



Virtu

User Manual Virtu Coffee Machine

**FND Small Cabinet
20 Filterfresh®**

5DUFNK20M EN V2.0

Preface

Copyright

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The English language version is the original version. All other language versions are translations of the original version.

Disclaimer

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Introduction

- Before using the coffee machine, please read the safety instructions and all of the information in this manual first.
- Keep this manual in a safe and accessible place for later reference.
- The machine serves hot drinks. Keep a distance from the outlet nozzles after selection, during dispense and when the drink is removed from the machine after dispense.
- Only properly trained service personnel may carry out installation, adjustments, repair or move the machine.
- This machine can be used by children aged 8 years and older and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and they understand the hazards involved.
- All information for normal daily use is found in the paragraph [Using the coffee machine](#) (on page 33).

- The information in the other paragraphs is meant only for persons trained in the operation and maintenance of the machine.
- Solutions to simple issues or malfunctions that may occur are given in the back of the manual.
- The manual cannot be regarded as a replacement for the training and instruction, but must be seen as an addition to the training, and as a reference work.
- The user manual is valid for the machine supplied by the manufacturer, including the options installed by the manufacturer.
- The manufacturer accepts no liability for any damage resulting from incorrect or improper use of the machine, or resulting from modifications that have not been authorized by the manufacturer.
- Only use original parts from the manufacturer when the machine needs to be repaired.
- Contact the dealer / supplier of the coffee machine (see contact information in the next section) for maintenance or repairs not explained in this manual.

Service and support

For service and support contact the dealer / supplier of the machine.

Note down dealer information in this box or use a dealer stamp.

Telephone Service Number:

Internet:

Company name:

Address:

Area code - City:

Country:

Telephone:

E-mail:

Note down the serial number of the coffee machine in this box. Mention it when service is required.

Serial number:

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About this manual

Audience

This manual describes how to use and maintain the Virtu coffee machine. Intended users are the end user and staff responsible for regular maintenance of the machine.

De **Jong** DUKE assumes that staff will:

- have sufficient technical knowledge and experience to carry out the tasks assigned to them,
- recognize and prevent possible hazards,
- read and understand this manual,
- follow the procedures described in this manual,
- ensure that the machine will not harm personnel and/or damage its environment.

If the responsible staff has permission to perform maintenance actions or to change parameters, De **Jong** DUKE expects that the operator is trained for these tasks.

Scope

This manual contains essential information for proper operation and maintenance of the machine. Following the instructions contained in this manual should assure trouble-free, safe operation and maintenance of the machine.



CAUTION

Before using or maintaining the machine read this manual carefully to become familiar with the functionality. Make sure that any operator or service engineer understands the correct operating and maintenance procedures and all safety precautions. If any (part of the) information in this manual is unclear contact the supplier.

Operators and service engineers must be adequately trained in the correct operation of the machine. Keep this manual in a pre-determined place near the machine.

Conventions

This manual uses the following text conventions:

- Actions that you should perform in a specific sequence are numbered, for instance, e.g.:
 1. Open the door of the coffee machine.

- Black circled numbers (e.g. 1, 2, 3) and numbers between parentheses e.g. (1) in text refer to elements in a figure.
- Bold text is used for (sub)titles and for information that needs special attention: '**Read these instructions carefully**'.
- Menu names in the user interface are shown in bold, for example: return to the **Main menu**.
- Settings in the user interface are shown in italics; for example: *0.45*.
- Soft keys, keyboard buttons and hardware buttons are shown between brackets, for example: **[Start]**, **[Enter]**, **[2]**.
- Messages shown in the user interface are shown between quotation marks and in italics, e.g.:
'Place cup right (see [Message: Place cup right](#) on page 105)'.
- Cross-references to sections, tables, figures etc. are indicated as blue text or written as (see "....." on page ..). The main purpose is easy recognition in the paper and on-line (PDF) version of the manual. In the on-line version, the cross-references function as hyperlinks that can be used to navigate through the manual by clicking on them. Example: [Scope](#) (on page 8).
- The safety symbols indicate situations or actions that may endanger the operators and service engineers and are explained in detail in the safety section.
- One additional symbol is available to give the reader additional information:



TIP

Recommendations for the reader.

Related documents

In addition to this manual, the following documentation is available:

- Technical manual
containing all information about the functionality of all parts in the machine, procedures for servicing and configuring the recipes.
- Electrical drawings
contains the electrical drawing/diagrams of the machine.
- Spare parts manual
containing relevant information for identification of the spare parts.
- Third party documentation
contains the available documentation of third-party machine parts.

Availability of this manual

De **Jong** DUKE expects this manual to be available to all operators and service engineers. The original hard copy (paper) version should always be available near the machine.

If the operator has the permission to perform a number of maintenance actions or program activities, De **Jong** DUKE expects that the operator is trained according to the activities and that the appropriate documentation is available for the operator.

Safety

1.1 Safety and risk levels

Four safety and risk levels are used in this manual.

The risk levels and explanations are:

**NOTE**

To show extra information that may help the reader.

**CAUTION**

Indicates a potentially hazardous situation that, if not avoided, can result in minor or moderate injury or damage to the machine or property.

**WARNING**

Indicates a potentially hazardous situation that, if not avoided can result in death, serious injury or machine damage. It includes hazards that are exposed when guards or security features are removed.

**DANGER**

Indicates a hazardous situation that, if not avoided, can result in death or serious injury.

1.2 Safety and warnings

The safety warnings in this section apply to the entire document.

The risk level associated with the explanation are:



DANGER

All danger level warnings applicable to the entire document:

- Do not use water in or near the machine unless the instructions contain explicit directions to the contrary. Risk of electrocution when water comes in contact with internal electrical parts.
- Do not use a water jet to clean the coffee machine.
- HOT water! The water system (boiler, pipes, etc.) may contain hot water. Risk of burning when HOT water comes in contact with a person that can cause a scalding injury.
- Do not move, lift or tilt the machine. Risk of serious personal (hand and finger) injuries.
- Only qualified service personnel is allowed access to the internals of the machine.



WARNING

All warning level warnings applicable to the entire document:

- Do not shake the machine while in use. Risk that machine can tip over and fall.
- Do not lean on the door when open. Risk that machine can tip over and fall. Risk of serious injury.



CAUTION

All caution level warnings applicable to the entire document:

- Do not use aggressive cleaning products or abrasives to clean (parts of) the machine.
- Do not use a dish washer to clean parts.
- Do not use a damaged machine. Please contact your supplier.
- If a fault occurs disconnect the machine from the electrical and water supplies. Please contact your supplier immediately.



NOTE

All note level warnings applicable to the entire document:

- Use the machine only in areas where trained personnel can monitor the operation.
- Water and electrical connections must conform to local regulations.
- Make sure a water lock is used in the water connection.

- If the power cord is damaged it must be replaced by the manufacturer, the supplier or similar qualified persons.
- Do not use an extension cord.
- Do not use an external timing device to manage the availability of the machine.
- Damaged water connection hoses may only be repaired by trained personnel.
- Make sure to follow instructions on all safety labels on and in the coffee machine.
- Do not remove safety labels.

1.3 Installation

For instructions about transportation, unpacking, and installation of the machine, consult the Technical manual.

- Installation, transportation, and adjustment of the machine is specialized work, only properly trained service personnel is allowed to do this.
- The coffee machine is for indoor use only.
- Make sure the machine is placed on a level, flat and stable surface in a hygienic, dry room with a temperature between 5...40 °C .
- Make sure that the electricity and water supply connections comply to local regulations and remain easily accessible after installation.

1.4 Maintenance

Regular cleaning is needed to ensure hygienic operation of the machine. This manual explains all cleaning procedures to ensure a proper operation of the coffee machine.

1.5 Extended down time

- If the coffee machine will not be used for a longer period of time (more than one week) it is recommended to turn off the water supply and the electricity (if the power switch is not accessible pulling the main power plug from the wall socket is sufficient). This will also prevent unnecessary use of energy. If the coffee machine was used also check the cleaning procedures in section [Switch off / Putting out of order](#) (on page 47).
- In areas where the temperature can drop below freezing point, the boilers must be emptied. When freezing has occurred allow sufficient time for the machine to reach room temperature before switching on the machine. Contact your supplier (see [Service and support](#) on page 3) for more information.

