
ECAM23.46X - 24.46X

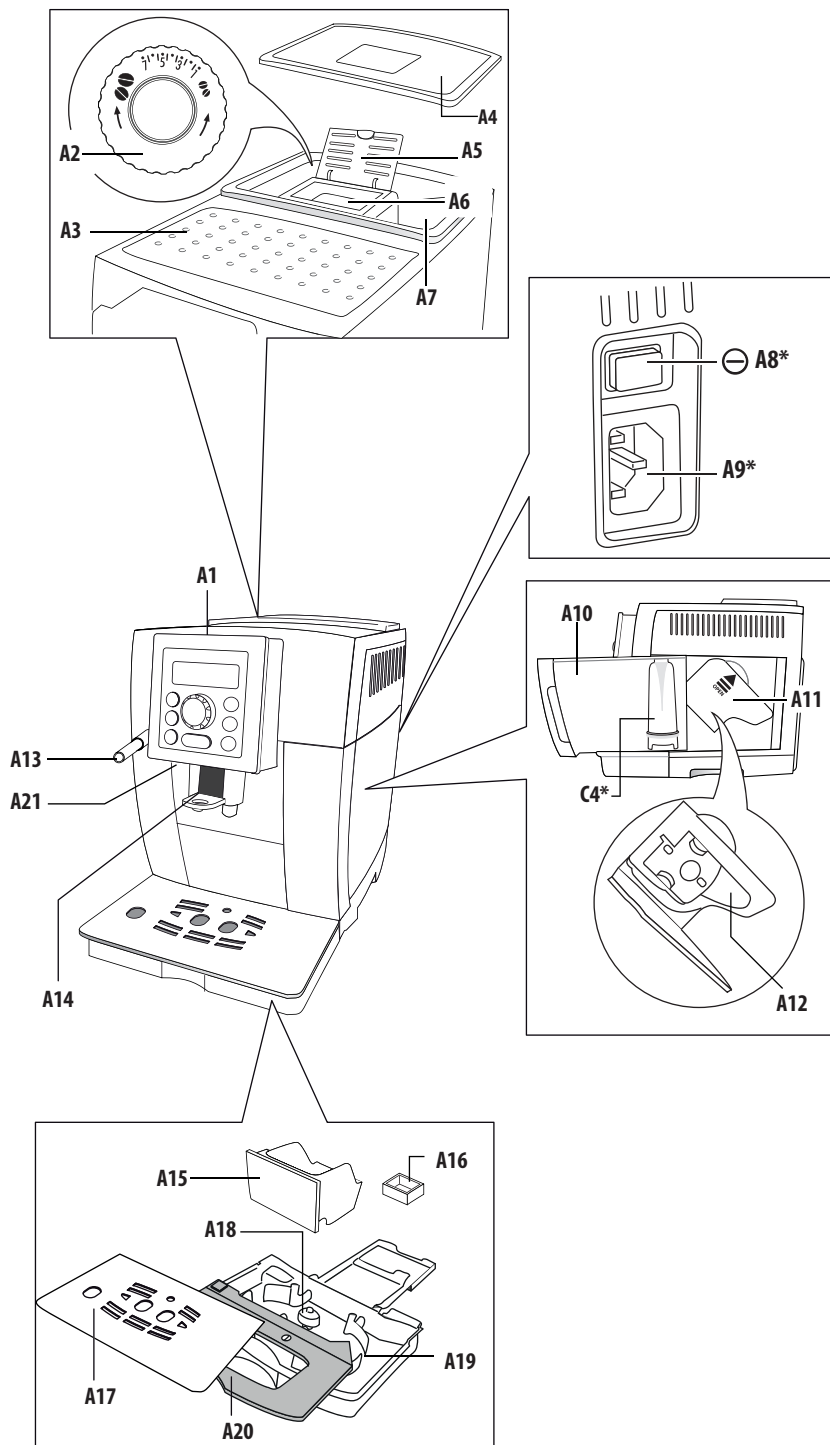
BEAN TO CUP ESPRESSO AND CAPPUCCINO MACHINE Instructions for Use

Instructions videos available at:
<http://ecam23460.delonghi.com>

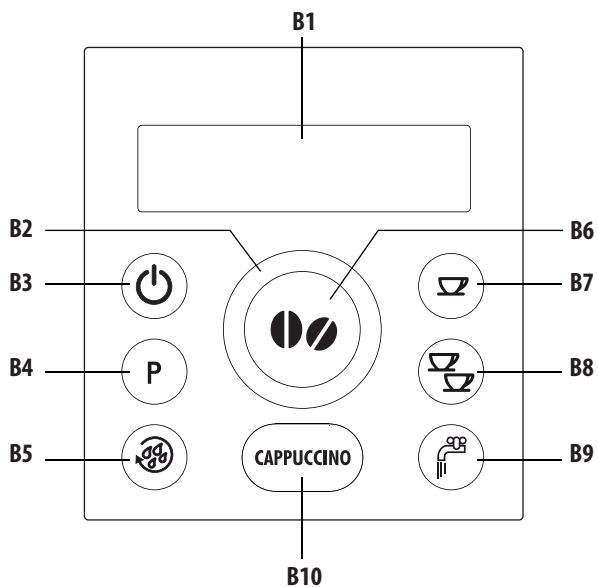


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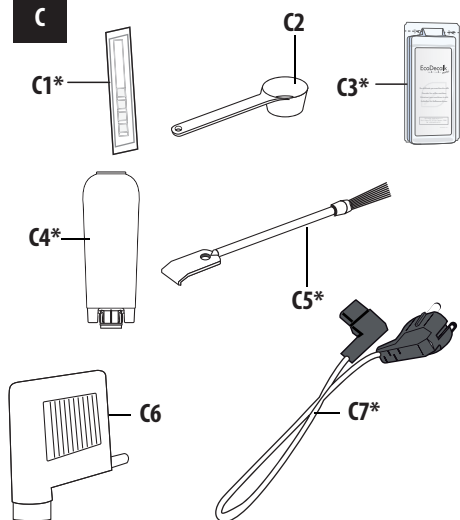
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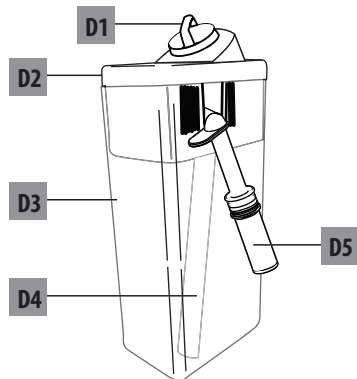
B



C



D



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Before using the appliance, always read the safety warnings.

1. INTRODUCTION

1.1 Letters in brackets

The letters in brackets refer to the legend in the description of the appliance on pages 2-3.

1.2 Troubleshooting and repairs

In the event of problems, first try and resolve them by reading the information given in sections "16. Displayed messages" and "17. Troubleshooting".

If this does not resolve the problem or you require further information, you should consult customer services by calling the number given on the annexed "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 De'Longhi customer services only. The addresses are given in the guarantee certificate provided with the machine.

