

## Important safeguards

ENGLISH

- Use this appliance only as described in this instruction manual.  
As with any electrical appliance, whilst the instructions aim to cover as many eventualities as possible caution and common sense should be applied when operating and installing this air conditioner.
- This appliance has been manufactured to cool and de-humidify domestic environments and should not be used for other purposes.
- It is dangerous to alter or modify the unit's characteristics in any way.
- The appliance must be installed in line with the relevant national legislation.
- Should repairs be necessary, contact the nearest authorised Repair Service Centre. Unauthorised servicing can be dangerous.
- This appliance is to be used by adults only; keep away from children.
- Always ensure the appliance is earthed. If you have any doubts check with a qualified electrician.
- Avoid using extension leads with the unit.
- Before cleaning or maintenance operations, always unplug the unit from the socket.
- Do not pull on or place strain on the power cable when moving the appliance.
- The appliance should not be installed where the atmosphere may contain combustible gases, oil or sulphur, or near heat sources.
- If the appliance is utilised in areas where there is no ventilation of air, it is necessary to take precautions to prevent any leaks of refrigerant gases from the appliance remaining in the room, thereby causing a fire hazard.
- This appliance must be utilised and installed only in rooms with a total volume of 15 cubic metres or greater.
- R290 is as refrigerant that complies with the EEC standards on environmental protection. Therefore, do not perforate the appliance's refrigerant circuit. At the end of the working life of the appliance the unit should be taken to a recycling centre for disposal of the refrigerant.
- Keep the unit at least 50 cm away from inflammable substances (alcohol etc) or pressurised containers (e.g. aerosol cans).
- Do not rest hot or heavy objects on the appliance.
- Clean the filters at least once a week.
- Remember to perform the descaling procedure at the end of each season (see page 31). In areas where the water is particularly hard (rich in minerals), the use of a commercial descaler added to the water is recommended. This can be requested from De'Longhi LTD.
- Avoid using heaters near the unit.
- Do not cover this appliance with bags when is not in use
- Unventilated areas where the appliance using flammable refrigerants is installed shall be so constructed that any leaked refrigerants will not stagnate so as to cause a fire or an explosion hazard deriving from other sources of heat, such as electric heaters, stoves and similar home appliances.
- The unit should be transported in a vertical position. If this is not possible secure the unit at an angle, do not lie horizontally.  
Before transporting the unit drain the condensate collection tray and tank. After transportation, wait at least 1 hour before switching on the unit.
- The packaging materials can be recycled. You are therefore recommended to place them in the special containers for differentiated waste collection.
- If the power cable becomes damaged, this must only be replaced by specialist personnel authorised by the manufacturer.

## How does your Pinguino and SuperPinguino work?

During the summer, optimum comfort is achieved with a temperature of between 24 and 27°C and about 50% relative humidity.

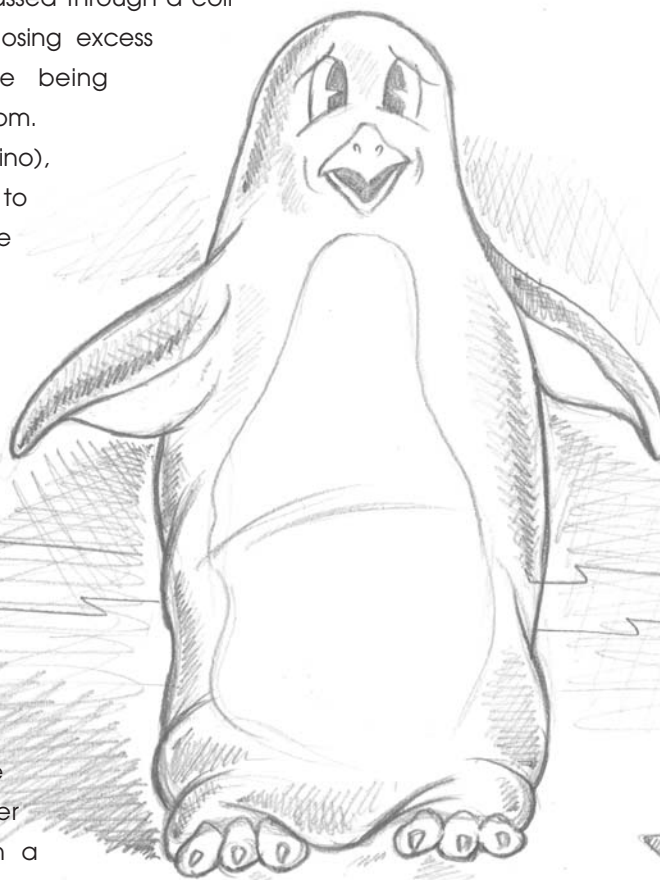
An air conditioner removes moisture and heat from the room where it is located. One advantage of portable air conditioning units over fitted models is that they can be moved from one room to another in the home or even transferred between different buildings.

