

challenge[®]

Portable Air Conditioner

INSTRUCTION MANUAL



THANK YOU

Thank you for choosing this innovative Challenge air conditioner. We suggest that you keep this manual in a safe place for future reference. It describes the many benefits and advanced features this unique product has to offer. Before you use your air conditioner you should carefully read these instructions to maximise this product's performance.

Challenge has specialised in complete indoor environmental control, manufacturing and marketing; dehumidifiers, portable air conditioners, coolers, air purifiers, ionisers and aroma therapy scent diffusers. These world class products incorporate the latest technological developments.

SAFETY INSTRUCTIONS

IMPORTANT!

- The unit is designed for indoor operation.
- Rating: This unit must be connected to a 220-240V~ /50Hz earthed outlet.
- The installation must be in accordance with regulations of the country where the unit is used.

If you are in any doubt about the electrical installation, have it checked and if necessary modified by a qualified electrician.

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- The air conditioner is safe. However, as with other electrical appliances, use it with care.
- Keep out of the reach of children.
- Do not clean the unit by spraying it or immersing it in water.
- Do not insert any object into the openings of the unit.
- Disconnect it from the mains before cleaning the unit or any of its components.
- Never connect the unit to an electrical outlet using an extension cord. If an outlet is not available, one should be installed by a licensed electrician.

WARNING!

- Never operate this appliance if it has a damaged cord or plug. Do not lead the cord over sharp edges.
- A damaged supply cord should be replaced by the manufacturer, its service agent or a qualified person in order to avoid a hazard.

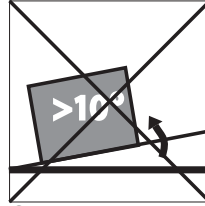
Do not use your air conditioner:



If the power cable wires are frayed or cut



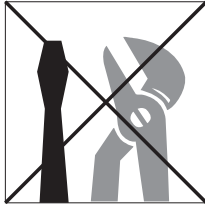
When small children may be left unattended



On a slope or uneven surface



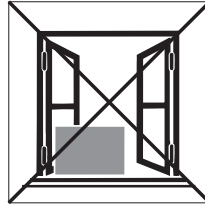
Close to a heat source



This products is not made for DIY repair



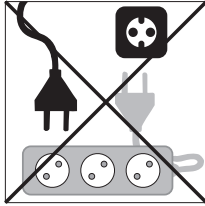
If there is a risk of liquid falling on the unit



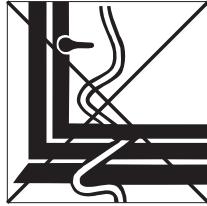
Inside unit exposed to the weather outdoors



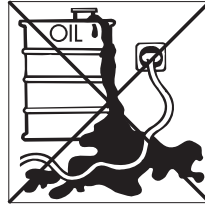
In a permanent very humid environment



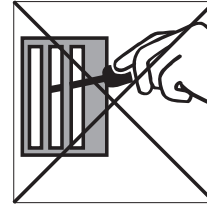
If an extension lead may become overloaded



Where the power cable may be damaged



Where it may be damaged by chemicals



Where there is a risk of interference by foreign objects

BEFORE USE

GENERAL SAFETY

- Only use in the upright position on a flat level surface and at least 36 cm from any objects (fig 1 & 4).
- Do not place objects on the unit or block the air inlet / outlet (fig. 2).
- Closely supervise any children and pets when unit is in use.

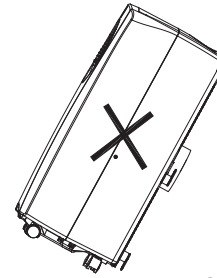


FIG. 1

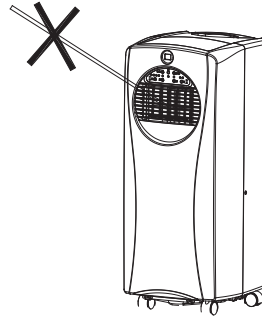


FIG.2

ELECTRICAL SAFETY

- For indoor use only.
- Switch off and unplug when not in use.
- Do not use in humid or wet environments (fig 3)
- Do not pull the UNIT by the cord.
- IF THE SUPPLY CORD IS DAMAGED, IT MUST BE REPLACED BY AN ELECTRICIAN OR SIMILARLY QUALIFIED PERSON, TO AVOID HAZARD.

