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# Clarke<sup>®</sup> air



## 3 In 1 AIR CONDITIONER with REMOTE CONTROL

MODEL NO: CA9000

PART No: 32305600

## OPERATION & MAINTENANCE INSTRUCTIONS

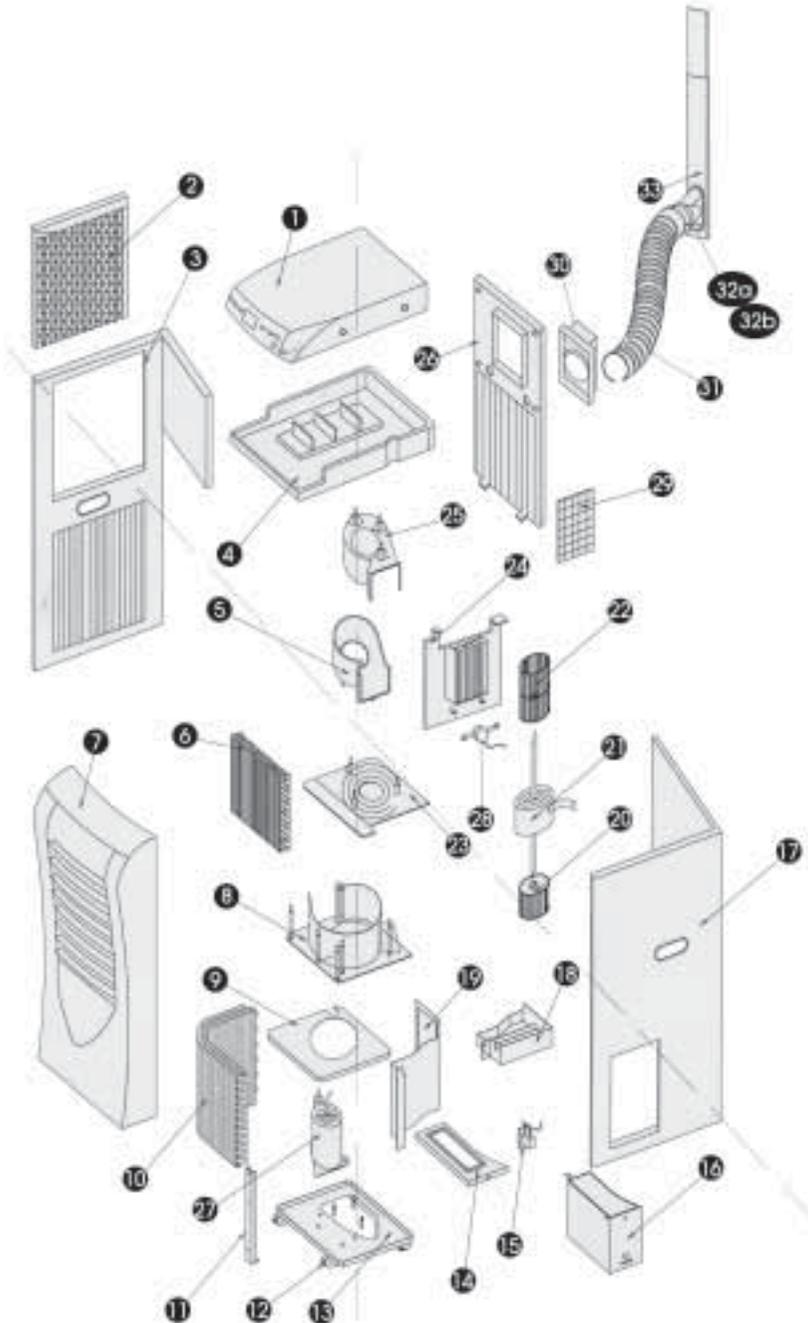


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### Parts List

Item	Part No	Description	Qty
1	FT900001	Top Cover	1
2	FT900002	Filter	1
3	FT900003	Left Side Cover	1
4	FT900004	Tray For PBA's	1
5	FT900005	Lower Fan Housing	1
6	FT900006	Evaporator	1
7	FT900007	Front Panel	1
8	FT900008	Lower Insulation Plate	1
9	FT900009	Condenser Cover	1
10	FT900010	Condenser	1
11	FT900011	Support	1
12	FT900012	Castor	4
13	FT900013	Base	1
14	FT900014	Drain Tank Base	1
15	FT900015	Water Level Switch	1
16	FT900016	Water Tank	1
17	FT900017	Right Side Cover	1
18	FT900018	Condensing Tray	1
19	FT900019	Rear Insulation Plate	1
20	FT900020	Eccentric Fan 2	1
21	FT900021	Fan Motor	1
22	FT900022	Eccentric Fan 1	1
23	FT900023	Fan Motor Bracket	1
24	FT900024	Air Baffle	1
25	FT900025	Upper Fan Housing	1
26	FT900026	Discharge Grill Complete	1
27	FT900027	Compressor	1
28	FT900028	Thermostat	1
29	FT900029	Grill	1
30	FT900030	Adapter (square)	1
31	FT900031	Flexible Venting	1
32a	FT900032a	Window Plate Adapter	1
32b	FT900032b	Adapter (round)	1
33	FT900033	Window Plate	1
34	FT900034	Retaining Hook (not shown)	2
35	FT900035	Main Supply PBA (not shown)	1
36	FT900036	Compressor capacitor (not shown)	1
37	FT900037	Fan Capacitor (not shown)	1
38	FT900038	Control Panel PBA (not shown)	1

## Parts Diagram



Thank you for purchasing this CLARKE Mobile Air Conditioner.

Before attempting to use the machine, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your air conditioner giving you long and satisfactory service.

## CLARKE 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 effect your statutory rights.

## Specifications

Elec. Supply:	230V 50Hz 1 ph
Refrigerant:	R407c - 680g
Power Rating:	1390W
Cooling Capacity:	9000BTU
Dehumidifying Capacity:	2.10L/HR
Fuse Rating:	13amp
Tank Volume:	4L