The hot air in your room is passed through a coil cooled by refrigerant gas, losing excess heat and moisture before being discharged again into the room.

In packaged models (Pinguino), a small part of this air is used to cool the refrigerant gas before the hot and moist air is discharged outside.

In the split models (Super-Pinguino), the circuit is cooled by the outside air. Each Pinguino and Super-Pinguino can also be used as a fan only.

The Pinguino ECO is the latest generation of ecological air conditioners. The Pinguino ECO does not contain gases dangerous to the earth's ozone layer (CFC/HCFC) nor gases with a significant greenhouse effect (HFC). In addition, thanks to the extreme efficiency of the appliance, not only does it save you money on your electric bills, but it saves the environment by not negatively contributing to the greenhouse effect."



# Description/Setting up

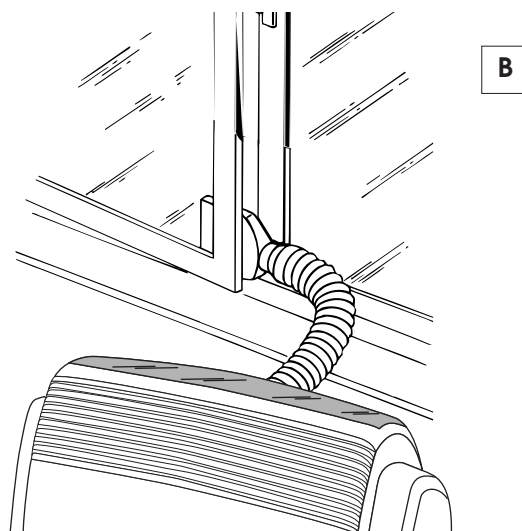
The following instructions will help you set up your air conditioning unit as efficiently as possible.

## DESCRIPTION OF THE APPLIANCE

1. Control panel
2. Air outlet grill
3. Front handle
4. Front panel
5. Tray
6. Tank
7. Reset button
8. Air intake grill
9. Handle
10. Air exhaust hose fitting
11. Drain tube
12. Cable winder
13. Flange bung
14. Air exhaust hose
15. Nozzle for air exhaust hose
16. Suction cups
17. Wheel locks
18. Descaling liquid

- Fix the window attachment **15** to the end of the hose **14**.
- Place the unit near a window French window or door.
- Open the window, French window or door slightly and place the window attachment **15** as shown in figure **B**.

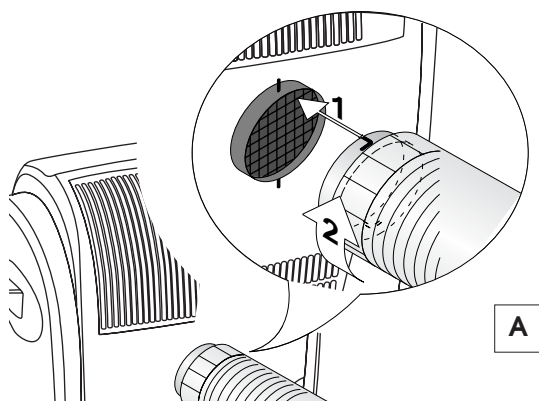
ENGLISH



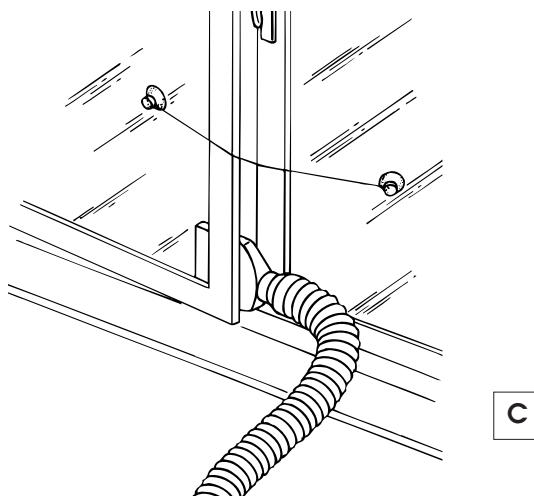
## AIR CONDITIONING WITHOUT INSTALLATION FOR INSTANT TEMPORARY USAGE

With just a few simple operations, Pinguino will restore comfortable conditions in your room:

- Fix the exhaust hose **14** to the coupling **10** on the back of the unit as shown in figure **A**.