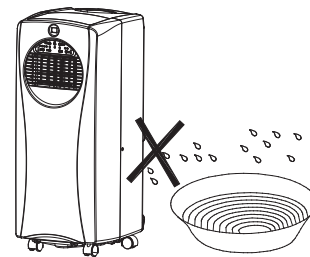


FIG.3

FOR MAXIMUM EFFICIENCY

- Do not exceed the recommended room size 50m³ (typically 20m² floor area)
- Close doors and windows
- Keep curtains or blinds closed during the sunniest part of the day
- Keep filters clean
- Once room has reached the desired conditions, reduce temperature and ventilation settings

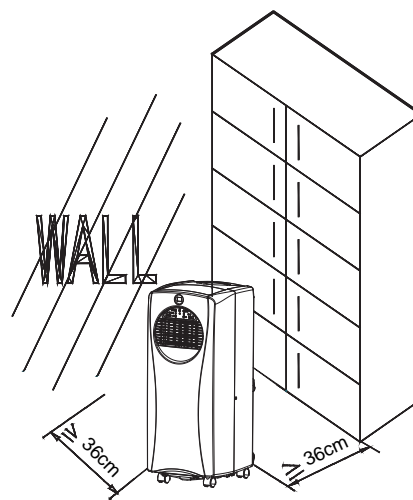


FIG.4

PARTS

Front

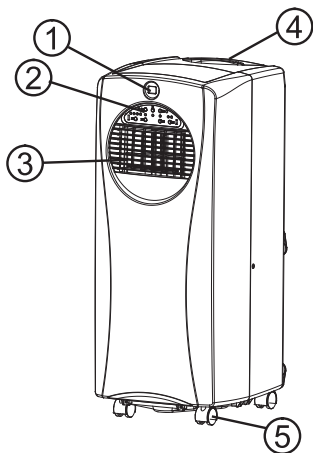


FIG.5

1. Display
2. Control panel
3. Air outlet
4. Carrying handle
5. Caster

Back

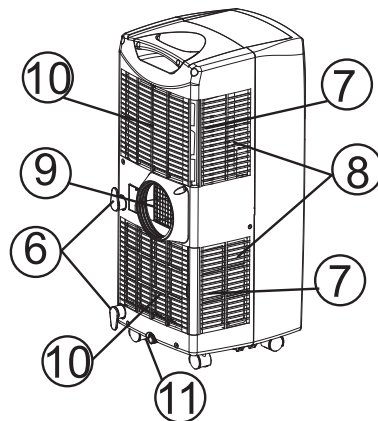


FIG.6

6. Cord storage
7. Air filter
8. Air inlet
9. Exhaust air outlet
10. Air inlet
11. Water stopper/drainage

Accessories

12. Exhaust hose
13. Outward adapter - for insertion over hose and into foam strip (or into hole in the wall/window).
14. Round cap for filling the hole in wall/window.
15. Active carbon filter
16. Drain tube for continuous drainage
17. Remote control

