



DEC210E

- Use and maintenance manual

DeLonghi

Important

Air always contains a certain amount of water in the air in the form of water vapour. This amount of moisture is commonly known as the humidity.

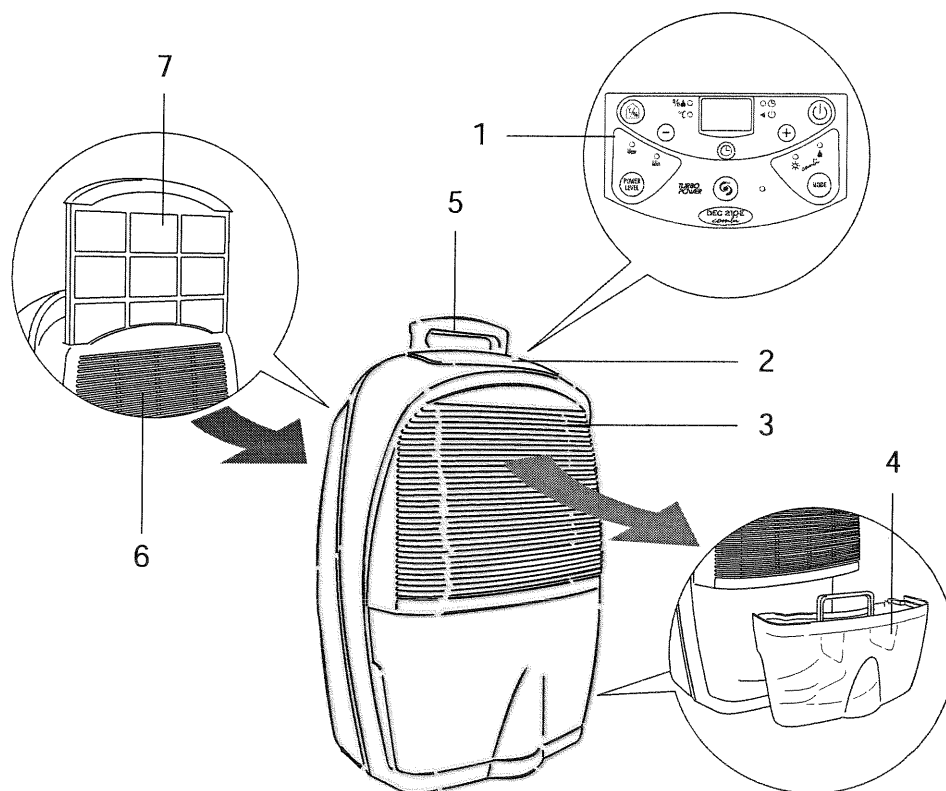
The capacity of the air to hold water vapour increases with the temperature. This is why in our homes, as soon as the temperature decreases, the vapour contained in the air condenses, as is evident on the colder surfaces in the room, such as the windows, walls etc.

The purpose of a dehumidifier is to remove the excess moisture from the air, to control condensation within the home.



Experts have established that the optimum environmental conditions for our well being and preserve objects are obtained between 40% and 60% relative humidity. Below these levels the air can feel too dry and may cause skin complaints and even static electric shocks.

This new dehumidifier is a combined function appliance (dehumidifying and heating) able to quickly and efficiently reduce the relative humidity in a room. Its combined function is particularly suitable for obtaining a rapid effect at low temperatures (below 10°C). In these conditions, the heater evaporates the condensation formed by the water vapour on walls, furniture and objects, allowing the humidity to then be eliminated efficiently by the dehumidifier. The compact unit is fitted with handles making it easy to transport. The combined operation is particularly suitable for drying clothes (COMBI DRYER function).