Description

2.1 Overview

The Virtu coffee machine is a compact semi-automatic machine for the preparation and vending of hot (and optionally cold) drinks. The coffee machine is equipped with the Uni-Brewer and uses filter paper to make fresh coffee.

The coffee machine is operated using the touchscreen panel on the door. By tapping one of the buttons on the screen a product choice can be made. Before a beverage is dispensed a cup or jug must be placed under one of the outlets. More details are found in the sections:

- [Using the coffee machine](#) (on page 33) and
- [User interface](#) (on page 20) for information shown on the touchscreen.

The next sections contain drawings of the front, the inside and the optional base cabinet of the coffee machine. The drawings show the location and the name of the most important parts of the machine.

More details are also found in the chapter [Technical specifications](#) (on page 108).

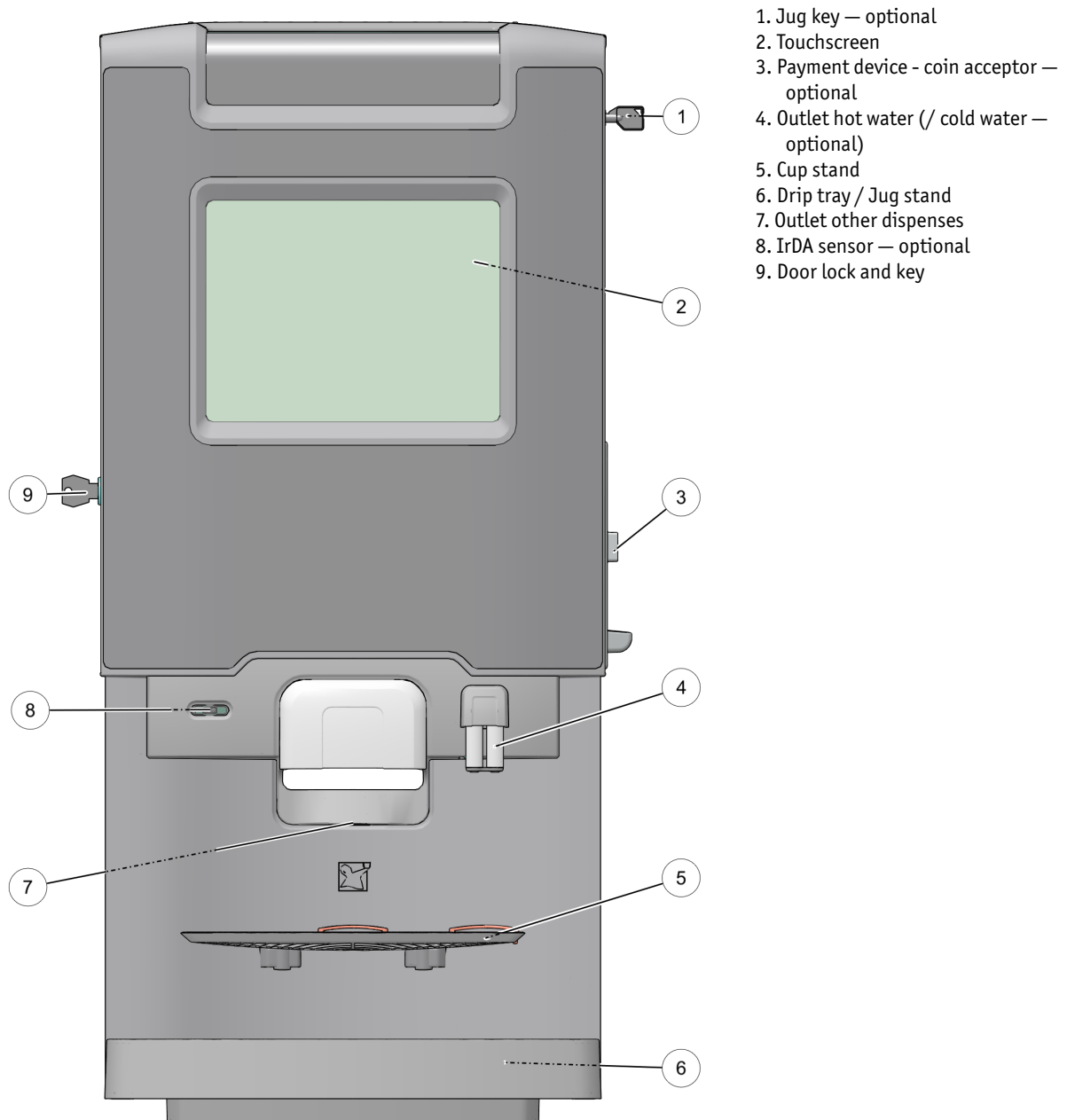
2.1.1 Front view

Front view Virtu (small model)



NOTE

All pictures show a generic configuration. The actual model can be different. To improve clarity, colors in the pictures may be different from the actual colors.



2.1.2 Inside view

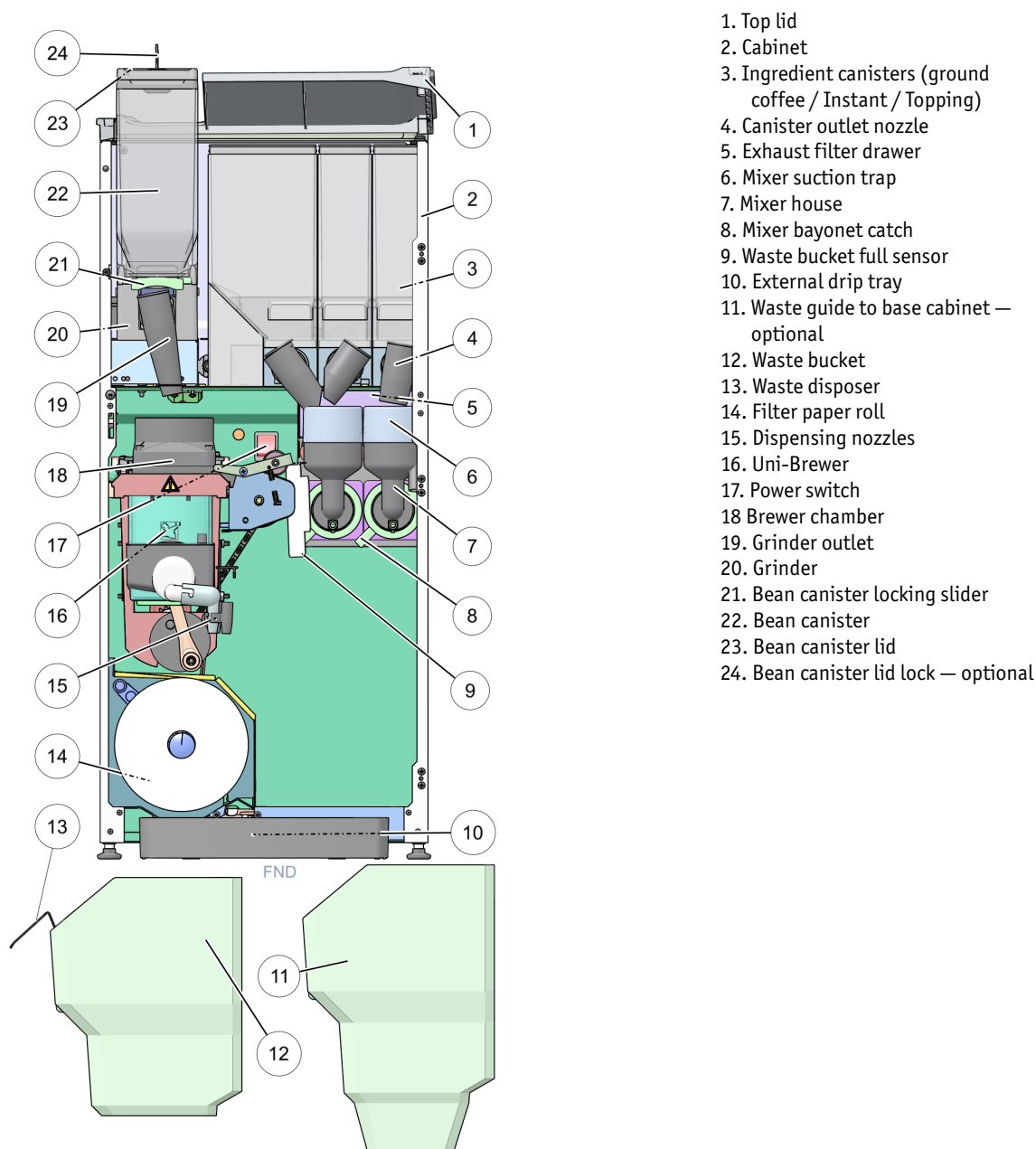
The inside view shows the location and names of the most important parts.