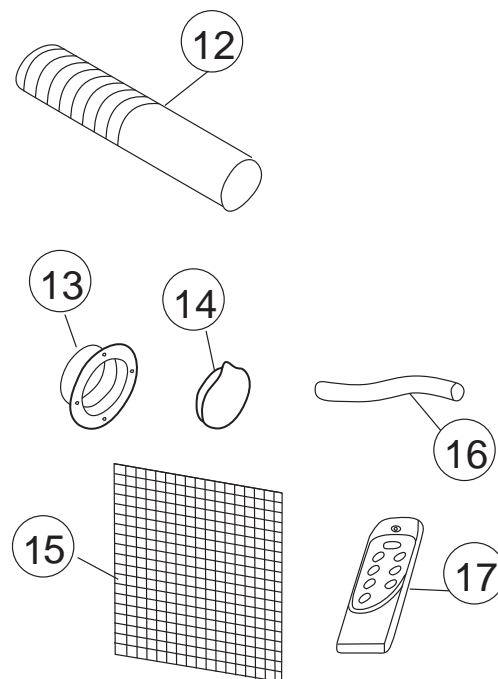


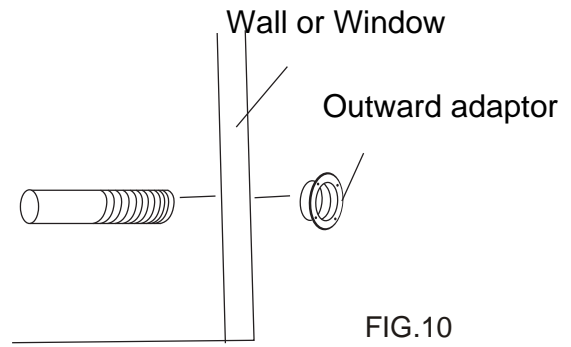
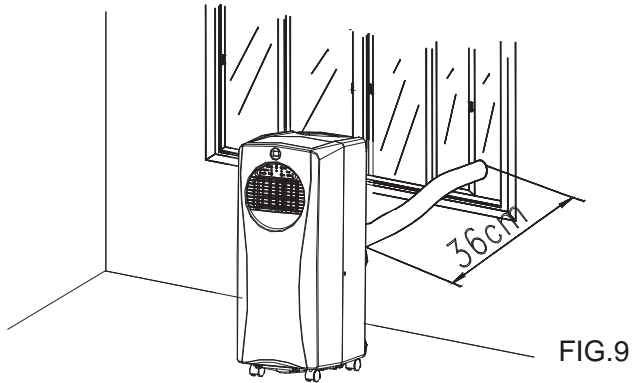
FIG.7

INSTALLATION

Installation of the exhaust pipe

The unit is a portable air conditioner that may be moved from room to room.

Using the adaptor



- Cut a 137mm diameter hole in the wall or window.
- Feed exhaust hose through the window or wall and attach the threaded adaptor from the outside as shown.
- When not in use, plug the hole with the cover provided.

Mounting of the exhaust pipe

- Use only the hose provided and clip exhaust hose to the back of the air conditioner
- Avoid kinks and bends in the exhaust hose as this will cause expelled moist air to build up causing the unit to overheat and shut down. Fig 11 & 12 show correct position
- The hose may be extended from 300mm to 1500mm but for maximum efficiency use the shortest length possible.

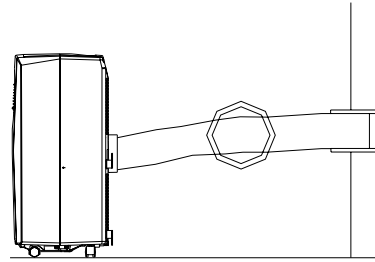


FIG.11

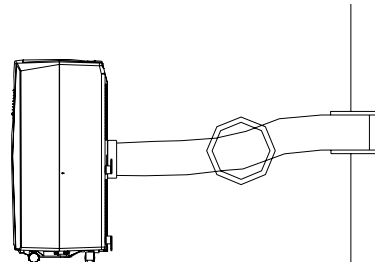


FIG.12

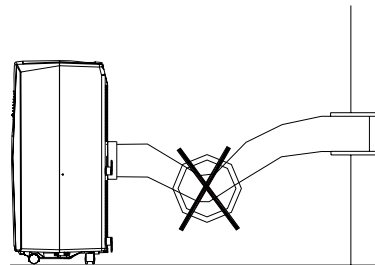


FIG.13

WARNING!

The length of the exhaust pipe is specially designed according to the specification of this product. Do not replace or prolong it with your own private hose as this could cause the unit to mal-function.