Description/Accessories



- | | |
|-------------------------------|----------------------|
| 1. Control panel | 5. Lifting handle |
| 2. Control panel cover | 6. Air intake grille |
| 3. Air outlet grille | 7. Air filter |
| 4. Condensate collection tank | |

Accessory	Accessory
	condensate drain hose (2 m.) (some models only)
	rubber bung

Important

Important

- 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 is designed to dehumidify domestic rooms and must not be used for other purposes.
- In the case that the power cable becomes damaged, this must be substituted only by specialised personnel authorised by the manufacturer.
- It is dangerous to modify or alter the characteristics of the appliance in any way.
- If the appliance requires repair, always contact a Technical Service Centre authorised by the manufacturer. Always insist on original spare parts. Repairs carried out by unauthorised personnel may be dangerous and invalidate the guarantee.
- This appliance must be used exclusively by adults. Do not allow children to play with the appliance.
- This appliance is not intended for use by young children or infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the appliance.
- The appliance must be connected to an efficient earth installation. Have your electrical circuit checked by a qualified electrician.
- Do not use extension power cables.
- Before cleaning or maintenance operations, always unplug the appliance from the mains.
- Do not move the appliance by pulling the power cable.
- Do not install the appliance in rooms containing gas, oil or sulphur. Do not install near sources of heat.
- Do not use the appliance on inclined surfaces.
- Keep the unit at least 50 cm away from inflammable substances (alcohol etc) or pressurised containers (eg. aerosol cans).
- Do not rest heavy or hot objects on top of the appliance.
- Clean the air filter regularly.
- Always transport the appliance upright or resting on one side. Remember to drain the tank before moving the appliance. Wait at least 1 hour after transporting the appliance before starting it.
- R134a is a refrigerant that complies with the EEC environmental standards; nonetheless, the refrigerant circuit on the machine should not be perforated. At the end of its working life, consign the appliance to a special collection centre.
- The materials used for packaging can be recycled. You are therefore recommended to dispose of them in special differentiated waste collection containers.
- The appliance must be installed in conformity with the relevant national legislation.
- Do not use the appliance outdoors.
- Do not obstruct the air intake or outlet.

Technical assistance

Keep the list of Technical Service Centres and identify the Centre nearest you.

Electrical connections

After moving the appliance, wait at least an hour before turning it on again.

Before plugging the appliance into the power socket, check that:

- The mains power supply corresponds to the power supply indicated on the rating plate.
- The power socket and electrical circuit are adequate for the appliance.
- The power socket matches the plug. If this is not the case, have the plug replaced by a qualified electrician;
- The power socket must be adequately earthed;

Failure to respect this safety rule absolves the manufacturer from all liability.

This appliance is manufactured in compliance with EEC standard EN 55014 on the suppression of radio interference.

- The cable must be replaced by approved service personnel only.

Installation

Position the appliance in the room to be dehumidified:

A free space of at least 50 cm must be left at the front of the humidifier, so as not to block the air outlet. A space of around 5-10 cm should be left at the rear of the appliance for aeration. Condensate can be drained choosing one of the following ways:

A) Draining into the tank

The condensate can be drained directly into the tank located inside the appliance (fig. 1).

The tank can be easily removed and has a handle making it simple to carry and empty.

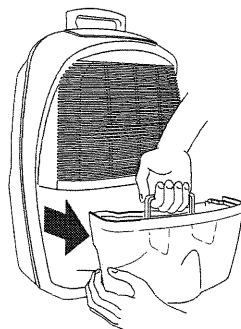


fig. 1

B) Continuous external draining

If the appliance is to be operated for long time periods but you are unable to empty the tank, you are recommended to use the continuous drain facility.

- 1) Drill the inside of the drain spout using a 6 mm. drill bit. (Fig. 2).
- 2) Fasten the rubber hose to the spout. For models without drain hoses supplied, we suggest you to purchase a rubber hose around 2m long, with an internal diameter of 9.5 mm.
- 3) Make sure that the hose is not higher than the spout, otherwise water will remain in the tank; also check that the hose is not choked (Fig. 3).

N.B.: Keep the rubber bung. You will need it to plug the hose or close the spout if you revert to draining into the tank (see point A).