2. DESCRIPTION

2.1 Description of the appliance (A)

- A1. Control panel
- A2. Grinding adjustment dial
- A3. Cup shelf
- A4. Beans container lid
- A5. Pre-ground coffee funnel lid
- A6. Pre-ground coffee funnel
- A7. Beans container
- A8. Main switch (* certain models only)
- A9. Power cord connector socket (* models with removable cord only)
- A10. Water tank
- A11. Infuser door
- A12. Infuser
- A13. Coffee spouts (adjustable height)
- A14. Cup light
- A15. Hot water and steam connection nozzle
- A16. Coffee grounds container
- A17. Condensate tray
- A18. Cup tray
- A19. Drip tray water level indicator
- A20. Drip tray
- A21. Tray grille

2.2 Description of the control panel (B)

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

- B1. Display: guides the user in using the appliance

- B2. Selection dial: turn to select the required quantity of coffee. *(When in the settings MENU, turn to select the required function)*
- B3.  button: turns the appliance on and off
- B4.  button to access the menu
- B5.  button: to perform a rinse cycle. *(When in the settings MENU, it acts as the "ESC" button to exit from the selected function and go back to the main menu)*
- B6.  aroma selection button: to select the coffee taste
- B7.  button: to make 1 cup of coffee with the settings displayed
- B8.  button: to make 2 cups of coffee with the settings displayed
- B9.  button to deliver hot water *(When in the MENU, it acts as the "OK" button to confirm the selection made)*
- B10. CAPPUCCINO button: to prepare cappuccino (* some models only: to prepare frothed milk by pushing the button twice)

2.3 Description of the accessories* (C)

(*Different for type and number according to models)

- C1. Indicator paper
- C2. Pre-ground coffee measure
- C3. Descaler
- C4. Water softener filter
- C5. Cleaning brush
- C6. Hot water spout
- C7. Power cord

2.4 Description of the milk container (D)

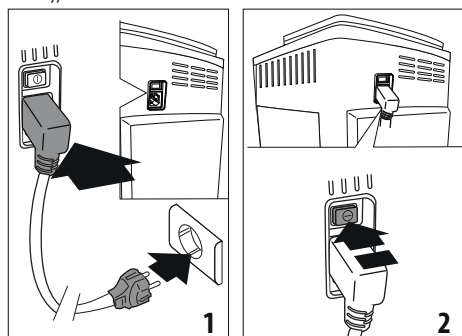
- D1. Froth adjustment and CLEAN dial
- D2. Milk container lid
- D3. Milk container
- D4. Milk intake tube
- D5. Frothed milk spout (adjustable)

3. SETTING UP THE APPLIANCE

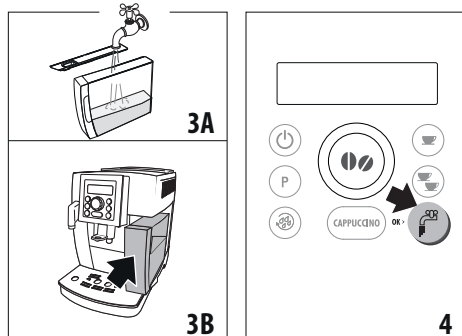
Please note:

- The first time you use the appliance, rinse with hot water all removable accessories which may come into contact with water or milk.
- The first time you use the machine, the water circuit is empty and the appliance could be very noisy. The noise becomes less as the circuit fills.
- Possible traces of coffee in the mill are the result of operating tests performed on the appliance before sale, proof of the meticulous care and attention we invest in our products.

1. **Models with removable cord (C7):** Plug the power cord connector into the socket (A9) at the back of the appliance;
2. Connect the appliance to the mains electricity supply (fig. 1); if your model is provided with the main switch (A8) at the back of the appliance, make sure it is pressed down (fig. 2);



3. Remove the water tank (A10), fill to the MAX line with fresh water (fig. 3A) then put back in the appliance (fig. 3B);

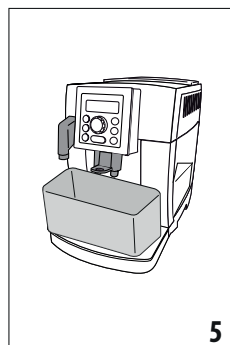


You must first choose the language by turning the selection dial, or waiting until the languages scroll through on the display (B1) automatically at intervals of about 3 seconds:

4. When "English" appears on the display, press the button (B9) (fig. 4) for a few seconds to confirm the selection;

Follow the instructions indicated on the appliance display:

5. Check that the hot water spout (C6) is inserted on the connection nozzle (A13) and place a container holding a minimum of 200ml underneath (fig. 5);



6. Press the button (fig. 4). The appliance delivers water from the hot water and coffee spouts then goes ready to use. The coffee machine is now ready for normal use.

Please note:

- The first time you use the coffee machine, you need to make 4-5 cappuccinos before it starts to give satisfactory results.
- To enjoy your coffee even more and improve the performance of your appliance, we recommend installing a water softener filter (C4) as described in section "14. Water softener filter" (*if provided). If your model is not provided with a filter, you can purchase one from De'Longhi Customer Services.
- You should customise water hardness as soon as possible following the instructions in section "13. Setting water hardness".

4. TURNING THE APPLIANCE ON

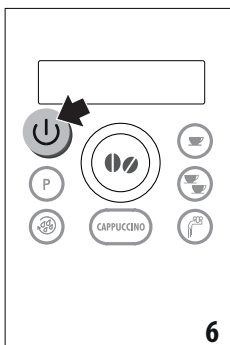
Please note:

- 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 once this cycle is complete.
- **Models with main switch (A8) only:** Before turning the appliance on, make sure the main switch on the back of the appliance is in the I position (fig. 2).
- When the machine is turned on and off, it is advisable to collect the rinse water in a container, to avoid to empty the drip tray frequently.

Danger of burns!

During rinsing, a little hot water comes out of the coffee spouts (A14) and is collected in the drip tray (A19) underneath. Avoid contact with splashes of water.

- To turn the appliance on, press the button (B3) (fig. 6). The message "Heating, Please wait" appears on the display (B1).



After heating, the appliance performs a rinse cycle. As well as heating the boiler, this also heats the internal circuits by circulating hot water.

The appliance is ready for use when the main screen appears.

5. TURNING THE APPLIANCE OFF

Whenever the coffee machine is turned off after being used to make coffee, it performs an automatic rinse cycle.

Danger of burns!

During rinsing, a little hot water flows from the coffee spouts (A14). Avoid contact with splashes of water.

To turn the appliance off, press the  button (B3) (fig. 6). If provided for, the appliance performs a rinse cycle then goes off (stand-by).

Please note:

- When the machine is turned on and off, it is advisable to collect the rinse water in a container, to avoid to empty the drip tray frequently.
- If you will not be using the appliance for some time, we recommend unplugging it from the mains socket.

Important!

Always turn the appliance off with the  button (standby) before unplugging from the mains socket or (if present) pressing the main switch to the 0 position.

6. MENU SETTINGS

When you access the settings menu by pressing the **P** button (B4), the following menu items can be selected:

6.1 Descaling

For instructions on descaling, see section "12. Descaling".

6.2 Install filter

For instructions on how to install the filter (C4), see section "14.1 Installing the filter".

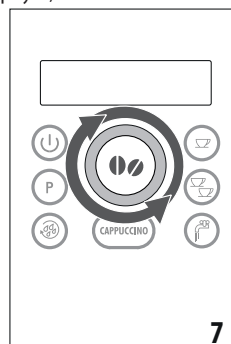
6.3 Replacing the filter

For instructions on how to replace the filter (C4), see section "14.2 Replacing the filter".

6.4 Set time

To adjust the time on the display (B1), proceed as follows:

1. Press the **P** button (B4) to enter the menu;
2. Turn the selection dial (B2) (fig. 7) until the required function is displayed;



3. Press the  button (B9) (fig. 3);
 4. Turn the selection dial (fig. 7) to change the hours;
 5. Press the  button to confirm;
 6. Turn the selection dial (fig. 7) to change the minutes;
 7. Press the  button to confirm.
- The time is set: press the  button (B5) to exit the menu.

6.5 Auto-start

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.

Please note:

To enable this function, the time must already be set correctly.

To enable auto-start, proceed as follows:

1. Press the **P** button (B4) to enter the menu;
2. Turn the selection dial (B2) (fig. 7) until the required function is displayed;
3. Press the  button (B9);
4. Press the  button to confirm activation;
5. Turn the selection dial to choose the hours;
6. Press the  button to confirm;
7. Turn the selection dial (fig. 7) to change the minutes;
8. Press the  button to confirm;
9. Press the  button (B5) to exit the menu.

Once the time has been confirmed, activation of auto-start is indicated by the  symbol displayed alongside the time and under "Auto-start" in the menu.

