

INDEX

INTRODUCTION	25
Symbols used in these instructions	25
Letters in brackets	25
Troubleshooting and repairs	25
SAFETY	25
Fundamental safety warnings	25
Designated use	26
Instructions	26
DESCRIPTION	26
Description of appliance	26
Description of control panel	26
Explanation of lights	27
PRELIMINARY CHECKS	27
Controls after transport	27
Installing the appliance	27
Connecting the appliance	27
Using the appliance for the first time	28
TURNING THE APPLIANCE ON	28
TURNING THE APPLIANCE OFF	28
CHANGING THE MENU SETTINGS	29
Setting the clock	29
Setting the language	29
Manual rinsing	29
Descaling	29
Setting the temperature	29
Auto-off	29
Setting water hardness	30
Resetting factory default values (reset)	30
Installing the filter	30
Replacing the filter ("Reset water filter")	30
Removing the filter	30
Statistics function	31
MAKING COFFEE	31
Selecting the coffee taste	31
Selecting the quantity of coffee in the cup	31
Customising the "my coffee" quantity	31
Regulating the coffee mill	31
Making coffee using coffee beans	31
Making coffee using pre-ground coffee	32

FROTHING THE MILK FOR CAPPUCCINO (AND HEATING LIQUIDS)	32
Cleaning the cappuccino maker after use	33
HEATING WATER	33
Preparation	33
Changing the quantity	33
CLEANING AND MAINTENANCE	33
Emptying the drip tray	34
Cleaning the coffee maker	34
Cleaning the water tank	34
Cleaning the drip tray	34
Cleaning the coffee grounds container	34
Cleaning the spouts	34
Cleaning the coffee feed funnel	34
Cleaning the inside of the machine	34
Cleaning the infuser	35
DESCALING	35
SETTING WATER HARDNESS	36
Measuring water hardness	36
Setting water hardness	36
TECHNICAL SPECIFICATION	36
DISPOSAL	36
DISPLAYED MESSAGES	37
TROUBLESHOOTING	39

INTRODUCTION

Thank you for choosing the ESAM 5450 automatic coffee maker.

We hope you enjoy using your new appliance.

Take a few minutes to read these instructions.

This will avoid all risks and damage to the machine.

Symbols used in these instructions

Important warnings are identified by these symbols.

These warnings must absolutely be respected.

Failure to observe the instructions could result in electric shock, serious injury, burns, fire or damage to the appliance.



Danger!

Failure to observe the warning could result in possibly life threatening injury from electric shock.



Important!

Failure to observe the warning could result in injury or damage to the appliance.



Danger of burns!

Failure to observe the warning could result in scalds or burns.



NB:

This symbol identifies important advice or information for the user.

Letters in brackets

The letters in brackets refer to the legend in the Description of the Appliance on page 3.

Troubleshooting and repairs

In the event of problems, first try and resolve them following the information given in the sections "Displayed messages" on page 37 and "Troubleshooting" on page 39.

If this does not resolve the problem or you require further information, you should consult the technical assistance service by calling the number given on the "Customer Service" sheet.

If your country is not among those listed on the sheet, call the number given in the guarantee.

If repairs are required, contact an authorised service centre only.

The addresses are given in the guarantee certificate provided with the machine.

SAFETY

Fundamental safety warnings



Danger! This is an electrical appliance and may cause electric shock.

You should therefore respect the following safety warnings:

- Never touch the appliance with damp hands.
- Never touch the plug with damp hands.
- Make sure the socket used is freely accessible at all times, enabling the appliance to be unplugged when necessary.
- Unplug directly from the plug only.
Never pull the power cable as you could damage it.
- To disconnect the appliance completely you must unplug it from the mains socket.
- If the appliance is faulty, do not attempt to repair.
Turn it off, unplug from the mains socket and contact a technical service centre.
- If the plug or power cable is damaged, it must be replaced by a technical service centre only to avoid all risk.



Danger! Keep all packaging (plastic bags, polystyrene foam) away from children.



Danger! The 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 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.



Important: Risk of burns! This appliance produces hot water and steam may form while it is in operation.

Avoid contact with splashes of water or hot steam.

When the appliance is in operation, do not touch the cup warmer shelf (A6) as it becomes hot.

Designated use

This appliance is designed and produced to make coffee and heat drinks.

All other use is considered improper.

This appliance is not suitable for commercial use. The manufacturer is not liable for damage deriving from improper use of the appliance.

Instructions

Read these instructions carefully before using the appliance.

- Keep these instructions
If the appliance is passed to other persons, they must also be provided with these instructions.
- Failure to respect these instructions may result in burns or damage to the appliance. The manufacturer is not liable for damage deriving from failure to respect these instructions.