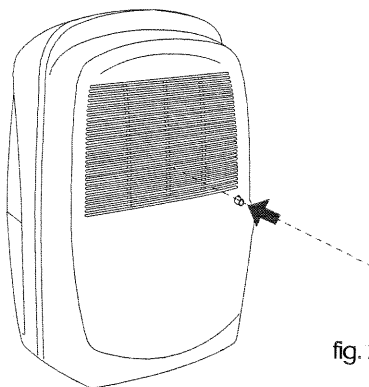


fig. 2

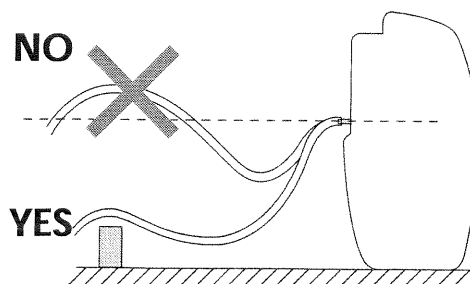
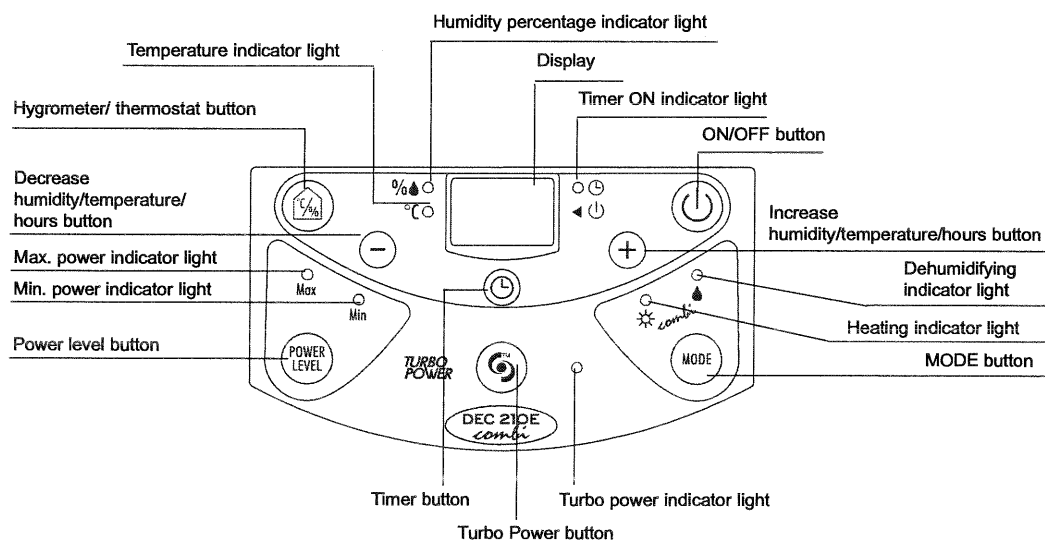


fig. 3

How to dehumidify

How to dehumidify (dehumidification only function)

- 1) Plug the appliance into a power socket.
- 2) The display shows "--" to indicate that the appliance is in standby and therefore ready for operation. If the message "FT" is displayed, empty the tank or position it correctly.
- 3) Press the "ON/OFF" button.
- 4) Press the "MODE" button and choose the dehumidification function ("💧" indicator light on). The display shows the relative humidity set point.
- 5) Press the "+" or "-" button to set the desired humidity (30% means a dry environment, 80% a humid environment).
- 6) Press the "POWER LEVEL" button to select the desired dehumidification power level (Min/Max).
- 7) Press the "%RH" button to display, in sequence, the ambient relative humidity ("%RH" indicator light flashing) and the ambient temperature ("°C" indicator light flashing).
- 8) When the appliance reaches the humidity set point, it will stop and the periodical ventilation function will start, so as to ensure a correct relative humidity reading. As soon as the humidity increases above the set point, the appliance will automatically resume dehumidification operation.