NOTE

All pictures show a generic configuration. The actual model can be different. To improve clarity, colors in the pictures may be different from the actual colors.

Inside view Unibrewer (small model)

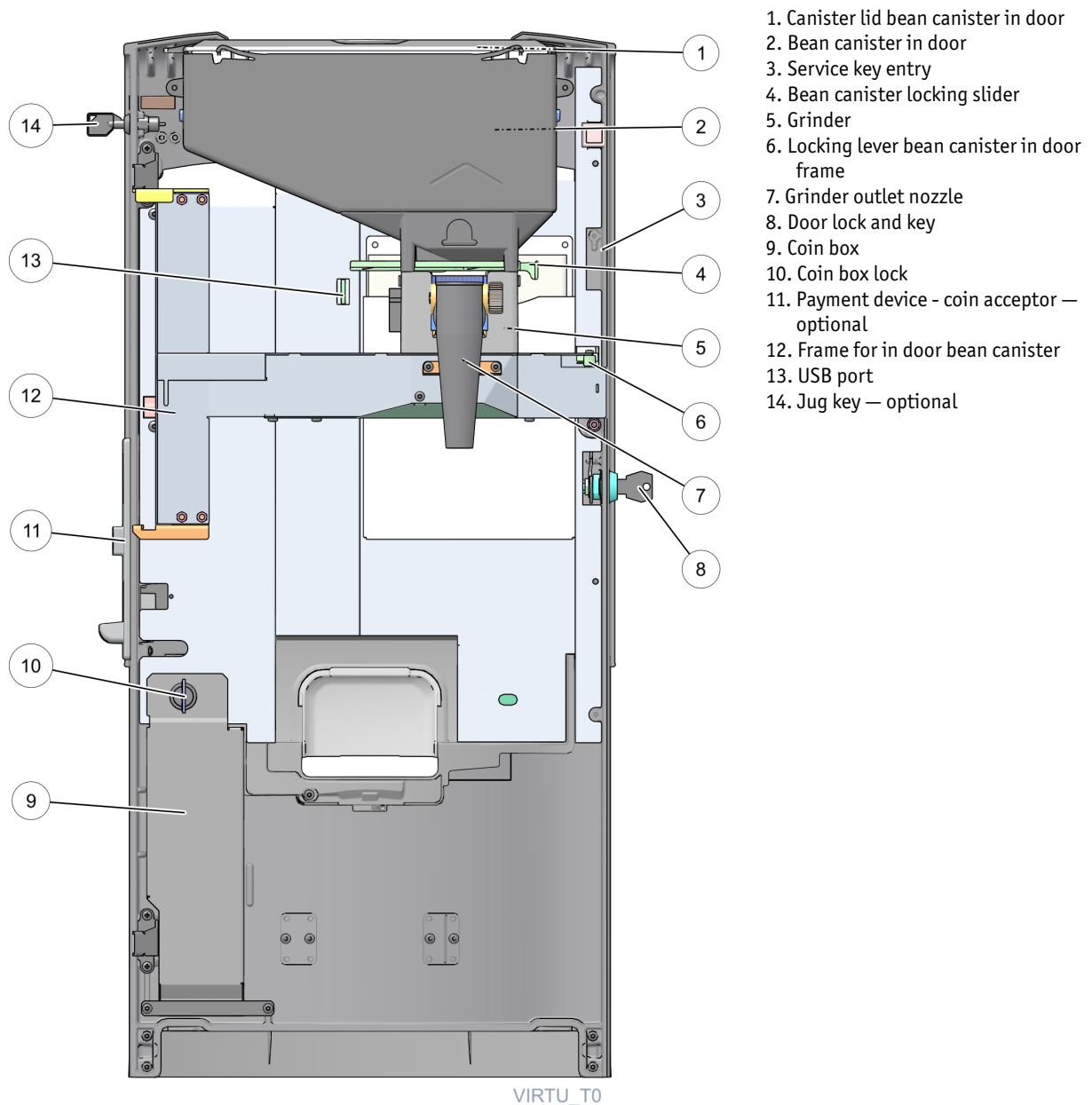


2.1.3 Door interior

Door interior Virtu small model CoEx / Uni-brewer with optional payment device (coin acceptor) and Bean Canister in door

NOTE

All pictures show a generic configuration. The actual model can be different. To improve clarity, colors in the pictures may be different from the actual colors.



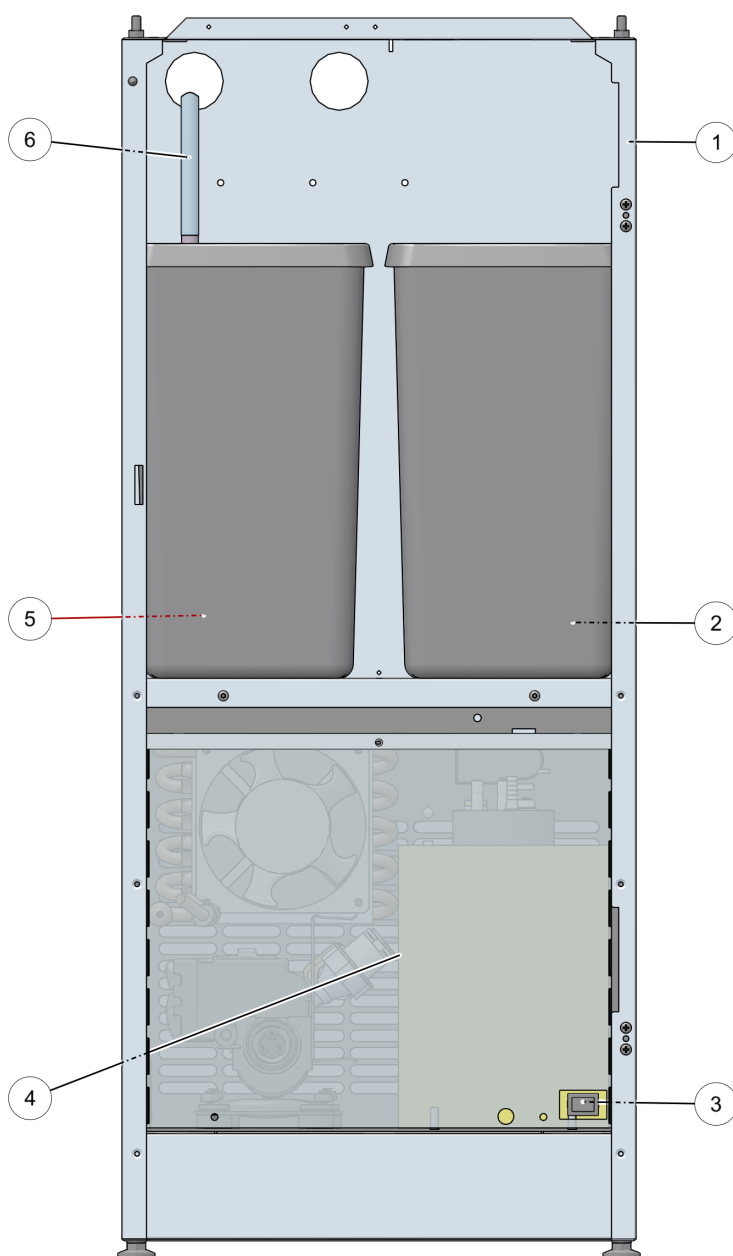
2.1.4 Inside view base cabinet — optional

Inside view base cabinet CoEx / Unibrewer (small model)



NOTE

All pictures show a generic configuration. The actual model can be different. To improve clarity, colors in the pictures may be different from the actual colors.