DESCRIPTION

Description of the appliance

(page 3 - **A**)

- A1. Grinding coarseness regulator knob
- A2. Bean container lid
- A3. Container for coffee beans
- A4. Ground coffee feed funnel
- A5. Compartment for measure
- A6. Cup warmer shelf
- A7. Water tank
- A8. Infuser
- A9. Coffee grounds container
- A10. Cup tray
- A11. Drip tray
- A12. Service door
- A13. Coffee guide
- A14. Coffee spout (adjustable height)
- A15. Cappuccino maker (varies according to model)
- A16. Measure
- A17. Main switch

Description of control panel

(page 3 - **B**)

A number of buttons on the panel have a dual function. This is indicated in brackets in the description.

- B1. Display: guides the user in using the appliance.
- B2.  button: to make 1 cup of coffee with the settings displayed
- B3.  button: to make 2 cups of coffee with the settings displayed.
- B4.  button: to deliver hot water or steam to make hot drinks.
(When you access the MENU: pressing the "OK" button confirms the selection made).
- B5. Indicator lights: indicate the current settings, alarm messages or need for maintenance.
- B6. Selection knob: turn clockwise or anticlockwise until the light corresponding to the quantity of coffee comes on

 "my coffee" (customised)

 espresso coffee

 standard coffee

 long coffee

 extra long coffee
(When you access the MENU: turn to select).

- B7. Aroma selection button  : press until the light corresponding to the type of coffee you want to make comes on.

 pre-ground coffee

 extra-mild taste

 mild taste

 standard taste

 strong taste

 extra-strong taste

- B8.  steam or hot water selection button.

(When you access the MENU: press the "ESC" button to exit from the selected function and go back to the main menu).

- B9. **P** button to access the menu

- B10.  button: turns the appliance on and off

Explanation of lights

 Indicates the need to descale the appliance.

 The Steam function is selected.

 The Hot Water function is selected.

AUTO  The Auto-Start function is active.

 The water filter is exhausted. Replace it.

 An alarm is displayed (see "Explanation of lights").

OK  Indicates the button to press to confirm the choice in the menu.

<ESC  Indicates the button to press to exit the menu or cancel the selected function.

PRELIMINARY CHECKS

Controls after transport

After removing the packaging, make sure the product is complete and undamaged and that all accessories are present.

Do not use the appliance if it is visibly damaged. Contact the technical service centre.

Installing the appliance



Important!

When installing the appliance, respect the following safety warnings:

- The appliance gives off heat. Leave a free space of at least 3 cm around the sides and back of the appliance and at least 15 cm at the top. Otherwise the heat could be trapped and damage the machine.
- Water penetrating the appliance could cause damage.
Do not place the appliance near taps or sinks.
- The appliance could be damaged if the water it contains freezes. Do not install the appliance in a room where the temperature could drop below freezing point.
- Arrange the power cable in such a way that it cannot be damaged by sharp edges or contact with hot surfaces (e.g. electric hot plates).

Connecting the appliance



Important!

Check that the mains power supply voltage corresponds to the value indicated on the rating plate on the bottom of the appliance.

Connect the appliance to an efficiently earthed and correctly installed socket with a minimum current rating of 10A only.

If the power socket does not match the plug on the appliance, have the socket replaced with a suitable type by a qualified professional.

Using the appliance for the first time



NB!

- Coffee has been used to factory test the appliance and it is therefore completely normal for there to be traces of coffee in the mill. The machine is, however, guaranteed to be new.
 - You should customise water hardness as soon as possible following the instructions in the section "Setting water hardness" on page 36.
 - Some models are fitted with a water softener filter which reduces the build up of limescale in the appliance.
To install, see the section "Installing the filter" (page 30).
1. Plug the appliance into the mains socket and place the main switch on the back of the appliance in the I position (fig. 29).

You must first select the language (the languages scroll through at intervals of about two seconds):

2. When English appears, press the **OK** / **||** button for three seconds (fig. 1). Once the language has been saved, the message "English Installed" is displayed.

Follow the instructions indicated by the appliance:

3. "FILL TANK!": remove the water tank, fill to the MAX line with fresh water then replace in the appliance (fig. 2). The message "Hot Water... Confirm?" is displayed.
4. Turn the cappuccino maker outwards and place a container underneath (fig. 3).
Press the **OK** / **||** button (fig. 1). "Please Wait..." is displayed and the appliance begins to deliver hot water.

The appliance ends the first start up procedure, then the message "Turning Off, Please Wait..." is displayed and the appliance goes off.

The coffee maker is now ready for normal use.



NB! When using the appliance for the first time, you need to make 4/5 cups of coffee or 4/5 cappuccinos before the appliance starts to give satisfactory results.

TURNING THE APPLIANCE ON



N.B.! Before turning the appliance on, make sure the main switch is in the I position (fig. 27).

Each time the appliance is turned on, it performs an automatic preheat and rinse cycle which cannot be interrupted.

The appliance is ready for use only after completion of this cycle.



Danger of burns! During rinsing, a little hot water flows from the coffee spouts. Avoid contact with splashes of water.

- To turn the appliance on, press the **I** button (fig. 4). The message "Heating Up... Please Wait" is displayed.