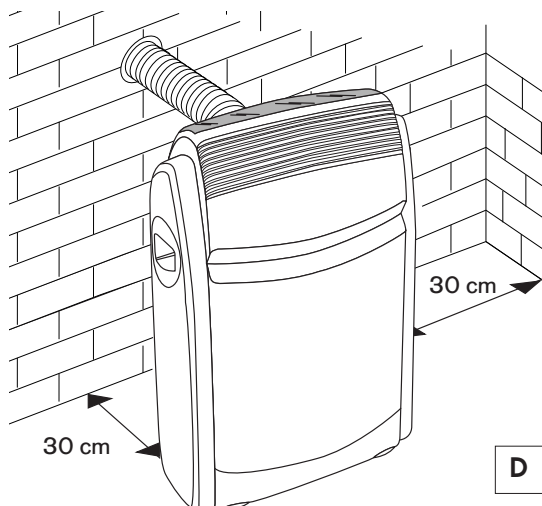
- For double casement windows, use the suction cups **16** supplied to keep the two sides of the windows closed together (Fig. **C**).



# Setting up

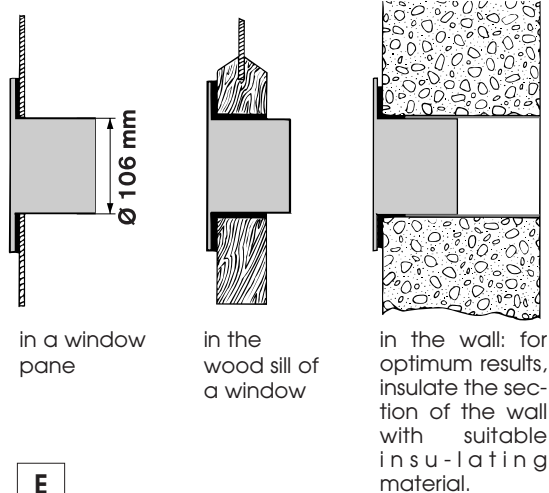
## AIR CONDITIONING WITH INSTALLATION

For more efficient use Pinguino can also be semi-permanently installed

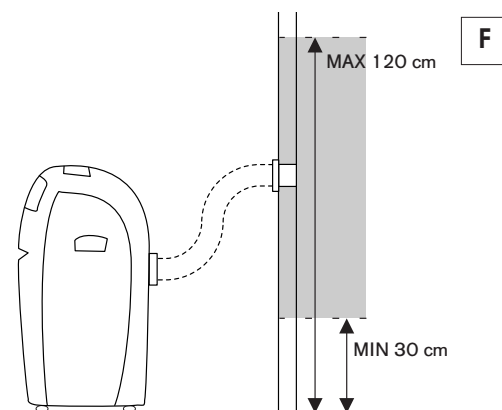


To install, proceed as follows:

- Make a hole in a outside wall or through the glass of a window. Check the height and dimensions given in figure E



- Fit the flange [13] supplied to the hole.
- Fix the hose [14] to the coupling [10] on the back of the unit (figure A).
- Attach the end of the hose [14] to the flange [13] as shown in the figure F.



When the hose [14] is not attached, close the hole with the bung on the flange [13].

### NOTE:

When the unit is installed semi-permanently, we recommend leaving a door slightly open (1 cm is enough) to ensure an adequate exchange of air.

# Setting up

## HOW TO USE THE AIR-CONDITIONER WITH WATER

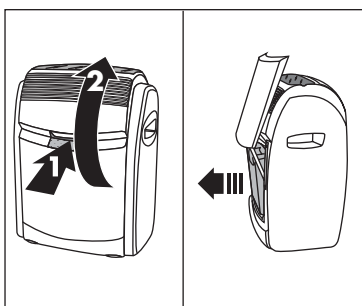
These air conditioners can use both air and water to cool the condenser (the hot part) of the air conditioner.

To utilise the full potential of your Pinguino, the tank **6** needs to be filled with water. The water is used to increase the cooling capacity and reduce the noise level and energy consumption of the air conditioner. The water that is used is then expelled from the machine as water vapour through the exhaust hose **14** (it does not go into the room).

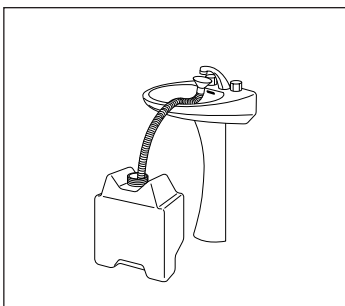
Always use clean tap water (which doesn't contain salts). As a rule the water will usually last about 8 hours however this depends on the conditions within the room, such as temperature, humidity, insulation and exposure and the number of people.

When there is no more water in the tank, operation will automatically switch from water to air. At the same time, the quantity of air discharged by the rear hose will increase.

