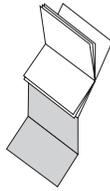




The warning triangle shows all important safety indications to ensure the user's safety. The non-observance of said instructions may cause serious injuries!



The first cover page of the manual shows figures relevant to the text. Thus, keep it open while reading the instructions.

How to use the instructions

These instructions cannot anticipate every possible use of the machine. For further information or questions concerning specific situations or problems, please contact the local dealer or manufacturer directly.

Save these instructions carefully and make sure to hand them to other users.

SAVE THESE INSTRUCTIONS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of insulated «dangerous voltage» within the product's enclosure that may be of sufficient magnitude to constitute a risk of fire or electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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Voltage rating	See rating plate on the back of the machine
Nominal power	See rating plate on the back of the machine
Dimensions (length x width x height)	approx. 385x330x395 mm
Machine case	plastic material ABS/metal
Weight	approx. 1.3 kg
Cable length	approx. 1.2 m
System	free flow thermal cut-out, alternating piston pump
Temperature control	electronic
Coffee grinder adjustment	grinding adjustment device
Coffee grounds ejection	automatic
Ground coffee dosage	coffee releasing device
Cup programming	0-250 ml approx.
Water tank	removable, transparent tank
Water regulation	electronic, continuous
Capacity	· water tank approx. 2.4 litres · bean coffee container 300 g bean coffee
Steam/hot water dispensing tube	adjustable, supplied with burn protection
Steam/hot water dispensing	adjustable, continuous
Heating time	approx. 2 min.
Brewing time	· espresso coffee approx. 20s/cup · coffee approx. 30s/cup · hot water approx. 60s/cup · milk approx. 60-90s cream/cup
Overheating protection	incorporated
Insulation	protection range I
approval	See rating plate on the back of the machine
In compliance with EN regulation	EN 60335-2-15 · EN 55014
Warranty	in compliance with the warranty certificate enclosed herein

Accessories (included in the machine price)

Measuring spoon
Central unit key
Cleaning brush
Water hardness detecting strips

The manufacturer reserves the right to make improvements to the appliance due to technological advancement.

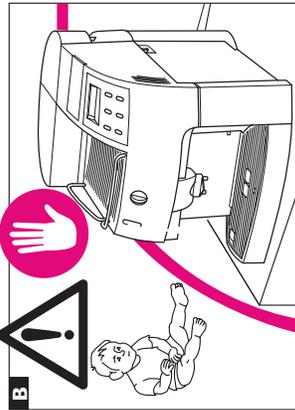


Electrical parts should never be in contact with water: danger of short-circuit! Steam and hot water may cause burns. Never direct steam or water jets towards the body; special attention must be paid when touching the steam/hot water spout and the heating plate: danger of burns!

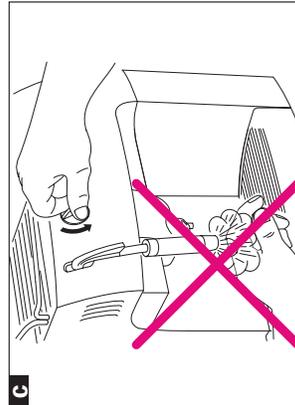
Positioning
Place the machine on a plane surface, where nobody can turn it upside down or be hurt. Hot water or overheated steam might escape from the machine: danger of burns! Never use the coffee machine outdoors or inside rooms with low temperature conditions. Do not place the machine on hot surfaces or in the proximity of open flames to avoid possible damages of the case.

C Danger of burns

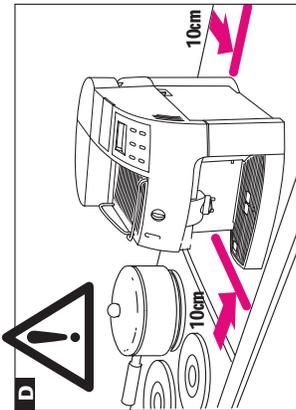
Do not direct the overheated steam or hot water jet towards you or other people. Do not touch hot surfaces, such as the steam/hot water spout.



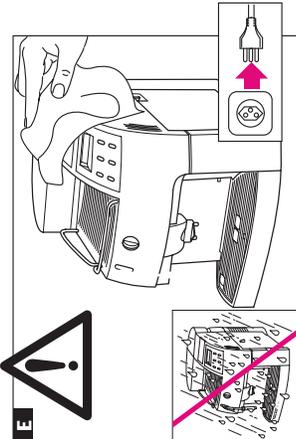
B



C



D



E

This machine must be used exclusively for the purposes it has been manufactured.