- 1. Base cabinet
- 2. Waste bin
- 3. Chiller flush button CO2 — optional
- 4. Chiller sub cabinet — optional
- 5. Waste water bin
- 6. Sensor waste water level — optional

User interface

3.1 Display layout

The coffee machine is operated with a touchscreen on the door. All selections are made by tapping (a short press) on one of the buttons or menu tabs on the touchscreen.

Main screen layout (example)



NOTE

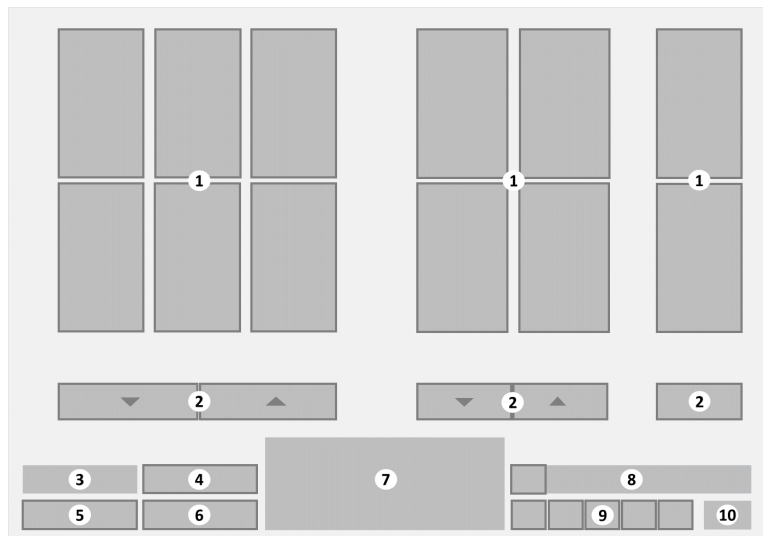
All drawings and screen images of the coffee machine are based on generic configurations. The actual model will be different but the functionality is similar.

All screens and menus are explained in detail in the next sections. Using the touchscreen to dispense a beverage is explained in the chapter [Using the coffee machine](#) (on page 33).

3.2 Main menu - Cup dispensing

The **Main** menu (or screen) is displayed when the machine is ready for use. It gives access to selections for cup dispensing and all other functions.

Main selection screen



- | | |
|---|--|
| 1. [Cup beverage selections] buttons | 6. [Number selection] button — optional |
| 2. [Scroll up/down] buttons — optional | 7. Logo — optional |
| 3. Credit amount — optional | 8. Message area |
| 4. [Info] — optional | 9. Language menu buttons — optional |
| 5. [Jug] button — optional | 10. Clock — optional |

Beverage selection

The main screen shows a selection of the most popular beverages. The available beverages are logically grouped in blocks. When more selections are available than can be displayed in a block, a **[Scroll up/down]** button with an arrow is displayed. Tap this button to show the other available beverage selections. Each beverage button contains a small impression of the beverage, the name and, when payment mode is activated, the price of the beverage. Tap a button to select a beverage.

Lower part of the screen

The lower part of the screen contains at least:

- Message area
Relevant status information about the coffee machine is displayed in the message area. If more than one message must be displayed they are shown in sequence. Tap the **[!]** exclamation mark in front of the message to open the **Message submenu** (on page 30) to see all messages completely. Check the [Message submenu](#) (on page 30) for more details.
- Clock

Displays the current time (as set in the coffee machine).

Optional Depending on the model and configurations of the coffee machine the following options can be available:

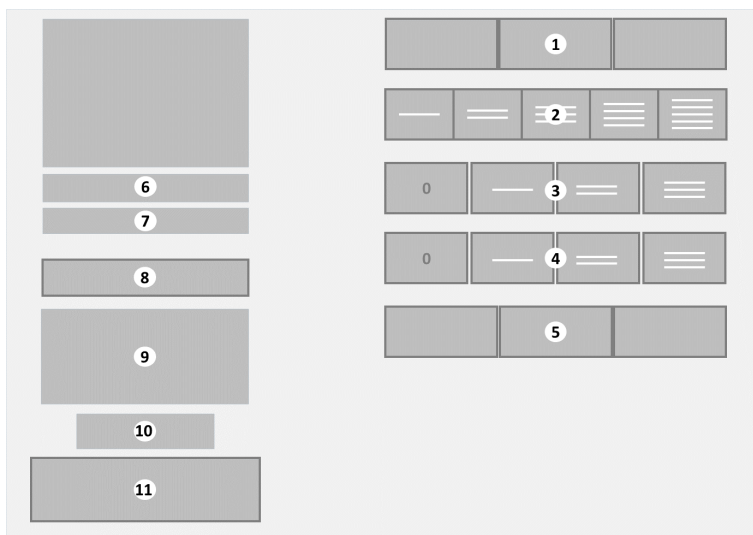
- **Credit amount** — optional
When payment mode is activated, the credit value is displayed. It is the total amount of money already entered for payment of a beverage.
- **[Info]** — optional
Tap the **[Info]** button to open the **Information submenu** (on page 32) with more details about ingredients.
- **[Jug]** — optional
Tap this button to open the **Jug dispensing submenu** (see [Jug dispensing](#) on page 37) with selections to fill complete jugs.
- **[Number selection]** — optional
Tap this button to open the **Number selection submenu** for quick dispense of a beverage.
- **Logo** — optional
- **Language** — optional
If more languages are available the screen shows a selection of language buttons. Tap on the desired language button to change the text on the screen to the selected language.

3.2.1 Additional options submenu

The **Additional options submenu** is displayed after a beverage selection (cup or jug) is made on the **Main menu** (see [Main menu - Cup dispensing](#) on page 21).

- This submenu is not available if the (selected beverage on the) coffee machine is configured for **direct** dispense only.
- The options shown in the submenu depend on the selected beverage, some beverages will have no options at all.
- If a jug dispense is selected, the **[Start]** and **[Cancel]** buttons are available. If canister selection is possible this button bar is displayed.

Additional options submenu



- | | |
|---|--------------------------------|
| 1. [Canister selection] button bar — optional | 7. Currently selected beverage |
| 2. [Strength] button bar — optional | 8. [Cancel] button |
| 3. [Add-on] button bar — optional | 9. Message area |
| 4. [2nd Add-on] button bar — optional | 10. Credit amount — optional |
| 5. [Cup size] button bar — optional | 11. [Start] button |
| 6. Price for this beverage — optional | |

Depending on the configuration additional options are displayed in the submenu. The following options are possible:

- *Canister selection bar*: to select an ingredient from a different canister after initial selection. For example, when coffee is selected, it is then possible to select the type of coffee from different canisters. The current selection is highlighted. Depending on configuration and availability of ingredients, a two or three options bar is shown. Tap the desired canister.
- *Strength selection bar*: to adjust the amount of coffee ingredient. The default strength is the middle button. The selected strength will be highlighted.

- tap a **[LINE]** button for the desired strength. More lines is more strength.
- *Add-on selection bar*: to add an extra ingredient, for example milk, to the selected coffee. The selected amount is highlighted. Tap the desired amount.
 - **[0]** is **no** added ingredient (default).
 - tap a **[LINE]** button for the desired amount of added ingredient. More lines is more ingredient.
- *2nd Add-on selection bar*: to add another extra ingredient, for example sugar, to the selected coffee.
- *Cup size bar*: to select different cup sizes, a two or three options bar can be displayed. The current cup size selection is highlighted. Tap the desired cup size.