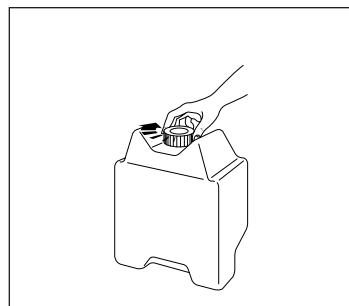
ENGLISH



A) Open the front panel **4**, gripping the special door **3**; then tilt and remove the tank **6**, pulling it upwards.



B) Remove the cap, pull out the extendable hose and fill the tank, leaving it resting on the floor.



C) When full, replace the extendable hose, tighten the cap and replace the tank in its correct position, with the marking "FRONT" visible.

During the "water" operation and in particularly silent locations (e.g. the bedroom) a slight gurgling sound may be heard. This is completely normal.

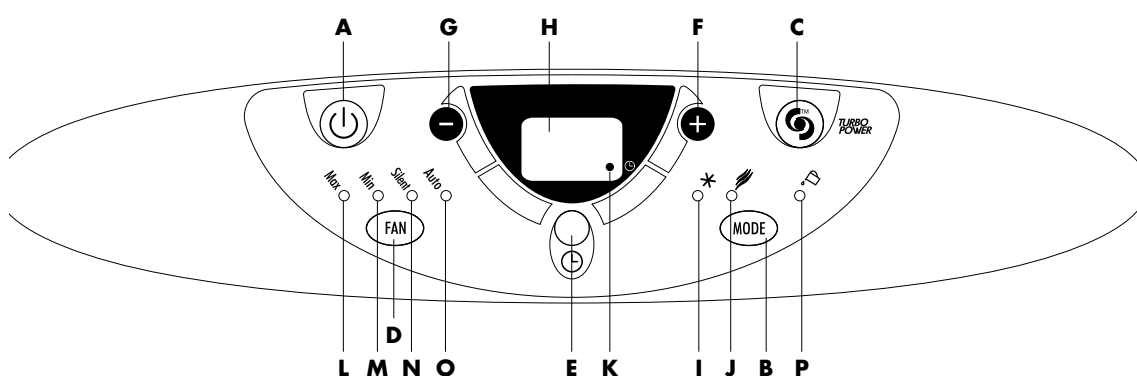
**Note:** The duration of the water in the tank depends on the conditions. In normal situations, this is around ten hours, and around eight in "TURBO POWER" operation (pag. 26).

**Do not use water containing table salt or water softened by devices that feature the use of salts.**

# Description of the control panel

## CONTROL PANEL

- A. **ON/OFF** button
- B. **"MODE"** button Air-conditioning, ventilation, purification
- C. **"TURBO POWER"** button
- D. **"FAN"** speed button
- E. **Timer** button
- F. **Increase temperature** button / **increase operating time** button
- G. **Decrease temperature** button / **Decrease operating time** button
- H. **Display**  
Shows the set temperature, the set operating time and its activation
- I. **Air-conditioning** indicator light
- J. **Ventilation/purification** indicator light
- K. **Timer** operation indicator light
- L/M/N/O **Fan speed** indicator lights
- P. **Empty tank** indicator light



## ELECTRICAL CONNECTION

Before plugging in check that:

- the mains supply corresponds to the value shown on the rating plate on the rear of the unit;
- the socket and the mains lead correspond to the power requirements of the appliance;
- the socket is suited to the plug, otherwise have the socket replaced;
- the socket is properly grounded. **The manufactures cannot be held responsible for any damage due to failure in following normal safety procedures.**

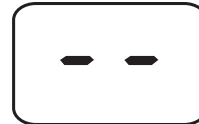
**Replacement of the power cable must be carried out by qualified personnel.**

# Selecting the functions

## SWITCHING THE APPLIANCE ON

Connect the appliance to the mains supply.

On the display two lines will appear indicating Stand-by mode



Press the "ON/OFF" button (A) and then the "MODE" button (B) until the relevant function indicator appears viz.:

Indicator light (I) ✕ : air-conditioning

Indicator light (J) ≡ : ventilation/purification

ENGLISH

## AIR-CONDITIONING FUNCTION

This function is ideal in hot, humid weather conditions when the atmosphere requires to be cooled and dehumidified.

To ensure proper function of the appliance, after selecting the air-conditioning function, press buttons "+" (F) or "-" (G) until the desired temperature appears on the display.

*The temperatures most suited to the atmosphere in summer vary between 24 and 27°C. We do not advise selection of temperatures much lower than the outside temperature.*

Select fan speed by pressing the "FAN" button (D) until the fan speed indicator appears:



MAX (L): if you want the maximum capacity of the air-conditioner to reach the desired temperature as quickly as possible.