How to heat

- 1) Plug the appliance into a power socket.
- 2) The display shows "--" to indicate that the appliance is in standby and therefore ready for operation. If the message "FT" is displayed, empty the tank or position it correctly.
- 3) Press the "ON/OFF" button.
- 4) Press the "MODE" button and choose the heating function ("☀" indicator light on). The display shows the temperature set point.
- 5) Press the "+" or "-" button to select the desired temperature.
- 6) Press the "POWER LEVEL" button to select the desired heating power level (MIN/MAX).
- 7) Press the "%RH" button to display, in sequence, the ambient relative humidity ("%RH" indicator light flashing) and the ambient temperature ("°C" indicator light flashing).

How to dehumidify

- tor light flashing) and the ambient temperature ("°C" indicator light flashing).
- 8) When the appliance reaches the temperature set point, it will stop and the periodical ventilation function will start, so as to ensure a correct temperature reading. As soon as the temperature increases above the set point, the appliance will automatically resume heating operation.

Combined operation, (dehumidification ♠ + heating ☀)

- 1) Plug the appliance into a power socket.
- 2) The display shows "--" to indicate that the appliance is in standby and therefore ready for operation. If the message "FT" is displayed, empty the tank or position it correctly.
- 3) Press the "⏻" ON/OFF button.
- 4) Press the "MODE" button and choose the COMBI function ("♠" + "☀" indicator light on). The display shows the humidity set point set.
- 5) Press the "+" or "-" button to select the desired humidity level.

Pilot light



Humidity percentage indicator light

If on indicates that the display is showing the humidistat reading. If flashing, indicates that the display is showing, for 2 secs., the ambient humidity (pressing the thermometer/hygrometer button)



Temperature indicator light

If on indicates that the display is showing the thermostat reading (heating function only). If flashing, indicates that the display is showing, for 2 secs., the ambient temperature (pressing the thermometer/hygrometer button, after the ambient humidity reading)



Timer indicator light

If on indicates that the timer function is active.



Dehumidifying indicator light

Indicates that the appliance is operating in dehumidification mode



Heating indicator light

Indica che l'apparecchio sta funzionando in modalità riscaldamento



Dehumidify + heating indicator light

Indicates that the appliance is operating in COMBI mode.



Minimum power indicator light

Indicates that the MIN power level has been selected



Maximum power indicator light

Indicates that the MAX power level has been selected



Turbo power indicator light

Indicates that the appliance is operating in turbo power mode. When this is on, all the other indicator lights are off, except for the timer indicator light, if the function is active.

The buttons



"ON/OFF" button

Used to start the appliance.



"MODE" button

Used to select the "dehumidification" function, the "heating" function or the "combi" function (dehumidification + heating).



"TURBO POWER" button

Used to activate the "turbo power" function



"POWER LEVEL" button

Used to select the power level (MIN/MAX).



"Hygrometer/thermometer" button

Used to display, in sequence for 2 secs., the ambient humidity, with a tolerance of +/- 5% (" " light flashing) and the ambient temperature, with a tolerance of +/- 1% ("°C" light flashing).



"Timer" button

Used to set the number of appliance operating hours (maximum 24).



"Increase/decrease humidity/temperature/hours"

In dehumidification mode, these buttons are used to adjust the desired humidity level, with 5% steps, and in heating mode to set the desired temperature; they are also used to set the timer.

Display

Meaning of the codes that may be shown on the display:

1. "---" Indicates that the appliance is in Standby mode.
2. "TP" Indicates that the appliance is operating in TURBO POWER mode.

The buttons

- 3. "**FT**" Indicates that tank is not fitted, is full or is positioned incorrectly.
- 4. "**DF**" Indicates that the appliance is operating at low temperature. In this mode, ventilation cycles are alternated with dehumidification cycles to avoid the formation of frost. For use in particularly cold environments, heating is recommended, so as to raise the ambient temperature even by just a few degrees. This allows the dehumidifier to operate in conditions that improve its performance and accelerate the dehumidification process.
- 5. "**PF**" Indicates that there may be fault with the probes, or that the ambient humidity is low.

Cleaning/Warnings

Maintenance

Always remove the plug from the power socket before performing any cleaning or maintenance operations. For safety reasons, never wash the dehumidifier using a water jet.

