

## KV1 Deluxe



**190033**

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**Read this instruction manual before using and keep it available at all times!**

This instruction manual contains information about installation, operation and maintenance of the appliance and constitutes an important source of information and reference guide. The knowledge of all operational and safety instructions included in this manual is a prerequisite for safe and proper handling of the appliance. Additionally, accident prevention, occupational health and safety, and legal regulations in force in the area the appliance is used apply.

Before you start using the appliance, especially before turning it on, read this instruction manual in order to avoid personal injuries and property damages. Improper use may cause damage.

This instruction manual forms an integral part of the product and must be stored in an immediate vicinity of the appliance and be available at all times. The instruction manual should be transferred together with the appliance.

## 1 Safety

This appliance has been manufactured in accordance with technical standards currently in force. However, the appliance may be a source of hazards if used improperly or contrary to its intended purpose. All persons using the appliance must consider information included in this instruction manual and observe safety instructions.

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### 1.1 Explanation of Signal Words

Important safety instructions and warning information are indicated in this instruction manual with appropriate signal words. You must strictly follow the instructions, to prevent accidents, personal injuries and property damages.



**DANGER!**

The signal word **DANGER** warns against hazards that lead to severe injuries or death if the hazards are not avoided.



## WARNING!

The signal word **WARNING** warns against hazards that may lead to moderate or severe injuries or death if the hazards are not avoided.



## CAUTION!

The signal word **CAUTION** warns against hazards that may lead to light or moderate injuries if the hazards are not avoided.

## IMPORTANT!

The signal word **IMPORTANT** indicates possible property damages, which may occur if safety instructions are not observed.

## NOTE!

The symbol **NOTE** indicates subsequent information and guidelines for the user on usage of the appliance.

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## 1.2 Safety instructions

### Electrical Current

- Too high a mains voltage or incorrect installation may cause electric shock.
- The appliance may be connected only if data on the rating plate correspond with the mains voltage.
- To avoid short-circuit, the appliance should be kept dry.
- If there are malfunctions during operation, disconnect the appliance from the power supply.
- Do not touch the appliance's plug with wet hands.
- Never take hold of the appliance if it has fallen into water. Immediately disconnect the appliance from the power supply.
- Any repairs or housing opening may be carried out by professionals and relevant workshops only.
- Do not transport the appliance, holding it by the power cord.
- Do not allow the power cord to come into contact with heat sources or sharp edges.

## Safety

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- Do not bend, pinch nor knot the power cord.
- Always completely unwind the power cord.
- Never place the appliance or other objects on the power cord.
- Always take hold of the plug to disconnect the appliance from the power supply.
- Check the power cord regularly for damage. Do not use the appliance if the power cord is damaged. If this cable is damaged, it must be replaced by customer service or a qualified electrician in order to avoid dangers.

## Flammable Materials

- Never subject the appliance to contact with high temperature sources, e.g.: oven, furnace, open flame, heat generating devices, etc.
- To avoid fire hazard, clean the appliance regularly.
- Do not cover the appliance with, e.g., aluminium foil or cloths.
- Use the appliance only with materials designated to this end and with correct temperature settings. Materials, groceries and left-overs remaining in the appliance may catch fire.
- Never use the appliance near flammable or inflammable materials, e.g.: petrol, spirit, alcohol, etc. High temperature triggers evaporation of these materials, and, as a result of contact with sources of ignition, an explosion may occur.
- In case of fire, disconnect the appliance from the power supply before attempting suitable fire-extinguishing actions.
- Never attempt to extinguish fire with water if the appliance is connected to the power supply. Following extinction of fire, ensure sufficient fresh air inflow.

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## Hot Surfaces

- Surfaces of the appliance become hot during operation. Burning hazard! High temperature remains for some time after switching the appliance off.
- Do not touch any hot surfaces of the appliance. Use the provided handling elements and holders.
- You may transport and clean the appliance after it cools down entirely.
- It is prohibited to sprinkle hot surfaces with cold water or flammable liquids.

## Health hazard due to germs!

- The tank must be regularly emptied and disinfected to eliminate the possibility of accumulation of harmful and dangerous germs.

## Supervised Usage only

- Only supervised appliance may be used.
- Always remain in an immediate vicinity of the appliance.

## Operating Personnel

- The device can be used by children of 8 years old and older, as well as by people with reduced physical, sensory or mental abilities and those with limited experience/knowledge as long as they are under supervision or have been instructed on safe use of the device and possible risks. Children should not play with the device.
- Cleaning and user maintenance may not be performed by children.

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## Improper use

- Unintended or prohibited use may cause damage to the appliance.
- The appliance may only be used in a technically flawless condition, providing for safe use.
- The appliance may only be used with connections in a technically flawless condition, providing for safe use.
- The appliance may only be used clean.
- Use only original spare parts. Never attempt to repair the appliance on your own.
- Do not attempt to modify nor alter the appliance.



### 1.3 Intended Use

As described below, every use of the appliance for a purpose differing and/or diverging from its intended standard use, is prohibited and considered to be an unintended use.

The following is an intended use:

- Preparation of various types of coffee beverages, for example: coffee, cappuccino, espresso, etc.

### 1.4 Unintended Use

An unintended use may lead to personal injuries or property damages caused by hazardous voltage, fire or high temperature. The appliance may only be used to perform tasks described in this instruction manual.

## 2 General information

### 2.1 Liability and Warranty

All information and instructions in this instruction manual account for legal regulations in force, current level of technical engineering knowledge as well as our expertise and experience, developed over the years. If special models or additional options are ordered, or state-of-the-art technical solutions were implemented, the actual scope of delivery of the appliance may, in some circumstances, differ from descriptions and numerous drawings in this instruction manual.

The manufacturer is not liable for any damages nor faults stemming from:

- failure to observe instructions,
- unintended use,
- technical alterations introduced by the user,
- usage of unapproved spare parts.

We reserve the right to introduce technical modifications to the product, intended for improvement of the appliance and its performance.

The coffee machine contains parts that are subject to wear and tear. As a rule, with correct maintenance of the appliance, the following components that are subject to wear and tear sustain dispensing of the following amounts of beverages:

- Pump, discharge valve, grinder, gaskets: 25.000 dispensing instances
- Brew unit: 50.000 dispensing instances

Failures of these components that are subject to wear and tear after their reaching reference dispensing amounts are not considered to be coffee machine flaw.

### 2.2 Copyright Protection

This instruction manual, and texts, drawings and images included in it, as well as its other components are copyright protected. It is prohibited to reproduce this instruction manual (including its excerpts), in any form and by any means, and to use and/or transfer its content to third parties without manufacturer's written permission. Violation of the above results in obligation to pay compensation. We reserve the right to claim further damages.

### 2.3 Declaration of Conformity

The appliance meets the currently applicable standards and guidelines of the European Union. We confirm the above in the EC Declaration of Conformity. We may provide relevant Declaration of Conformity upon request.

## 3 Transport, Packaging and Storage

### 3.1 Delivery Check

Immediately upon reception, check the delivery for completeness and possible shipping damage. In the case of visible transport damage refuse to accept the appliance or accept it conditionally. Mark and note the scope of damage in shipping documents/consignment list of the shipping company and lodge a complaint. Concealed damage must be reported immediately upon its discovery, as compensation claims may only be filed within applicable time limits.

If you find that parts or accessories missing, please contact our Customer Service Department.

### 3.2 Packaging

Do not dispose of the appliance cardboard box. It may be used to store the appliance when relocating or when shipping the appliance to our service point in the case of any damages.

The packaging and its elements are made of recyclable materials. Particularly, these are: plastic films and bags, cardboard box.