Net Weight:	36kgs
Noise Level:	56dB(A)
Flow Rate:	300m <sup>3</sup> /hr
Pressure:	HP:2.6 Mpa - LP:0.7 Mpa
Dimensions L x H x W:	375mm x 828mm 442mm

## Check List

- 1 x User Instruction Manual
- 1x Remote Control
- 2 x AAA Batteries
- 1 x Air Conditioner
- 1 x Exhaust Duct
- 2 x Duct Adapters
- 1x Window Plate
- 2 x Cable Hooks complete with 4 x self tapping screws

Please note that the details and specifications contained herein, are correct at the time of going to print. However, CLARKE International reserve the right to change specifications at any time without prior notice.

## Electrical Connections

This product is provided with a standard 13 amp, 230 volt (50Hz), BS 1363 plug, for connection to a standard, domestic electrical supply. Should the plug need changing at any time, ensure that a plug of identical specification is used.

### WARNING ! THIS APPLIANCE MUST BE EARTHED

This machine must be wired up in accordance with the following colour code:



BLUE - NEUTRAL  
BROWN - LIVE  
GREEN/YELLOW - EARTH



- Connect the BLUE coloured cord to the plug terminal marked "N"
- Connect the BROWN coloured cord to the plug terminal marked "L"
- Connect the GREEN/YELLOW coloured cord to the plug terminal marked "E"

If this appliance is fitted with a plug which is moulded on to the electric cable (i.e. non-rewireable) please note:

1. The plug must be thrown away if it is cut from the electric cable. There is a danger of electric shock if it is subsequently inserted into a socket outlet.
2. Never use the plug without the fuse cover fitted.
3. Should you wish to replace a detachable fuse carrier, ensure that the correct replacement is used (as indicated by marking or colour code).
4. Replacement fuse covers can be obtained from your local dealer or most electrical stockists.



## Fuse Rating

The fuse in the plug must be replaced with one of the same rating (**5 amps**) and this replacement must be approved to BS1362.

If in doubt, consult a qualified electrician. Do not attempt any electrical repairs yourself.