Do not make technical changes for any reason whatsoever; any improper use is forbidden, due to the risks which might occur!

Warnings

The machine shall only be used by adults and properly instructed persons.

Voltage

Never touch parts under current! They might cause electric shocks, serious injuries and death. The machine must be connected to a socket with suitable voltage. Voltage must correspond to the voltage shown on the appliance rating plate.

D Necessary space

For a proper operation of the machine it is advisable to keep to the following indications:
 - choose a levelled surface
 - choose a properly lit and hygienic room provided with accessible sockets
 - leave a minimum distance of 100 mm between the machine and the wall

E Cleaning

Before cleaning the machine, make sure to switch off all keys and unplug the machine. Wait until the machine cools down. Never plunge the machine into water! Do not tamper with the inner parts of the machine and never open the machine.

Repair/maintenance

In case of defect or suspected damage following a fall, unplug the machine immediately. Never use a defective appliance. Only skilled personnel are authorised to carry out repairs. The manufacturer declines any liability whatsoever, should repairs fail to be carried out by authorised personnel.

B Keep children away

Do not allow children to play with the machine. Children are not aware of the potential danger caused by electric appliances.

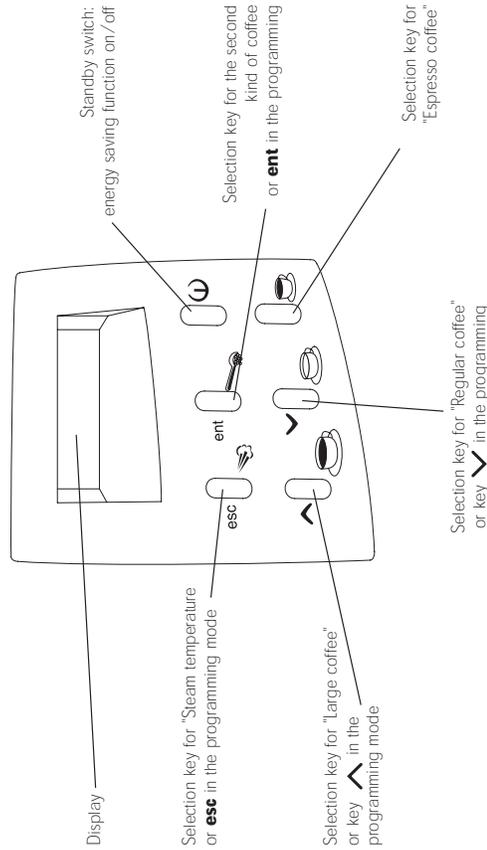
In case of fires, use carbon dioxide (CO₂) extinguishers. Never use water or powder extinguishers.

IMPORTANT SAFEGUARDS

- a) A short power-supply cord (or detachable power-supply cord) is to be provided to reduce risk resulting from becoming entangled in or tripping over a longer cord.
- b) Longer detachable power-supply cords or extension cords are available and may be used if care is exercised in their use.
- c) If a long detachable power-supply cord or extension cord is used,
- 1) The marked electrical rating of the detachable power-supply cord or extension cord should be at least as great as the electrical rating of the appliance.
 - 2) If the appliance is of the grounded type, the extension cord should be a grounding-type 3-wire cord, and
 - 3) The longer cord should be arranged so that it will not drape over the counter top or table top where it can be pulled on by children or tripped over.

- 1 Coffee grounds container
- 2 Drip tray
- 3 Cup holder surface
- 4 Main switch
- 5 Power cord
- 6 Coffee dispensing unit
- 7 Steam/hot water dispensing tube with heat protector
- 8 Control panel
- 9 Steam/hot water selection knob
- 10 Heating plate for cups
- 11 Water tank
- 12 Water tank cover
- 13 Water level
- 14 Pre-ground coffee container with cover
- 15 Coffee bean container cover
- 16 Coffee bean container
- 17 Grind adjustment lever
- 18 Coffee dosage adjustment lever
- 19 Service door
- 20 Filling funnel
- 21 Handle for assembling and disassembling of central unit
- 22 Central unit
- 23 Coffee rest drawer
- 24 Swivel

Control panel description



Unpacking/Installation

Standard packing is strong enough to protect the machine during mail shipping. Keep this package to return the machine to the manufacturer should it be necessary.

Before installing the machine, keep to the following safety indications:



Position the machine in a safe place.



Do not allow children to play with the machine.



Make sure the machine is not placed nearby hot surfaces or open flames.