To disable the function:

1. Select auto-start from the menu;

2. Press the  button. "Disable?" is displayed;
 3. Press the  button to confirm.
- The  symbol is no longer displayed.

6.6 Auto-off

The time can be changed so that the appliance switches off after 15 or 30 minutes, or after 1, 2 or 3 hours.

To re-programme Auto-off, proceed as follows:

1. Press the **P** button (B4) to enter the menu;
2. Turn the selection dial (B2) (fig. 7) until the required function is displayed;
3. Press the  button (B9);
4. Turn the selection dial (fig. 7) until the required operating time (15 or 30 minutes, or 1, 2 or 3 hours) is displayed;
5. Press the  button to confirm;
6. Press the  button (B5) to exit the menu.

Auto-off is now programmed.

6.7 Energy saving

Use this function to enable or disable energy saving. When enabled, the function reduces energy consumption in compliance with current European regulations.

When energy saving mode is active, an asterisk appears under "Energy Saving" in the menu.

To enable or disable energy saving, proceed as follows:

1. Press the **P** button (B4) to enter the menu;
2. Turn the selection dial (B2) (fig. 7) until the required function is displayed;
3. Press the  button (B9);
4. Press the  button to enable or disable energy saving mode;
5. Press the  button (B5) to exit the menu.

When the function is active, if the machine is not used for some time, "Energy saving" is displayed.

Please note:

- When in energy saving mode, a few seconds elapse before the first coffee, cappuccino or milk-based coffee is delivered as the appliance must heat up again.
- To prepare any drink, press any button to exit energy saving, then press the button corresponding to the drink you want to make.
- If the milk container (D) is inserted, "Energy Saving" cannot be activated.

6.8 Setting the temperature

To modify the temperature of the water used to make the coffee, proceed as follows:

1. Press the **P** button (B4) to enter the menu;
2. Turn the selection dial (B2) (fig. 7) until the required function is displayed;
3. Press the  button (B9);

4. Turn the selection dial until the required temperature (●=low; ●●●●=high) appears on the display;
5. Press the  button to confirm;
6. Press the  button (B5) to exit the menu.

6.9 Setting water hardness

For instructions on setting water hardness, see section "13. Setting water hardness".

6.10 Enable/disable the beep

This activates or deactivates the beep emitted by the machine each time the buttons are pressed or an accessory is inserted/removed. The beep is active by default. To disable or enable the beep, proceed as follows:

1. Press the **P** button (B4) to enter the menu;
2. Turn the selection dial (B2) (fig. 7) until the required function is displayed;
3. Press the  button (B9);
4. Press the  button to enable or disable the beep;
5. Activation of the beep is indicated by an asterisk below the "Beep" item in the menu. Press the  button (B5) to exit the menu.

6.11 Setting the language

To modify the language of the display (B1), proceed as follows:

1. Press the **P** button (B4) to enter the menu;
2. Turn the selection dial (B2) (fig. 7) until the required function is displayed;
3. Press the  button (B9);
4. Turn the selection dial until the required language appears on the display;
5. Press the  button to confirm;
6. A message confirming the language installed is displayed;
7. Press the  button (B5) to exit the menu.

6.12 Cup light

This function enables or disables the cup lights (A21). The lighting is enabled by default. The lights come on each time coffee or cappuccino is made and during each rinse cycle.

To disable or enable this function, proceed as follows:

1. Press the **P** button (B4) to enter the menu;
2. Turn the selection dial (B2) (fig. 7) until "Cup lighting" appears on the display (B1);
3. Press the  button (B9). "Disable?" or "Enable?" appears on the display (B1);
4. Press the  button to enable or disable the cup lighting;
5. When the function is active, an asterisk appears under "Cup lighting" in the menu. Press the  button (B5) to exit the menu.

6.13 Default values (reset)

This resets all menu settings and programmed quantities back to the default values (with the exception of the language which remains as set).

To reset the default values, proceed as follows:

- 1. Press the **P** button (B4) to enter the menu;
- 2. Turn the selection dial (B2) (fig. 7) until the required function is displayed;
- 3. Press the  button (B9);
- 4. Press the  button again to confirm and exit.

6.14 Statistics function

This displays statistics relating to the machine. To view the statistics, proceed as follows:

- 1. Press the **P** button (B4) to enter the menu;
- 2. Turn the selection dial (B2) (fig. 7) until the required function is displayed;
- 3. Press the  button (B9);
- 4. Statistics on the appliance appear on the display (D6), Turn the selection dial (fig. 7) to scroll through the items;
- 5. Press the  button (B5) twice to exit the menu.

7. RINSING

Use this function to deliver hot water from the coffee spouts (A14) and hot water spout (C6), if inserted, to clean and heat the appliance's internal circuit.

Place a container with a minimum capacity of 100ml under the coffee and hot water spouts (fig. 4).

Important! Danger of burns!

Do not leave the appliance unattended while hot water is being delivered.

- 1. To enable this function, press the  button (B5). "RINSING, Please wait" appears on the display (B1);
- 2. After a few seconds, hot water is delivered first from the coffee spouts, then from the hot water spout (if inserted) to clean and heat the appliance's internal circuit. "RINSING" appears on the display, together with a progress bar which fills gradually as preparation proceeds;
- 3. To stop the process press any button or wait for delivery of water to stop automatically.

Please note:

- If the appliance is not used for more than 3-4 days, when you turn it on again, we strongly recommend performing 2/3 rinses before use;
- After cleaning, it is normal for the coffee grounds container (A14) to contain water.

8. MAKING COFFEE

8.1 Selecting the coffee taste

The appliance is set by default to make coffee with a standard taste.

Any one of these tastes can be selected:

- Extra-light taste
- Light taste
- Standard taste
- Strong taste
- Extra-strong taste

To change the taste, press the aroma selection button  (B6) (fig. 8) repeatedly until the required taste appears on the display (B1).



8.2 Selecting the quantity of coffee in the cup

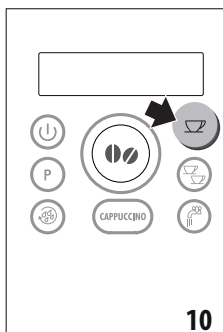
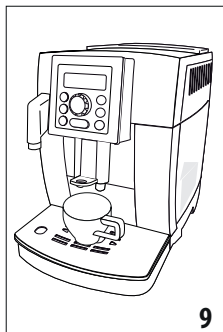
The appliance is set by default to make a standard quantity of coffee. To select the quantity of coffee, turn the selection dial (B2) (fig. 7) until the message corresponding to the required quantity of coffee appears on the display (B1):

Coffee selected	Quantity in cup (ml)
MY COFFEE	Programmable: from ≈20 to ≈180
SHORT	≈40
STANDARD	≈60
LONG	≈90
EXTRA LONG	≈120

8.3 Customising the "my coffee" quantity

The machine is set by default to automatically deliver 30ml of "my coffee". To modify this quantity, proceed as follows:

- 1. Place a cup under the coffee spouts (A13) (fig. 9);



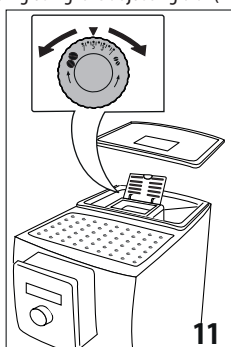
2. Turn the selection dial (B2) (fig. 8) until "MY COFFEE" is displayed;
3. Press the  button (B7) (fig. 10) until the appliance starts delivering coffee, then release the button;
4. As soon as the coffee in the cup reaches the required level, press the  button (fig. 10) again.

The quantity of coffee in the cup has now been programmed.

8.4 Adjusting the coffee mill

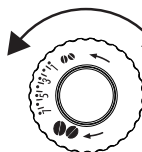
The coffee mill is set by default to prepare coffee correctly and should not require regulating initially.