After heating, the message "RINSING" is displayed. As well as heating the boiler, the appliance also heats the internal circuits by circulating hot water.

The appliance is at temperature when the message "READY Standard Taste" is displayed.

TURNING THE APPLIANCE OFF

Each time the appliance is turned off, it performs an automatic rinse cycle which cannot be interrupted.



Danger of burns! During rinsing, a little hot water flows from the coffee spouts. Avoid contact with splashes of water.

To turn the appliance off, press the **I** button (fig. 4). The appliance performs a rinse cycle, the message "Turning Off! Please Wait..." is displayed and the appliance goes off.



N.B.! If the appliance is not used for an extended period, place the main switch in the 0 position (fig. 30).

CHANGING THE MENU SETTINGS

Setting the clock

1. Press the **P** button to enter the menu;
2. Turn the selection knob until "Adjust Time" is displayed;
3. Press the **OK** button;
4. Turn the selection knob to change the hours;
5. Press the **OK** button to confirm (or the **ESC** button to cancel the operation);
6. Turn the selection knob to change the minutes;
7. Press the **OK** button to confirm (or the **ESC** button to cancel the operation);
8. Press the **ESC** button to exit the menu.

Setting the language

1. Press the **P** button to enter the menu;
2. Turn the selection knob until "Set Language" is displayed;
3. Press the **OK** button;
4. Turn the selection knob until the required language is displayed;
5. Press the **OK** button to confirm (or the **ESC** button to cancel the operation);
6. Press the **ESC** button to exit the menu.

Setting auto-start time

You can set the auto-start time in order to have the appliance ready at a certain time (for example in the morning) so you can make coffee immediately.

1. Press the **P** button to enter the menu;
2. Turn the selection knob until "Auto-Start" is displayed;
3. Press the **OK** button;
4. Turn the selection knob to change the hours;
5. Press the **OK** button to confirm (or the **ESC** button to cancel the operation);
6. Turn the selection knob to change the minutes;
7. Press the **OK** button to confirm (or the **ESC** button to cancel the operation);
8. Press the **ESC** button to exit the menu.

After confirming the time, the red AUTO light on the display comes on indicating that the function is active.

To deactivate the function, select auto-start from the menu by pressing the **OK** button and exit

by pressing the **ESC** button. The AUTO icon on the display goes off.



NB! To activate this function, the time must be set.

Manual rinsing

1. Press the **P** button to enter the menu;
2. Turn the selection knob until "Rinsing..." is displayed;
3. Press the **OK** button;
4. The message "Confirm?" is displayed;
5. Press the **OK** button to confirm (or the **ESC** button to cancel the operation). The rinse function begins and "Rinsing..." is displayed;
6. After rinsing, the appliance automatically exits the menu and is ready to make coffee.



NB! Unlike automatic rinsing, manual rinsing can be interrupted at any moment by pressing the **OK** button.

Descaling

1. Press the **P** button to enter the menu;
2. Turn the selection knob until "Descaling" is displayed;
3. Press the **OK** button;
4. The message "Confirm?" is displayed.
5. Press the **OK** button to confirm (or the **ESC** button to cancel the operation);
6. Perform descaling as described in the section "Descaling" (page 35).

Setting the temperature

1. Press the **P** button to enter the menu;
2. Turn the selection knob until "Set Temperature" is displayed;
3. Press the **OK** button;
4. Turn the selection knob until the required temperature (high, medium, low) is displayed;
5. Press the **OK** button to confirm (or the **ESC** button to cancel the operation);
6. Press the **ESC** button to exit the menu.

Auto-Off

1. Press the **P** button to enter the menu;
2. Turn the selection knob until "Auto-Off" is displayed;
3. Press the **OK** button;
4. Turn the selection knob until the required number of hours of operation (1, 2 or 3) is displayed;

5. Press the **OK** / button to confirm (or the **ESC** button to cancel the operation);
6. Press the **ESC** button to exit the menu.

Setting water hardness

1. Press the **P** button to enter the menu;
2. Turn the selection knob until "Water Hardness" is displayed;
3. Press the **OK** / button;
4. Turn the selection knob until the water hardness measured using the indicator strip is displayed (see paragraph "Measuring water hardness" on page 36);
5. Press the **OK** / button to confirm (or the **ESC** button to cancel the operation);
6. Press the **ESC** button to exit the menu.

Resetting factory default values (reset)

This function resets the entire menu with the default values (except the language, which remains as set).

1. Press the **P** button to enter the menu;
2. Turn the selection knob until "Default Values" is displayed;
3. Press the **OK** / button;
4. The message "Confirm?" is displayed.
5. Press the **OK** / button to confirm and exit (or the **ESC** button to cancel the operation).

Installing the filter

Certain models are provided with a water softener filter. If this is not the case with your model, you are recommended to purchase one from an authorised De'Longhi technical service centre.