MIN (M): if you want to reduce the level of noise and still maintain a good level of comfort.

SILENT (N): when minimum noise is required,

AUTO (O): if you prefer the appliance to select the fan speed for the temperature selected on the display panel.

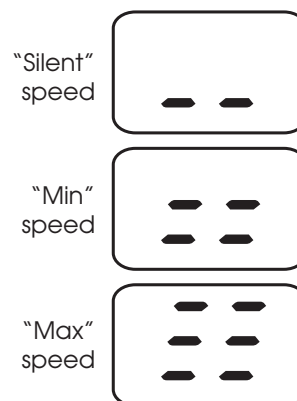
## VENTILATION/PURIFICATION

This is ideal for dusty or polluted areas; in effect, the appliance recycles and purifies the air using the dust filters and 3M Filtrete™ electrostatic filters fitted. Adjust the fan speed by pressing the "FAN" (D) button, as illustrated in the air conditioning function.

Bear in mind that the higher the speed, the greater the volume of air filtered; by selecting the "Silent" speed, less air is filtered, but the noise level is low.

"AUTO" function cannot be selected in this mode.

The display will show the fan speed selected.



## Selecting the functions

### TURBO POWER (if featured)

The Turbo Power mode was conceived to provide the appliance with a greater cooling potential. This is particularly useful when you want to bring the temperature of a very warm room quickly down to a more comfortable level. In this case:

Make sure that the empty tank indicator light (P) is off.

Otherwise, fill the tank with water.

Press the Turbo Power button (C). The display will show the message **LP**.

Once having reached the desired temperature, the Turbo Power button can be pressed again.

In any case, the Turbo Power function has a maximum duration of 15 minutes. After this, the appliance will return to the previous operating mode.

This will ensure more silent operation.



### EMPTY TANK INDICATOR LIGHT

The empty tank indicator light (P) indicates the lack of water in the tank. When there is no water in the tank, the appliance will not cool at maximum capacity and the "TURBO POWER" function cannot be selected. It is recommended to always operate the appliance with water in the tank.

### PROGRAMMING THE TIMER

The timer programs the appliance to switch on and switch off. This will save electrical energy by optimizing the operating times. The timer is set using the buttons "+" (F) or "-" (G); these increase and decrease by one hour at a time, but if pressed for more than 2 seconds will automatically change the time more quickly, up to a maximum of 24 hours.

#### How to set the delayed start function

- Connect the appliance to the mains supply and press the "ON/OFF" button (A): next, select the required operating mode (temperature, fan speed etc.)
- Press the "ON/OFF" button (A) again: the appliance will go into stand-by mode.
- Press the timer button (E): on the display the two central segments will start to flash.
- Set the number of hours after which the appliance should switch on, by pressing the "+" (F) or "-" (G) buttons.

The indicator light (K) on the display will continue to flash until the appliance starts operating.

The appliance can be programmed for up to 24 hours in advance.

#### How to set the delayed stop function

- The appliance can be programmed for delayed stop from any of the operating modes (air-conditioning/purification/ventilation).
- Press the timer button (E): on the display the two central segments will start to flash.
- Set the number of hours after which the appliance should switch off by pressing the "+" (F) or "-" (G) buttons.

The indicator light (K) on the display will continue to flash until the appliance switches itself off. It will then go into Stand-by mode.



# Self-diagnosis

## SELF-DIAGNOSIS

The appliance is equipped with a self-diagnosis system which identifies any operating problems.

ENGLISH

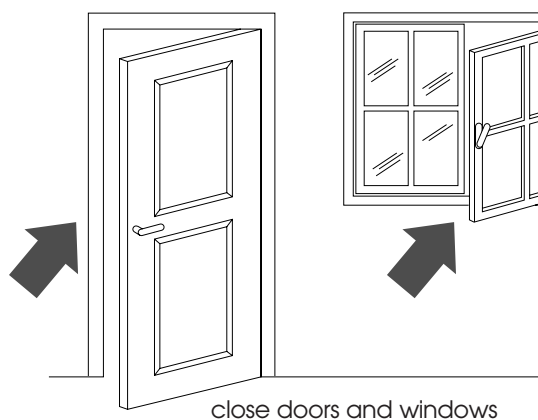
IF THE DISPLAY SHOWS...	....WHAT SHOULD YOU DO?
"HP" HIGH PRESSURE	Unplug the appliance and then plug it back in. If the problem persists, call the service centre.
"LL" LOW TEMPERATURE	If the machine is operating as an air-conditioner or in Turbo Power mode, this will prevent the formation of frost. The appliance will start up automatically once the defrosting process has ended.
"PF" PROBE FAILURE	If either of these messages appears, call the service centre.