When disposing of the packaging, observe applicable domestic regulations. Recyclable packaging materials should be recycled.

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### 3.3 Storage

Leave the packaging closed until installation of the appliance; observe external indications concerning method of placing and storage. Store the packaging in the following conditions only:

- in closed rooms;
- in dry and dust-free surrounding;
- away from aggressive agents;
- in a location protected against sunlight;
- in a location protected against mechanical shocks.

In the case of extended storage (over three months), make sure you check the condition of the packaging and the parts regularly. If needed, replace the packaging with a new one.

## 4 Technical Data

### 4.1 Technical Specifications

<b>Name:</b>	<b>Automatic coffee machine KV1 Deluxe</b>
Art. No.:	<b>190033</b>
Material:	plastic
Grinder material:	steel
Number of brew unit groups:	1
Water tank volume, in l:	6
Number of coffee bean containers:	1
Coffee bean container volume, in g:	1 x 1000
Programs, pre-set, individual write-over possible:	30
Pump pressure, in bar:	19
Dregs container volume, no. of cups, approx.:	50
Designed for cups/day:	100
Max. output, number of cups: 120 ml / hour (single cup outlet)   120 ml / hour (dual cup outlet):	60   80
Minimum brewing volume, in ml:	15
Water connection:	1/2"
Noise levels:	< 70 dB
Connected load:	2,5 kW   220-240 V   50/60 Hz
Dimensions (W x D x H), in mm:	390 x 560 x 630
Weight, in kg:	20,4

### Version / Characteristics

- Colour: black, silver
- Version: automatic
- Cup counter: per program and total
- Descaling signal
- Fill level indicator
- ON/OFF switch
- Control: touch
- Indicator light: ON/OFF
- Setting options:
  - user mode (standard mode, self-service mode, professional mode)
  - coffee dosing
  - beverage names
  - 5 levels of grinding thickness
  - amount of milk
  - video display
  - pre-brewing quantity
  - water amount
  - water temperature (via thermoblock up to 95°C)
- Water supply: 3 options
  - water tank
  - fixed water connection
  - water supply from external water tank
- Sealable coffee bean container
- Removable coffee bean container
- Detachable water tank
- Milk supply:
  - externally via a hose
  - automatic flow rate control (temperature control)
- Programs:
  - 30, pre-set, individual write-over possible
  - unlimited storage capacity
  - password protected programming
- Operating system: Android

- Video display:
  - individually savable via USB
  - up to 10 videos may be saved
  - during coffee preparation and during breaks
  - 1 video may be selected for all processes
- Hot water function
- Hot milk function
- Grinder: conical burr grinder
- Pressure system: piston pressure
- USB connection: Yes
- Milk frother:
  - yes
  - temperature sensor on the appliance for optimal steam dosing
- Cleaning program:
  - yes
  - cleaning cycles memory
- Display:
  - error messages, volume, programs, status, maintenance information
  - size: 10.1"
  - advertising recordings, individually programmable
- Automatic switch-off
- Dregs container is dishwasher safe
- Ground coffee option
- 2 cups function
- Features:
  - coffee bean container can be removed without tools
  - base plate with cutout for automatic ejection of slops
  - simultaneous coffee and water dispensing (Americano) possible
  - high-power heater: 2 x 1,400 W
  - water tank with heating element
- The set includes:
  - 1 milk hose, 50 cm
  - 1 water supply hose, 150 cm
  - 1 water hose, 200 cm
  - 1 multi-purpose spanner

## Technical Data

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### Important indications:

- From 5° d.H. (according to German scale) it is strongly recommended to connect the appropriate water softener upstream the appliance.
- In the case of water pressure of 3 bar and more, a pressure reducer is required.

**We reserve the right to implement technical modifications.**

## 4.2 Functions of the Appliance

The appliance is designed for preparing various coffee beverages, for example: coffee, espresso, cappuccino, or latte macchiato, with the use of coffee beans and cold water, and it is ideal for cafés, cafeterias and offices.

## 4.3 List of Components of the Appliance

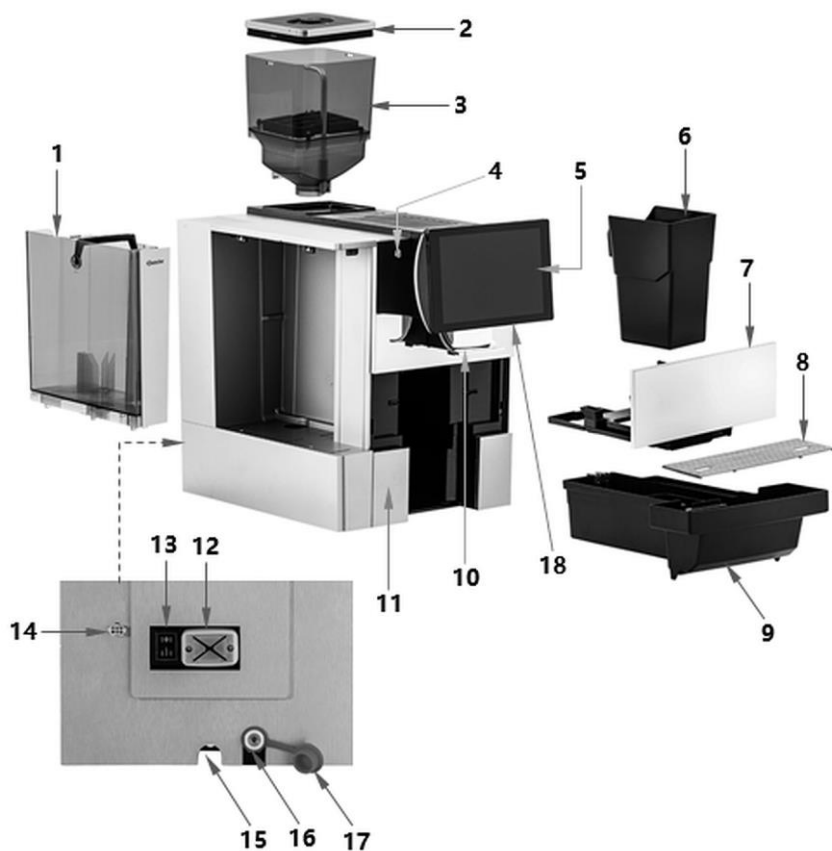


Fig. 1



### Component description (Fig. 1)

1. Water tank with cover
2. Coffee bean container cover
3. Coffee bean container
4. ON/OFF switch
5. Control panel
6. Dregs container
7. Support for dregs container
8. Drip grate
9. Drip tray
10. Coffee/water outlet
11. Housing
12. Electrical supply connection
13. Main ON/OFF switch
14. MDB interface
15. Cut-out for sewage connection
16. Water connection
17. Water connection plug
18. USB connection


### User Interface

The appliance is equipped with three different types of user interface: Standard, self-service and professional interface to meet the needs of different applications.

#### Standard User Interface



Fig. 2

By touching the  'User' symbol, the preferred beverage selection can be set for different users.

The function must be activated in the 'Display Settings' menu before it can be used.

### Self-Service User Interface



Fig. 3

Here you can quickly select the desired language (the default setting is max. 4 different languages). The languages can be set in the 'Display Settings'.

This has been specially designed for use in self-service establishments (breakfast establishments and hotels). The user can quickly select the language in the top right corner of the screen without entering the menu.

### Professional User Interface












Fig. 4

This is typically used in commercial establishments.





Setting options are varied and product queues can be created.