## Cable Extension

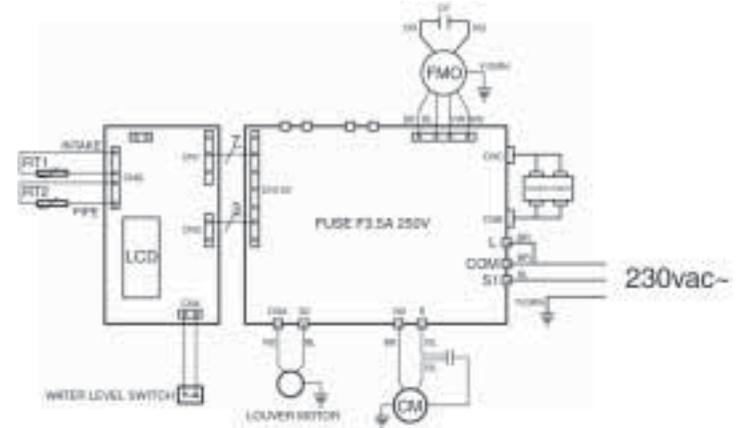
Always use an approved cable extension suitable for the power rating of this tool (see specifications), the conductor size should also be at least the same size as that on the machine, or larger. When using a cable reel, always unwind the cable completely.

### IMPORTANT:

If a cable extension is needed, it is essential to comply with the following data.

Voltage	Extension length	Cable section
230v	Up to 20m	2.5mm <sup>2</sup>
230v	From 20 to 50m	4mm <sup>2</sup>

## Electrical Schematic



## Trouble Shooting

The Air Conditioner does not operate at all.	Check power is available. Check fuse and or switch. Check water full indicator. Check water tank is correctly fitted. Check if time ON has been set.	Have supply checked. Replace fuse/switch ON. Empty water tank. Push tank fully in.  Adjust setting.
Not cooling efficiently.	Inlet/outlet blocked. Heater on in room. Air filter dirty. Temp set incorrect. Fan speed set too low.	Clear blockage. Remove heat source. Clean or replace filter. Reset to room temp. Step up speed.
Vibrating and noisy	Check m/c is on a level surface.	Move m/c onto level surface.
M/c keeps stopping.	Check power supply (correct voltage etc). Check exhaust duct is not kinked etc.	Have supply checked and rectified. Adjust exhaust ducting.

Fault Codes LCD	Code 7	Overheat protection.	If in doubt, contact CLARKE PARTS & SERVICE TEL: 020 8988 7400
	Code 10	Faulty coils.	
	Code 11	Room temperature faults.	

3. Withdraw the drain tube from inside the tank box fig. 8.
4. Reinstall the water tank and carefully route the drain tube through the hole whilst doing so, see Fig. 9.
5. Carefully push the tank fully in, ensuring the tube is not kinked or interfering with the water full mechanism on the tank.

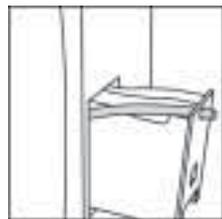


Fig. 9

## MAINTENANCE

Before carrying out any maintenance duties it is important to isolate the machine from the electric supply, switch the m/c OFF and remove the 13amp plug from the socket.

To clean the machine, use a soft damp cloth, for stubborn marks, a mild household detergent may be used. Never use harmful abrasives or chemicals as these could cause serious damage to the unit.

### Air Filter

Depending how much the machine is used and the environment it is used in, it will be necessary to remove and clean the air filter. To do this proceed as follows.

- Open the air filter cover, see fig. 10, by pulling firmly on the handle.
- Remove the filter from the cover by gently easing it off the hooks on the cover



Fig. 10

Gently clean the filter using a vacuum cleaner and a clean soft brush, if required the filter can be carefully washed, by immersing it gently into warm (40°) water with a mild household detergent. Rinse and allow the filter to dry thoroughly before refitting.

## Storage

Before storing the air conditioner for long periods i.e. at the end of the season, it is necessary to drain all water from the machine, to do this proceed as follows.