Always use the machine with the swivel (24). Thus, when installing the machine, make sure to rest it directly on this support by inserting it into the slot on the lower side of the machine.

Now the machine is ready to be connected.

Power supply connection



Warning: electric current may cause death!

The coffee machine must be connected to an adequate socket. Voltage must suit to the voltage specified on the appliance rating plate.



Never use defective power cords. Defective power cords and plugs must be replaced by authorised personnel.



Should an extension cord be used, check its perfect condition. The extension cord must have a minimum section of 1,5 mm² or 16 AWG and must be supplied with a three-pole plug/socket.

Starting and use



Danger!

Electric voltage may cause death! Parts under current shall never be in contact with water: danger of short-circuit! Overheated steam and hot water may cause burns. Do not direct steam or water jet towards the body; furthermore, great attention must be given when touching either the dispensing tube or the heating plate: danger of burns!

For your own safety as well as for other people's safety, keep to the safety precautions described (see page 31).



Never use the machine without water or coffee beans.

Remove measuring spoon, brush and the central unit key from the coffee grounds container (1) and keep them within reach.

Unwind the power cord (5) from the rear side of the machine.

25

The bean coffee container (16) is attached with two screws. Remove the cover (15) and fill it with coffee beans (approx. 300 g), then replace the cover. Adjust grinding by means of the grind adjust-

ment lever (17), positioning it on point 5 of the scale.



Never fill the coffee bean container with other products. They might damage the machine!



Before filling the container with coffee beans, make sure the pre-ground coffee container is closed to prevent coffee beans from falling into it. They might damage the machine!.

26

Remove the water tank (11) from the machine, remove its cover (12) and fill it with cold water (approx. 2.4 l). A valve on the tank bottom prevents water from escaping.

Before installing the water tank in the machine, make sure the coffee bean container cover is properly fitted.

Install the water tank, slightly pressing over it to fit the valve which will open automatically. Replace the cover on the tank.



Do not fill the tank with an excessive quantity of water.



Always fill the tank with fresh water: hot water as well as other fluids might damage the tank.



Do not switch on the machine if the water tank is empty. Before using the machine make sure there is enough water in the tank.

Connect the plug to the socket and press the main switch.

The display shows

"WARMING UP "

Should

"ENERGY
"SAVING "

(1/2) be displayed. press the Energy saving switch to deactivate the energy saving mode.

Drainage

Direct the steam/hot water dispensing tube (7) over the drip tray (2). Place a cup or another suitable container under the dispensing tube, then turn the steam/hot water knob (9) counterclockwise. The pump starts automatically. Wait until a regular water jet is obtained, then close the knob. The machine is now drained and ready to work. The display shows

"ECONOMIE
"ENERGIE "

Important: It is advisable to drain the machine before the first start, after a prolonged period the machine has not been used or whenever the water tank has been completely emptied. Furthermore, should the pump be defective, the display shows

"VENTILATE "

Programming the coffee machine

27

To enter the programming mode, press the key ENT (pre-ground coffee) when the machine is on and keep it pressed until the first two lines of

the programming mode are displayed:

"LANGUAGE
"RINSING "

At the end of the line appears a blinking asterisk, which can be moved up and down with the keys \blacktriangleleft \blacktriangleright (up and regular coffee).

The display shows the following items in this sequence:

LANGUAGE
RINSING
WATER HARDN.
CUP HEATER
TEMPERATURE
PREBREWING
PREGRINDING
TOTAL COFFEES
DESCALING
SIGNAL_DESCAL.
TIMER
RINSING CYCLE

Then, press **ESC**. The machine is now in the normal mode again.

Selecting menu items

Select the different menu items by means of the keys \blacktriangleleft \blacktriangleright . The key **ent** allows you to activate the selected item. It is possible to modify the selected figures in a menu item using the keys \blacktriangleleft \blacktriangleright . The key **ent** memorizes the selected options, for instance ON for the item cup heater.

Should you accidentally change some data, press **esc** to leave the menu item without saving the new options which were selected accidentally.

Selecting the language

Move the asterisk at the end of the line to the menu item LANGUAGE using the keys \blacktriangleleft \blacktriangleright . Press **ent** to activate this item.

The display shows:

"LANGUAGE
"ENGLISH "

The keys \blacktriangleleft \blacktriangleright allow you to change the set options: Deutsch, italiano, français, english, español, portugues.

Rinsing cycle function

If the rinsing cycle function is activated, the machine that is started after a period of inactivity starts a water rinsing cycle to the coffee dispensing units automatically.