### On-Screen Symbols

Symbol	Name	Description
	User	Access to user settings
Logo	Logo	Access to menu settings
	Add	Add products
	Close	Close current page
	Warning	Error message display
	Thermoblock temperature	Thermoblock temperature indicator
	Brew unit position	Operating status of the current brew unit
	Error message	Current error message indicator
	Water flow rate	Current water flow rate indicator, in ml/s
	Inactive	A beverage is 'inactive' and cannot be prepared

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### Menu Setting Symbols

Symbol	Name	Description
	Exit	Return to the home screen and enter the PIN code to re-enter the menu
	Home screen	Return to the home screen, without entering the PIN code, to re-enter the menu
	Selection	Item is selected or active
	Editing	Editing of an element is allowed

### 5 Installation Instructions



#### CAUTION!

**Incorrect installation, positioning, operation, maintenance or misuse of the appliance may lead to personal injury or property damage.**

Positioning and installation, as well as repairs may be performed by authorised technical service only and in compliance with the applicable national law.

#### NOTE!

**The manufacturer disclaims all liability and provides no warranty for damages, which may be attributed to non-observance of regulations or incorrect installation.**

### 5.1 Installation

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#### Unpacking / Positioning

- Unpack the appliance, remove all external and internal packaging elements and shipment safeguards.



#### CAUTION!

##### Choking hazard!

Prevent children from accessing package materials, for instance: plastic bags and EPS.

- If the appliance is covered with a protective film, remove it. Remove the film slowly, so no glue residues are left. Remove any glue residues with the use of a suitable solvent.
- Be careful not to damage the rating plate and warning labels fixed on the appliance.
- **Never** place the appliance in humid or wet environment.
- Place the appliance in a way making the connections easily accessible, so that they may be quickly disconnected if such a need arises.
- The appliance should be placed on surfaces that are:

## Installation Instructions

- even, with sufficient bearing capacity, resistant to water, dry and resistant to high temperatures;
  - sufficiently large, and thus enabling usage of the appliance with no problems;
  - easily accessible;
  - well ventilated.
- Maintain sufficient clearance from table edges. The appliance might turn over and fall down.
  - Mind the sufficient clearance from the walls and other flammable objects or objects that are prone to discolouration. This clearance must be at least 5 cm from the back and both sides, and 15 cm from the top. Note the fire safety provisions at the place of installation.
  - The appliance should be installed only in a room, in which ambient temperature falls in the range of 5–35°C.
  - When in operation, the appliance may not be installed in a cabinet.

## Unpacking and Installing Coffee Bean Container

1. Unpack the coffee bean container
2. Before first use, clean it observing instructions in section '**Cleaning and Maintenance**'.
3. Install the coffee bean container in the appliance.

## Power supply connection

- Verify if technical data of the appliance (see rating plate) correspond with the local electric power grid specification.
- Connect the appliance to a single, properly grounded mains socket with protective contact. Do not connect the appliance to a multi-socket.
- The power cord should be laid in a way preventing anyone from threading on it or tripping against it.



Connect the power cord at the back of the appliance.

### Water Connection

There are 3 options for supplying the appliance with water:

- water tank
- fixed water connection
- water supply from external water tank

### ATTENTION!

**To ensure the required water quality, starting with water of 5 °dH hardness, a suitable water softening system must be connected.**

**We recommend the following products from our range:**

- Water filtering system for coffee machines, art. No. **109881**
- Water filtering system for coffee machines, art. No. **109847**
- Water softener, TKD 13400 FB, art. No. **109878**

### Water Quality

Total hardness:	4–8 °dH GH
	70–140 ppm (mg/l)
Carbonate hardness:	3–6 °dH KH / 50–105 ppm (mg/l)
Acidity / pH value:	6.5–7.5 pH
TDS:	30–150 ppm (mg/l)
Electrical conductivity:	50–200 µS/cm (microsiemens)
Iron content:	<0,3 mg/l

### ATTENTION!

**Make sure that the correct water hardness is always entered in the appliance settings.**

## Installation Instructions

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### Fixed Water Connection to Water Supply Line

The distance between the coffee machine and the water connection should not be more than 1 metre. Use only the enclosed water supply hose to connect the appliance.

1. Connect one end of the delivered water supply hose (with 1/2" thread) to the water connection at the back of the appliance, and the second end with the water mains system connection.

The water pressure must be 2–3 bar, for water pressures above 3 bar a pressure reducer should be connected.

We recommend the following product from our range:

**533051 Pressure reducer**

### Drain Hose Connection

The distance between the water drain and the coffee machine should not be more than 1 metre.

Ensure that the water drain hose does not hang loosely so that the water can drain properly.

## 6 Operation and Maintenance Instructions

### Important indications

- Fill the water tank solely with fresh potable water.
- Never fill the water tank with warm/hot water, milk nor any other liquid.
- Never fill the coffee container (ground coffee container) any instant coffee, cocoa nor any other powder mixtures. The appliance might get damaged.
- Never fill the coffee container with specially prepared coffee beans (e.g. coated with cocoa or sugar), as this might cause damage to the appliance.
- The coffee container may be filled only with roasted coffee beans. Rice, soy beans, cocoa beans, nuts, sugar, spices, etc., are prohibited.
- Always store coffee beans in dry, shaded place. Humid beans may damage the grinder.
- Do not keep coffee beans in the coffee container if the appliance is not to be used for a longer period of time. Coffee beans may attract humidity and clog the grinder.

### 6.1 Switching-On

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#### Appliance Preparation

1. Before use, clean the appliance, observing instructions in section '**Cleaning**'.
2. To safely start up the appliance, read the following indications carefully.
3. Plug the appliance into a suitable single socket.



### First Start-up

When the coffee machine is switched on for the first time, the start program settings may be accessed. Proceed the following way:



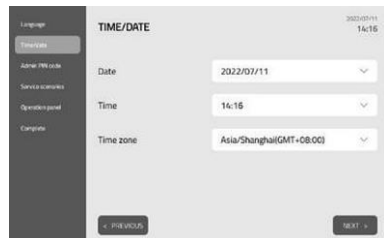
1. Press the mains switch at the back of the appliance.



2. Press the screen start button.  
The screen is switched on.



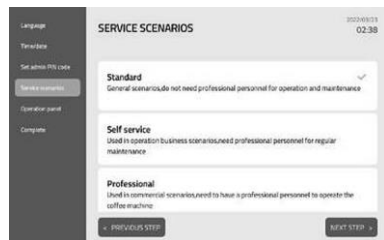
3. Select the desired language.



4. Set the time and date.

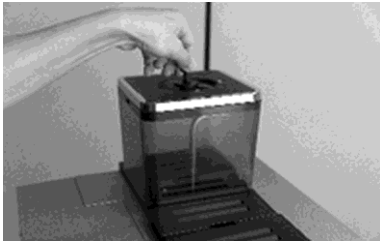


5. Optionally input PIN code.

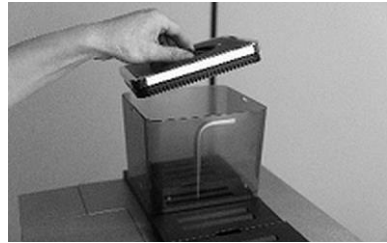


6. Select user interface.

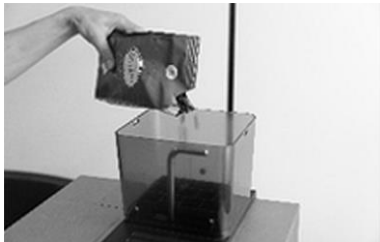
### Filling with Coffee Beans



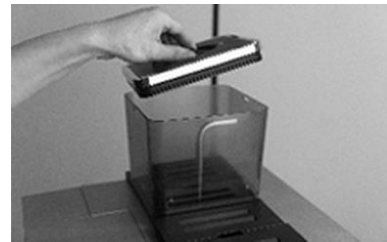
1. Unscrew the coffee bean container cover using the spanner provided.