However, if after making the first few coffees you find that the coffee is either too weak and not creamy enough or delivery is too slow (a drop at a time), this can be corrected by calibrating the coffee grinding using the adjusting dial (A2) (fig. 11).



Please note:

The grinding adjustment dial must only be turned when the coffee mill is in operation.



If the coffee is delivered too slowly or not at all, turn one click clockwise towards 7.

For fuller bodied creamier coffee, turn one click anticlockwise towards 1 (do not turn more than one click at a time otherwise the coffee could be delivered a drop at a time).

The effect of the adjustment will be noticed only after making a further 2 cups of coffee, at least. If this adjustment does not produce the desired result, turn the dial another click.

8.5 Tips for a hotter coffee

For hotter coffee, proceed as follows:

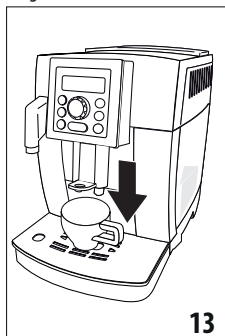
- perform a rinse cycle before delivery by pressing the  button (B5), as described in section "8. making coffee";
- warm the cups with hot water using the hot water function (see section "10. Hot water");
- select the "high" coffee temperature in the menu (see section "6.8 Setting the temperature").

8.6 Making coffee using coffee beans

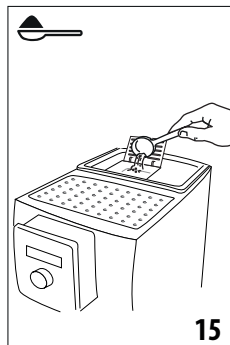
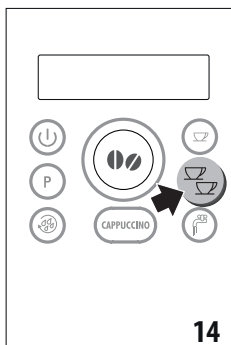
Important!

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

1. Fill the beans container (A7) (fig. 12) with coffee beans;



2. Place under the coffee spouts (A14):
 - 1 cup if you want 1 coffee (fig. 9);
 - 2 cups, if you want 2 coffees.
3. Lower the spouts as near as possible to the cup. This makes a creamier coffee (fig. 13);
4. Press the button corresponding to the number of coffees required (1 cup  B7 or 2 cups  B8) (figs. 10 and 14);



- Preparation begins. The amount of coffee selected appears on the display (B1) together with a progress bar which gradually fills as preparation progresses.

Please note:

- While the machine is making coffee, delivery can be interrupted at any moment by pressing any button.
- At the end of delivery, to increase the quantity of coffee in the cup, just press and hold (within 3 seconds) one of the coffee buttons (☕ or ☕).

Once the coffee has been made, the appliance is ready to make the next beverage.

Please note:

- Various alarm messages could be displayed while using the appliance (FILL TANK, EMPTY GROUNDS CONTAINER, ETC.). Their meaning is explained in section "16. Displayed messages".
- For hotter coffee, see section "8.5 Tips for a hotter coffee".
- If the coffee is delivered a drop at a time, too weak and not creamy enough or too cold, read the tips in section "17. Troubleshooting".

8.7 Making coffee using pre-ground coffee

Important!

- 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 machine.
- Never use more than 1 level measure (C2) or it could dirty the inside of the coffee machine or block the funnel (A6).



Please note:

When using pre-ground coffee, only one cup can be made at a time.

- Press the ☕ button (B6) (fig. 7) until "Pre-ground" appears on the display (B1).
- Make sure the funnel is not blocked, then add one level measure of pre-ground coffee (fig. 15).

- Place a cup under the coffee spouts (A14, fig. 9).
- Press the 1 cup coffee button ☕ (B7)(fig. 10).
- Preparation begins. The amount of coffee selected appears on the display together with a progress bar which gradually fills as preparation progresses.

Please note:

If "Energy Saving" mode is active, you may have to wait a few seconds before the first coffee is delivered.

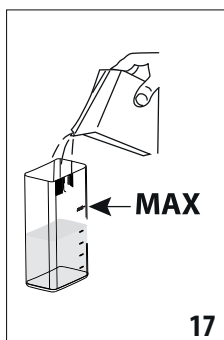
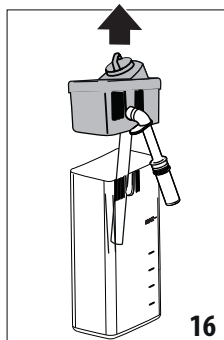
9. MAKING CAPPUCCINOS AND MILK-BASED COFFEES

Please note:

- To avoid milk with poor froth or large bubbles, always clean the milk container lid (D2) and hot water connection nozzle (A13) as described in sections "9.6 Cleaning the milk container after use", "11.10 Cleaning the milk container" and "11.11 Cleaning the hot water/steam connection nozzle".

9.1 Filling and attaching the milk container

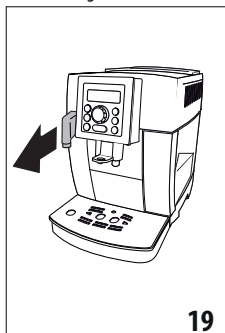
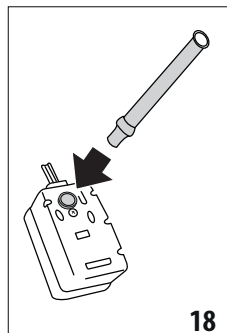
- Remove the lid (D2) (fig. 16);



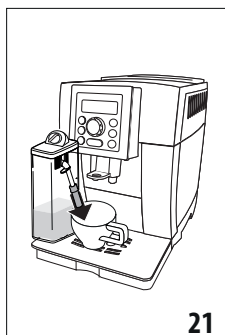
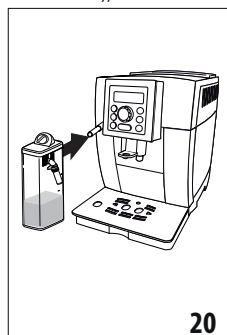
- Fill the milk container (D3) with a sufficient quantity of milk, not exceeding the MAX level marked on the container (fig. 17). Each mark on the side of the container corresponds to 100ml of milk;

Please note:

- For a denser more even froth, you must use skimmed or partially skimmed milk at refrigerator temperature (about 5°C).
 - If "Energy Saving" mode is enabled, you may have to wait a few seconds before the first cappuccino is delivered.
3. Make sure the milk intake tube (D4) is correctly inserted in the bottom of the milk container lid (fig. 18);



4. Place the lid back on the milk container;
5. Remove the hot water spout (C6) from the connection nozzle (A13) (fig. 19);
6. Attach the container to the connection nozzle and push as far as it will go (fig. 20). The machine emits a beep (if enabled);



7. Place a sufficiently large cup under the coffee spouts (A14) and frothed milk spout (D5). Adjust the length of the milk spout. To move it nearer the cup, simply pull it downwards (fig. 21);
8. Follow the instructions below for each individual function.

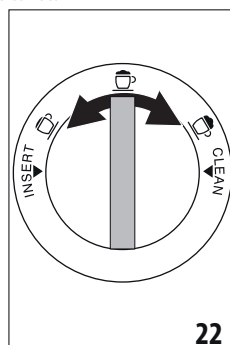
9.2 Adjusting the amount of froth

Turn the froth adjustment dial (D1) to adjust the amount of froth on the milk delivered while making cappuccinos .

Dial position	Description
	No froth
	Min. froth
	Max. froth

9.3 Making cappuccino

- After attaching the milk container (D), turn the froth adjustment dial (D1) on the milk container lid (D2) to the required position (fig. 22);
- Press the CAPPUCCINO button (B10). "CAPPUCCINO" appears on the display (B1), together with a progress bar which fills gradually as preparation proceeds;
- After delivering the milk, the machine automatically makes the coffee.

**Please note:**

- During delivery, if you want to stop making milk or coffee, press the CAPPUCCINO button twice.
- Do not leave the milk container out of the refrigerator for long periods. The warmer the milk (5°C is ideal), the poorer the quality of froth produced.