Move the asterisk to the menu item RINSING CYCLE using the keys \blacktriangleleft \blacktriangleright and press ENT to activate it. The display shows:

"RINSING
"ON "

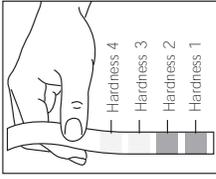
You can modify the chosen item with the key \blacktriangleleft \blacktriangleright : on; off.

Water hardness adjustment

In order to adjust the water hardness, it is necessary to test the water using the strip supplied with the machine. Dip the strip into the water for a second, shake off excess water gently, wait approx. 1 minute and read the results.

Move the asterisk at the end of the line to the menu item WATER HARDN. using the keys \blacktriangleleft \blacktriangleright . Press **ent** to activate this item. The display shows:

"WATER HARDN
"HARDNESS 2 "



The keys allow you to change the set options: hardness 1 (very soft), hardness 2 (soft), hardness 3 (medium), hardness 4 (hard).

Activating the cup heater

Move the asterisk at the end of the line to the menu item CUP HEATER. Press **ent** to activate this function.

The display shows:

"CUP HEATER"
"ON"

The keys **▲▼** allow you to change the set options: on, off.

Selecting temperature

Move the asterisk at the end of the line to the menu item TEMPERATURE using the keys **▲▼**. Press **ent** to activate this item.

The display shows:

"TEMPERATURE"
"MEDIUM"

The keys **▲▼** allow you to change the set options: minimum, low, medium, high, maximum.

Selecting the prebrewing function

As soon as the coffee has been moistened, the pump stops for a while. Then, the brewing cycle continues.

This figure cannot be changed. To leave this menu, press **ent** or **esc**.

Descaling

Move the asterisk at the end of the line to the menu item DESCALING using the keys **▲▼**. Press **ENT** to activate the item.

The display shows:

"DESCALING"

On descaling see page 44.

In programming function, by pressing keys, move the asterisk till the end of the line on the menu **Sign. Descal.** and confirm the selection with **ENT** button.

The following message will be displayed:

"RESET DESCALING"
"NO"

By means of the same keys, it is possible to modify the value; Yes, or no.

If the function **"SIGN. DESCAL."** is selected without the display message Descal., the following message will be displayed:

"QUANTITY WATER"
"NOT REACHED"

To enter the programming mode, press the Key **ENT**.

Timer

The timer enables the automatic switching off of the machine after a preset period, which can be set from 15 minutes to 12 hours after last dispensing.

If after a few seconds coffee is brewed again, the timer is reset. If the value set is 0:00, the timer function is not activated and the machine does not switch off.

Move the asterisk at the end of the line to the menu item TIMER by means of the keys **▲▼**. Press **ent** to activate this item.

The display shows:

"STANDBY"
"AFTER 0:00"

The keys **▲▼** allow you to set the time periods. Save by means of the **ent** key.

If the set time has already passed, the display shows:

"ENERGY"
"SAVING"

and the machine switches off. If necessary, you can switch on the machine again by means of the energy saving switch.

Rinsing cycle

This appliance is equipped with a rinsing cycle program for the usual, daily and weekly rinsing. If regularly used, this program effectively eliminates the greasiness of coffee in inaccessible parts and avoids alterations in the taste of coffee.

Depending on the way the appliance is used, it is advisable to rinse it every month or after max. 250 cups of coffee. The rinsing cycle lasts about 5 minutes, and it is divided into 4 cycles, including the rinsing with cold water. Each cycle is followed by a short pause of about 40 seconds.



Never stop the rinsing cycle.

Important: before starting the rinsing cycle, always fill completely the water tank and put a capacious container (min. 1 litre) under the coffee dispensing unit, which is height-adjustable and can be removed for cleaning.

The rinsing cycle needs about 1 litre of water (including final rinsing). From time to time, empty the water tank.

By using the keys **↖↗** move the asterisk to the menu item **RINSING CYCLE**. To enable this menu item use the **ENT** key.

The following message appears on the display:

"RINSING CYCLE "

This function starts the rinsing cycle with water of those parts concerned with the coffee dispensing. When the rinsing cycle ends, the following message appears on the display:

"SELECT PRODUCT "
"READY FOR USE "

Dosage of ground coffee

28

The coffee dosage adjustment lever (18) allows the selection of the coffee quantity, from 6 to 9 grams.

Place the adjustment lever (18) on the required position.

Recommendations

Test

If the machine has not been used for a prolonged period, it is advisable for hygienic

reasons to run a rinse cycle through the machine.

Place a cup under the dispensing tube (7) and operate the steam/hot water (9) knob. Fill a cup with water.