2. Remove the coffee bean container cover.



3. Fill the coffee bean container with coffee beans.



4. Re-attach the cover and lock it (if required).

#### **ATTENTION!**

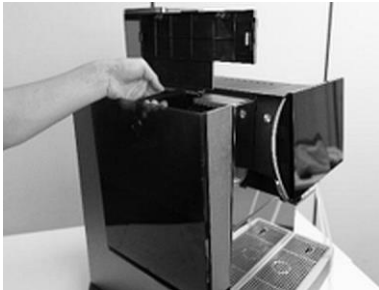
**Never put any objects into the coffee bean container or the grinder. Otherwise splinters may be ejected, which may lead to injury.**

#### **NOTE!**

**Never pour ground coffee into the coffee bean container.**

**Do not pour any liquids into the coffee bean container.**

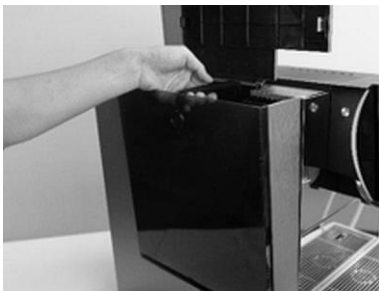
## Water Tank Filling



1. Remove the water tank from the appliance.



2. Fill the tank with fresh water.



3. Re-attach the water tank into the appliance.
4. Make sure that the water tank is installed in correct position.

### ATTENTION!

The water tank can only be filled up to the **MAX** mark.

Do not fill the water tank with hot water, as this may damage the coffee machine.

### Connecting Milk Hose



1. Connect the milk hose to the coffee machine.
2. Insert the milk hose into the milk container.

#### **ATTENTION!**

Ensure that the milk hose is properly seated on the connector so that it cannot suck in air at the connection point.

#### **NOTE!**

If possible, set the milk container in the milk chiller.

### Switching the Appliance ON

The process of switching the appliance on is described in 'First Start-Up' section. Observe the following indications.

### 6.2 Preparing Beverages

#### Beverage Preparation with Standard User Interface

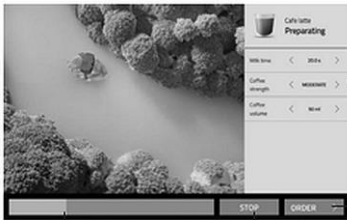
When the coffee machine is switched on for the first time, the start program settings may be accessed. Proceed the following way:



1. Place a suitable cup under the beverage outlet.



2. Touch the symbol of your chosen beverage.



The selected beverage is prepared.

By touching '<' or '>' you can change the parameters while the beverage is being prepared.

Touch 'Order' to select the next desired beverage (if this menu item is active).

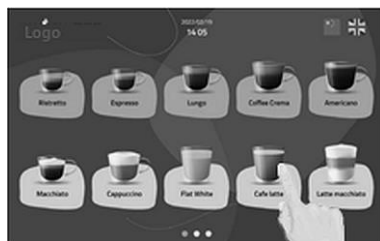
Stop the beverage preparation by touching 'Stop'.

Process bar

### Beverage Preparation with Self-Service User Interface

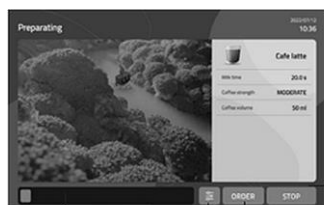


1. Place a suitable cup under the beverage outlet.



2. Touch the symbol of your chosen beverage.

The selected beverage is prepared.



Process bar

Interrupt beverage preparation by touching 'Stop'.



Touch 'Order' to select the next desired beverage



Changing parameters during beverage preparation

### Beverage Preparation with Professional User Interface



1. Place a suitable cup under the beverage outlet.



2. Touch the symbol of your chosen beverage.

The selected beverage is prepared.



Status indicator

Interrupt beverage preparation



The queue function can be used when one beverage is being prepared and another beverage is selected in the meantime.

3. Touch the Espresso symbol to prepare another coffee.

The Espresso is displayed in the queue, as shown below.

### Grinding Coarseness Setting

The grinding coarseness may be changed using the Multi-Tool.

### 6.3 Settings

#### 6.3.1 Program Settings

##### Menu Access



1. Touch the logo symbol in the upper left corner.
2. Enter the PIN code and touch the 'Complete' key.

If no PIN code has been assigned, you can confirm directly with the 'Complete' key.



3. Select the destination menu.

#### NOTE!

**PIN codes can be set in the start program. If no PINs have been assigned, the standard codes are blank.**

**Enter different PIN codes for different menu entitlements. The specific permission assignment setting for PIN codes can be checked and changed in the menu: System Settings / User / Maintenance Rights.**



### Program Settings Menu Overview

<b>Maintenance</b>	Rinsing	Cleaning	Descaling	Common functions	
<b>Beverages</b>	Beverage settings		Beverage selection display		
<b>System</b>	Water supply	Maintenance	Accessory	ON/OFF	Reset
<b>Control panel</b>	User interface	Home screen	Beverage preparation	Advertising	Advanced settings
<b>User</b>	Administrator PIN code	Maintenance PIN code		Maintenance rights	
<b>Language</b>					
<b>Statistics</b>	Overview	Beverages	Cleaning	Descaling and emptying the system	
<b>Help</b>	Information				

### 6.3.2 Maintenance menu

#### Cleaning Menu Overview

<b>Maintenance</b>	Rinsing	Cleaning	Descaling	Common functions
	Brew unit rinsing	Brew unit cleaning with tablet	Descaling	Screen cleaning
	Milk frother rinsing	Milk system cleaning		Restarting the appliance
	External milk hose rinsing			Switching the appliance OFF

### Rinsing



#### Brew unit rinsing

Rinse the brew unit.  
Select the 'Brew unit rinsing' function and perform the rinse before switching the appliance off.

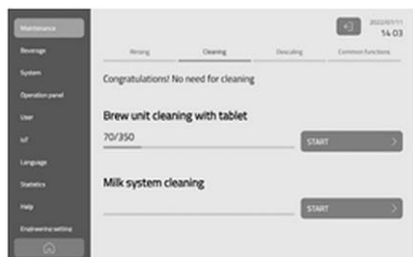
#### Milk frother rinsing

Rinse the milk frother with hot water immediately after pouring coffee.

### Rinsing the external milk hose

Remove the milk hose from the milk bag and insert it into the drip grate. Perform the rinse.

### Cleaning



#### Brew unit cleaning with tablet

Perform the brew unit cleaning program immediately when the message 'Brew unit cleaning with tablet' appears on the screen. Cleaning tablets are required for cleaning.

The total cleaning time is approximately 20 minutes.

#### Milk system cleaning

Cleaning of the milk system should be done daily for hygiene and health reasons.

The total time is approx. 2 minutes.

### Descaling



Start the descaling program when the message 'Coffee circuit descaling' appears on the screen. Descaling can be carried out using powdered or liquid descaling agent.

The total time is approx. 50 minutes.

### ATTENTION!

If descaling is not carried out in time, the appliance screen will be blocked after the default forced descaling time has elapsed, and it will only be possible to use the appliance again once the descaling process has been completed

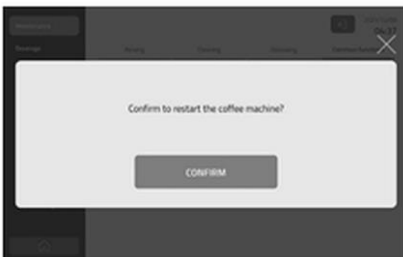
### Common functions



### Screen cleaning

After touching the 'Screen cleaning' field, the appliance will be locked for 15 seconds.