To install, proceed as follows:

1. Remove the filter from the packaging.
2. Slide the pointer of the date indicator (fig. 28, page 5) until the months of use are displayed (the filter lasts about two months).
3. Insert the filter in the water tank and press it down until it touches the bottom of the tank (fig. 28, page 5).
4. Fill the water tank and insert in machine;
5. Turn the cappuccino maker outwards and place a container underneath (min. capacity 100ml).

When you install the filter, you must notify the appliance of its presence.

6. Press the **P** button to enter the menu;
7. Turn the selection knob until "Install Filter" is displayed;
8. Press the **OK** / button;
9. The message "Confirm?" is displayed.

10. Press the **OK** / button to confirm the selection (or the **ESC** button to cancel). The message "Hot Water... Confirm?" is displayed.
11. Press the **OK** / button again. The appliance begins delivering hot water and the message "Please wait..." is displayed. After delivery, the appliance returns automatically to the "Ready for coffee" position.

Replacing the filter ("Reset water filter")

When the red light comes on or after two months of use (see date indicator), the filter must be replaced:

1. Remove the exhausted filter;
2. Remove the new filter from the packaging.
3. Slide the pointer of the date indicator (fig. 28, page 5) until the months of use are displayed (the filter lasts about two months).
4. Insert the filter in the water tank and press it until it touches the bottom of the tank (fig. 28, page 5).
5. Fill the water tank and insert in machine;
6. Turn the cappuccino maker outwards and place a container underneath (min. capacity 100ml).
7. Press the **P** button to enter the menu;
8. Turn the selection knob until "Reset Water Filter" is displayed;
9. Press the **OK** / button;
10. The message "Confirm?" is displayed.
11. Press the **OK** / button to confirm the selection (or the **ESC** button to cancel the operation). The message "Hot Water... Confirm?" is displayed.
12. Press the **OK** / button again. The appliance begins delivering hot water and the message "Please wait..." is displayed. After delivery, the appliance returns automatically to the "Ready for coffee" position.

Removing the filter

If you want to use the appliance without a filter, you must remove it and notify the appliance of its removal as follows:

1. Press the **P** button to enter the menu;
2. Turn the selection knob until "Install Filter *" is displayed;
3. Press the **OK** / button;
4. The message "Confirm?" is displayed.
5. Press the **ESC** button;
6. When the asterisk has disappeared from the top right of the display, press **ESC** to exit the menu.



Important! If this is not done, the appliance could become clogged with limescale.

Statistics function

1. Press the **P** button to enter the menu;
2. Turn the selection knob until "Statistics" is displayed;
3. Press the **OK** / **ESC** button;
4. Turn the selection knob to verify:
 - how many coffees have been made;
 - how many times the machine has been descaled;
 - the total number of litres of water delivered;
 - how many times the water filter has been replaced.
5. Press the **ESC** button twice to exit the menu.

MAKING COFFEE

Selecting the coffee taste

The appliance is preset to make coffee with a standard taste.

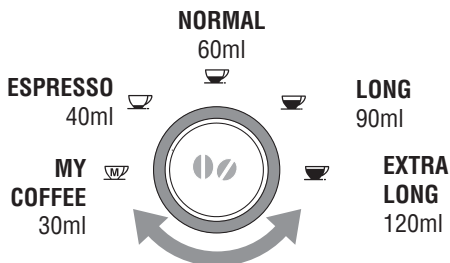
You can also choose one of these tastes:

- Extra-mild taste
- Mild taste
- Standard taste
- Strong taste
- Extra-strong taste

To change the flavour, press the  button (fig. 5) repeatedly until the required taste is displayed.

Selecting the quantity of coffee in the cup

To select the quantity of coffee, turn the selection knob until the light corresponding to the required quantity of coffee comes on:



Customising the "MY COFFEE" quantity

The appliance is factory preset to automatically deliver 30ml.

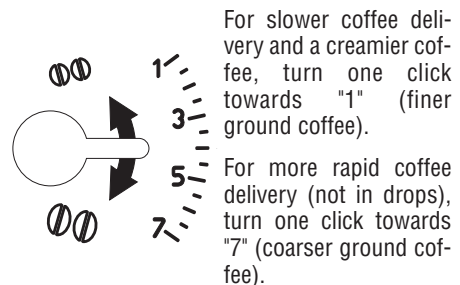
1. Place a cup under the coffee spouts (fig. 6).
2. Turn the selection knob (B6) until the  light comes on.
3. Press the 1 cup button  for at least 8 seconds (fig. 7). The message "1 MY COFFEE Programme Quantity" is displayed and coffee delivery begins;
4. As soon as the coffee in the cup reaches the required level, press the 1 cup button  again.

The quantity set has now been programmed.

Regulating the coffee mill

The coffee mill is preset in the factory to make coffee correctly and should not require regulating initially.

However, if after making the first few coffees you find that delivery is either too fast or too slow (in drops), this can be corrected by regulating the grinding adjustment knob (fig. 8).



These adjustments will only be evident after at least 2 cups of coffee have been delivered.