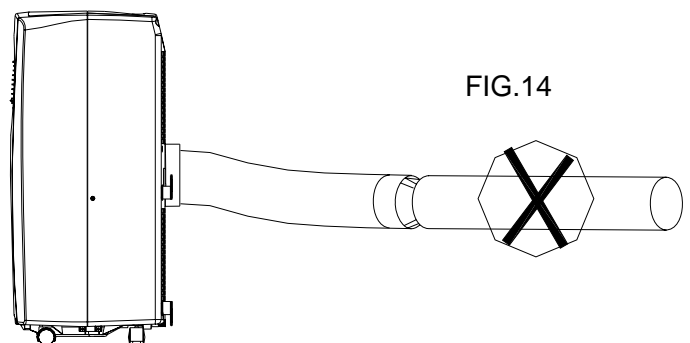


FIG.14

Installation of the carbon filter

1. Remove the filter frame from the unit.
2. Remove the active carbon filter from its plastic bag.
3. Insert the active carbon filter into the back of the unit.
4. Re-fit the filter frame inside the unit.

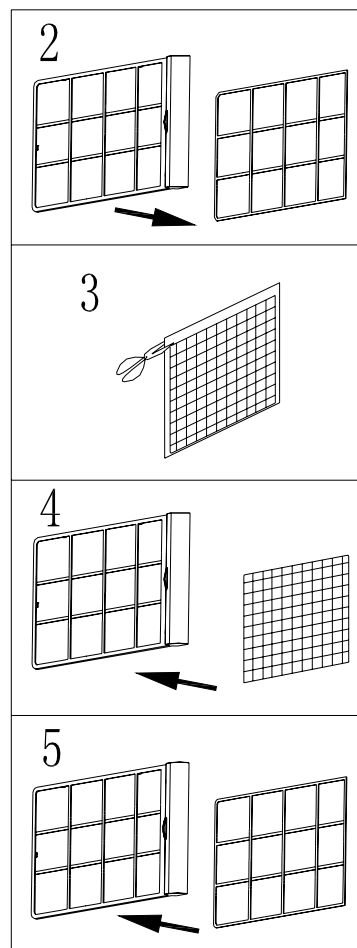
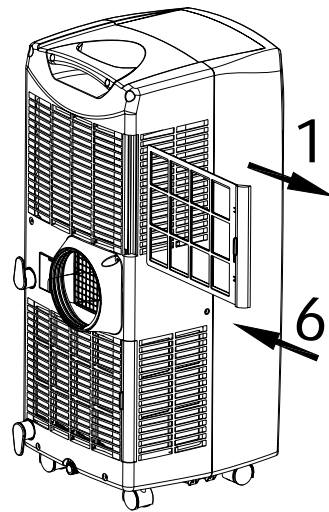