Now use a cloth to clean the screen surface.

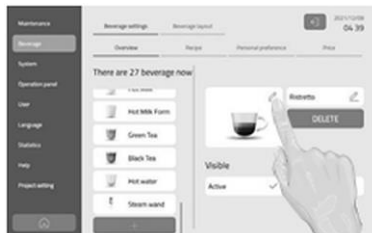


### Restarting the appliance

Restart the appliance by touching the 'Restart' field.

### 6.3.3 Beverage menu

#### Beverage settings



#### Inputting settings for 'Overview'

##### 1. Beverage icons change

Change the beverage icon after clicking the edit symbol. The image uploaded from the USB stick can be used as the beverage icon.



##### 2. Beverage name change

Change the name of the beverage after clicking the edit symbol. The input method can be used to enter a new name for the beverage.



##### 3. Beverage status

Select 'Active' to prepare a beverage. If 'Inactive' is selected, the beverage in question is blocked and cannot be prepared.



##### 4. Deleting a beverage

Click 'Delete' under a beverage to remove the beverage from the beverage list.



### 5. Adding a new beverage

Click 'Add' to select the new beverage to be added from the pop-up list. After adding to the menu list, change and delete the name and symbol of a new beverage.

## Recipe Settings

### Example: Latte recipe

When the Latte icon is touched, this takes you to the recipe page, where you can change the beverage parameters.



### Checking the current recipe

The order from left to right corresponds to the order in which the beverage is poured: Hot milk – Hot frothed milk – Coffee.

Positioned one below the other means a simultaneous output of components



### Changing the recipe order

Press the recipe symbol (e.g. Coffee) and drag to change the position of the recipe.



### Changing recipe parameters

Click on a recipe to change the recipe parameters. The range of values to be set must correspond to the limitations of the software.

### Deleting a recipe

Open the recipe page and click the 'Delete' field.



### Adding a recipe

1. The list of factory equipment appears here. After clicking, the recipe is automatically entered in the list of beverage recipes.
2. The range of beverage recipes that can be added: 1–6.
3. The special range of values that can be set must correspond to the limitations of the software.
4. Each recipe parameter that can be set is shown as in the left figure.

## Recipe parameters that can be added

### Coffee

Parameter	Setting values	Remarks
Ground coffee weight	5–16 g	Default setting: 10 g
Pre-brewed amount	0–35 ml	Default setting: 0 ml
Coffee amount	15–240 ml	Default setting: 50 ml
Single brewing process	yes or no	Default: yes
Brewing times	1–4 times	Default setting: 1 time

**Hot milk and hot froth**

Parameter	Setting values	Remarks
Temperature (Americano)	Warm/hot	Standard: Hot
Time	5–120 sec.	Default setting: 10 sec.

**Hot water**

Parameter	Setting values	Remarks
Water amount	25–450 ml	Default setting: 150 ml
Water temperature	High – medium – low – cold	Default setting: High

**Water for tea**

Parameter	Setting values	Remarks
Water amount	25–450 ml	Default setting: 100 ml
Water temperature	High – medium – low – cold	Default setting: High

**Pause**

Parameter	Setting values	Remarks
Time	1–20 sec.	Default setting: 5 sec.

**Test:**

Click the 'Testing' field to prepare a beverage based on the changed recipe after the recipe settings have been completed and check whether the beverage meets expectations.

### Personalised settings

Options: **Active** or **Inactive**

Default setting: **Inactive**



The function for setting the power in standard mode is available when personalised preferences are activated.

The option to set is displayed when the beverage symbol is touched.



The function for setting the power in self-service mode is available when personalised preferences are activated.

The option to set is displayed when the beverage symbol is touched.



The function for setting the cup size in professional mode is available when personal preferences are activated.

The option to set is displayed when the beverage symbol is touched.



### Beverage display

There are two types of beverage display: grid layout and menu cards.

#### Grid layout



#### Menu cards



#### Grid layout

The parameters for the grid layout are set as follows:

Parameter	Setting values	Remarks
Column	1x1 2x1 3x1 4x1 5x1 3x2 4x2	Standard: 4x2

EN

#### Menu cards

The beverages in the beverages list can be sorted into different menu cards. Menu card numbers: 2–7.

1. Touch the title picture of a menu card to replace it with a new one. The new title photo can be selected from the photo gallery or uploaded from a USB stick.
2. Touch 'Update alias' to change the alias.
3. Touch the second level to select beverages from the beverages list and add them to the menu cards.
4. The effect of activating 'Display second level beverages in first page' as shown in the figure below.



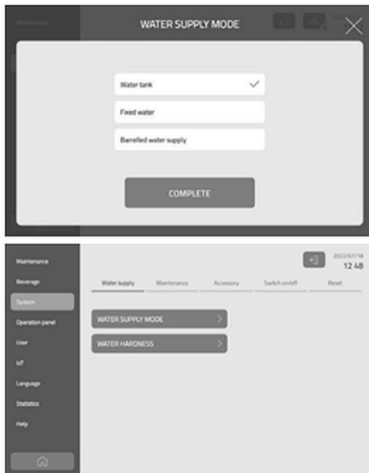
Second level list

### 6.3.4 System Menu

#### System Menu Overview

		System		
Water supply	Maintenance	Accessory	Switching Off	Reset
Water supply mode	Rinsing		Automatic switch-off	Beverage reset
Water hardness	Cleaning		Automatic switch-off after time setting	Factory settings reset
	Descaling	Water filter	ON/OFF switch	
	Emptying dregs container		Automatic switch-off after time setting	

### Water supply mode / Water hardness



#### Mains water connection and barrelled water (tank) available.

Select the appropriate water supply mode. The standard setting is supply from the water tank.

#### Water hardness

This is where you set the degree of water hardness for the appliance.

Standard setting: 15° dH.

### Setting maintenance parameters

#### Rinsing

The parameters for rinsing are set as follows:

Parameter	Setting values	Remarks
Pre-rinsing	30 minutes 1–4 hours	Default setting: 30 min.
Brew unit auto rinsing	OFF 5–20 min.	Default setting: OFF
Milk frother auto rinsing	OFF 5–20 min.	Default setting: 20 min.

### Cleaning

Parameter setting for cleaning the brew unit with tablets, as shown below:

Parameter	Setting values	Remarks
Cleaning the brew unit with tablets according to the warning**	≥0 cups	Default setting: 300 cups
Compulsory brew unit cleaning after clogging	≥0 cups	Default setting: 450 cups

### \*\*ATTENTION!

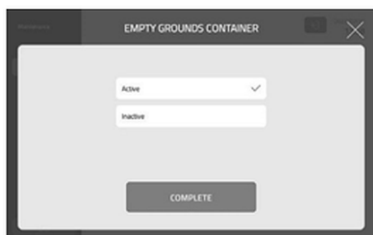
**The coffee machine locks when the required number of cups is reached and must first be cleaned/descaled before further use.**

### Descaling

Water hardness, water shortage and whether or not to install a water filter, which determine the water flow in litres and the time remaining for descaling. Set the descaling parameters as below:

Parameter	Setting values	Remarks
Descaling	≥0 litres	Default setting: 65 litres
Mandatory descaling	≥0 litres	Default setting: 100 litres

### Emptying dregs container



If the setting 'Active' is selected, 'Empty dregs container' is displayed on the screen after 45 seconds of preparation. If the setting 'Inactive' is selected, 'Empty dregs container' is no longer displayed on the screen.