- Ensure the machine is isolated from the electrical supply by switching off and removing the plug from the socket.
- Remove the water tank, empty contents and leave to drain and dry.
- Locate the drain tube in the left hand side of the tank box, see fig. 8. Withdraw the tube and remove the stopper, drain water into a suitable container. DO NOT refit the stopper.
- Plug the machine into the main electric supply and switch ON in fan mode, continue to run the machine in this mode until the tube is completely dry.
- Switch the machine OFF and remove the plug from the socket, replace the stopper into the drain tube, carefully return the tube back into the tank box, reinstall the water tank.
- Wind up the power cable, wrap the machine in a suitable plastic/polythene bag.

## Safety Precautions

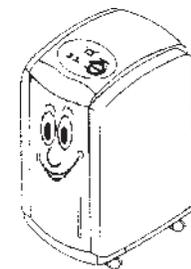


*As with all machinery, there are certain hazards involved with their operation and use. Exercising respect and caution will considerably lessen the risk of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator or damage to property, may result.*

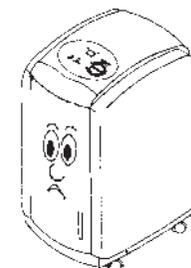
*Care must be taken when handling water near electricity as there is risk of electric shock*

**WARNING! Read these safety instructions before using the equipment.**

- Always** keep the unit in an upright position.
- Always** leave the unit to stand for an hour before switching on if it has been tilted or moved from an upright position i.e after transportation or cleaning.
- Always** allow a gap of 50mm around the unit to allow air to circulate.
- Always** ensure that the air inlet and outlet areas are clear.
- Always** remove the mains plug before carrying out any maintenance.
- Always** switch off, unplug and empty water tank before moving.



- Never** use the unit near heaters or other sources of heat.
- Never** pour or spray water on the unit.
- Never** use solvent cleaners or other flammable liquids to clean the unit.
- Never** use the mains switch or pull out the plug to stop or start the machine. Use the switch on the control panel to avoid damaging the unit.



## REMOTE CONTROL

### Temperature Setting

This button is used to set the room temperature. Increase or decrease the temperature setting, press either the   buttons.

Each time a button is pressed, the setting is increased or decreased by 1°C.

### Fan Speed

Pressing this button can choose high, middle or low-speed of air delivery.

### Timer

This button is used to set the ON/OFF time. Used in conjunction with the "HOUR" button, the time setting can be made within the range of 1 - 12 hours, with an interval of one hour.

### Time Setting

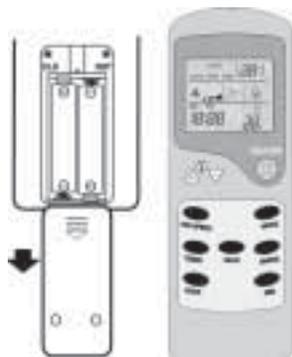
This button is used to set the current time or the time for timed ON/OFF.

### Installing Batteries

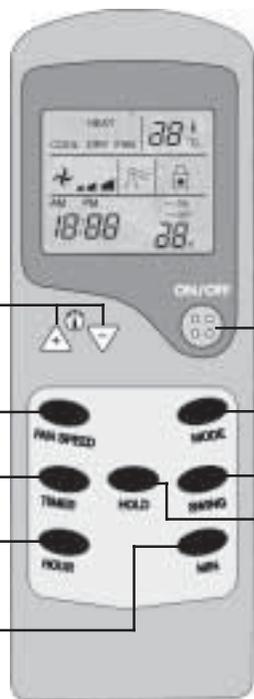
Open the battery compartment and insert the batteries (two times AAA), as per diagram below.

To open the battery compartment, apply slight downward pressure on the cover at the point marked  and slide the cover open in direction of arrow.

When the batteries are inserted the display will show the time only, at 0:00 AM. To set the correct time, proceed as follows.



