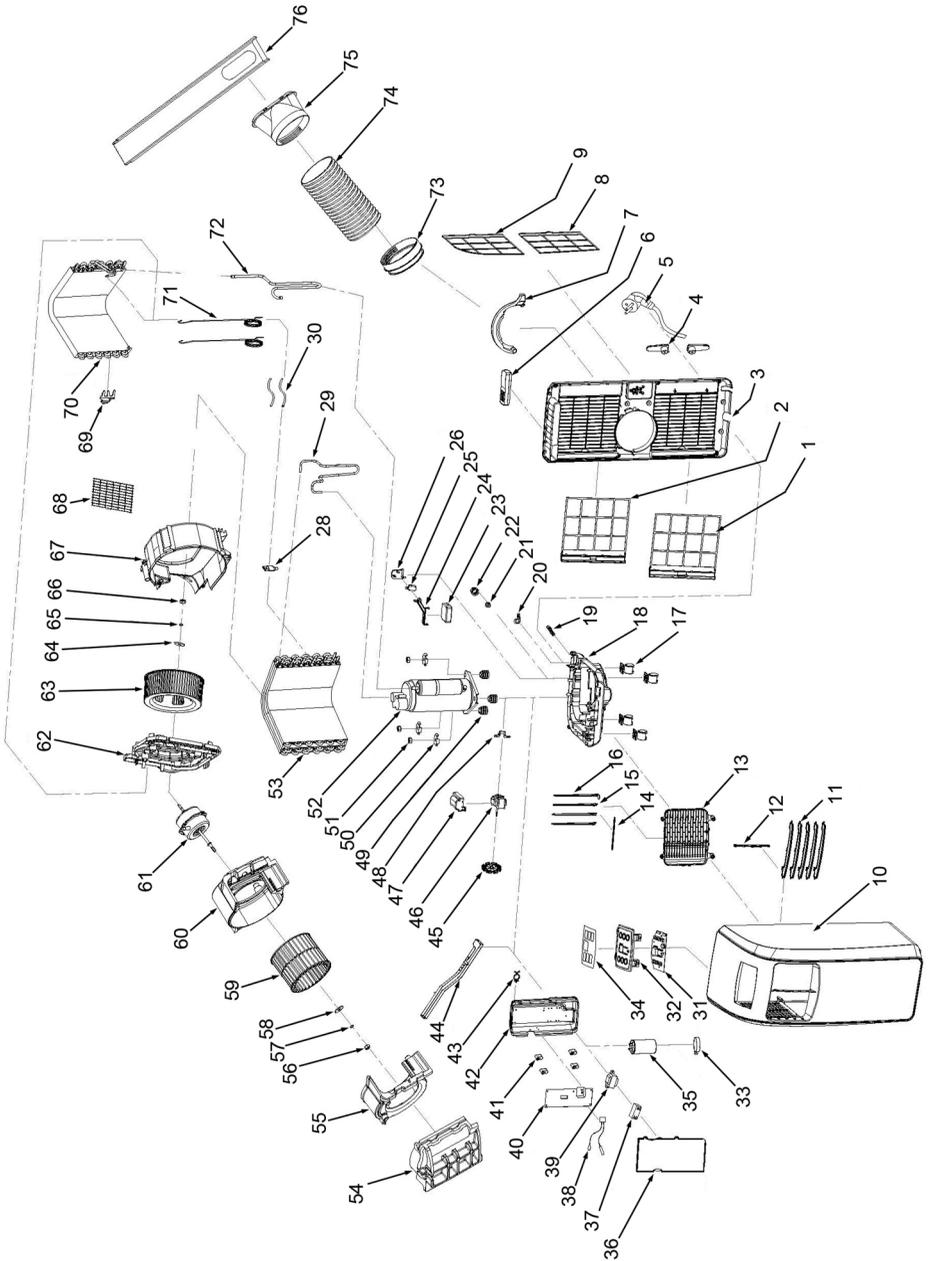
The following fault codes can be displayed on the control panel.

Fault Code	Diagnosis of Fault	Action Required
E1	Piping temperature is abnormal	Return to Clarke Service Department to check coil temperature sensor or circuit
E2	Room temperature sensor.	Return to Clarke Service Department to check room temperature sensor circuit
E4	Anti-freezing protection	Waiting for defrosting, function will recover automatically.