### Accessories (not included in the delivery)

#### Barrelled water (tank)

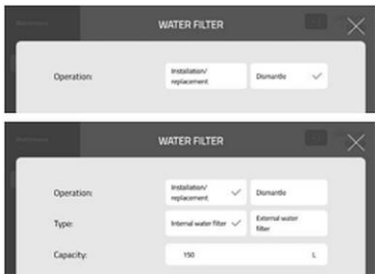


1. Select 'Not connected' if the machine is not connected to a barrelled water.
2. Select 'Connect' here and click 'Completed' if a barrelled water should be used.

The appliance will restart to complete the settings.

The standard setting is 'Not connected'.

#### Water filter



1. If a water filter is not being installed, select 'Not connected'.
2. If a water filter is to be installed or replaced, select 'Connected'.
3. Here, select the type of water filter and the required absorption capacity.

The standard setting is 'Not connected'.

### Switching the Appliance OFF

#### Countdown to automatic switching-off

Set the countdown to automatic switching-off here, e.g. automatic switching-off of the unit in 8 hours.

Parameter	Setting values	Remarks
Countdown to automatic switching-off	1–24 hours / no switching-off	Default setting: 30 minutes



#### Automatic switching-off after a given hour

Here you can set the time for automatic switching-off, e.g. 9:15.

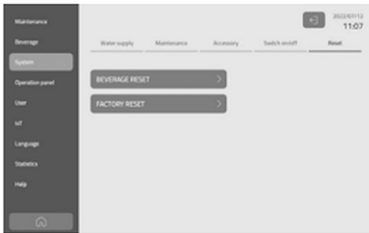
#### Switching-off

1. Select the 'Active' option.
2. To switch the screen off, hold down the ON/OFF button for 3 sec.
3. Select 'Inactive', then the function of the ON/OFF button for the screen is deactivated.



ON/OFF button for screen

### Reset



#### Beverage resetting

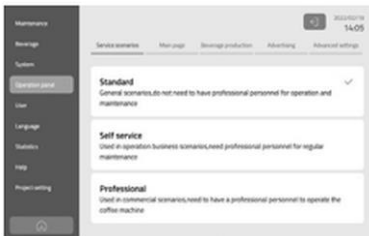
Resets all beverage parameters to the factory settings.

#### Factory settings reset

Resets all beverage parameters to the factory settings.

## 6.3.5 Control Panel

### Usage Scenarios



Selection of the user interface displayed on the screen. For a detailed introduction to each user interface displayed on the screen, refer to the section 'User Interfaces'.

EN

### Home screen

#### User function

Options: **Active** or **Inactive**



1. Select 'Active'; click the user key in the upper right corner of the screen and create a list of user beverages and a list of favourite beverages.
2. If 'Inactive' is selected, the user key will not be displayed.

### Serial numbers

Options: **Active** or **Inactive**



1. Select the 'Active' option.  
The serial number of the appliance is displayed in the lower left corner of the screen.

2. If 'Inactive' is selected, the serial number of the appliance will not be displayed.

### Service number

Options: **Active** or **Inactive**



1. Select the 'Active' option.  
The service number is displayed in the lower right corner of the screen.

2. To prevent the service number from being displayed, select 'Inactive'.  
The service number must be saved by a service technician in the service settings.

### Logo replacement

Options: **Active** or **Inactive**



1. Touch the edit key to change the logo displayed on the screen.

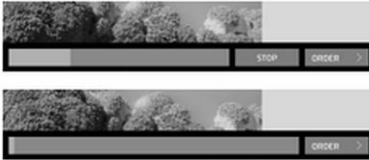
The new logo image can be uploaded from a USB stick.



### Preparing Beverages

#### Stopping the preparation of a beverage

Options: **Active** or **Inactive**



1. If 'Active' is selected, the beverage preparation can be interrupted by pressing 'Stop'.
2. If 'Inactive' is selected, 'Stop' will not be displayed.

#### Adjusting the beverage

Options: **Active** or **Inactive**



1. If 'Active' is selected, beverage recipes can be adjusted by touching the left and right arrow keys while the beverage is in production.
2. If 'Inactive' is selected, beverage recipes cannot be adjusted when the beverage is in production.

#### Beverage quantity display

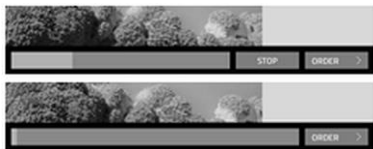
Options: **Active** or **Inactive**



1. If 'Active' is selected, the beverage quantity is displayed when the beverage is in preparation.
2. If 'Inactive' is selected, the beverage quantity is not displayed when the beverage is in preparation.

### Placing orders

Options: **Active** or **Inactive**



1. Select the 'Active' option.
2. Touch the 'Order' field to select the next beverage.
3. If 'Inactive' is selected, the 'Order' field will not be displayed.

### Advertising

#### Stand-by

When the appliance is in Stand-by mode, video advertisements can be set up. Advertising resources can be loaded from a USB stick.

Parameter	Setting values	Remarks
Stand-by time	0–100 seconds	Default setting: 60 sec.
Volume	0–100%	Default setting: 20%
Cycle type Single shot	Infinite loop, exit after playback Automatic exit after playback	Default setting: Infinite Automatic exit after playback
Playback time	0–100 seconds	Default setting: 10 sec.

#### NOTE!

Advertising settings are possible to be introduced here; videos and images can be loaded from a USB stick.

#### Welcome

Setting of video advertisements at start-up.

Parameter	Setting values	Remarks
Volume	0–100%	Default setting: 20%
Single image play time	0–100 seconds	Default setting: 5 sec.

### NOTE!

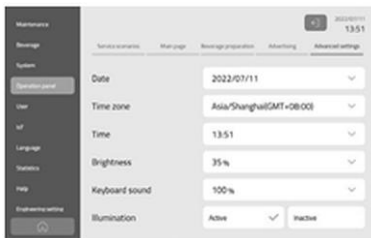
Video requirements: MP4 format; aspect ratio: 16:9; recommended resolution: 1,280x800; video bit rate less than 3,000 kbps and 100 MB; image formats: PNG, JPG, JPEG; recommended resolution: 1,280x800.

### Preparing beverages

Set advertising images when the beverage is in production.

Parameter	Setting values	Remarks
Volume	0–100%	Default setting: 30%
Single image play time	0–100 seconds	Default setting: 5 sec.

### Advanced settings



#### Date

Local date setting

#### Time zone

Local time zone setting

#### Time

Local time setting

#### Brightness

Brightness setting — standard: 60%.

#### Keyboard sound

Setting the volume of the keyboard sound — default setting: 20%

### User

The screenshot shows a user settings interface with a date and time display (2023/02/19 14:11) and three tabs: Administrator PIN code, Maintenance PIN code, and Maintenance rights. The Maintenance PIN code section is active, showing a 'New PIN code' field with five input boxes and a 'Confirm new PIN code' field with five input boxes.

Various user rights can be assigned using the corresponding PIN code.

### Administrator PIN code

The screenshot shows the same user settings interface as above, but with the Administrator PIN code section active. It features a 'New PIN code' field with five input boxes and a 'Confirm new PIN code' field with five input boxes.

Set the administrator PIN code, which consists of 5 digits.

The administrator PIN code allows access to the appliance settings.

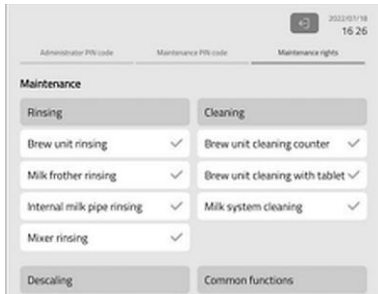
### Maintenance PIN code

The screenshot shows the same user settings interface as above, but with the Maintenance PIN code section active. It features a 'New PIN code' field with four input boxes and a 'Confirm new PIN code' field with four input boxes.