SOME MODELS ONLY*9.4 Making frothed milk (without coffee)**

Proceed as described in the previous paragraph, pressing CAPPUCCINO button twice instead of once.

Please note:

During delivery, if you want to stop preparation, press the CAPPUCCINO button once.



9.5 Making milk (unfrothed and without coffee)

Proceed as described in paragraph "9.3 Making cappuccino", turning the froth dial (D1) to the  position.

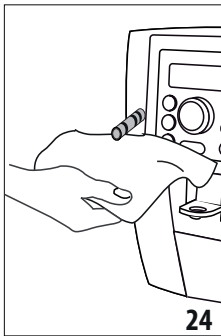
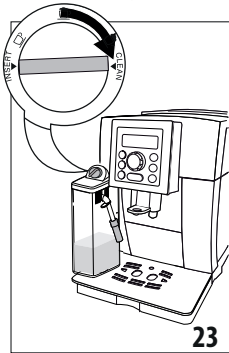
9.6 Cleaning the milk container after use

Important! Danger of scalding

When cleaning the internal tubes of the milk container (D), a little hot water and steam leak out of the milk spout (D5). Avoid contact with splashes of water.

"SET DIAL TO CLEAN" appears on the display (B1) each time you use a milk function. To eliminate all milk residues, proceed as follows:

1. Leave the milk container (D) in the machine (you do not need to empty it);
2. Place a cup or other recipient under the frothed milk spout (fig. 21);
3. Turn the froth adjustment dial (D1) to "CLEAN" (fig. 23). A progress bar appears on the display and gradually fills as the operation proceeds together with the message "Cleaning underway, Please wait". Cleaning stops automatically;



4. Turn the dial back to one of the froth selections;
5. Remove the milk container and always clean the steam connection nozzle (A13) with a sponge (fig. 24).

Please note:

- To prepare a number of cappuccinos or milk-based coffees, clean the milk container after you have prepared the last beverage only.
- The milk container can be kept in the refrigerator.
- In some cases, before cleaning you must wait for the appliance to heat up.

9.7 Programming the quantity of coffee and milk in the cup for cappuccin

The appliance is set by default to automatically deliver standard quantities. To change these quantities, proceed as follows:

1. Place a cup under the coffee spouts (A14) and milk spout (D5) (fig. 21);

2. Press and hold the CAPPUCCINO BUTTON (B10) until the message "PROGRAM MILK Program Quantity" appears on the display (B1);
3. Release the button. The appliance starts delivering milk;
4. Once the required quantity of milk has been delivered into the cup, press the CAPPUCCINO button again;
5. The appliance stops delivering milk and after a few seconds the coffee is delivered into the cup. "PROGRAM COFFEE Program quantity" is displayed;
6. Once the required quantity of coffee has been delivered into the cup, press the CAPPUCCINO button again. The flow of coffee stops.

The machine is now reprogrammed with the new milk and coffee quantities.

10. HOT WATER

Important! Danger of burns.

Never leave the machine unattended while delivering hot water. The hot water spout (C6) becomes hot during delivery. Hold by the handle only.

1. Make sure the hot water spout is attached correctly;
2. Place a container under the spout (as close as possible to avoid splashes);
3. Press the  button (B9) (fig. 4). "HOT WATER" appears on the display (B1), together with a progress bar which fills gradually as preparation proceeds;
4. The machine delivers about 250 ml of hot water, then delivery stops automatically. To interrupt delivery of hot water manually, press the  button again.

Please note:

If "Energy Saving" mode is active, there may be a few seconds pause before the hot water is delivered.

10.1 Changing the quantity of water delivered automatically

The machine is factory-set to deliver 250 ml of hot water automatically. To change this quantity, proceed as follows:

1. Position a container under the hot water spout (C6);
2. Press and hold the  button (B9) until the appliance starts delivering hot water, then release the  button.
3. When the hot water in the cup reaches the required level, press the  button again.

The machine is now reprogrammed with the new quantity.

11. CLEANING

11.1 Cleaning the machine

The following parts of the machine must be cleaned regularly:

- internal circuit of the machine;
- coffee grounds container (A15);

- drip tray (A19), tray grill (A21) and condensate tray (A16);
- water tank (A10);
- coffee spouts (A14);
- pre-ground coffee funnel (A6);
- infuser (A12), accessible after opening the infuser door (A11);
- milk container (D);
- hot water/steam connection nozzle (A13);

Important!

- Do not use solvents, abrasive detergents or alcohol to clean the coffee machine. With De'Longhi superautomatic coffee machines, no chemical products are required for cleaning purposes.
- None of the components of the appliance can be washed in a dishwasher with the exception of the milk container (D).
- Do not use metal objects to remove encrustations or coffee deposits as they could scratch metal or plastic surfaces.

11.2 Cleaning the internal circuit

If the appliance is not used for more than 3/4 days, before using it again, we strongly recommend switching it on and:

- run 2/3 rinse cycles by pressing the  button (B5);
- delivering hot water for a few seconds by pressing the  button (B9).

11.3 Cleaning the coffee grounds container

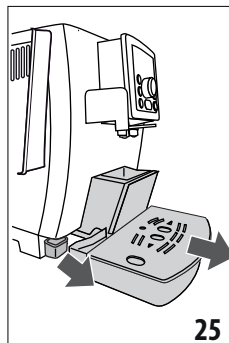
When "EMPTY GROUNDS CONTAINER" appears on the display (B1), the grounds container must be emptied and cleaned. The appliance cannot be used to make coffee until you have cleaned the grounds container (A15). Even if not full, the empty grounds container message is displayed 72 hours after the first coffee has been prepared. For the 72 hours to be calculated correctly, the machine must never be turned off with the main switch.

Important! Danger of scalding

If you make a number of cappuccinos one after the other, the metal cup tray (A17) becomes hot. Wait for it to cool down before touching it and handle it from the front only.

To clean (with the machine on):

- Remove the drip tray (A19) (fig. 25), empty and clean.



- Empty the grounds container (A15) and clean thoroughly to remove all residues left on the bottom. This can be done with the spatula on the brush (C5) (if included with your model).
- Check the condensate tray (A16) (red) and empty if necessary.

Important!

When removing the drip tray, the grounds container must be emptied, even if it contains few grounds.

If this is not done, when you make the next coffees, the grounds container will fill up more than expected and clog the machine.

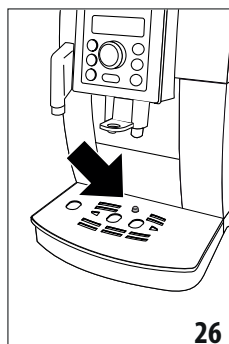
Please note:

After cleaning, it is normal for the grounds container (A14) to contain water.

11.4 Cleaning the drip tray and condensate tray

Important!

The drip tray (A19) is fitted with a level indicator (A18) (red) showing the level of water it contains (fig. 26). Before the indicator protrudes from the cup tray (A17), the drip tray must be emptied and cleaned otherwise the water may overflow the edge and damage the appliance, the surface it rests on or the surrounding area.



To remove the drip tray:

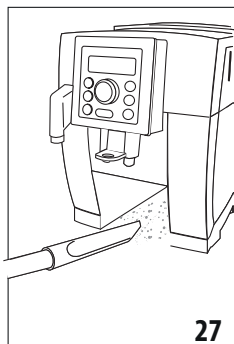
1. Remove the drip tray and the coffee grounds container (A15) (fig. 25);
2. Empty the drip tray and grounds container and wash them;
3. Check the red condensate tray (A16) and empty if necessary;
4. Replace the drip tray and grounds container.

11.5 Cleaning the inside of the machine

Danger of electric shock!

Before cleaning internal parts, the machine must be turned off (see section "5. Turning the appliance off") and unplugged from the mains power supply. Never immerse the machine in water.