Preheating cups

Cups may be preheated by placing them on the heating plate.

Temperature led

When connecting the machine, the display shows

"WARMING UP "

As soon as the operating temperature has been reached, the display shows

"SELECT PRODUCT "
"READY FOR USE "

Empty coffee bean container warning light

"COF. BEANS EMPTY "
"READY FOR USE "

When this led is on, the coffee grinder stops. Fill the container with coffee beans and restart the cycle.

Empty water tank warning light

"WATERTANK EMPTY "

An empty water tank causes the cycle to stop automatically. Fill the tank with water and restart the cycle.

Grounds container warning light

"DREGDRAWER FULL "
"READY FOR USE "

This message appears on the display as soon as there are 30 coffee grounds in the container. The machine though does not stop. Remove the grounds container and empty it.

Grind

If the coffee flows too quickly (coarse grind) or too slowly (fine grind) into the cup, adjust the coffee grinder:

Recommended grind level: position 5
Grind too coarse = adjust to a lower value (for instance from 5 to 3)
Grind too fine = adjust to a higher value (for instance from 5 to 7).



Adjust the grind level only when the coffee grinder is running.
Avoid extreme adjustment (for instance, on position 1) whenever possible. It is preferable to try another coffee blend, because not all coffee blends are suitable.

Coffee

Make sure coffee is fresh. An espresso roast is preferable.

In order to obtain a strong and aromatic espresso coffee, use special blends suitable for espresso coffee machines and special cups with thick sides.

Keep coffee in a cool place, in an hermetically sealed container.

Water quality

In addition to blend, grind and water temperature, the water quality is of the utmost importance for the brewing of a good coffee. Thus, the use of a decalcifier to remove limescale and eliminate any unpleasant taste and organic impurities from water, is strongly recommended. Furthermore a water decalcifier partially eliminates limescale from water, thus protecting the machine heating system from chemical buildup and prolonging its working life.
The water tank must be emptied daily and filled with fresh water.

Operation time

The machine may be kept on all day long. However, it is advisable to activate the energy saving mode after the last use. Press the Energy saving switch. If the timer has been programmed, the machine switches on automatically. See page 35.

Should the machine not be used for a prolonged period (e.g. during the night) it is advisable to switch the main switch (4) off.

Switching off the machine

Switch the machine off only after the coffee cycle has been concluded.

Brewing

Cup level filling

This machine allows the precise dosage of the coffee quantity according to the cup dimension.

By means of the 3 selection keys  the desired coffee quantity can be chosen. The display shows the selected quantity.

Cup level adjustment

To set the quantity of coffee to be dispensed, press the selection key corresponding to the right quantity and keep it pressed while the coffee is dispensed into the cup. Release the key only when the right level has been reached (max. 250 ml). As soon as the dosage programming mode gets activated, the display shows:

"1 SMALL COFFEE "
"PROGR. QUANTITY "

Warning! If activated, the pre-brewing function will be performed.

Double quantity of coffee i.e. 2 cups of coffee

If one of the three selection keys (no matter which one) is pressed twice before coffee brewing, the machine will brew a double quantity of coffee.

Coffee beans

29 This machine grinds a portion of fresh coffee for each cup; for two cups, it grinds two portions of coffee, one after the other thus ensuring optimum coffee quality.



Before any use, make sure the steam/hot water knob is closed.

Adjust the desired grinding degree: the recommended average value is 5.



The grinding degree must be adjusted only when the coffee grinder is operating, otherwise it may be damaged.

Place one or two preheated cups on the grill (3) under the dispenser (6). Press the relevant selection key. The machine will automatically dispense the selected coffee.

The coffee flow may be stopped at any moment by pressing any selection button (except the standby switch), for instance when an excessive quantity of water has been selected. Should you interrupt the coffee flow after the first of two coffees has been brewed, the second is not dispensed.

Pre-ground coffee



Make sure to use pre-ground coffee only (medium ground). Never use whole beans or soluble coffee!



Right before making coffee, fill the container with freshly ground coffee. Remember that ground coffee ages soon, thus losing its quality.

30 Use the measuring spoon supplied to fill the container (14) with ground coffee. **Use a full measure only.**

Then, press the pre-ground coffee selection button  and the desired selection key (regular, espresso or tall coffee) to obtain a cup of coffee. It is not possible to obtain a second cup of coffee.

The coffee flow may be stopped at any moment by pressing any selection button (except the standby switch), for instance when an excessive quantity of water has been selected.