# Recommendations

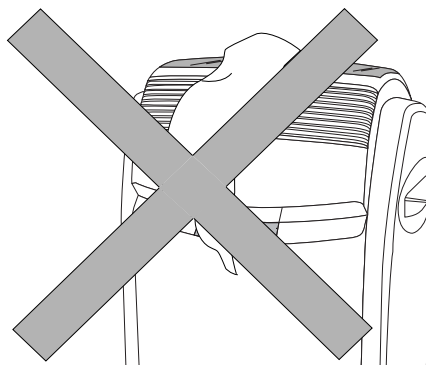
## RECOMMENDATIONS

Follow these recommendations to achieve maximum efficiency from your air conditioning unit:

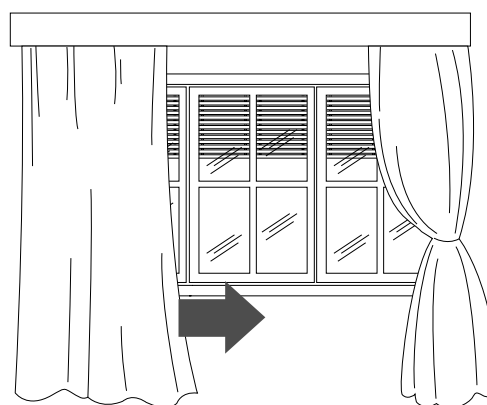
- Close the doors and windows in the room where the unit is functioning. The only exception is in the case of installation through a hole in the wall or window. In this case, you are recommended to allow a small amount of air to enter through a door or window to guarantee an adequate exchange of air.



- Protect the room from direct exposure to the sun's rays by drawing the curtains and/or partially lowering the blinds so as to maximise energy savings.
- Do not rest objects on the air conditioning unit.
- Do not obstruct the air intake **8** or outlet **2**.
- Make sure there are no heat sources in the room.



- Do not use the appliance in environments with a high level of humidity (e.g. laundries).
- Do not use outdoors.



- Make sure the unit is located on a **level** floor. If necessary, place the two blocking devices **17** under the front wheels.

## Purification filter (if included with the appliance)

In addition to dust, this filter is able to capture even the smallest sized particles and impurities (up to 0.003 millimetres), such as cigarette smoke.

The purification filter should never be used with the dust filter, which is also included with the appliance. Therefore:

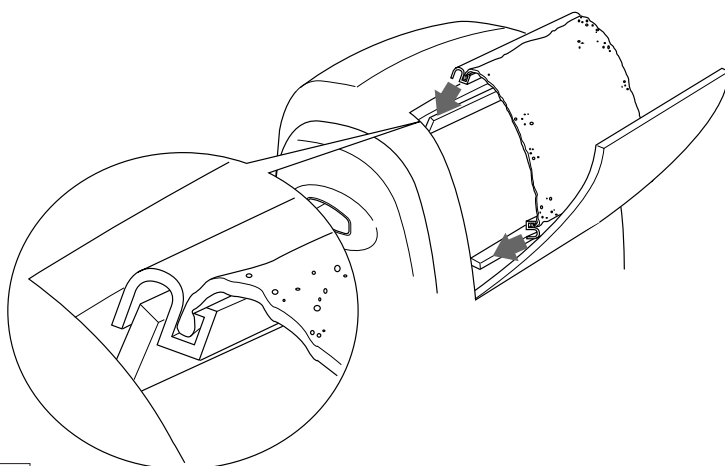
**A. If you wish to use the purification filter:**

Remove the purification filter from the filter housing; Remove the aspiration grill **8** fig. (H) on page 30 and the dust filter which is attached to this. Remove the purification filter from its packaging. Anchor the filter to the appliance by attaching the two plastic pieces on the filter to the special supports on the air conditioner see fig. (G).

Set the dust filter aside.

**B. If the dust filter is sufficient:**

Remove the purification filter from the filter housing and set it aside.



**G**

# Maintenance

Before cleaning or maintaining the unit, always turn the unit off by releasing the button (A) and unplug from the mains.

## CLEANING THE APPLIANCE

We recommend cleaning the appliance with a slightly damp cloth then drying with a dry cloth. For safety reasons, do not wash the air conditioner with water.

### Precautions

Never clean with benzene, alcohol or solvents. Never spray liquid insecticide or similar.

## CLEANING THE FILTERS

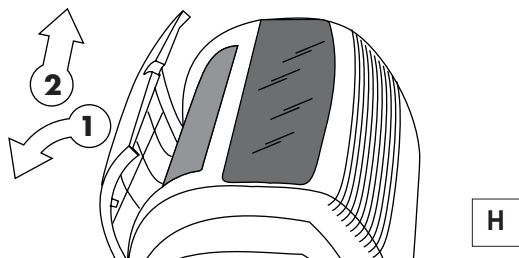
### Dust filter

All of the models are equipped with a dust filter able to capture the dust particles suspended in the air.