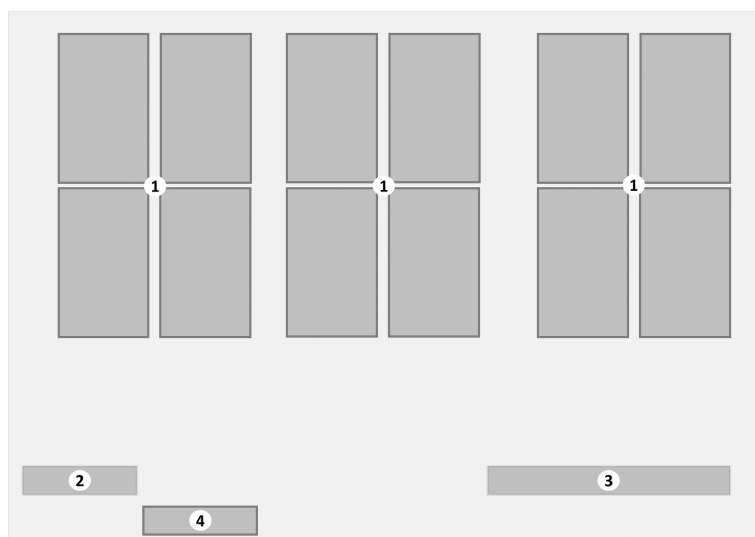
The remaining information on the screen:

- Price for the selected beverage. Only visible if payment is activated for the machine.
- The currently selected beverage.
- The **[Cancel]** button. Tap to cancel the current selection and return to the Main menu.
- The Message area. Displays relevant messages of the coffee machine. Tap the **[!] exclamation mark** button to open the [Message submenu](#) (on page 30). Details of all messages and possible solutions to solve simple issues are listed in the section [Messages](#) (on page 101).
- Credit. Displays the amount already entered to pay for the selected beverage. Only visible if payment is activated for the machine.
- The **[Start]** button. Tap this button to start the preparation of the beverage. The button is disabled if no full payment is made or if another problem is found that prevents the dispense. Check the displayed message(s) in the message area.

3.2.2 Jug dispensing submenu

The **Jug dispensing** submenu is displayed after tapping the **[Jug]** button on the **Main** menu (see [Main menu - Cup dispensing](#) on page 21). On some models this menu is only available if the jug function is activated with a jug key or pin code.

Jug dispensing menu



1. **[Jug selection]** buttons
2. Credit amount — optional
3. Message area
4. **[Cup mode]** button

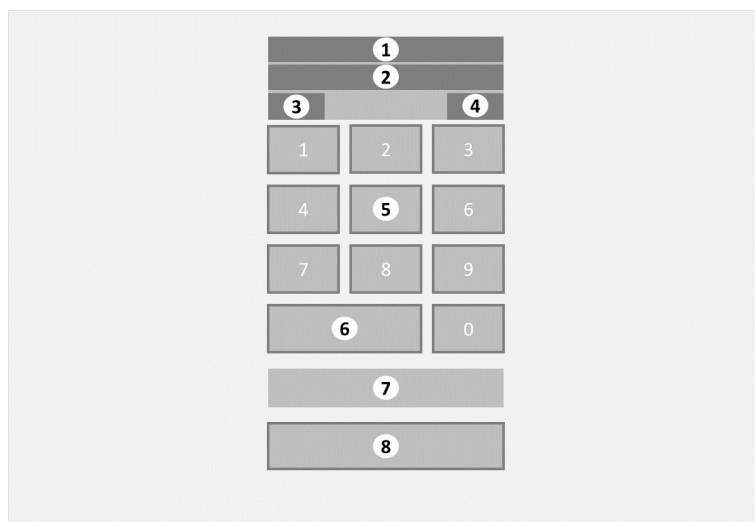
The menu shows the following information:

- The Jug dispensing submenu displays a number of selection buttons with beverages to fill (part of) a jug. Each button contains a small image with an impression of the beverage, the name and, when payment mode is activated, the price of the jug dispense. Tap a button to select a beverage.
- The Message area displays relevant messages of the coffee machine. Tap the **[!] exclamation mark** button to open the [Message submenu](#) (on page 30). Details of all messages and possible solutions to solve simple issues are listed in the section [Messages](#) (on page 101).
- The **[Cup mode]** button. Tap it to cancel the jug selection and return to the Main menu (see [Main menu - Cup dispensing](#) on page 21).

3.2.3 Number selection submenu

The **Number selection** submenu is displayed when the **[Number Selection]** button is tapped on the **Main** menu (see [Main menu - Cup dispensing](#) on page 21).

Number selection menu



1. Currently entered number selection
2. Actual beverage name
3. Beverage price in payment mode — optional
4. Credit in payment mode — optional
5. Numeric keypad with **[0...9]** buttons
6. **[Cancel]** button
7. Message area
8. **[Start]** button

The display shows the following information:

- The unique number entered for the selected beverage is visible in the small window.
- The actual name connected to the entered number.
- Use the keypad to tap in the **[number selection]** of the desired beverage.



NOTE

The unique number that must be entered here is shown on the **Dispense** menu (see [Dispense submenu](#) on page 28) screen when a beverage is prepared.

- Tap the **[Start]** button to start the preparation and dispense of the beverage.
- Tap the **[Cancel]** button to exit the number selection and return to the **Main** menu.

**NOTE**

If payment is activated for this beverage and the credit amount is smaller than the price of the beverage the **[Start]** button is disabled until full payment has been made. The price for the selected beverage is shown and the credit amount already entered.

- The Message area displays relevant messages of the coffee machine. Details of all messages and possible solutions to solve simple issues are listed in the section [Messages](#) (on page 101).

3.2.4 Dispense submenu

The **Dispense** submenu is shown during preparation and dispense of the beverage.

Dispense submenu



- 1 Progress indicator
2. Beverage name
3. Unique beverage code
4. **[Stop]** button

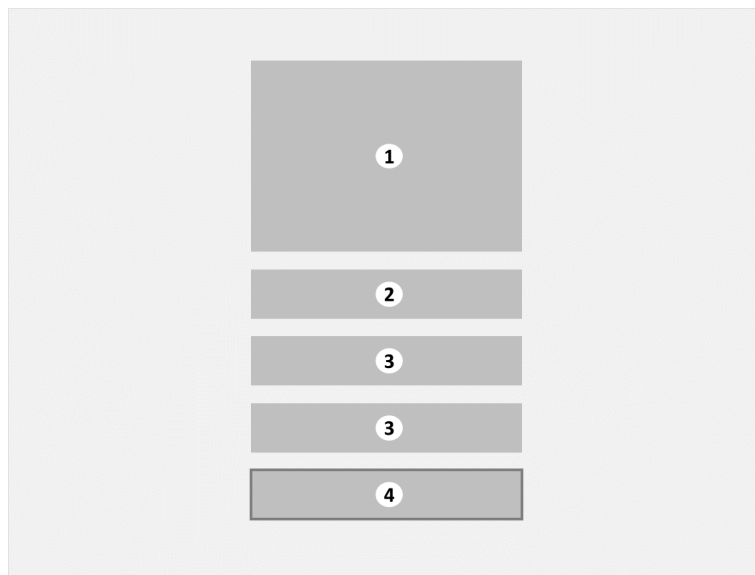
When the beverage is prepared / dispensed the display shows:

- An impression and/or the name of the beverage currently being prepared.
- An indicator showing the progress of the dispense of the beverage.
- The number displayed is the unique number for the beverage currently prepared. Use this number in the [Number selection submenu](#) (on page 26) — optional for quick dispense of the preferred beverage.
- The **[Stop]** button. Tap it to abort the current dispense and return to the **Main** menu (see [Main menu - Cup dispensing](#) on page 21).

3.2.5 Ready submenu

The **Ready** submenu is shown when the coffee machine is finished with the dispense.