Hot water

The hot water dispensing is separate from the coffee circuit, in order to supply tasteless hot water for tea, soup etc.

31 Place a glass or cup under the steam/hot water dispensing tube (7), then slowly open knob (9), turning it counterclockwise. Hot water will be automatically dispensed. As soon as dispensing is over, close knob again.

Steam

To heat milk or other drinks.



Clean the spout with a damp cloth soon after use; otherwise, it might be difficult to remove milk residues.



After a steam outflow, always drain the machine. If the machine is not drained or drained partially, the coffee brewing program automatically stops, due to excessive temperature.



If the machine is on the steam mode , the automatic coffee brewing is prevented.

"STEAM "
"WARMING UP "

Press the steam selection button  and wait until the machine reaches the operating temperature.

"STEAM "
"READY FOR USE "

Operating temperature has been reached.

Direct the steam/hot water dispensing tube (7) over the cup holder grill (3) and slightly open knob (9), turning it counterclockwise.

Wait until the remaining water has flown out of the spout. Then move the spout outwards and immerse it into the fluid to heat.

32 Slowly open the steam/hot water knob and heat the fluid using a circular movement from the bottom to the top.

When the fluid has reached the desired temperature, close the knob and immediately clean the spout with a damp cloth.

Warning: the spout is hot, it may cause burns!

If you are not going to use the steam/hot water dispensing tube any longer, position it over the cup holder grill and deactivate the steam function by pressing the key .

"OVERTEMPERATURE "

The machine stops working and does not brew coffee. Let it cool down or open the steam/hot water knob again. Drain the machine (the pump starts automatically) until water flows regularly out of the spout (see section on Drainage, page 8) and the display shows

"HOT WATER "
"READY FOR USE "

Close the steam/hot water knob. The machine is ready to brew coffee again.

Cappuccino froth

Fill a cup 1/3 with cold fresh milk, then immerse the steam/hot water dispensing tube (7) just below the milk surface. Move the cup with a circular movement to form a thick froth. Then

immerse the dispensing tube deep into the milk to heat it.

USER MAINTENANCE INSTRUCTIONS

Incorporated safety devices

Automatic off

Should the service door be open, the machine automatically switches off and its operation is thus prevented. If the central unit is not mounted, it is possible to dispense water but not steam and coffee.

Electronic grinding time control

As soon as the coffee bean container is empty, the machine automatically stops after approx. 20 seconds. Fill the container with coffee beans. The coffee brewing cycle can be restarted.

Electronic pump delivery control

The machine switches off automatically as soon as the water tank is empty.

Automatic temperature adjustment

This adjustment controls the correct temperature for coffee, water, and steam. Coffee brewing is automatically interrupted should the water temperature be too high (safety thermostat and overheating safety device activated).

Antigravel device

Even selected coffees may contain some impurities. The coffee grinder is fitted with an antigravel device to avoid any damage. Should gravel end up into the coffee grinder, you will hear a strong and characteristic noise. Stop the machine immediately otherwise the protection sys-

tem will stop the coffee grinder after approx. 20 seconds.

Cleaning/Maintenance

Cleaning

To ensure high coffee quality and a longer working life of the machine, always keep the machine clean.



Before cleaning the machine, turn off the main switch and unplug the machine.



Before cleaning the machine, wait until it cools down.



Do not immerse the machine into water or other fluids. (It may be damaged!)



Do not wash parts of the machine in the dishwasher!



Always handdry all parts of the machine; do not dry them in the oven or microwave oven!

Water tank / Drip tray / Coffee grounds container / Coffee dispensing unit / coffee machine

33

In order to keep the service area and the central unit (22) clean, it is recommended to empty the coffee grounds container (1) every day.

Clean the service space thoroughly and fit the coffee rest drawer again.

38

By holding the central unit by its handle, slide it back into its original position, making sure it is correctly engaged. Then close the service door. Insert the coffee grounds container again.



When fitting the central unit, do not press "PRESS" (this may cause damage to the machine)!

Warning: if the central unit is not correctly fitted, the display shows

"BREW UNIT MISS "

It is not possible to brew coffee. The machine does not work.

Coffee grinder



Never fill the coffee grinder with water: it may damage the machine!

Descaling

Descaling is necessary to remove limescale from all surfaces and holes, thus ensuring a perfect operation of valves, heating controls and other important parts.

Note: due to the complexity of the coffee machine hydraulic circuit, the following descaling cycles (automatic and standard) do not allow the descaling of all tubes.

In fact, easily accessible components such as the central unit (22) and its plastic connection are excluded.