- 1** Open the battery compartment as above. Using the tip of a ball point pen or similar, push the **CLK** (clock) button, the time indicator now flashes.
- 2** Press the **HOUR** button to set the correct hour.  
**NOTE:** hold the button in, the hour will continue to scroll quickly, release the button to stop scrolling.
- 3** Press the **MIN** button to set the correct minutes.  
**NOTE:** hold the button in, the minute will continue to scroll quickly, release the button to stop scrolling.
- 4** Press the **CLK** button again. The time is now set, refit the battery compartment cover.



### ON/OFF

Pressing this button will turn the machine ON and OFF.

### Mode Selection

Press this button to select the required modes of cooling, dehumidification or fan only.

### Swing

Press this button to select the left/right swinging of air delivery or to stop swinging.

### Hold

Press this button to lock or unlock the keyboard.

### Attention

Pressing  and  buttons together for more than two seconds will lock the key pad. The LCD will show , to unlock, press both buttons again.

### Water Drainage

When cooling or dehumidifying, water will collect in the tank. When the tank becomes full, the WATER FULL indicator will flash, and the machine will cut out.

To empty the water, remove the tank, (fig. 7a), pour water out (fig. 7b), reinstall tank ensuring it is fully pushed in (fig. 7c).

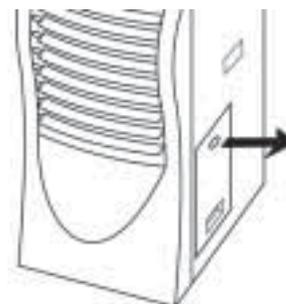


Fig. 7a



Fig. 7b



Fig. 7c

NOTE: DO NOT remove the tank whilst the machine is running, this will cause the audible warning buzzer to sound and the machine will stop.

It is permissible to remove the tank before it becomes full. Switch the machine off and wait three minutes before doing so, this prevents water from spilling into the machine.

It is possible to plumb the unit in so that the need to empty the water tank is not required, to do this proceed as follows:

1. Ensure the machine is switched off and isolated from the main electric supply.
2. Remove water tank, empty if any water is present.

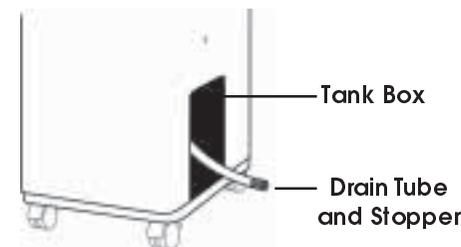


Fig. 8

## OPERATION

### Cooling and Dehumidifying Operation

The operating range for cooling operation is, 16°C-31°C and the operating range for dehumidifying is 20°C-31°C.

### Connecting To The Electrical Supply

It is recommended to connect the mobile air conditioner to an electric supply not used for other appliances.

Insert the plug into the 13amp socket, an audible warning (two beeps) should be heard, after hearing the warning, wait for two seconds, then press the  (ON/OFF) button, the unit should now run.

### Cooling Operation

1. Ensure that the drain tank is properly installed in the unit.
2. Press the  (Mode) button to choose the cooling mode, LCD will display "cool".

During the cooling operation, the exhaust duct should be directed to the outside through an open window etc.

3. Repeatedly press the  (Temp) button to set the room temperature.
4. Press the  (Fan) button to select the fan speed, (High, Middle or Low).
5. Press the  (Swing) button to adjust the air delivery direction, this can be static in one direction or can be oscillating.

Press the swing button once,  will be displayed in the LCD, and the air flow will be oscillating from side to side. To set the air flow in one direction only, wait until the air is blowing in the required direction, and press the swing button again.

*NOTE: to maintain efficient cooling, draw the window blinds/curtains, if the room is directly exposed to strong sun.*

*Also DO NOT site the air conditioner in direct sunlight, or other heat source.*

### Dehumidifying Operation

1. Ensure doors and windows are closed to aid the effectiveness of the unit.
2. Ensure the drain tank is correctly installed.
3. Repeatedly press the  (Mode) button until the LCD reads "DRY", in this mode the fan speed cannot be adjusted.