Ready submenu



1. Progress indicator
2. Message when dispense is finished
3. Unique number of prepared beverage
4. **[Cancel]** button

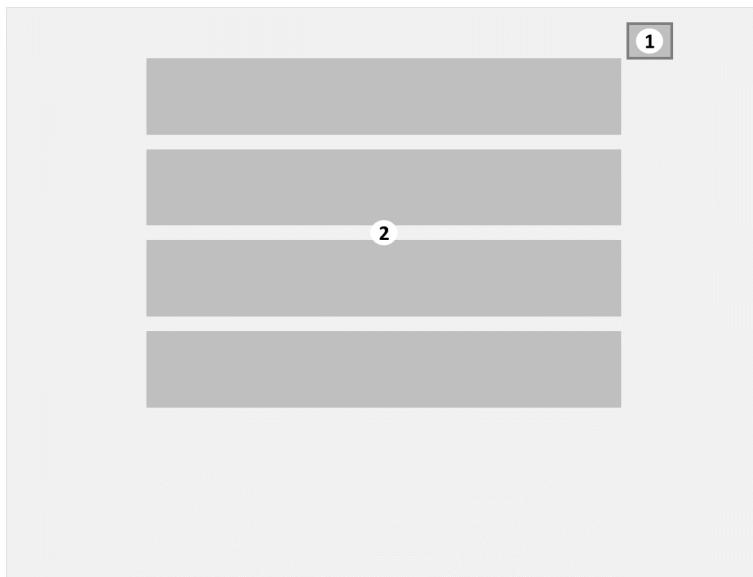
When the dispense is completed the display shows:

- A dispense progress indicator at 100% completed.
- the message 'Ready, take your cup' to indicate it is safe to remove the beverage (cup or jug).
- The unique number for the beverage that was prepared. Instead of using the selection and options screens to prepare the preferred beverage this unique number can be entered using the [Number selection submenu](#) (on page 26) — optional.
- The **[Cancel]** button. Tap it or remove the cup/jug to return to the **Main** menu (see [Main menu - Cup dispensing](#) on page 21).

3.2.6 Message submenu

The **Message** submenu shows all relevant messages for this coffee machine in one screen. Tap the **[!]** **exclamation mark** button on any screen to open this [Message submenu](#) (on page 30). Details of all messages and possible solutions to solve simple issues are listed in the section [Messages](#) (on page 101).

Message submenu



1. **[X]** close button
2. List of all active messages

The message screen displays all active messages from the coffee machine.

- Tap the **[X]** button or tap somewhere in the message area to return to the previous menu.

There are three levels of messages

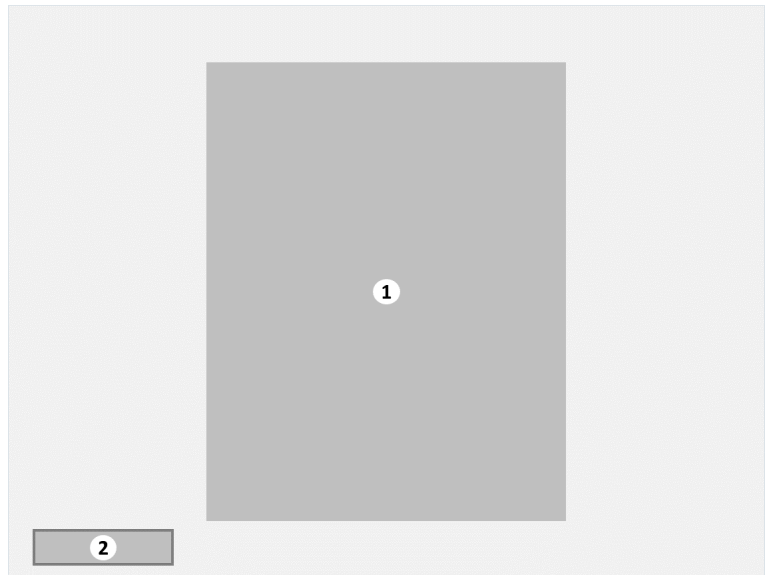
- display only messages, e.g. 'Install drip tray'. When this message is displayed the coffee machine continues to work, even without the drip tray.
- disable dispense messages, e.g. 'Insert coins (see [Message: Insert coins](#) on page 103)'. When this message is displayed the coffee machine is fully functional except for the dispense. In this case the **[Start]** button will be enabled after full payment is made.
- disable selections messages, e.g. 'Water level 2 too low'. When this message is displayed some or all beverage selection buttons are disabled. When the boilers are filled and the water level is correct the message is removed and the selection buttons are enabled.

Details of all messages and possible solutions to solve simple issues are listed in section [Messages](#) (on page 101).

3.2.7 Information submenu

The **Information** submenu is displayed after tapping the **[Info]** button on the **main menu** screen. It shows details about the ingredients or the coffee machine.

Information submenu



- 1. Customized information
- 2. **[Cancel]** button

The customized information image shows details about the beverage or coffee machine and is defined for every available language (for example: Food allergy warnings).

Tap the **[Cancel]** button to return to the **Main menu**.

Using the coffee machine

4.1 Before use

Transportation, installation and adjustment of the machine is specialized work. Only properly trained service personnel should carry this out. Instructions about transportation, unpacking, and installation of the machine can be found in the Technical manual.

Switch on the coffee machine Perform the steps described in the procedure Switch on the machine (see [Switch on](#) on page 45).

4.2 Procedures

4.2.1 Select a beverage



NOTE

If the **Main** menu (see [Main menu - Cup dispensing](#) on page 21) is not shown, tap on the screen somewhere or place a cup on the cup stand.



NOTE

If the button **[Place cup and press here]** is shown, first perform a rinse procedure. (see [Scheduled rinse](#) on page 48)

Procedure Perform the following steps:

1. Tap the desired **[language]** button on the screen (optional). The screen will change to the selected language.



TIP

The selected language will remain active until the beverage is dispensed.

2. From the **Main** menu (see [Main menu - Cup dispensing](#) on page 21) select one of the following:
 - To fill a single cup using the selection menus continue with the procedure [Cup dispensing](#) (on page 35).
 - To (quickly) fill a single cup using pre-set ingredients continue with the procedure [Cup dispensing by number — optional](#) (on page 36).
 - To fill (part of) a jug continue with the procedure [Jug dispensing](#) (on page 37).

4.2.1.1 Cup dispensing

Procedure Perform the following steps:

1. Tap the desired beverage button from the selections on the **Main** menu (see on page 21).
 - or first tap one of the **[Scroll Up/down]** buttons and then select the desired beverage.
2. The [Additional options submenu](#) (on page 23) with the selected beverage is shown.
3. When available and needed, tap one or more of the desired option(s) to make additional changes.
4. Place a cup under the correct outlet.
 - check the drawing of the [front view](#) (on page 16) for the correct outlet.
 - depending on the model, if the coffee machine contains a cup dispenser a cup is automatically placed.
5. Tap the **[Start]** button to prepare the beverage.
 - or tap **[Cancel]** to return to the **Main** menu (see on page 21).
 - when payment mode is activated, full payment is needed first to enable the **[Start]** button. Check the [payment](#) (on page 39) section for more details.
6. The **Dispense** submenu (see on page 28) is now shown and the beverage is prepared.
 - or tap the **[Stop]** button to interrupt and stop the dispense.
7. When the dispense is finished the [Ready submenu](#) (on page 29) is shown.
 - do not remove your cup before the message 'Ready, take your cup (see [Message: Ready, take your cup](#) on page 107)' is visible. The message will remain visible on the screen until the cup is removed.
 - To add an additional beverage to the same cup, do not remove the cup but tap the **[Cancel]** button and select the next beverage.
8. The prepared drink is ready.



WARNING

Hot liquid can leak from the outlet nozzle after the dispense is finished.

4.2.1.2 Cup dispensing by number — optional

Each beverage with specific strength and/or added ingredients has its own code. Instead of entering all selections, this code can be used to dispense the beverage more quickly with required strength and additional ingredients.



NOTE

This procedure is optional and only available if the **[Number Selection]** button is available on the Main menu.