Set the maintenance PIN code, which consists of 4 digits.

Entering a valid PIN code will enable viewing the assigned privileges of the maintenance level.

### Maintenance level PIN rights



Maintenance level PIN rights can be set here.

### Languages



The available languages are displayed here.

Select the language.

The default setting is English.

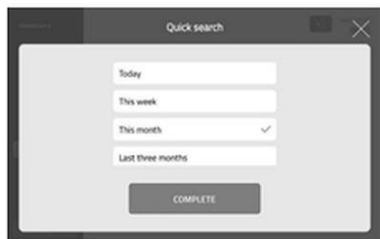
EN

### Statistics



Here you can view the history of the various beverage preparation dates, the total number of beverages, care and maintenance.

### Beverages

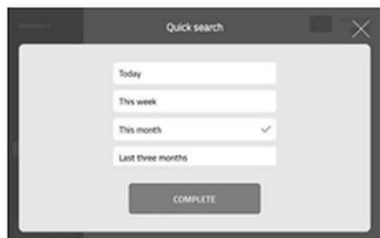


#### Quick search

Data can be viewed by 1 week, 1 month, 3 months, current date, half year, year and all.

The view of data from a specific time can be customised. Data can be presented in two ways: tables and graphs.

### Cleaning



Here you can see specific time records for the various cleaning processes. These include start time, end time and cleaning duration.

### Descaling / emptying

Date	Start	End	Time
2022-07-08 10:41:11	2022-07-08 11:43:30	1.6 hours	
2022-07-08 10:06:39	2022-07-08 10:08:48	2.1 minutes	
2022-07-08 09:48:56	2022-07-08 10:02:07	13.2 minutes	
2022-07-05 08:17:29	2022-07-05 11:43:09	2.4 hours	
2022-07-04 19:13:40	2022-07-04 19:46:17	32.6 minutes	

Here you can see specific time records for the various cleaning processes. These include start time, end time and cleaning duration.

### Help

#### Display of machine information



Here you can see information about the appliance, including:

Ctr version (PCB software)

HMI version (screen software)

Android version

Calibration version

Machine serial number

Information on the IMEI number of the appliance  
Available screen memory

#### Software update via USB stick

The appliance software can be updated via a USB stick.

#### **NOTE!**

**The software update must be performed by a professional technician.**

## 7 Cleaning and Maintenance

### 7.1 Safety Instructions for Cleaning

- Before cleaning, disconnect the appliance from the power supply.
- Leave the appliance to cool down completely.
- Make sure water does not enter the appliance. Do not immerse the appliance in water or other liquids during cleaning. Do not clean the appliance with a pressurized water jet.
- Do not use any sharp or pointed, nor metal implements (knife, fork, etc.). Sharp or pointed implements may damage the appliance, and when in contact with live parts, they may cause electric shock.
- For cleaning, do not use any scouring agents that contain solvents nor corrosive cleaning agents. They may damage the surface.

### 7.2 Cleaning

#### Cleaning Frequency Overview

Frequency	Activity	Cleaning type
Daily (or as needed)	Brew unit rinsing	automatically by the machine
	Milk frother rinsing	automatically by the machine
	Brew unit fully rinsing	automatically by the machine
	Drip tray emptying	
	Dregs container emptying	
	Milk frother cleaning	



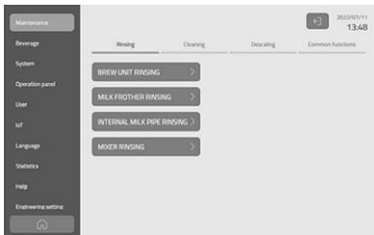
Frequency	Activity	Cleaning type
Weekly	Coffee bean container cleaning	manually
	Water tank cleaning	manually
When prompted	Brew unit cleaning	with the on-screen message
	Milk system cleaning	Daily (is not displayed)
	Descaling	with the on-screen message
	Water filter replacement	with the on-screen message

### Preparation of cleaning agents / aids

Cleaning agents / aids	Purpose
Cleaning tablet	Brewing group cleaning with tablets
Place to insert the tablet	Add tablet for cleaning the brewing group
Milk system cleaning agent	Milk system cleaning
Descaling powder/liquid	Descaling

## 7.2.1 Daily Cleaning

### Brew Unit / Milk Frother



1. The frequency of the automatic rinsing can be set in the menu / maintenance settings. Rinsing then takes place automatically when the pre-set condition is reached, at the latest when the machine is switched off.
2. Wash the milk frother daily with a cleaning agent. Follow the indications in section 7.2.4.

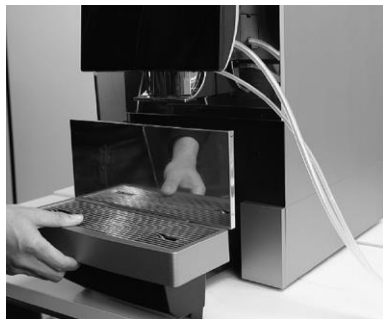


3. Immediate rinsing can be selected manually. Go to the 'Maintenance/Rinsing' menu and touch each rinsing option for immediate rinsing.

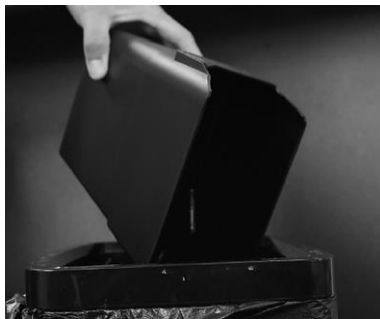
### Emptying and Cleaning Dregs Container

#### ATTENTION!

The dregs container should be emptied at least once a day.



1. Remove the drip tray from the appliance.



2. Remove the dregs container and pour out the dregs.



3. Wash the dregs container thoroughly with fresh water.
4. To end with, dry the dregs container.

### Drip Tray Cleaning

#### NOTE!

The drip tray is located under the dregs container. Empty and clean the drip tray as required (at least once a day).



1. Empty the drip tray.



2. Wash the drip tray thoroughly with fresh water.



3. Clean the drip grate and the support for dregs container.

4. Thoroughly dry all cleaned elements.

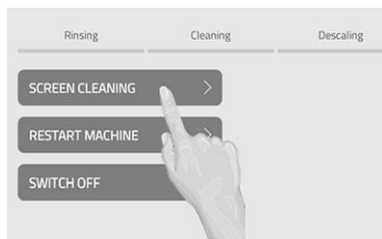
5. Assemble all parts.

6. Insert the drip tray back into the appliance.

#### ATTENTION!

The two metal plates in front of the drip tray must be cleaned and kept dry, otherwise the message 'Empty drip tray' will be displayed incorrectly.

### Screen Cleaning



1. Select 'Maintenance/Common Function'.
2. Select SCREEN CLEANING to start a 15-second count down.

The screen can now be wiped with a dry cloth.

### 7.2.2 Weekly Cleaning

#### Milk Frother Manual Cleaning



3. Pull down the milk frother.



4. Disassemble the milk frother.



5. Wash the individual components of the milk frother in fresh water.
6. Reassemble.



7. Reassemble the milk frother into the appliance.

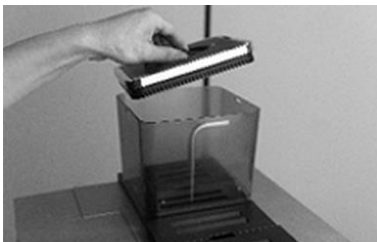
### Emptying and Cleaning Coffee Bean Container

#### NOTE!

The coffee bean containers can be cleaned as required and at regular intervals (recommended: weekly).