FIG.15

OPERATION

Control panel

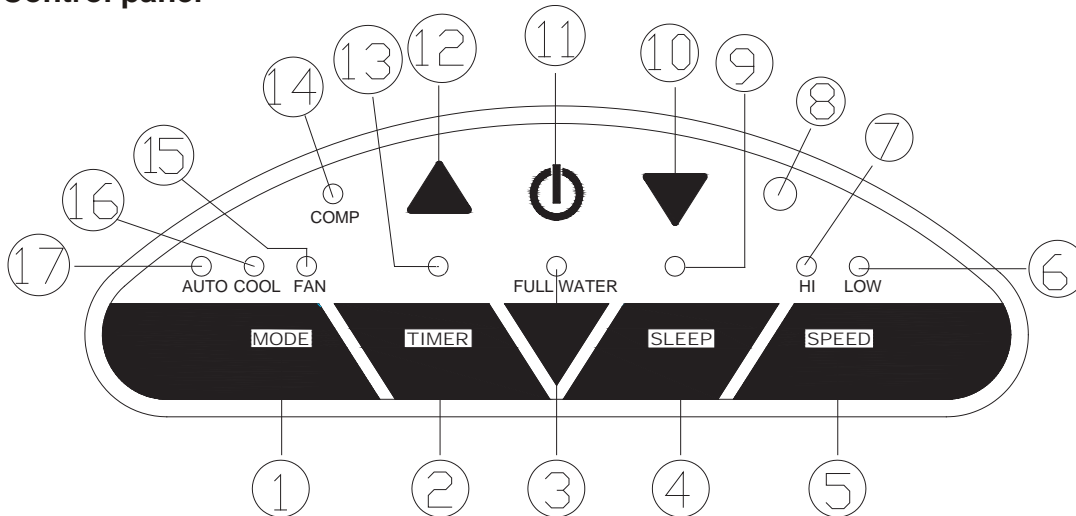


FIG.16

1. Mode button
2. Timer button
3. "Water full" indicator
4. Sleep button
5. Fan speed button
6. Low ventilation indicator
7. High ventilation indicator
8. Receiver for remote control
9. Sleep operation indicator
10. Decrease temperature button
11. ON/OFF button
12. Increase temperature button
13. Timer operation indicator
14. Compressor operation indicator
15. Fan mode indicator
16. Air-conditioning mode
17. Auto mode indicator

BUTTONS

Mode button

- It is for selecting Fan mode, Air-conditioning mode or auto mode.

Timer button

- It is to switch on / off the timer mode and adjust the set time for the timer.

Sleep button

- It is to switch the operation mode to sleeping mode.

Fan Speed button

- It is for selecting between the low and high fan mode.

Increase (▲) & Decrease (▼) Temperature button

- It is for adjusting the set temperature under the air-conditioning mode.

ON/OFF button

- It is to switch on / off the unit.

INDICATORS

Water Full indicator

- This light will be illuminated when the water tank is full. Please follow the step in EMPTYING THE WATER CONTAINER section to clear out the water. If the water is not drained out, the appliance will not operate.

Low ventilation indicator

- This light will be illuminated when the appliance is operating with low speed fan.

High ventilation indicator

- This light will be illuminated when the appliance is operating with high speed fan.

Sleep operation indicator

- This light will be illuminated when the appliance is operating under the sleeping mode.

Timer operation indicator

- This light will be illuminated when the timer mode is ON.

Compressor operation indicator

- This light will be illuminated when the compressor is turn on.

Fan mode indicator

- This light will be illuminated when the appliance is operating under the Fan mode.

Air-conditioning mode indicator

- This light will be illuminated when the appliance is operating under the Cooling mode.

Auto mode indicator

- This light will be illuminated when the appliance is operating under the Auto mode.

AIR-CONDITIONING MODE

Continue to press the Mode button until the Air-conditioning mode indicator is illuminated. The desired fan speed (High / Low) can be set by pressing Fan speed button. In this mode, the setting of temperature can be set by pressing (▲) or (▼) button continuously. It can be adjusted from 18°C to 32°C. Once the desired room temperature is reached, the compressor will be turned off. The compressor will turn on and off automatically maintaining the room temperature that you have set. After finished setting, the display will revert to the room temperature display.

FAN MODE

Continue to press the Mode button until the Fan mode indicator is illuminated. The desired fan speed (High / Low) can be set by pressing Fan speed button. In this mode, the setting of temperature will not be function.

AUTO MODE

This appliance is equipped with a built-in program to adjust the operation mode (FAN / Air-conditioning) and fan speed (High / Low) by itself under this mode. Press the mode button continuously until the AUTO mode indicator is illuminated. The only thing you need to do is to adjust the setting of the desired room temperature. Continue to press (▲) or (▼) button until the desired temperature is selected. The temperature can be adjusted from 18°C to 32°C.

Once the desired room temperature is reached, the compressor will turn on and off automatically maintaining the room temperature that you have set. After finished setting, the display will revert to room temperature.

SETTING THE TIMER

When the appliance is on, press the timer button to enter the timer mode. Continue to press the time button and the time will switch from 0>1.....11>12>0. Select the time to be "0", then the timer mode will be turned off. Select the time to be "1 to 12", then the timer mode will be ON and the indicator will be illuminated. When the set times is arrived, the appliance will be turn off itself automatically. When the appliance is off, you can set the timer to turn itself on by pressing the button to set the time. The appliance will turn itself on once the time is arrived. After finished setting, the display will revert to the room temperature.

SLEEPING MODE

While operating under the air-conditioning mode, press the SLEEP button to enter the sleeping mode. The unit will automatically increase 1°C at the 1st hour and add another 1°C in the second hour. Then it will keep to run at that temperature. The fan speed will be changed to low fan speed. After continuous running for 12 hours under the sleeping mode, the unit will shut itself down automatically.