In order to maintain the effectiveness of your air conditioner unaltered over time, remember to clean the dust filter every two weeks.

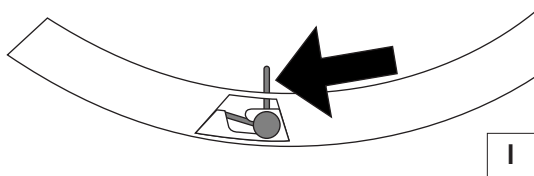
To clean the filter, proceed as follows:

1. Remove the intake grill [8], (see fig. H);
2. Remove the filter holder housing by detaching it from the external grill. To detach it, press on the two wings found on the side of the filter holder (see fig. I)



Use a vacuum cleaner to remove the dust deposits on the filter. If the filter is very dirty, immerse it in warm water, rinsing it thoroughly. The temperature of the water should be kept under 40°C.

After washing it, let the filter dry before re-inserting it into the holder.



### Purification filter (if included with the appliance)

Clean the external side of the purification filter once a week. Use a vacuum cleaner at an intermediate power level. Never clean the inside of the filter. Replace the purification filter at the end of each season or in any case, when it is no longer effective. The purification filter can be purchased in the store as an accessory or at an Authorised Service Centre as a replacement part. Alternatively, the dust filter included with the appliance may be used in place of the purification filter.

## CLEANING THE WATER TRAY

It is recommended that you clean this at least once a month using the following method:

- turn off the appliance and remove the plug from the electrical outlet.
- open the front panel [4] and remove the tank [6].
- remove the bung from the drainage hose [11] which can be found at the back the air conditioner and empty out the water to a container.
- after draining off the water, replace the drainage hose plug.
- remove the dirt by scrubbing gently with a cloth where the tank is positioned.

## START OF SEASON CHECKS

Check that the power cable and socket are undamaged and that the earth system is efficient. Carefully observe the installation instructions.

## RECOMMENDED OPERATIONS TO PERFORM AT THE END OF THE SEASON

- 1) Proceed with scaling procedures (see page 31).
- 2) Remove the water from the water tray .
- 3) Operate the appliance in the ventilation only mode for about half an hour in order to thoroughly dry the inside of the air conditioner.
- 4) Turn off the appliance and remove the plug from the outlet.
- 5) Remove the drainage hose [14].
- 6) Clean the filter and dry it thoroughly before replacing it in the appliance.
- 7) Cover the appliance so that dust does not build up.

# Descaling

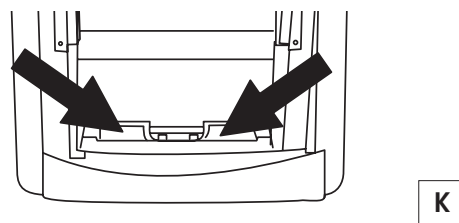
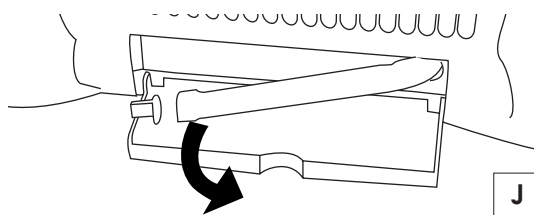
When the scale deposits become excessive (on average, after about 400 hours of operation) or in any case, at least once each season, it is very important to proceed with the decalcification of the appliance as described below.

To remove the scale from the appliance, you need:

- 20 % of descaling liquid **18**
- 80 % of clean water

Proceed as follows:

- 1) Remove the tank **6** from the appliance and drain the water remaining in the water tray **5** by using the drainage hose **11** (fig. J).
- 2) Close the drainage hose **11**. Pour 500 ml of decalcifying liquid and 2 litres of clean water into the water tray which is found under the tank (fig. K), on the bottom of the appliance.
- 3) Operate the air conditioner for about half an hour.
- 4) After this, drain out all of the liquid remaining in the water tray and rinse thoroughly. During the rinsing process, the drainage hose must be open and the appliance functioning.
- 5) Unplug the appliance from the mains and clean the water tray thoroughly with a clean cloth.
- 6) After cleaning the water tray, the air conditioner can be used normally.



ENGLISH

IF TRACES OF SUDS CAN BE SEEN IN THE WATER WHEN THE MACHINE IS USED AGAIN AFTER IT HAS BEEN CLEANED AS DESCRIBED ABOVE, THIS IS NORMAL HOWEVER, IF THERE ARE A LOT OF SUDS RINSE THE APPLIANCE AGAIN THOROUGHLY TO REMOVE ALL TRACES OF CLEANING PRODUCT.