The water tank (11), drip tray (2), cup holder grill (3), and coffee grounds container should be washed periodically, using a non-abrasive solvent and drying them carefully.

34

The coffee dispenser (6) may be removed for cleaning operations. Unloose the screws and rinse the dispensing tubes thoroughly with hot water.

From time to time, clean the machine casing with a damp cloth and dry it.

Clean the pre-ground coffee container (14) with the aid of the brush supplied whenever necessary.

Central unit

Clean the central unit (22) whenever the coffee bean container has been refilled, or at least once or twice a week.

Switch off the machine by pressing the main switch (4) and open the service door (19). Remove the coffee grounds container (1).

35

Remove the central unit (22) by holding the handle and pressing the "PRESS" key.

Wash the central unit with warm water **without any solvent**. Make sure there are no coffee residues on the two steel filters.

36

Remove the superior filter by means of the supplied screw and clean it. Unscrew the screw, turning it counterclockwise. Then, dry all the parts of the central unit and tighten the filter with the screw.

37

Remove the coffee rest drawer (23) and clean it, using a non-abrasive solvent.

The machine must be descaled every 3-4 months, according to the water hardness degree. A more frequent descaling is recommended whenever the water hardness degree is very high.

This machine is supplied with a particular warning light

Descaling must be carried out at the latest when this message is displayed. In spite of the message, the machine does not stop working. To switch off the display, press the steam key for approx. 5 seconds until the message disappears.

Furthermore, said display warning may be adjusted according to the water hardness degree. The machine has been adjusted at the factory to 25°_H value, which causes the display to switch on showing the message DESCALING after approx 150 l. The water hardness value may be changed, if necessary, following the instructions shown on page 27.

The following adjustments are possible:

Hardness 4: high water hardness, over 29° fH (14° dH), approx. 80 l water passage.

Hardness 3: medium water hardness, approx. 20°-29° fH (7°-14° dH), approx. 150 l water passage

Hardness 2: soft water, approx. 12°-20° fH (4°-7° dH), approx. 300 l water passage

Hardness 1: less than 10° fH (3° dH), approx. 500 l water passage

In case of hard water, a filter should be used both to improve the coffee quality and to protect the machine, thus reducing the descaling frequency.

Note: for this purpose, use a descaling product suitable for coffee machines. **Never use vinegar to clean the machine; it might damage it.**

There are two ways to carry out the descaling of the machine:

Automatic descaling

Switch the machine onto the programming mode (see page 33).

Move the asterisk at the end of the line to the menu item DESCALING. To activate this menu item press **ent**.

The display shows:

"DESCALING

Pour a descaling solution into the water tank (according to the instructions on the package). Place a large container under the steam/hot water dispensing tube and open the steam/hot water knob slowly. The automatic descaling starts. Small quantities of descaling solution are pumped into the circuit. Then the pump stops to let the solution take effect.

The display shows:

"MACHINE IS
"DESCALING

This operation takes about 45 minutes. As soon as descaling is completed, the display shows:

"DESCALING
"FINISHED

and the pump stops.

Close the hot water knob and press **ent**. A display message reminds you to rinse away residue from the machine

"RINSE MACHINE

Remove the water tank, rinse it and fill it with water. Clean the machine using the hot water knob and let the whole tank content flow out. The display shows:

"RINSING FINISHED "

Storage of the machine



Switch off and unplug the machine if it will not be used for long periods of time.



Keep the machine in a dry place, far from the reach of children.

Should the machine not be used for a long period, keep it from dust and dirty.

Maintenance

Periodically check the machine and clean it in accordance to the instructions.

Disposal

Machines which are no longer operational should immediately be made non serviceable, by cutting the power cord. Machines should be delivered to a public disposal centre.

Troubleshooting



In case of failure, fault or suspected damage following a fall, unplug the machine immediately.

To fix problems, follow the instructions in the table below. Otherwise contact authorised personnel.

Close the hot water knob again and press **ent**. The machine is in the main menu of the programming mode. Move the asterisk at the end of the line to <10Exit* > using the key *Press **ent**. The machine is now in the normal mode. After heating, the machine is ready to work.

Note

Descaling can be interrupted any time by pressing **esc**. Before doing this, close the hot water knob.

Standard descaling

Switch off the machine. Pour a descaling product into the water tank (according to the instructions on the package). Place a large container under the steam/hot water dispensing tube (7) and open the steam/hot water knob (9) slowly, turning it counterclockwise. Turn on the machine by pressing the main switch and let the descaling product flow out of the dispensing tube for approx. 1 min.