TROUBLESHOOTING

Problem	Check	Solution
The unit fails to operate	<p>Check for power failure if unit is plugged in.</p> <p>Check the switch is on and that the fuse is not blown.</p> <p>Is the set running time correct?</p> <p>Check that the water full indicator is not on.</p> <p>Room temperature is already lower than the set temperature in the cooling mode.</p>	<p>Plug the unit into the socket.</p> <p>Replace fuse or switch on.</p> <p>Change the set time duration.</p> <p>Drain the water container.</p> <p>Check that room temperature is between 10-35°C</p>
Inefficient cooling	<p>Unit is standing in direct sunlight.</p> <p>Is air inlet or outlet blocked?</p> <p>Doors or windows open or another source of heat in the room?</p> <p>Are the air filters very dirty?</p> <p>Is the set temperature suitable?</p>	<p>Draw the curtains to shield from sunlight.</p> <p>Remove obstruction.</p> <p>Close windows/doors. Remove the heat source.</p> <p>Clean the air filters.</p> <p>Change the temperature</p>
Noise or vibration	<p>Is the unit standing on an uneven surface?</p>	<p>Stand the unit on a flat, firm surface.</p>
Compressor doesn't work	<p>Overheating protection circuit has cut in.</p>	<p>Wait 3 minutes before re-starting unit.</p>
The remote control doesn't work	<p>The unit is too far away.</p> <p>Batteries are flat.</p> <p>Remote control not pointing at the air conditioner.</p>	<p>Move closer to the unit.</p> <p>Replace the batteries</p> <p>Aim the remote control at the unit.</p>

PARTS DIAGRAM



PARTS LIST

PART NO	DESCRIPTION	PART NO	DESCRIPTION
1	Rear condenser filter	35	Capacitor
2	Rear evaporator filter	36	Junction box cover
3	Rear panel	37	Motor capacitor
4	Cable storage post	38	Sensor
5	Power cable	39	Transformer
6	Remote controller	40	Main circuit board
7	Exhaust duct clamp	41	Mounting post
8	Side condenser filter	42	Junction box base
9	Side evaporator filter	43	Cable clip
10	Front panel	44	Lower duct right bracket
11	Horizontal swinging vane	45	Water wheel
12	Linking lever	46	Water pump motor
13	Air outlet frame	47	Motor cover
14	Link lever	48	Motor bracket
15	Vertical swinging vane	49	Compressor shockproof feet
16	Main vertical swinging vane	50	Claw spacer
17	Caster wheel	51	Nut
18	Base tray	52	Compressor
19	Cable gland	53	Condenser
20	Cable clamp	54	Upper duct sealing foam
21	Water drain plug	55	Upper duct upper foam
22	Drain cap	56	Nut
23	Float	57	Spring washer
24	Float arm	58	Flat shim
25	Water level switch	59	Higher fan wheel
26	Switch connector	60	Upper duct lower foam
27	n/a	61	Fan motor
28	4-way filter	62	Lower air duct-upper
29	Delivery tube	63	Lower fan wheel
30	Capillary sleeve	64	Flat shim
31	Display panel	65	Spring washer
32	Control panel	66	Nut
33	Capacitor mounting	67	Lower air duct
34	Display covering film	68	Metal grille

PART NO	DESCRIPTION	PART NO	DESCRIPTION
69	Indoor temp sensor fixing	73	Circular connector
70	Evaporator coils	74	Exhaust duct
71	Capillary tube	75	Duct connector
72	Return tube	76	Window installation panel

TECHNICAL SPECIFICATIONS

Power Supply	230V/50Hz
Weight	22.9 kg
Dimensions (L x W x H)	352 x 300 x 756 mm
Water Holding Capacity	0.35 L
Air Flow Volume	350 m ³ /h
Operating Temperature	10 - 35°C
Exhaust Duct Diameter	135 mm ID
Exhaust Duct Length (expanded)	1500 mm
Permissible Excessive Operating Pressure (suction/discharge)	1.5 Mpa/4.0 MPa
Max Pressure (Low/High Pressure Side)	2.0 Mpa/5.5MPa
Sound Pressure Level	Under 70 dB LpA
Sound Power Level	56 dB LwA
Energy Efficiency	2.61 (EU Class A)
Energy Consumption	0.8 kW/60min
Cooling Output	2.05 kW
Electrical Insulation Class	1
Energy Efficiency rate (EER)	2.6

REFRIGERANT DATA

This product contains hemetically sealed fluorinated greenhouse gasses,	
Type	R410A
Volume	430g
GWP	2088
Co ² Equivalent	0.898t

DECLARATION OF CONFORMITY



Clarke[®]
INTERNATIONAL

Hemnal Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2004/108/EC *Electromagnetic Compatibility Directive.*
2006/95/EC *Low Voltage Equipment Directive.*
2002/95/EC *Restriction of Hazardous substances.*
2009/125/EC *Ecodesign Requirements for Energy Related Products..*

The following standards have been applied to the product(s):

*EN 60335-1:2002+A1+A11+A12+A2+A13A14, A15, EN 60335-2-40:2003+A11+A12+A1-A2,A13,
EN 62233:2008, EN 55014-1:2006+A1, EN 55014-2:1997+A1+A2, EN 61000-3-2:2006+A1+A2,
EN 61000-3-11:2000, EN 1411-1:2001, EN 1411-2:2001, EN 1411-3:2001, EN 1411-4:2001.*

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2010

Product Description: Portable Air Conditioner
Model number(s): AC 7000
Serial / batch Number: N/A
Date of Issue: 27/11/2014

Signed:

J.A. Clarke
Director

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