NB! The grinding coarseness regulator must only be turned when the coffee mill is in operation.

Making coffee using coffee beans



Important! Do not use caramelised or candied coffee beans as they could stick to the coffee mill and make it unusable.

1. Fill the container (A3) with coffee beans (fig. 9).
2. Place under the coffee spouts:
 - 1 cup, if you want 1 coffee (fig. 6);
 - 2 cups, if you want 2 coffees.

3. Lower the spouts as near as possible to the cup. This makes a creamier coffee (fig. 10).
4. Press the corresponding coffee button (1 cup ☐ or 2 cups ☐☐) (fig. 7 and 11).
5. Preparation begins. A progress bar appears on the display and gradually advances as the procedure progresses (fig. 12).

Once the coffee has been made, the appliance is ready to use again.



- While the machine is making coffee, delivery can be interrupted at any moment by pressing one of the coffee buttons (☐ or ☐☐).
- As soon as delivery is finished, to increase the quantity of coffee in the cup, just hold down one of the coffee buttons (☐ or ☐☐) until the required amount is reached (this must be done within three seconds after completion of delivery).
- If the coffee is delivered in drops, too fast and not creamy enough or too cold, read the tips in the "Troubleshooting" section on page 39.

Making coffee using pre-ground coffee

i NB! If you use pre-ground coffee, you can only make one cup of coffee at a time.

1. Press the ☐ button repeatedly (fig. 13) until "READY Pre-Ground" is displayed and the ☐ light flashes.



- Never add pre-ground coffee when the machine is off or it could spread through the inside of the machine and dirty it. This could damage the appliance.
- Never use more than one level measure or it could dirty the inside of the machine or block the funnel.



2. Put one level measure of pre-ground coffee into the funnel (fig. 14).
3. Place a cup under the coffee spouts.
4. Press the 1 cup coffee button ☐ (fig. 7).

FROTHING THE MILK FOR CAPPUCCINO (AND HEATING LIQUIDS)

The steam can be used to froth milk and heat liquids.

i NB! To make cappuccino, prepare the coffee in a large cup then add the frothed milk.



Important! Danger of burns

When you use the steam function, steam comes out of the cappuccino maker. Take care to avoid burns.

1. Turn the cappuccino maker outwards and place a container underneath (fig. 3).
2. Press the ☐ button until the ☐ light comes on.



i NB! To avoid residual water being mixed with the milk during frothing, you should deliver the water first. To do this, allow the water mixed with the steam to flow for a few seconds until only steam comes out.

3. Press the ☐ button (fig. 1). The appliance heats up and "Please Wait..." is displayed. When the appliance reaches the ideal temperature, it begins producing steam and "Steam..." is displayed. Interrupt by pressing the same button again.
4. Empty the container and fill with about 100 grams of milk for each cappuccino to be prepared. In choosing the size of the container, bear in mind that the milk doubles or triples in volume. You are recommended to use semi-skimmed milk at refrigerator temperature.
5. If the cappuccino maker fitted to your model has a double position ring, turn the ring* to the CAPPUCCINO position (fig. 15). If on the other hand you want hot milk, turn the ring to the "MILK" position.
5. Immerse the cappuccino maker in the milk container (fig. 16). Take care not to immerse the black ring or the raised line on the cappuccino maker.
6. Press the ☐ button. Steam is discharged from the cappuccino maker, giving the milk a creamy frothy appearance.



NB! To obtain a creamier froth, immerse the cappuccino maker in the milk and rotate the container with slow upward movements.

You should not deliver steam for more than 3 minutes at a time.

- When the required froth is obtained, interrupt steam delivery by pressing the  button.



Important! Danger of burns

Stop steam delivery before removing the container with the frothed milk to avoid burns caused by splashes of boiling milk.

- Add the milk froth to the coffee prepared previously. The cappuccino is ready. Sweeten to taste and, if desired, sprinkle the froth with a little cocoa powder.

Cleaning the cappuccino maker after use.

Clean the cappuccino maker each time you use it to avoid the build-up of milk residues or blockages.



Important! Danger of burns When cleaning the cappuccino maker, a little hot water comes out. Avoid contact with splashes of water.

- Flow off a little water or steam for a few seconds by pressing the  button. Press the button again to stop the flow of steam/hot water.
- Wait for a few minutes for the cappuccino maker to cool down, hold the handle of the cappuccino tube in one hand and with the other rotate the cappuccino maker anticlockwise (fig. 17) then remove by pulling downwards.
- Remove the ring upwards (fig. 18 - certain models only).
- Wash all parts of the cappuccino maker thoroughly with warm water.
- Make sure the two holes shown by the arrow in fig. 19 are not blocked. If necessary, clean with a pin.
- Replace the inner section by inserting it carefully onto the adjustable tube, then insert the steam nozzle and turn anticlockwise to lock it in place.

HEATING WATER

Preparation



Important! Danger of burns. Never leave the machine unsupervised while delivering hot water. Stop delivery of hot water as described below when the cup is full. The hot water spout becomes hot while water is being delivered and must be held by the handle only.