ADDITIONAL QUANTITIES OF DECALCIFYING LIQUID CAN BE ORDERED FROM DE' LONGHI LTD.

## WARNING:

The use of products other than those supplied by De' Longhi could cause damage to the internal components of the appliance and invalidate the terms of the warranty.

# Troubleshooting

PROBLEM	CAUSES	REMEDY
<b>The air-conditioner does not work</b>	<ul style="list-style-type: none"> <li>the power is off</li> <li>the appliance is not plugged in</li> </ul>	<ul style="list-style-type: none"> <li>Plug it in</li> </ul>
<b>The air-conditioner only works for a short time</b>	<ul style="list-style-type: none"> <li>The exhaust hose is twisted</li> <li>The exhaust hose is blocked</li> <li>The exhaust hose is bent</li> </ul>	<ul style="list-style-type: none"> <li>Position exhaust hose correctly</li> <li>Check for obstacles blocking the exhaust system</li> <li>Straighten the hose</li> </ul>
<b>The air-conditioner works but does not cool the room.</b>	<ul style="list-style-type: none"> <li>a window is open</li> <li>there is a source of heat in the room (lamp, burner etc.) or there are many people in the room.</li> <li>air filters are dirty</li> <li>the capacity of the air-conditioner is not adequate for the conditions or the size of the room.</li> </ul>	<ul style="list-style-type: none"> <li>close the window</li> <li>eliminate sources of heat</li> <li>clean/replace filters</li> </ul>
<b>Strange odour in the room</b>	<ul style="list-style-type: none"> <li>air filters are dirty</li> </ul>	<ul style="list-style-type: none"> <li>clean/replace filters</li> </ul>
<b>Leaking condensate from the unit</b>	<ul style="list-style-type: none"> <li>appliance incorrectly installed</li> <li>condensate tray is full</li> </ul>	<ul style="list-style-type: none"> <li>see instructions for correct installation of appliance</li> <li>remove the water tank. Drain the water from the pan through the drain pipe located at the rear of the appliance. Restore operating conditions. If the problem persists, contact the Service Centre.</li> </ul>
<b>The unit does not work for about 3 minutes after turning on the appliance.</b>	<ul style="list-style-type: none"> <li>The safety mechanism has been activated</li> </ul>	<ul style="list-style-type: none"> <li>wait for 3 minutes</li> </ul>
<b>The TURBO POWER function cannot be activated and the empty tank indicator light (P) flashes</b>	<ul style="list-style-type: none"> <li>the water tank is empty</li> </ul>	<ul style="list-style-type: none"> <li>fill the tank</li> </ul>

See paragraph "Self diagnosis" if the following messages appear on the display:: HP, LE and PF.

# Technical specification

## TECHNICAL SPECIFICATIONS

Power supply	see rating plate
Max. power input in air conditioning	"
Cooling capacity	"
Refrigerant	"
Number of fan speeds	3
Max. air flow .	370 m <sup>3</sup> /h

ENGLISH

## RECOMMENDED OPERATING CONDITIONS

Room temperature	21 ÷ 35°C
------------------	-----------

Dimensions of the indoor unit:

• width	580 mm
• height	785 mm
• depth	435 mm

\* R290 is as refrigerant that complies with the EEC standards on environmental protection.

## ELECTRICAL CONNECTION (U.K. ONLY)

- A) If your appliance comes fitted with a plug, it will incorporate a 13 Amp fuse. If it does not fit your socket, the plug should be cut off from the mains lead, and an appropriate plug fitted, as below. warning: Very carefully dispose of the cut off plug after removing the fuse: do not insert in a 13 Amp socket elsewhere in the house as this could cause a shock hazard. With alternative plugs not incorporating a fuse, the circuit must be protected by a 15 Amp fuse. If the plug is a moulded-on type, the fuse cover must be re-fitted when changing the fuse using a 13 Amp Asta approved fuse to BS 1362. In the event of losing the fuse cover, the plug must NOT be used until a replacement fuse cover can be obtained from your nearest electrical dealer. The colour of the correct replacement fuse cover is that as marked on the base of the plug.
- B) If your appliance is not fitted with a plug, please follow the instructions provided below:

WARNING - THIS APPLIANCE MUST BE EARTHED


### IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

Green and yellow	Earth
Blue	Neutral
Brown	Live



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

The green and yellow wire must be connected to the terminal in the plug marked with the letter E or the earth symbol  or coloured green or green and yellow.

The blue wire must be connected to the terminal marked with the letter N or coloured black.

The brown wire must be connected to the terminal marked with the letter L or coloured red.