1. Check regularly (about once a month) that the inside of the appliance (accessible after removing the drip tray, A19) is not dirty. If necessary, remove coffee deposits with a brush (if included with your model, use the accessory provided (C5)) and a sponge;
2. Remove all residues with a vacuum cleaner (fig. 27).

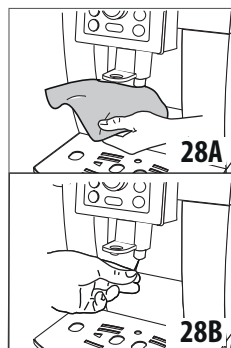


11.6 Cleaning the water tank

1. Clean the water tank (A10) regularly (about once a month and whenever you replace the water softener filter (C4) (if provided) with a damp cloth and a little mild washing up liquid;
2. Remove the filter (C4) (if present) and rinse with running water;
3. Replace the filter (if installed), fill the tank with fresh water and replace;
4. (Models with water softener filter only) Deliver about 100ml of water.

11.7 Cleaning the coffee spouts

1. Clean the coffee spouts (A14) regularly with a sponge or cloth (fig. 28A);



2. Check the holes in the coffee spouts are not blocked. If necessary, remove coffee deposits with a toothpick (fig. 28B).

11.8 Cleaning the pre-ground coffee funnel

Check regularly (about once a month) that the pre-ground coffee funnel (A6) is not blocked. If necessary, remove coffee deposits with a brush (if included with your model, use the accessory provided (C5)).

11.9 Cleaning the infuser

The infuser (A11) must be cleaned at least once a month.

Important!

The infuser cannot be extracted when the machine is on.

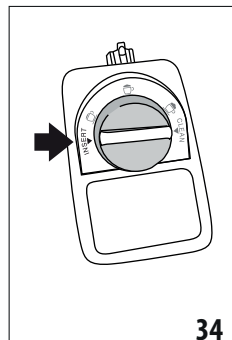
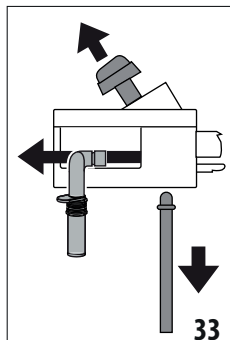
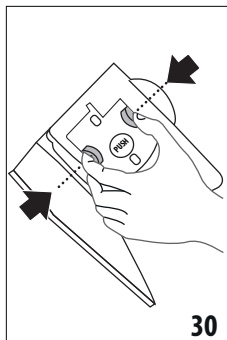
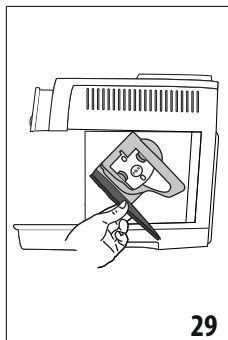
1. Make sure the machine is correctly turned off (see section "5. Turning the appliance off");
2. Remove the water tank (A10);
3. Open the infuser door (A11) (fig. 29) on the right side of the appliance;
4. Press the two coloured release buttons inwards and at the same time pull the infuser outwards (fig. 30);
5. Soak the infuser in water for about 5 minutes, then rinse under the tap;

Important!

RINSE WITH WATER ONLY

NO WASHING UP LIQUID - NO DISHWASHER

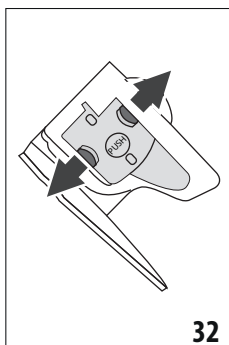
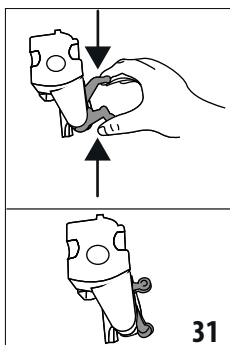
Clean the infuser without using washing up liquid as it could be damaged.



6. Use a brush (if included with your model, use the accessory provided (C5)) to remove any coffee residues left in the infuser housing, visible through the infuser door;
7. After cleaning, replace the infuser by sliding it onto the internal support, then push the PUSH symbol fully in until it clicks into place;

Please note:

If the infuser is difficult to insert, before insertion, adapt it to the right size by pressing the two levers (fig. 31).



8. Once inserted, make sure the two coloured buttons have snapped out (fig. 32);
9. Close the infuser door;
10. Put the water tank back.

11.10 Cleaning the milk container

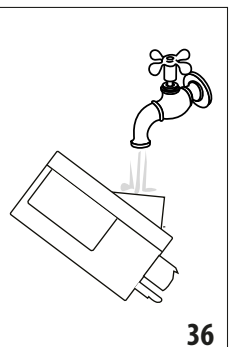
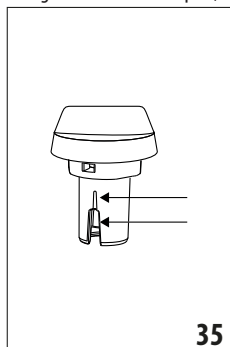
Clean the milk container (D) after use, every time that milk is prepared, as described below:

1. Remove the lid (D2);
2. Remove the milk spout (D5) and intake tube (D4) (fig. 33);
3. Turn the froth adjustment dial (D1) anticlockwise to the "INSERT" position (fig. 34) and pull off upwards;

4. **In a dishwasher (recommended):** Rinse all components and the container with hot running water (at least 40°C), then place them in the top basket of the dishwasher and run a programme at 50°C, e.g. standard ECO.

By hand: Rinse all components and the container with hot running water (at least 40°C), then immerse all the components in hot tap water (at least 40°C) with a mild/neutral washing-up liquid for at least 30 minutes. Rinse thoroughly with hot tap water.

5. Make sure there are no milk residues on the hollow and groove under the dial (fig. 35). If necessary, scrape the groove with a toothpick;



6. Rinse inside the froth adjustment dial seat with running water (fig. 36);
7. Check that the intake tube and milk spout are not clogged with milk residues;
8. Replace the dial (in correspondence to the word "INSERT"), spout and milk intake tube;
9. Place the lid back on the milk container (D3).

11.11 Cleaning the hot water/steam connection nozzle

Each time you prepare milk, clean the connection nozzle (A13) with a sponge to remove milk residues from the gaskets (fig. 24).

12. DESCALING

Important!

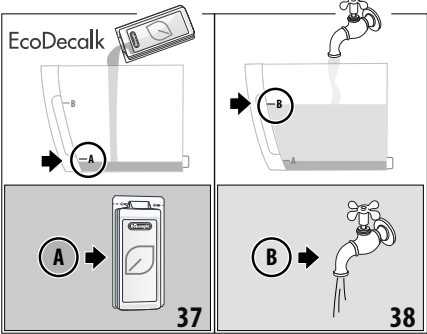
- Before use, read the instructions and the labelling on the descaler pack.
- It is important to use De'Longhi descaler only. Using unsuitable descaler and/or performing descaling incorrectly may result in faults not covered by the manufacturer's guarantee.
- Descaler could damage delicate surfaces. If the product is accidentally spilt, dry immediately.

To descale	
Descaler	De'Longhi descaler
Container	Recommended capacity: 1.8l
Time	~45min*

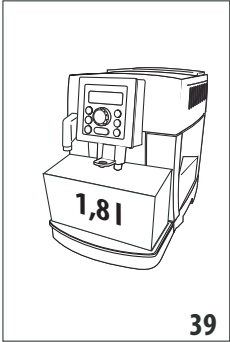
* The descaling time is approx. 20 min in some models.

Descale the machine when the message "DESCALE" flashes on the display (B1).