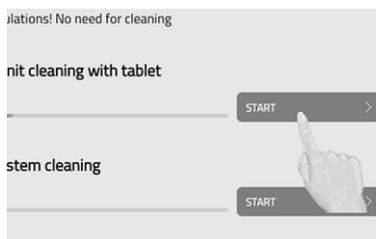
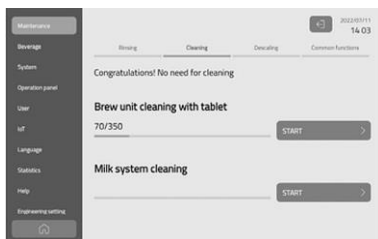


1. Switch the appliance off.
2. Using the supplied spanner, open the lid.
3. Unlock the coffee bean container by rotating the stainless steel lever on the coffee bean container counter-clockwise.
4. Pull the coffee bean container upwards.
5. Empty the coffee bean container.
6. Clean the coffee bean container with a soft, damp cloth.
7. Dry the coffee bean container completely.
8. Re-attach the coffee bean container.
9. Lock the coffee bean container with the stainless steel lever by rotating it clockwise.
10. Replace the cover.



### 7.2.3 Cleaning the Brew Unit When Prompted

The message 'Brew unit cleaning with tablet' appears on the screen when the system requires cleaning with a tablet. The total cleaning time is approx. 20 minutes.



1. Go to the 'Maintenance/Cleaning' menu.
2. Touch the 'Start' field.



3. Touch the 'Confirm' key to start cleaning.

4. Perform each step according to the message displayed on the screen.

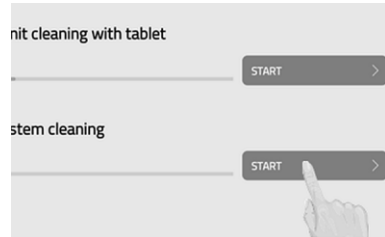
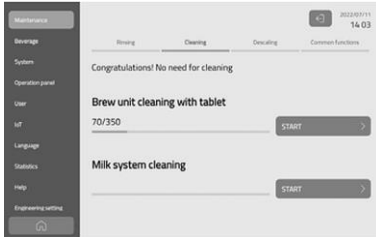
#### NOTE!

If the cleaning of the brew unit with the tablet is not carried out in time, the unit will be blocked at the end of the mandatory cleaning period and you will not be able to use the unit again until the cleaning process has been completed.

### 7.2.4 Milk System Cleaning

#### ATTENTION!

The milk system must be cleaned daily.



1. Go to the 'Maintenance/Cleaning' menu.
2. Touch the 'Start' field.



3. Touch the 'Confirm' key to start cleaning.

EN

4. Perform each step according to the message displayed on the screen.

#### WARNING!

When cleaning and descaling, a hot cleaning or descaling solution flows from the outlet. Therefore, never put your hands under the outlet during cleaning and descaling.

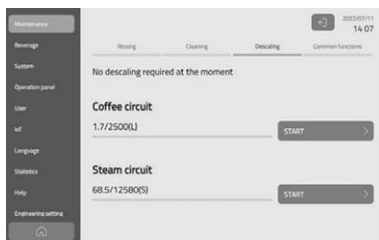
### 7.2.5 Descaling When Prompted

The water hardness, water level and use of the water filter determine the descaling schedule. This point in time is calculated and displayed by the appliance.

#### Water circuit descaling

##### ATTENTION!

If descaling is not carried out in time, the appliance screen will be blocked after the default forced descaling time has elapsed, and it will only be possible to use the appliance again once the descaling process has been completed



1. Go to the 'Maintenance/Cleaning' menu.
2. Touch the 'Start' field.



3. Touch the 'Confirm' key to start descaling.

4. Perform each step according to the message displayed on the screen.

##### WARNING!

When cleaning and descaling, a hot cleaning or descaling solution flows from the outlet. Therefore, never put your hands under the outlet during descaling.

##### NOTE!



## Possible Malfunctions

If the appliance is connected to a fixed water connection, descaling is still carried out via the water tank. It is not necessary to change the settings.

### 7.3 Maintenance

#### ATTENTION!

The coffee machine contains parts that are subject to wear. To ensure proper operation of the appliance for a long period of time, we recommend that you perform maintenance on the appliance at regular intervals. To this end, contact your distributor or Bartscher service directly after dispensing of 15.000 beverages or once a year.

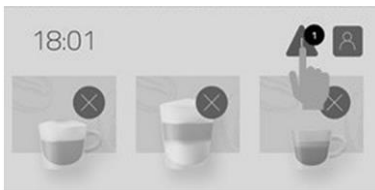
## 8 Possible Malfunctions

The table below contains descriptions of possible causes and solutions to malfunctions or errors during operation of the appliance. When malfunction cannot be removed, contact the technical service.

In such a case, provide article number, model name and serial number. These data may be found in the rating plate.

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### Error messages in the digital display



In the event of an error, the appliance will display an error message indicated by a red triangle in the top right corner of the control panel. Click on this symbol for more information.

Display message	Possible solution
Insert the water tank	Check that the water tank is correctly installed or reseal it.
Place the drip tray	Put the drip tray back in
Place dregs container	Place dregs container back in
Place the bean hopper	Place the bean hopper back in
Low water level in the water tank	Fill the water tank with fresh water
Empty drip tray	Pour the water out. If the drip tray has been emptied but messages still appear, clean and dry the two metal water level sensors on the drip tray.
Fill the bean hopper	Fill the bean hopper with coffee beans
Use lower temperature milk	Use milk with a temperature of 2–20°C
Use milk with a higher temperature	Use milk with a temperature of 2–20°C

### Error Code Messages

#### ATTENTION!

**A message with an error code is automatically displayed when the entire system is affected by an error. If serious problems occur, restart the appliance.**

1. Switch off the appliance using the mains switch if the appliance is to be restarted.
2. Contact a service technician if the appliance does not want to start or we cannot start the appliance.

## Decommissioning

Error code	Description	Possible solution
E1	Error on the motherboard	<ol style="list-style-type: none"> <li>Restart the appliance.</li> <li>If the error message still appears after restarting, switch off the appliance and contact customer service.</li> </ol>
E3	Thermoblock temperature too high	
E5	Thermoblock temperature too low	
E7	Thermoblock heating too fast	
E9	Thermoblock heating too slow	
E11	Thermoblock heating error	
E12	Water tank error detected	
E13	Water mixing valve error	
E402	Brew unit error	

## 9 Decommissioning

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### Preparations for decommissioning

- Clean the appliance observing indications in section 'Cleaning and Maintenance'.
- After emptying, clean the coffee bean container and the topping container.
- Clean the beverage outlet and the milk line manually.
- Clean the drip tray and dregs container.

### Short-term decommissioning (up to one month)

- Empty the coffee circuit. Have the coffee machine emptied by a service technician.
- Disconnect the appliance from mains power supply.
- Close the water supply.
- Switch the accessories off (e.g. milk chiller) and disconnect them from the electricity supply.

### Long-term decommissioning (over one month)

Some components may not function as intended if the appliance has been stored or not used for a long period of time.

Have the coffee machine serviced, installed and cleaned before using it again after a long period of non-use.

1. Have the coffee machine maintained and installed by a service technician.
2. If the machine has been stored for more than 6 months, it may need to be repaired after restarting.

Contact a service company.

## 10 Disposal

### Electrical Appliance



Electric appliances are marked with this symbol. Electrical appliances must be disposed of and recycled in a correct and environmentally friendly manner. You must not dispose of electric appliances with household waste. Disconnect the appliance from the power supply and remove power cord from the appliance.

Electrical appliances should be returned to designated collection points.