*NOTE: when used as a dehumidifier only, it is not necessary to use the exhaust duct.*

### Time Set Function

#### Automatic Start Time

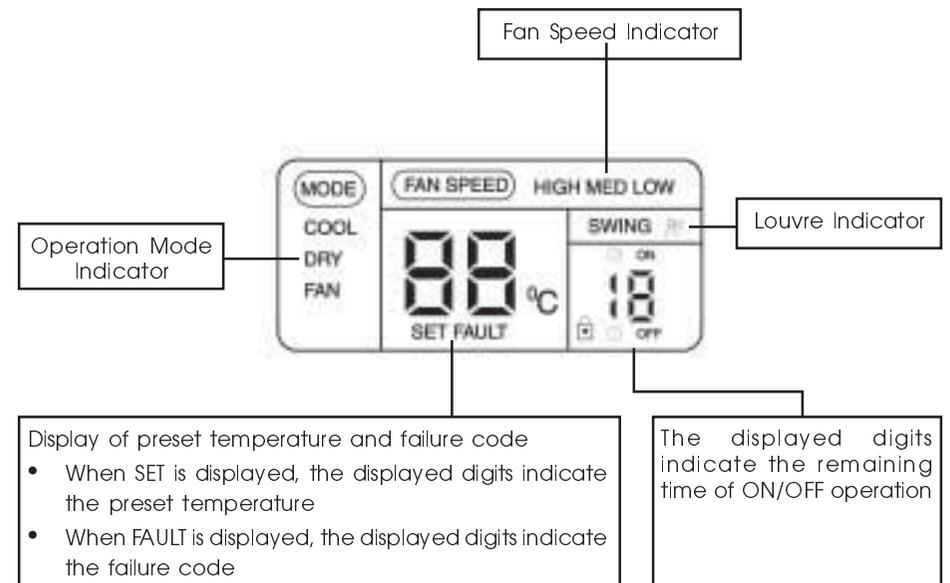
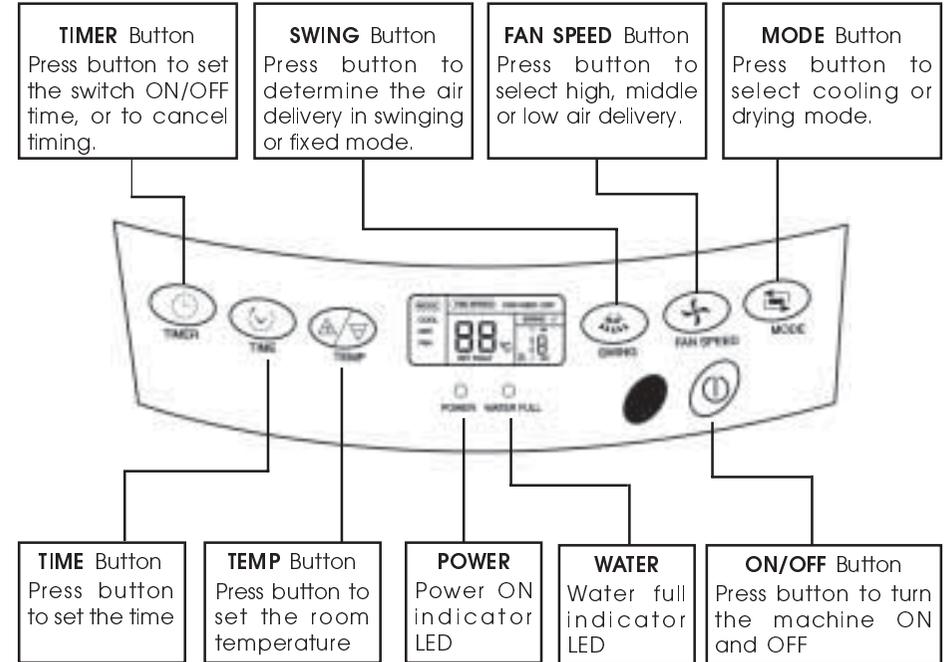
Ensure the machine is switched off and is plugged into the main electrical supply,

1. Press the  (Timer) button, the LCD will show  ← ON, press the  (time) button and select the start time as required. The setting range is 1 - 12 hours.