- Place a container under the spout (as close as possible to avoid splashes).
- Press the  button (fig. 1) until the  light comes on.
- Press the  button (fig. 3), then interrupt by pressing the same button again or wait until the customised quantity has been delivered.



Important: You should not deliver hot water for more than 3 minutes at a time.

Changing the quantity

The appliance is factory preset to automatically deliver 250ml. To modify these quantities, proceed as follows:

- Position a container under the spouts.
- Press the  button until the  light comes on.
- Press and hold the  button down for at least 8 seconds. The message "Hot Water Programme Quantity" is displayed.
- When the hot water in the cup reaches the required level, press the  button again.

The machine is now reprogrammed with the new quantity.

CLEANING AND MAINTENANCE



Danger of electric shock!

- Before performing any cleaning operations, the machine must be turned off and disconnected from the mains power supply.
- Never immerse the coffee maker in water.



Important! Danger of burns. Allow the machine to cool down before cleaning.



Important!

- Do not use solvents, abrasive detergents or alcohol to clean the coffee maker.
- None of the components can be washed in a dishwasher.
- Do not use metal objects to remove encrustations or coffee deposits as they could scratch metal or plastic surfaces.

Emptying the drip tray



Important! If the drip tray (A11) is not emptied regularly, the water could overflow from the edge and seep inside or around the machine. This could damage the machine, the surface it rests on or the surrounding area.

The drip tray has a water level indicator in the form of a red float which rises up as the level of water in the drip tray rises.

Empty the drip tray before the red float protrudes from the tray (fig. 20).

To remove the tray:

1. Open the service door (fig. 21);
2. Remove the drip tray and the grounds container (Fig. 22);
3. Empty the drip tray and grounds container (A9);
4. Replace the drip tray complete with grounds container (A9);
5. Close the service door.

Cleaning the coffee maker

The following parts of the machine must be cleaned regularly:

- water tank (A7),
- drip tray (A11),
- coffee grounds container (A9),
- coffee spouts (A14) and hot water/cappuccino maker nozzle (A15),
- pre-ground coffee feed funnel (A4),
- inside the machine, accessible after opening the service door (A12),
- infuser (A8).

Cleaning the water tank

1. Clean the water tank (A7) regularly (about once a month) with a damp cloth and a little mild washing up liquid.
2. Clean to remove all washing up liquid residues, then rinse the water tank thoroughly.

Cleaning the drip tray

- Clean the drip tray (A11) each time you empty it using a damp cloth and a little mild washing up liquid.

Cleaning the coffee grounds container

1. Clean the grounds container (A9) each time you empty it using a damp cloth and a little mild washing up liquid.
2. Try removing the toughest coffee encrustations with a toothpick. If this is not sufficient, soften the encrustations by soaking the grounds container in water for a few minutes.

Cleaning the spouts

1. Clean the coffee spout (A14), ideally each time you use the coffee maker, with a sponge or cloth (fig. 23).
2. Check regularly (about once a month) that the holes in the coffee spout (A14) are not blocked. If necessary, remove coffee deposits with a toothpick (fig. 24), sponge or stiff bristled kitchen brush.

Cleaning the coffee feed funnel

- Check regularly (about once a month) that the pre-ground coffee funnel is not blocked. If necessary, remove coffee deposits with a kitchen knife.

Cleaning the inside of the machine

1. Check regularly (about once a week) that the inside of the machine is not dirty. If necessary, remove coffee deposits with a toothpick, sponge or stiff bristled kitchen brush.
2. Remove the residues with a vacuum cleaner (fig. 25).

Cleaning the infuser

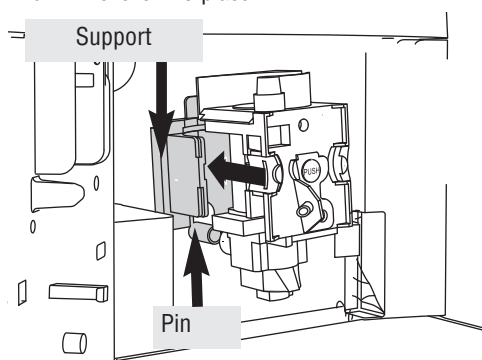
The infuser must be cleaned at least once a month.

! Important! The infuser (A8) may not be removed when the appliance is on. Do not attempt to use force to remove the infuser as this could damage the machine.

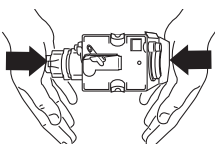
1. Turn the appliance off by pressing the ① button. When the appliance has gone off, unplug.
2. Open the service door (fig. 21);
3. Remove the drip tray and grounds container (fig. 22);
4. Press the two red release buttons inwards and at the same time pull the infuser outwards (fig. 26).

! Important! Do not use washing up liquid to clean the infuser (A8). The detergent would remove the lubricant applied to the inside of the piston, causing the infuser to seize up and become unusable.