1. Turn the machine on and wait until it is ready for use;
2. Press the **P** button (B4) to access the menu;
3. Turn the selection dial (B2) until "Descaling" is displayed;
4. Select by pressing the  button (B9). "Descale Confirm?" appears on the display (B1). Press  again to enable the function;
5. "EMPTY DRIP TRAY" is displayed, alternating with "REMOVE FILTER" (if the filter is present) and "Add descaler. Confirm?" is displayed.
6. Empty the water tank (A10) completely and remove the water softener filter (C4) (if present). Empty the drip tray (A19) (fig. 24) and grounds container (A15), then put them back in the appliance;
7. Pour the descaler into the tank up to level **A** (corresponding to a 100ml pack) marked on the side of the tank (fig. 37), then add water (1 litre) up to level **B** (fig. 38) and put the water tank back;



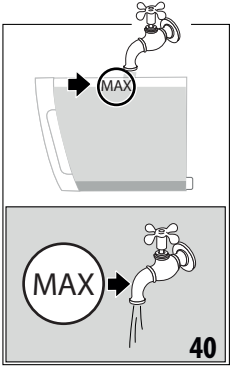
8. Place an empty container with a minimum capacity of 1.8 litres under the coffee spouts (A14) and hot water spout (C6) (fig. 39).



Important! Danger of scalding

Hot water containing acid flows out of the coffee spouts and hot water spout. Take care to avoid contact with splashes of this solution.

9. Press the  button to confirm that you have added the descaler solution. The message "Descale underway" is displayed and the descaling procedure begins. The descaler liquid comes out of the coffee spouts and hot water spout and a series of rinses and pauses is performed to remove limescale deposits from inside the machine;
- When completed the first step of descaling cycle, the appliance stops delivery and the messages "RINSING" and "FILL TANK" alternate on the display.
10. The appliance is now ready for rinsing through with clean water. Empty the container used to collect the descaler solution. Extract the water tank, empty, rinse under running water, fill with fresh water up to the MAX level (fig. 40) and put back in the appliance: "RINSING, Confirm?" is displayed;



11. Place the container used to collect the descaler solution empty under the coffee spouts and hot water spout (fig. 39);
 12. Press the  button to start rinsing. Hot water flows out of the spouts and the message "Rinsing Please wait" is displayed;
 13. When the water tank is empty, the messages "RINSING", "FILL TANK" and "REPLACE FILTER" (if previously removed) alternate on the display;
 14. Remove the water tank, replace the filter (if previously removed), fill the tank up to the MAX level with fresh water and insert it in the appliance: the display will show "RINSING Confirm?";
 15. Place the container used to collect the rinsing water empty under the hot water spout;
 16. Press the  button to restart rinsing: Hot water flows out of the hot water spout only and the message "RINSING Please wait" is displayed;
 17. When it finishes, the message "Rinsing complete, Confirm?" appears on the display;
 18. Press the  hot water button. The message "FILL TANK" is displayed;
 19. Empty the drip tray, remove and top up the water tank with fresh water to the MAX level and put back in the machine.
- The descaling cycle is now complete.

Please note:

- If the descaling cycle is not completed correctly (e.g. no electricity) we recommend repeating the cycle;
- After descaling, it is normal for the grounds container (A15) to contain water.

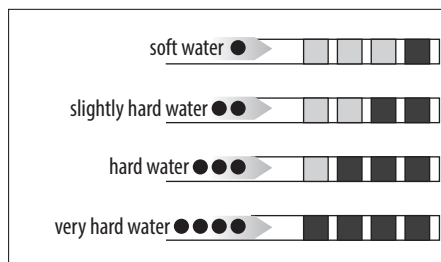
13. SETTING WATER HARDNESS

The DESCALE message is displayed after a set period of time that depends on the hardness of the water.

The machine is set by default for a hardness level of 4. The machine can also be programmed according to the hardness of the mains water in the various regions so that the machine needs to be descaled less often.

13.1 Measuring water hardness

1. Some models include an indicator paper (C1). If the indicator paper is not included with your model, contact Customer Services to buy one.
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 1 level;



13.2 Setting water hardness

1. Press the P button (B4) to enter the menu;
2. Turn the selection dial (B2) to select "Water Hardness".
3. Confirm the selection by pressing the  button (B9);
4. Turn the selection dial and set the level shown by the indicator paper (C1) (see previous section);
5. Press the  button to confirm the setting;
6. Press the  button (B5) to exit the menu.

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

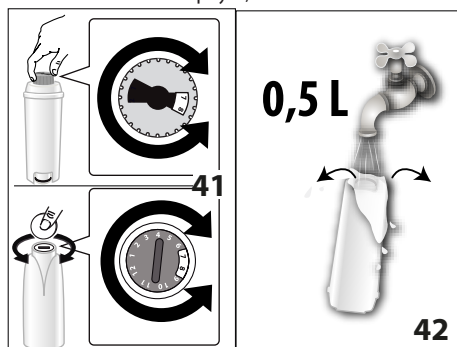
14. WATER SOFTENER FILTER

Certain models are fitted with a water softener filter (C4). If this is not the case with your model, you are recommended to purchase one from De'Longhi Customer Services.

To use the filter correctly, follow the instructions below.

14.1 Installing the filter

1. Remove the filter (C4) from the packaging;
2. Turn the date indicator disk (see fig. 41) until the next two months of use are displayed;

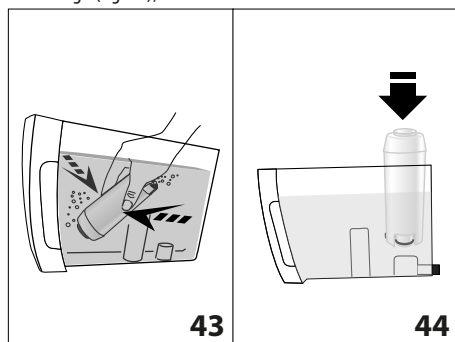


Please note:

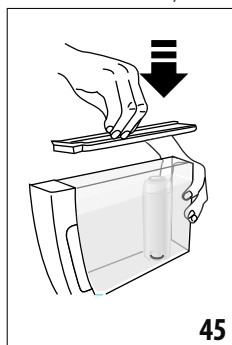
The filter lasts about two months if the appliance is used normally. If the coffee machine is left unused with the filter installed, it will last no longer than 3 weeks.

3. To activate the filter, run tap water through the hole in the filter as shown in fig. 42 until water comes out of the openings at the side for more than a minute;

4. Extract the tank (A10) from the appliance and fill with water;
5. Insert the filter in the water tank and immerse it completely for about ten seconds, sloping it to enable the air bubbles to escape (fig. 43);
6. Insert the filter in the filter housing and press as far as it will go (fig. 44);



7. If provided, close the tank with the lid (fig. 45) and then put the tank back in the machine;



8. When you install the filter you must notify the appliance of its presence.
9. Press the P button (B4) to enter the menu;
10. Turn the selection dial (B2) (fig. 7) until "Install filter" appears on the display (B1);
11. Press the  button (B9);
12. "Enable?" appears on the display;
13. Press the  button to confirm the selection. "Hot water Confirm?" is displayed;
14. Position a container under the hot water spout (C6) (min. capacity: 500 ml);
15. Press the  button to confirm the selection. The appliance begins hot water delivery and the message "Please wait" is displayed;
16. After the flow of hot water stops, the machine automatically reverts to "Ready for coffee" status.

The new filter is active and indicated by an asterisk displayed under "Install filter" in the menu. You can now use the appliance.

14.2 Replacing the filter

When "REPLACE FILTER" appears on the display (B1), after two months (see date indicator) or when the appliance has not been used for three weeks, you should replace the filter (C4):

1. Extract the tank (A10) and exhausted filter;
2. Take the new filter out of its packet and proceed as illustrated in points 2, 3, 4, 5 and 6 in the previous section;
3. Position a container with a minimum capacity of 500ml under the hot water spout;
4. Press the P button (B4) to enter the menu;
5. Turn the selection dial (B2) until "Replace filter" is displayed;
6. Press the  button (B9);
7. The message "Confirm?" is now displayed;
8. Press the  button to confirm the selection;
9. "HOT WATER Confirm?" is displayed;
10. Press the  button to confirm the selection. The appliance begins hot water delivery and the message "Please wait" is displayed;
11. After the flow of hot water stops, the machine automatically reverts to "Ready for coffee" status.