Close the knob again. Turn off the machine with the main switch and let the solution take effect for approx. 5 minutes. Repeat this procedure two or three times, to allow all the descaling product in the water tank to flow out of the dispensing tube.

As soon as decalcification has been carried out, rinse the water tank (11) thoroughly and fill it with water.

Switch on the machine again and let water (approx. 2 l) flow out of the steam/hot water dispensing tube in order to rinse away residue. The coffee machine is now ready for operation.

Important

A periodic descaling avoids expensive repairs. The machine warranty does not cover damages occurring as a result of the non-observance of descaling procedures; improper use and any other instructions contained herein. Maintain the manufacturer's adjustment if the water hardness degree is not known.

Trouble	Possible cause/causes	Resolution
No message on the display	The machine is not getting power	Turn the main switch on, check plug and fuse
The automatic coffee brewing does not start	The service door is open	Close the service door
	BREW UNIT MISS	Insert and lock the central unit
The automatic coffee brewing does not start	BREWUNIT BLOCK	Clean the central unit (see page 44)
	The steam key is being pressed	Deactivate the steam function and drain the machine (see page 42)
The automatic coffee brewing does not start	WATER TANK EMPTY	Fill with water or coffee beans and restart the cycle
	COFF BEANSEMPY READY FOR USE	Drain thoroughly the machine again
	OVERTEMPERATURE	
Water is dispensed instead of coffee	DREGDRAW, MISS	Fit the coffee grounds container properly
	GRINDERBLOCKED	Clean the grinder
Steam and/or hot water are not dispensed	The pre-ground coffee selection key has been pressed while there is no coffee in the container	Fill with pre-ground coffee
Coffee flows too quickly	The steam/hot water spout hole is clogged	Clear it with the aid of a thin needle
Coffee is flows too slowly	Grinding too coarse	Adjust the grinder to a finer grinding, ex. from 6 to 3
Coffee is not hot enough	Grinding too fine	Adjust the grinder to a coarser grinding, ex. from 6 to 7
Coffee is not creamy	The central unit filter is jammed	Clean the filter
The coffee brewing is reduced, the machine takes longer to heat and the water capacity is not correct	The cup has not been preheated	Place the cup on the heating plate
	The coffee blend is not suitable, coffee has not been recently ground, the pre-ground coffee has been ground too thin or too coarse	Try another coffee blend
The central unit cannot be removed	Limescale in the machine	Carry out the machine descaling, as described at page 44.
	The central unit is out of position	Switch on the machine. Close the service door and fit the coffee grounds container. The machine returns automatically in its starting position.

Only skilled personnel are authorised to service and repair the machine. The user might incur serious injuries should repairs not be properly carried out. The manufacturer declines any liability whatsoever, should repairs fail to be carried out according to the instructions contained in this manual. Furthermore, in these cases warranty rights cannot be honored.

IMPORTANT SAFEGUARDS

When using your coffee maker, basic safety precautions should always be followed, including the following to reduce the risk of fire, electric shock, and/or injury to persons including the following:

- 1 ● Read all instructions.
- 2 ● Do not touch hot surfaces. Use handles or knobs.
- 3 ● To protect against electric shock, do not place cord, plug or appliance in water or other liquid.
- 4 ● Close supervision is necessary when any appliance is used by or near children.
- 5 ● Unplug from the outlet when not in use and before cleaning. Allow to cool before putting on or taking off parts, and before cleaning the appliance.
- 6 ● Do not operate any appliance with a damaged cord or plug or after the appliance malfunctions, or has been

damaged in any manner. Return appliance to an authorised service facility for examination, repair or adjustment.

- 7 ● The use of an accessory not evaluated for use with this appliance may cause injuries.
- 8 ● Do not use outdoors.
- 9 ● Do not let cord hang over edge or table or counter, or touch hot surfaces.
- 10 ● Do not place on or near a hot gas or electric burner, or in a heated oven.
- 11 ● Always attach plug to appliance first, then plug cord into the wall outlet. To disconnect, turn any control to the off position, then remove plug from wall outlet.
- 12 ● Use this appliance only for its intended use as described in this manual.
- 13 ● Keep the cord away from heated surfaces.

SAVE THESE INSTRUCTIONS



WARNING

RISK OF FIRE OR ELECTRIC SHOCK

DO NOT OPEN



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK.

DO NOT REMOVE COVER (OR BACK)

NO USER-SERVICEABLE PARTS INSIDE

REPAIR SHOULD BE DONE BY AUTHORIZED SERVICE PERSONNEL ONLY