Procedure Perform the following steps:

1. Tap the unique **[number]** of the desired beverage on the keypad displayed on the screen.



NOTE

The actual number that needs to be entered here is shown on the **Dispense** menu (see [Dispense submenu](#) on page 28) screen when the beverage is prepared / during dispense.

2. Tap the **[Start]** button to prepare the beverage.
 - or tap **[Cancel]** to return to the **Main** menu (see on page 21).
 - when payment mode is activated, full payment is needed first to enable the **[Start]** button. Check the [payment](#) (on page 39) section for more details.
3. The **Dispense** submenu (see on page 28) is now shown and the beverage is prepared.
 - tap the **[Stop]** button to interrupt and stop the dispense.
4. When the dispense is finished the [Ready submenu](#) (on page 29) is shown.
 - do not remove your cup before the message 'Ready, take your cup (see [Message: Ready, take your cup](#) on page 107)' is visible. The message will remain visible on the screen until the cup is removed.
 - To add an additional beverage to the same cup, do not remove the cup but tap the **[Cancel]** button and select the next beverage.
5. The prepared drink is ready.



WARNING

Hot liquid can leak from the outlet nozzle after the dispense is finished.

4.2.1.3 Jug dispensing

Purpose When configured it is possible to fill complete jugs at once. On some models this option is available after activation with a jug key or pin code.

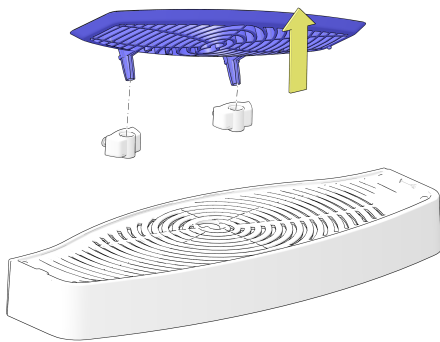
Procedure Perform the following steps:



WARNING

The outlet of the machine may occasionally drip hot liquid even when the machine is not in use.
When hot liquid comes in contact with a person, this can lead to serious scalding injuries.

1. Lift and remove the cup stand from the suspension points in the door.



2. For hot water place the jug on the **right** side below the hot water outlet.



WARNING

If jugs are not correctly placed, the machine can spill hot liquid down the front. This can cause serious scalding injuries.

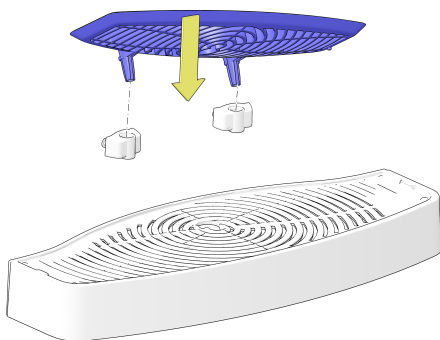




3. For all other dispenses place the jug in the **middle** below the main outlet.
4. If the jug submenu is not visible tap the **[Jug]** button from the main menu (see [Main menu - Cup dispensing](#) on page 21).
5. Tap the desired beverage and jug filling from the shown selection buttons.
 - or tap the **[Cup mode]** button to return to the **Main menu**
6. Tap the **[Start]** button to start the dispense.
 - tap the **[Cancel]** button to return to the **Main menu** (see [Main menu - Cup dispensing](#) on page 21).
 - when payment mode is activated, full payment is needed first to enable the **[Start]** button. Check the [payment](#) (on page 39) section for more details.
 - if the **[Start]** button is disabled check the Message area for more details.
7. The Dispense submenu (see [Dispense submenu](#) on page 28) is now displayed.
 - tap the **[Stop]** button to interrupt and stop the dispense.
8. When the dispense is finished the [Ready submenu](#) (on page 29) is shown.
 - do not remove your cup/jug until the message "*Ready, take your cup*" (see [Message: Ready, take your cup](#) on page 107) is shown.
 - the message will remain visible on the screen until the cup/jug is removed.
 - to add an additional beverage to the **same** cup/jug tap the **[Cancel]** button.



CAUTION - Hot liquid can leak from the outlet nozzle after the dispense is finished.



9. The filled jug is ready.
10. Place the cup stand back in the suspension points in the door.

4.2.2 Payment

Purpose If the coffee machine is activated for payment, the cup or jug dispense will only start after full payment is made.

Procedure Perform the following steps:

1. The *price* for the dispense of the selected cup / jug is shown on the screen.
2. Make the full payment.
 - The entered *credit* amount is calculated and shown on screen.



NOTE

The **[Start]** button will remain disabled until full payment is made.

Preventive maintenance

5.1 Food safety engagement

Food safety and quality are important for both customer and those who work in the vending industry. Respecting a number of basic principles, such as personal hygiene, is essential. We therefore advise you to follow the advice given in "A hygiene guide for vending". This guide is published by the European Vending and Coffee Association and has been prepared to help ensure that a hygienic product is delivered to the customer on every occasion.

5.2 Preventive maintenance schedule



NOTE

Skipping maintenance can affect the quality of the dispensed drink and may lead to malfunctioning of the machine. Clean the coffee machine at the end of the day and before the machine is switched off for a longer period.

The schedule below gives an overview of all procedures needed to maintain the coffee machine.

Preventive maintenance schedule Uni-Brewer (small model)

| Cleaning procedures for the coffee machine with intervals | D | W | M | H |
|---|---|---|---|---|
| Scheduled rinse (on page 48) | X | | | |
| Flush mixers and brewer (on page 49) | X | | | |
| Place new filter paper (on page 77) | X | | | |
| Clean the mixing system (on page 56) | | X | | |
| Remove and clean the brewer (on page 64) | | X | | |
| Clean brewer with cleaning tablet (on page 70) | | X | | |
| Clean waste bucket (on page 50) | X | | | |
| Clean the drip tray (on page 54) | X | | | |
| Clean the cup stand (on page 51) | X | | | |
| Clean the waste bin in the base cabinet (on page 52) | | X | | |
| Clean the cold water outlet nozzle — optional (on page 82) | | X | | |
| Deep clean the cold water outlet nozzle — optional (on page 83) | | | X | |
| General Cleaning cold water system ⁽¹⁾ | | | | X |
| Sanitization cold water system ⁽¹⁾ | | | | X |
| Clean the canisters (on page 81) | | | X | |
| Fill up the ingredient canisters (on page 85) | X | | | |
| Enter canister ingredient levels — optional (on page 96) | X | | | |
| Clean the outside of the machine (on page 97) | X | | | |
| Clean the touchscreen (on page 98) | X | | | |

(1) Cold water specific cleaning procedures must be performed by a certified dealer and are not explained in this end user manual.

| Interval column codes | | | | |
|-----------------------|---|---|---|---|
| Daily | D | | | |
| Weekly | | W | | |
| Monthly | | | M | |
| Every 6 months | | | | H |

5.3 Daily maintenance

Purpose Performing daily maintenance will ensure the quality of your beverages and a proper operation of the machine.

Procedure For daily maintenance follow these steps:

1. [Open the door](#) (on page 45) of the machine.
2. [Flush mixers and brewer](#) (on page 49).
3. [Clean waste bucket](#) (on page 50).
4. [Clean the drip tray](#) (on page 54).
5. [Clean the cup stand](#) (on page 51) in the door.
6. [Clean the waste bin in the base cabinet](#) (on page 52).
7. [Place new filter paper](#) (on page 77).
8. [Fill up the ingredient canisters](#) (on page 85).
9. [Enter canister ingredient levels — optional](#) (on page 96).
10. [Close the door](#) (on page 45).
11. [Clean the outside of the machine](#) (on page 97).
12. [Clean the touchscreen](#) (on page 98).
13. Check correct functioning by taking a test beverage.



NOTE

Each step is described in detail in the next sections.

5.4 Weekly maintenance

Purpose Performing weekly maintenance will ensure the quality of your beverages and a proper operation of the machine.