The new filter is now active and the coffee machine can be used.

14.3 Removing the filter

If you want to use the appliance without the filter (C4), you must remove it and notify the appliance of its removal. Proceed as follows:

1. Extract the tank (A10) and exhausted filter;
2. Press the P button (B4) to enter the menu;
3. Turn the selection dial (B2) (fig. 7) until "Install filter *" appears on the display (B1);
4. Press the  button (B9);
5. "Disable?" appears on the display;
6. Press the  button to confirm and the  button (B5) to exit the menu.

15. TECHNICAL DATA

Voltage:	220-240 V~ 50/60 Hz max. 10A
Absorbed power:	1450W
Pressure:	1,5MPa (15 bars)
Max. water tank capacity:	1.8 l
Size LxDxH:	240x430x350 mm
Weight (depending on models):	9.7 / 9.4 kg
Max. beans container capacity:	250 g

De'Longhi reserves the right to modify the technical specification and styling of its products at any moment, without compromising their functionality and quality.

15.1 Tips for Energy Saving

- To reduce energy consumption, after delivering one or more beverages, remove the container (D) or accessories.
- Set auto-off to 15 minutes (see section "6.6 Auto-off"):
- Enable Energy Saving (see section "6.7 Energy saving");
- When requested by the machine, perform the descaling cycle.

16. DISPLAYED MESSAGES

DISPLAYED MESSAGE	POSSIBLE CAUSE	REMEDY
FILL TANK	Insufficient water in the tank (A10).	Fill the tank with water and/or insert it correctly, pushing it as far as it will go until it clicks into place (fig. 2).
	The tank (A12) is not correctly in place.	Insert the tank correctly and press as far as it will go (fig. 2).
EMPTY GROUNDS CONTAINER	The grounds container (A15) is full.	Empty the grounds container and drip tray (A19), clean and replace (fig. 24). Important: when removing the drip tray, the grounds container MUST be emptied, even if it contains few grounds. 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 (A15) has not been replaced.	Remove the drip tray (A19) and insert the grounds container.
ADD PRE-GROUND COFFEE	The "pre-ground coffee" function has been selected without placing any pre-ground coffee in the funnel (A6).	Place pre-ground coffee in the funnel (fig. 11) or deselect the "pre-ground" function.
GROUND TOO FINE ADJUST MILL	The grinding is too fine and the coffee is delivered too slowly or not at all.	Repeat coffee delivery and turn the grinding adjustment dial (A2) (fig. 11) one click clockwise towards 7 while the coffee mill is in operation. If after making at least 2 coffees delivery is still too slow, repeat the correction procedure, turning the grinding adjustment dial another click (see section "8.4 Adjusting the coffee mill"). If the problem persists, make sure the water tank (A10) is fully inserted.
	If the water softener filter (C4) is present, an air bubble may have been released inside the circuit, obstructing the flow.	Insert the hot water spout in the appliance and deliver a little water until the flow becomes regular.
DESCALE	The machine must be descaled.	The descaling procedure described in section "12. Descaling" needs to be performed.
→		

DISPLAYED MESSAGE	POSSIBLE CAUSE	REMEDY
LESS COFFEE	Too much coffee has been used.	Select a milder taste by pressing the dial  (B6) (fig. 8) or reduce the quantity of pre-ground coffee.
FILL BEANS CONTAINER	The coffee beans have run out.	Fill the beans container (A7) (fig. 11).
	The pre-ground coffee funnel (A6) is clogged.	Empty the funnel with the help of the brush (C5) as described in section "11.8 Cleaning the pre-ground coffee funnel".
INSERT INFUSER ASSEMBLY	The infuser (A12) was not replaced after cleaning.	Insert the infuser as described in section "11.9 Cleaning the infuser".
INSERT TANK	The tank (A10) is not correctly in place.	Insert the tank correctly and press as far as it will go (fig. 3B).
GENERAL ALARM	The inside of the appliance is very dirty.	Clean the inside of the appliance thoroughly, as described in section "11. Cleaning". If the message is still displayed after cleaning, contact a customer service centre.
REPLACE FILTER	The water softener filter (C4) is spent.	Replace the filter or remove it as described in section "14. Water softener filter"
SET DIAL TO CLEAN	Milk has been delivered recently and the tubes inside the milk container (D) must be cleaned.	Turn the froth adjustment dial (D1) to the CLEAN position.
INSERT WATER SPOUT	The hot water spout (C6) is not inserted or is inserted incorrectly.	Insert water spout as far as it will go.
INSERT MILK CONTAINER	The milk container (D) is not inserted correctly.	Insert the milk container (fig. 20) as far as it will go.
WATER CIRCUIT EMPTY FILL WATER CIRCUIT HOT WATER Confirm?	The water circuit is empty.	Press  (B9) to deliver water from the hot water spout (C6) until it flows out normally. If the problem persists, make sure the water tank (A10) is fully inserted.
PLEASE WAIT	Several milk beverages have been prepared in succession and the machine needs to reach the ideal temperature before making the next beverages.	The machine takes some time before delivering milk beverage: the delivery will start automatically.

17. TROUBLESHOOTING

Below is a list of some of the possible malfunctions.

If the problem cannot be resolved as described, contact customer services.

PROBLEM	POSSIBLE CAUSE	REMEDY
The coffee is not hot.	The cups were not preheated.	Warm the cups by rinsing them with hot water (Please note: you can use the hot water function).
	The internal circuits of the appliance have cooled down because 2/3 minutes have elapsed since the last coffee was made.	Before making coffee, rinse the internal circuits by pressing the  button (B5).
	A low coffee temperature is set.	Set a high coffee temperature in the menu.
The coffee is weak or not creamy enough.	The coffee is ground too coarsely.	Turn the grinding adjustment dial (A2) one click anticlockwise towards 1 while the coffee mill is in operation (fig. 11). Continue one click at a time until coffee delivery is satisfactory. The effect is only visible after delivering 2 coffees (see section "8.4 Adjusting the coffee mill").
	The coffee is unsuitable.	Use coffee for espresso machines.
The coffee is delivered too slowly or a drop at a time.	The coffee is ground too finely.	Turn the grinding adjustment dial (A2) one click clockwise towards "7" while the coffee mill is in operation (fig. 11). Continue one click at a time until coffee delivery is satisfactory. The effect is only visible after delivering 2 coffees (see section "8.4 Adjusting the coffee mill").
Coffee does not come out of one or both of the spouts.	The coffee spouts (A14) are blocked.	Clean the spouts with a toothpick (fig. 27B).
The milk does not come out of the milk spout (D5)	The lid (D2) of the milk container lid is dirty	Clean the milk container lid as described in section "11.10 Cleaning the milk container".
The appliance does not come on	It is not plugged into the mains socket.	Plug into the mains socket.
The infuser cannot be extracted	The appliance has not been turned off correctly	Turn the appliance off by pressing the  button (B3) (fig. 6) (see section "5. Turning the appliance off").
→		

PROBLEM	POSSIBLE CAUSE	REMEDY
The milk contains large bubbles and squirts out of the milk spout (D5) or there is little froth	The milk is not cold enough or is not semi-skimmed.	Use skimmed or semi-skimmed milk at refrigerator temperature (about 5°C). If the result is not as you wished, try changing brand of milk.
	The froth adjustment dial (D1) is incorrectly adjusted.	Adjust following the instructions in section "9.2 Adjusting the amount of froth".
	The milk container lid (D2) or froth adjustment dial (D1) is dirty	Clean the milk container lid and dial as described in section "11.10 Cleaning the milk container".
	The hot water/steam connection nozzle (A13) is dirty	Clean the connection nozzle as described in section "11.11 Cleaning the hot water/steam connection nozzle".

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