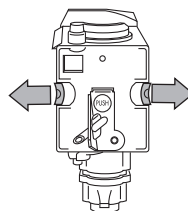
5. Soak the infuser in water for about 15 minutes, then rinse.
6. After cleaning, replace the infuser (A8) by sliding it onto the internal support and pin at the bottom, then push the PUSH symbol fully in until it clicks into place.



i NB! If the infuser is difficult to insert, you must first adapt it to the right dimension by pressing it forcefully from the bottom and top as shown in the figure.



7. Once inserted, make sure the two red buttons have snapped out.
8. Replace the drip tray (A11) and grounds container (A9).
9. Close the service door (A12).



DESCALING

Descalc the machine when the red light  and message "DESCALE!" flash on the display.

! Important! Descaler contains acids which may irritate the skin and eyes. It is vital to respect the manufacturer's safety warnings given on the descaler pack and the warnings relating to the procedure to follow in the event of contact with the skin and eyes.

i NB! Failure to descale the appliance as described above invalidates the guarantee.

1. Turn the machine on.
2. Press the **P** button to enter the menu;
3. Turn the selection knob until "Descaling" is displayed;
4. Select by pressing the **OK**  button. The message "Descaling Confirm?" is displayed. Press **OK**  to activate the function.
5. The message "Insert Descaler. Confirm?" is displayed.
6. Empty the water tank (A7) and remove the water softener filter (if present).
7. Pour the descaler diluted with water (respecting the proportions indicated on the descaler bottle) into the water tank. Always use descaler recommended by De'Longhi (contact an authorised service centre).
8. Place an empty container with a minimum capacity of 1.5 litres under the hot water spout (B7) (fig. 3).

! Important! Danger of burns Hot water containing acid flows out of the hot water spout. Avoid contact with splashes of water.

9. Press the **OK**  button to confirm that you have added the solution and begin the descaling procedure.
10. The message "Descaling Underway" is displayed. The descaling programme starts and the descaler liquid comes out of the steam nozzle. The descale programme automatically performs a series of rinses and pauses to remo-

ve limescale deposits from inside the machine.

After about 30 minutes, the message "Rinsing FILL TANK!" is displayed.

11. The appliance is now ready for rinsing through with clean water. Remove the water tank, empty, rinse under running water, fill with clean water and replace. "Rinsing... Confirm?" is displayed.
12. Empty the container used to collect the descaler solution and replace it under the cappuccino maker.
13. Press the **OK**  button to start rinsing. Hot water flows out of the cappuccino maker and the message "Rinsing..." is displayed.
14. When the water tank is completely empty, the message "Rinsing Complete... Confirm?" is displayed
15. Press the button **OK** , insert the filter (if it was present), fill the water tank and the appliance is ready for use.

SETTING WATER HARDNESS

The DESCALE message is displayed after a period of time established according to water hardness. The machine is factory set for a hardness value of 4.

The machine can also be programmed according to the hardness of the mains water in the various regions, varying the frequency with which the message is displayed.

Measuring water hardness

1. Remove the "TOTAL HARDNESS TEST" indicator paper from its pack.
2. Immerse the paper completely in a glass of water for one second.
3. Remove the paper from the water and shake lightly.
After about a minute, 1, 2, 3, or 4 red squares form, depending on the hardness of the water. Each square corresponds to one level.

Livello 1  

Livello 2  

Livello 3  

Livello 4  

Setting water hardness

1. Press the **P** button to enter the menu.
2. Turn the selection knob to select "Water Hardness".
3. Confirm the selection by pressing the **OK**  button.
4. Turn the selection knob and set the level shown by the indicator paper (see previous paragraph).
5. Press the **OK**  button to confirm the setting.
6. Press the  **ESC** button to exit the menu.

The machine is now reprogrammed with the new water hardness setting.

TECHNICAL SPECIFICATION

Voltage: 220-240 V~ 50/60 Hz 10A max.

Absorbed power: 1350W

Pressure: 15 bar

Water tank capacity: 1.7 litres

Size: LxHxD: 284x374x441 mm

Weight: 11.4 Kg



The appliance complies with the following EC directives:

- Low Voltage Directive 2006/95/EC;
- EMC Directive 89/336/EEC and subsequent amendments 92/31/EEC and 93/68/EEC.

Materials and accessories coming into contact with food conform to EEC directive 1935/2004.

DISPOSAL



Electrical appliances must not be disposed of as household waste.

Appliances with this symbol are covered by European Directive 2002/96/EC.

All unused electric and electronic appliances must be disposed of separately from household waste by taking them to State authorised special centres.

Disposing of the unused appliance correctly avoids damage to the environment and a risk to health.

For more information on disposing of the unused appliance, contact the local administration, the waste disposal department or the shop where the appliance was bought.