To cancel the sleeping mode, press the SLEEP button again. It will switch back to the previous operation mode.

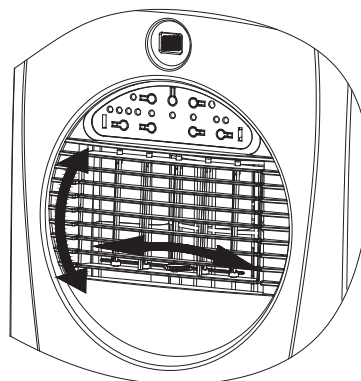
Note: The sleeping mode is not available while the unit is working under the AUTO or FAN mode.

REMOTE CONTROL

The air conditioner responds to all signals that are sent by the remote control. Two AAA batteries are required to use the remote control. Point the remote control handset towards the control panel of the unit and press the relevant button, the red LED on the handset will flash whenever a button is pressed.

AIR FLOW

Adjust the air flow up and down by turning the outlet grill around at its horizontal axis.



IMPORTANT

- The compressor will start approximately 3 minutes after the unit is turned on. After switching the unit off, please wait at least 3 minutes before turning the unit back to on.
- The cooling function will switch off when the room temperature is lower than the set one. Ventilation will however continue to work at the set level. When the ambient temperature rises above the chosen value, the cooling will resume.

EMPTYING THE WATER CONTAINER

During the process of cooling, some water will be extracted from the air into the unit. If the reservoir is full, both of the compressor and motor will stop and the units would buzz (you can press any button to stop the buzz). The Water full indicator will flash to show you.

To make the cooling work again, please empty the water by one of the following ways:

1. Turn off the air conditioner and avoid moving it when full.
2. Position a container (a water tray for example) underneath the drain hole.
3. Remove the drain knob & rubber plug from the drain hole and allow the water to drain out.
4. When the container is almost full, replace the rubber plug in the drain hole and empty the water tray.
5. Repeat until the unit is emptied.
6. Replace the rubber plug and tighten the drain knob firmly.
7. Switch on the unit - the full water or compressor operating indicator should not be flashing.

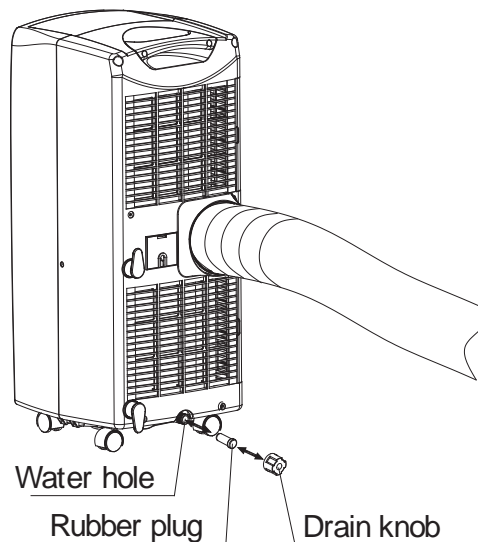


FIG.19

PERMANENT DRAINAGE

If you wish to operate the unit without the need to empty the water tank, please:

- Remove the drain knob and rubber plug and retain for future use.
- Connect the drain tube supplied to the water outlet as shown and locate the other end into a drain.

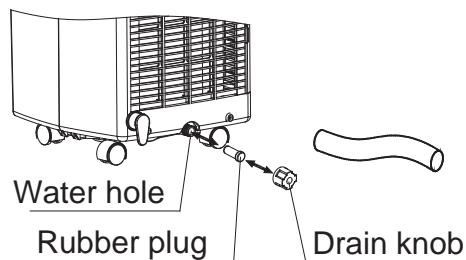


FIG.20

- The drain tube may be extended by adding an extension tube and using a suitable connector.