Cleaning the cabinet

- Clean the appliance using a damp cloth then dry with a dry cloth.
- Never use petrol, alcohol or solvents to clean the appliance.
- Never spray the appliance with insecticides or similar. These could cause the paint to flake or plastic parts to warp.

Cleaning the air filter

If the filter is dirty, air circulation is compromised and the efficiency of the dehumidifying and air purifying functions decreases.

It is therefore good practice to clean the filter at regular intervals.

The frequency depends on the duration and conditions of operation.

If the unit is used constantly or systematically, you are recommended to clean the filter once a week.

- To remove the air filter, extract by pulling it as shown in fig. 4.
- Use a vacuum cleaner to remove dust accumulations from the filter. If the filter is very dirty, wash in warm water and rinse several times. The temperature of the water should not exceed 40°C. After washing the filter, allow it to dry up completely.

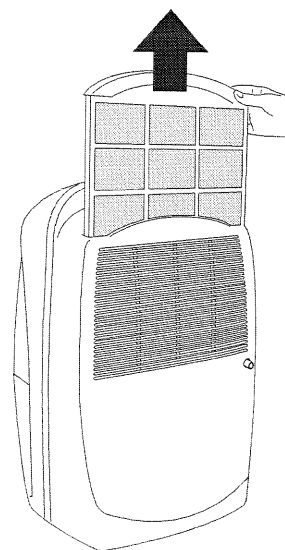


fig. 4

If the appliance is not used for long periods

- Unplug from the mains socket and empty the tank.
- Clean and reposition the filter.
- Cover the appliance so that dust does not build up.

Troubleshooting

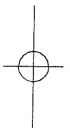
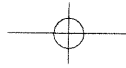
Check the following points before calling your local authorised Service Centre.

Problem	Cause	Solution
The appliance is operating in dehumidification mode (light on), but the humidity does not decrease	<ul style="list-style-type: none"> • the filter is blocked • the temperature or humidity in the room are too low • the room is too large • too many sources of humidity in the room (pots of boiling water, etc.) • humidistat set too high 	<ul style="list-style-type: none"> • clean the filter • in certain conditions, it is normal for the appliance not to dehumidify (in these cases, it is recommended to heat the environment) • decrease the humidity set point
The appliance is operating in heating mode, but does not heat the air	<ul style="list-style-type: none"> • the room is too large • the windows are open • the electric heater protector has been activated • thermostat set too low compared to the ambient temperature 	<ul style="list-style-type: none"> • close the windows • to resume operation, switch the appliance off for a few minutes, eliminate the cause of the overheating, then switch the appliance back on. If the problem persists, call the Service Centre • increase the humidity set point
The appliance does not work for around 3 minutes when restarted	<ul style="list-style-type: none"> • the appliance's safety device has been activated 	<ul style="list-style-type: none"> • wait for 3 minutes to pass
<p>The display shows "FT"</p> <p>The display shows "DF"</p> <p>The display shows "PF"</p>	<ul style="list-style-type: none"> • the tank is not fitted • the tank is full • the tank is positioned incorrectly • the temperature in the room is too low • one of the sensors on the appliance is faulty 	<ul style="list-style-type: none"> • fit the tank • empty the tank • position the tank correctly • increase the ambient temperature, even slightly • call the Service Centre

Technical Characteristics

Power supply voltage	See rating label
Maximum absorbed power	"
Absorbed power dehumidifying only	280W
Absorbed power heating ☀ :	1250W
Absorbed power heating ☀☀ :	2000W
Absorbed power combi function MIN	1030W
Absorbed power combi function MAX	1530W
Refrigerant	R134a
Air treated (min/max)	160/240 m³/h
Defrosting device	yes
Thermostat	yes
Humidistat	yes
Fan speeds	2
Electric resistor overheat protection device	yes
Compressor protection device	yes
Canister control	yes
Dust filter	yes
Dimensions LxHxD	570x360x300 mm
Weight (net)	16 kg.
Canister capacity	4 litres

Operating limits:	Heating	Dehumidifying
• temperature	Max. 27°C	2° - 32°
• relative humidity	Max. 90%	30 - 90%



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