DISPLAYED MESSAGES

DISPLAYED MESSAGE	POSSIBLE CAUSE	REMEDY
FILL TANK!	The water tank is empty or positioned incorrectly.	Fill the tank with water and/or insert it correctly, pushing it as far as it will go until it clicks into place.
GROUND TOO FINE ADJUST MILL! ALTERNATING WITH... HOT WATER... confirm? 	- The grinding is too fine and the coffee is delivered too slowly. - The machine is not able to make coffee.	- Repeat coffee delivery and turn the grinding adjustment knob one click clockwise towards "7" while the coffee mill is in operation. - Press the  button and deliver water from the spout for a few seconds.
EMPTY GROUNDS CONTAINER	The grounds container (A9) is full.	Empty the grounds container and clean, then replace. Important: when removing the drip tray, the grounds container MUST be emptied, even if it is not completely full. If this is not done, when you make the next coffees, the grounds container may fill up more than expected and clog the machine.
INSERT GROUNDS CONTAINER	After cleaning, the grounds container has not been replaced.	Open the service door and insert the grounds container.
ADD PRE-GROUND COFFEE!	Place pre-ground coffee in the funnel or deselect the "pre-ground" function.	Place pre-ground coffee in the funnel or deselect the "pre-ground" function.

DISPLAYED MESSAGE	POSSIBLE CAUSE	REMEDY
DESCALE!  FLASHES	This indicates that appliance is clogged with limescale.	The descaling procedure described in the "Descaling" section needs to be performed as soon as possible.
LESS COFFEE!	Too much pre-ground coffee has been used.	- Empty the funnel with the help of a knife, as described in the section "Cleaning the funnel to add coffee". - Select a milder taste or reduce the quantity of pre-ground coffee, then deliver the coffee again.
FILL BEANS CONTAINER!	The coffee beans have run out.	Fill bean container
INSERT INFUSER ASSEMBLY! 	The infuser has not been replaced after cleaning.	Insert the infuser as described in the paragraph "Cleaning the infuser".
CLOSE DOOR! 	The service door is open	Close the service door.
GENERAL ALARM! 	The inside of the appliance is very dirty.	Clean the inside of the appliance thoroughly, as described in the section "Cleaning and maintenance". If the message is still displayed after cleaning, contact a service centre.

TROUBLESHOOTING

Below is a list of some of the possible malfunctions.

If the problem cannot be resolved as described, contact a technical service centre.

PROBLEM	POSSIBLE CAUSE	REMEDY
The coffee is not hot	- The cups have not been preheated. - The infuser has cooled down because 2/3 minutes have elapsed since the last coffee was made.	- Heat the cups by rinsing them in hot water or leaving them to rest for at least 20 minutes on the cup warmer tray. - Before making the coffee, heat the infuser by pressing the manual rinse button (page 29).
The coffee is not creamy enough	- The coffee is ground too coarsely. - Wrong type of coffee.	- Turn the grinding adjustment knob one click anti-clockwise towards "1" while the coffee mill is in operation (fig. 8). - Use a type of coffee for espresso coffee makers.
The coffee is delivered too slowly or a drop at a time.	The coffee is ground too finely.	Turn the grinding adjustment knob one click clockwise towards "7" while the coffee mill is in operation (fig. 8). Continue one click at a time until coffee delivery is satisfactory. The effect is only visible after delivering two coffees.
The coffee is delivered too quickly.	The coffee is ground too coarsely.	Turn the grinding adjustment knob one click anti-clockwise towards "1" while the coffee mill is in operation (fig. 8). Avoid turning the grinding coarseness regulator excessively otherwise when you select 2 cups, the coffee may be delivered a drop at a time. The effect is only visible after delivering two coffees.

PROBLEM	POSSIBLE CAUSE	REMEDY
Coffee does not come out of one of the spouts.	The spouts are blocked.	If necessary, remove coffee deposits with a toothpick (fig. 24), sponge or stiff bristled kitchen brush.
The coffee does not come out of the spouts, but from around the service door (A12).	- The holes in the spouts are clogged with dry coffee dust. - The coffee guide (A13) inside the service door is blocked and cannot swing.	- If necessary, remove coffee deposits with a toothpick, sponge or stiff bristled kitchen brush (fig. 24). - Thoroughly clean the coffee guide (A13), particularly near the hinges.
Water comes out of the spouts instead of coffee.	The ground coffee may be blocked in the funnel (A4).	Clean the funnel (A4) with a wooden or plastic fork, clean the inside of the machine.
The milk has big bubbles	The milk is not cold enough or is not semi-skimmed.	You should ideally use skimmed or semi-skimmed milk at refrigerator temperature (about 5°C). If the result is still disappointing, try another brand of milk.
The milk is not frothed	Cappuccino maker dirty.	Clean as described in the section "Cleaning the cappuccino maker after use".
Steam delivery stops	A safety device stops steam delivery after 3 minutes.	Wait, then activate the steam function again.
The appliance does not come on.	- It is not plugged into the mains socket. - The main switch is not turned on.	- Plug into the mains socket. - Place the main switch in the I position (fig. 29).