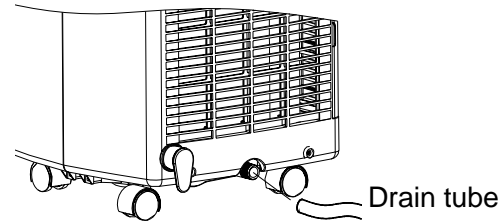


FIG.21

Please note

- The drain must be at or below the outlet level.
- Flashing 'full water' indicator will not function in this mode of drainage.
- If you want to extend the water tube, you can connect it with another tube (outer diameter: 18mm)

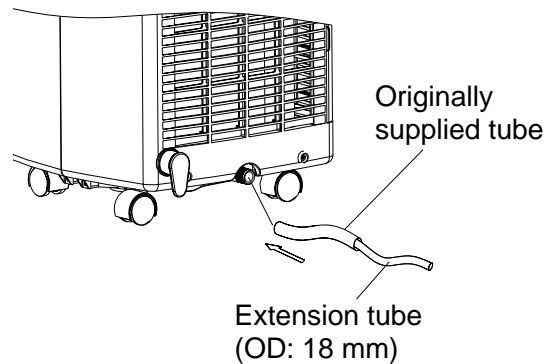


FIG.22

-Make sure the tube has no sharp bends and slopes down all the way to let the water flow freely.

Note: When the unit is relocated or permanent drainage is not wanted any more, simply disconnect the unit from the mains, remove the drainage hose and replace the rubber plug and drain knob.

MAINTENANCE

**Always unplug the air conditioner from the mains before cleaning.
To maximize the efficiency of the air conditioner clean regularly.**

Cleaning the housing

Use a soft, damp cloth to wipe the body clean.

Never use aggressive chemicals, gasoline, detergents, chemically treated cloths, or other cleansing solutions. These all could possibly hurt the cabinet.

Cleaning the filter

Use a vacuum cleaner or tap the filter lightly to remove loose dust and dirt from the filters and then rinse thoroughly under running water (no hotter than 40°C).

Dry thoroughly before replacing.

Notice! Never operate the unit without the filters.

End of season storage

- Drain any water in the unit before completely operating the unit on ventilation only mode for a few hours, to thoroughly dry the inside.
- Clean or change the filter
- Unplug and store the power cord as shown
- Replace in the original carton or cover for storage.

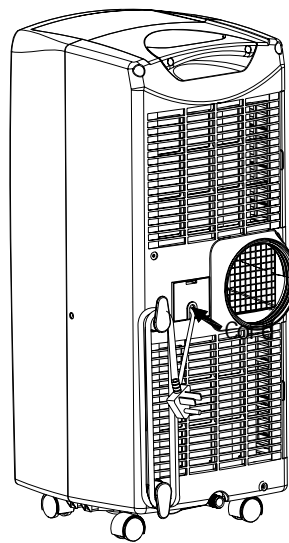


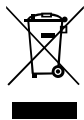
FIG 23

TROUBLE SHOOTING

Never try to repair or dismantle the air condition yourself. Incompetent repairs result in loss of warranty and can endanger the user and the property		
Problem	Cause	Solution
The air conditioner does not function.	No power supply.	Connect to a functioning outlet and switch on.
	Is the power light flashing?	Empty the drain pan.
	Timer function is active.	Deactivate the TIMER function.
The air conditioner does not seem to perform.	The unit is in direct sunlight.	Close curtains.
	Windows or doors open, many people or a heat source in the room.	Close doors and windows, place an extra air conditioner.
	The filter is dirty	Clean or replace the filter
	Air inlet or air outlet blocked.	Remove the blockage.
	Room temperature lower than the selected value.	Change temperature selection. Set at the lowest possible setting: 18°C.
The unit is noisy	Unit stands uneven.	Place on an even, solid surface (less vibrations).
The compressor does not work.	The overheat protection is probably activated.	Wait 3 minutes until the temperature has decreased, then turn on the unit again.
The remote control does not function.	Distance too great.	Make sure the remote control is correctly aimed at the control panel.
	Remote control signal not detected by the control panel.	
	The batteries are drained.	Replace the batteries.
To correct problems that have not been described in the table and/or if the recommended solutions fail to solve the problem, contact an authorized service centre.		