#### Auto Swing Function

1. Press the  (Swing) button, LCD will show , the vertical louvres will start to swing automatically.
2. Press the  (Swing) button again, the symbol , will disappear and the vertical louvres will stop swinging.

## CONTROL PANEL



## INSTALLATION

### Siting the Machine

When siting the machine, observe the minimum space requirements as in fig. 1. The air conditioner must have a minimum space of 500mm (20") on all four sides, this also includes the top of the machine.

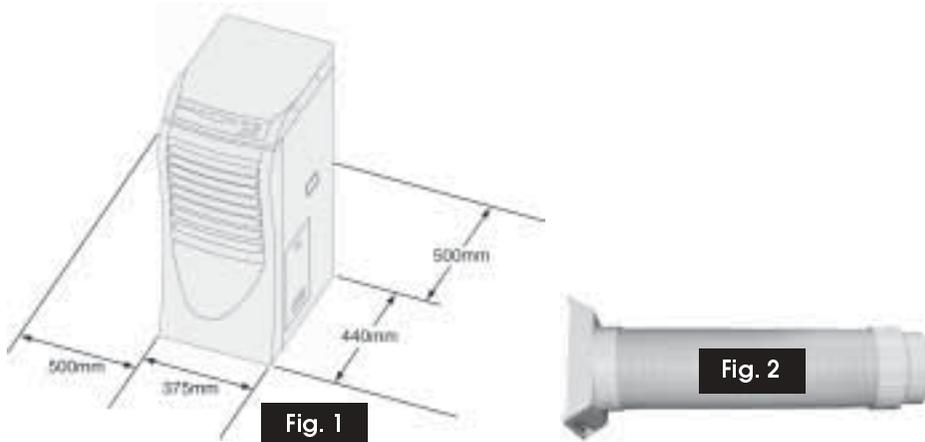


Fig. 1

Fig. 2

### Exhaust Ducting

NOTE: numbers in brackets refer to item numbers in parts list.

The hot air must be ducted to the outside through an open window, using the ducting kit supplied as follows.

1. Make up the ducting assembly before attaching to the machine, fig. 2 (three items, **30, 31 and 32a**). The adapters are fitted to the ducting by screwing on in an anticlockwise direction, it may be necessary to apply a thin film of liquid soap or similar to make this operation easier.
2. Attach the square end of the assembly to the back of the unit by sliding onto the receptacle in the direction of arrow, fig. 3.

NOTE: ducting left off for illustration purpose only.

3. Make up the window Plate assy, fig. 4 (two items, **32b and 33**). Fit the completed assy into an open window, secure in place by closing window and wedging plate assembly in position, ENSURE the assy cannot fall out leading to injury etc to people or animals below.
4. Manoeuvre the air conditioner into position, extend the ducting by pulling on the free end and connect to the window adapter.



Fig. 3

Fig. 4



When connecting the ducting, always try to keep bends as smooth as possible without kinks etc.

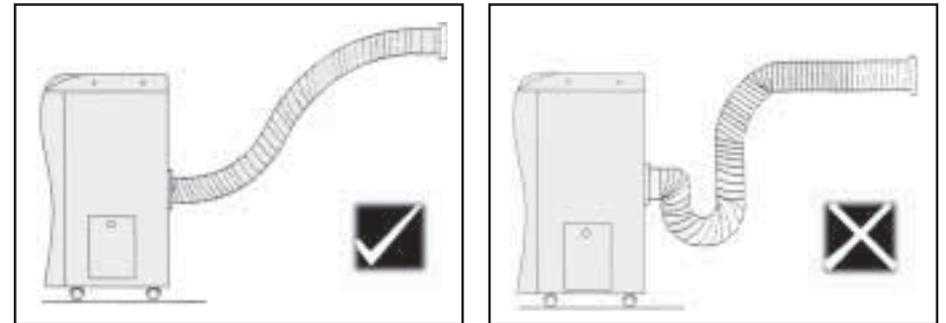


Fig. 5

Finally fit the cable tidy retaining hooks using the screws supplied, fig. 6



Fig. 6

Your air conditioner is now ready for use