SPECIFICATION

Model no.		TC-8061
Cooling capacity	BTU/hr	9000
	KW	2.637
Power/Ampere consumption for cooling*	W	960
	A	4.29
Air volume (max. speed)	m ³ /h	355
Humidity removal capacity	L/hr	1
Power supply		220~240V~/50Hz
Compressor		rotary
Refrigerant		R410A
Fan speed		2
Timer	h	1~ 12
Working temperature	°C	18 ~ 32
Exhaust pipe	mm	Ø 127x1500
Room Size	m ²	up to 20
Net Weight	kgs	22.2
Dimension	mm	305 x 383 x 752 (WxDxH)
<p>Subject to modifications without prior notice. Please refer to the rating label for greater precision. * (EC)No 842/2006: R410a is a fluorinated greenhouse gas covered by the Kyoto Protocol. Its global warming potential (GWP) is 1975.</p>		



WASTE ELECTRICAL PRODUCTS SHOULD NOT BE DISPOSED OF WITH HOUSEHOLD WASTE. PLEASE RECYCLE WHERE FACILITIES EXIST. CHECK WITH YOUR LOCAL AUTHORITY FOR RECYCLING ADVICE.

CONNECTION TO POWER (FOR UK ONLY)

Before Switching on make sure that the voltage of your electricity supply is the same as that indicated on the rating plate.

MAIN CORD

Wiring Instructions: Should it be necessary to change the plug please note the wires in the mains lead are coloured in accordance with the following code :

BLUE - NEUTRAL
BROWN - LIVE
GREEN AND YELLOW - EARTH

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

1. The **BLUE** wire is the **NEUTRAL** and must be connected to the terminal which is marked with the letter **N** or coloured **BLACK**.
2. The **BROWN** wire is the **LIVE** and must be connected to the terminal which is marked with the letter **L** or coloured **RED**.
3. The **GREEN/YELLOW** is the **EARTH** and must be connected to the terminal which is marked with the letter **E** or \oplus or coloured **GREEN OR GREEN/YELLOW**.
4. Always ensure that the cord grip is positioned and fastened correctly.

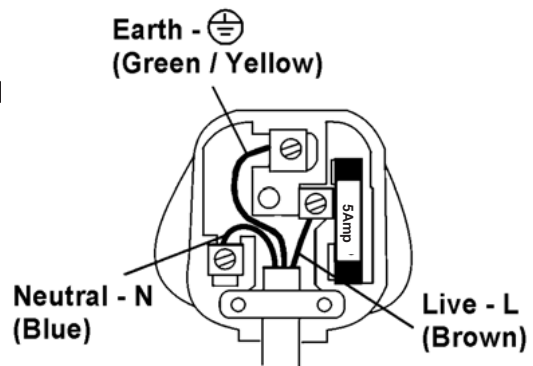
If a **13 Amp (BS 1363)** fused plug is used it must be fitted with a **13Amp** fuse. If in doubt consult a qualified electrician.

Wiring for a 13 Amp Plug (BS1363)

Please note. The Earth Terminal is marked with the letter **E** or Earth Symbol \oplus .

IMPORTANT

If a 13 Amps (BS 1363) plug is used, it must be fitted with a 13 Amp Fuse conforming to BS1362 and be ASTA approved. If in doubt consult a qualified electrician who will be pleased to do this for you.





PRODUCT GUARANTEE

This product is guaranteed against manufacturing defects for a period of



This product is guaranteed for twelve months from the date of original purchase. Any defect that arises due to faulty materials or workmanship will either be replaced, refunded or repaired free of charge where possible during this period by the dealer from whom you purchased the unit.

The guarantee is subject to the following provisions:

- The guarantee does not cover accidental damage, misuse, cabinet parts, knobs or consumable items.
- The product must be correctly installed and operated in accordance with the instructions contained in this manual.
- It must be used solely for domestic purpose.
- The guarantee will be rendered invalid if the product is re-sold or has been damaged by inexperienced repair.
- Specifications are subject to change without notice.
- The manufacturer disclaims any liability for the incidental or consequential damages.
- The guarantee is in addition to, and does not diminish your statutory or legal rights.

Guarantor: Argos Ltd
489-499 Avebury Boulevard
Central Milton Keynes
MK9 2NW