Procedure For weekly maintenance follow these steps:

1. [Open the door](#) (on page 45) of the machine.
2. [Clean the mixing system](#) (on page 56).
3. [Remove and clean the brewer](#) (on page 64).
4. [Clean brewer with cleaning tablet](#) (on page 70).
5. [Clean waste bucket](#) (on page 50).
6. [Clean the drip tray](#) (on page 54).
7. [Clean the cup stand](#) (on page 51) in the door.
8. [Clean the waste bin in the base cabinet](#) (on page 52).
9. [Clean the cold water outlet nozzle — optional](#) (on page 82).
10. [Fill up the ingredient canisters](#) (on page 85).
11. [Enter canister ingredient levels — optional](#) (on page 96).
12. [Close the door](#) (on page 45).
13. [Clean the outside of the machine](#) (on page 97).
14. [Clean the touchscreen](#) (on page 98).
15. Check correct functioning by taking a test beverage.

Each step is described in detail in the next sections.



NOTE

Increase the brewer cleaning frequency, if the coffee machine dispenses a lot of coffee related beverages every day.

5.5 Monthly maintenance

Purpose Performing monthly maintenance will ensure the quality of your beverages and a proper operation of the machine.

Procedure For monthly maintenance follow these steps:

1. [Open the door](#) (on page 45) of the machine.
2. [Clean the mixing system](#) (on page 56).
3. [Remove and clean the brewer](#) (on page 64).
4. [Clean brewer with cleaning tablet](#) (on page 70).
5. [Clean waste bucket](#) (on page 50).
6. [Clean the drip tray](#) (on page 54).
7. [Clean the cup stand](#) (on page 51) in the door.
8. [Clean the waste bin in the base cabinet](#) (on page 52).
9. [Deep clean the cold water outlet nozzle — optional](#) (on page 83).
10. [Place new filter paper](#) (on page 77).
11. [Clean the canisters](#) (on page 81).
12. [Fill up the ingredient canisters](#) (on page 85).
13. [Enter canister ingredient levels — optional](#) (on page 96).
14. [Close the door](#) (on page 45).
15. [Clean the outside of the machine](#) (on page 97).
16. [Clean the touchscreen](#) (on page 98).
17. Check correct functioning by taking a test beverage.

Each step is described in detail in the next sections.

5.6 Preventive maintenance procedures

5.6.1 Switch on

Procedure Perform the following steps:

1. Turn on the water supply.
2. Connect the power cord to the power mains socket.
3. [Open the door](#) (on page 45).
4. Switch the **[ON/OFF]** power switch to the *ON* position.
 - check the inside view drawing (see on page 17) for the precise location.
5. [Close the door](#) (on page 45).
6. The coffee machine will start up.
7. The main screen is displayed with the message 'filling boiler' and then 'heating boilers' in the message area (see on page 21) on the screen.



NOTE

If the door was left open for too long the service menu is shown.

Tap the **[Exit]** button and then the **[Close door and press here to quit service]** button to leave the **Service** menu.

8. After a few minutes the message 'heating boilers' disappears and the machine is ready for use.

5.6.2 Open the door

Procedure Perform the following steps:

1. Insert the **key** in the lock of the door of the coffee machine.
2. Turn the **key** 90 degrees clockwise.
3. Open the door.
 - The **Service** menu is displayed on the screen.



NOTE

Do not leave the door open unattended to prevent unauthorized access to the inside of the machine.

5.6.3 Close the door

Procedure Perform the following steps:

1. Insert the **key** in the lock of the door of the coffee machine.

2. Turn the **key** 90 degrees clockwise.
3. Close the door.
4. Turn the **key** 90 degrees counterclockwise to lock the door.
5. Remove the **key** and store it in a safe place.



NOTE

Always remove the key from the coffee machine to prevent unauthorized opening of the door.

6. (Optional) Leave the **Service** menu: tap the **[Exit]** button and then the **[Close door and press here to quit service]** button to return the main menu.

5.6.4 Open or close top lid

Purpose

To fill up or clean the canisters they need to be removed from the coffee machine. To allow easy access to the canisters, the top lid of the coffee machine can be opened.



NOTE

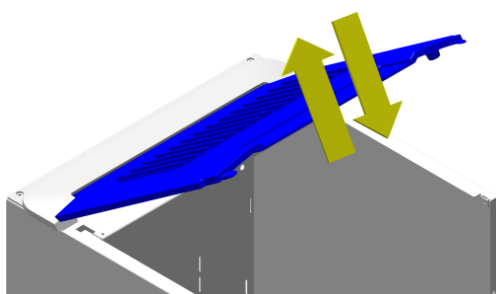
The top lid locks inside the door and can only be opened if the door is opened.

Depending on the model, the top lid can contain cut outs for one or two (bean) canisters.

Procedure

Perform one of the following steps:

1. To open, lift the top lid in the front and swing it open to the back. The top lid stays open in the upright position.
2. To close, swing the opened top lid back down. Make sure it is lowered completely and locks when the door is closed.



5.6.5 Switch off / Putting out of order

Procedure Perform the following steps:

1. [Open the door](#) (on page 45).
 2. Switch the **[ON/OFF]** power switch to the *OFF* position.
 - check the inside view drawing (see on page 17) for the precise location.
 - If the coffee machine is not used for a longer period of time (more than one week) it is recommended to:
 - perform a daily (see [Daily maintenance](#) on page 42) maintenance cleaning procedure or, if the machine is not used for a longer time it is recommended to perform a monthly (see [Monthly maintenance](#) on page 44) maintenance procedure.
 - turn off the water supply.
 - switch off the power supply (pulling the plug from the wall socket is sufficient). This will also prevent unnecessary use of energy.
- See also section: [Extended down time](#) (on page 14).

5.6.6 Scheduled rinse

Purpose Cleaning the coffee machine can be skipped or forgotten. The scheduled rinse is forced every day using a scheduler. When activated follow the procedure below to perform the rinse. Instead you can also run the [daily maintenance](#) (on page 42) or [weekly maintenance](#) (on page 43).

Required Use the following parts to perform the procedure:

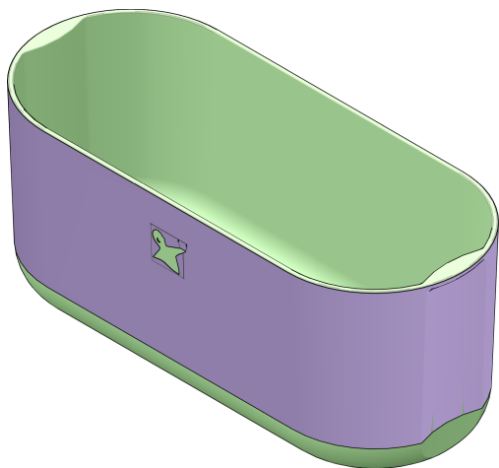
- A cup or rinsing tub.

Interval Perform this procedure:

- Daily (see [Daily maintenance](#) on page 42), announced on screen.

Procedure Perform the following steps:

1. Place a cup or rinsing tub underneath the outlet nozzle to collect the rinse water.
2. Tap the button **[Place cup and press here]** on the screen.
 - Hot water from the boiler flows through mixers and brewer.
3. A progress screen is shown.
 - Wait until the rinse procedure is finished.
 - Total time to rinse is 1 to 2 minutes.
4. Remove the cup or rinsing tub.
5. The machine returns to the **Main** menu (see [Main menu - Cup dispensing](#) on page 21) and is ready for use.



5.6.7 Flush mixers and brewer



NOTE

Performing daily (see [Daily maintenance](#) on page 42) maintenance will ensure the quality of your beverages and a proper operation of the machine.

Purpose The Rinse process flushes hot water through the mixers and the brewer to remove any residue.

Required Use the following parts to perform the procedure:

- Rinsing tub or 1 liter jug.
- Green service key.

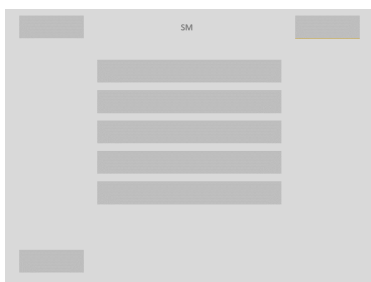
Interval Perform this procedure:

- At least Daily (see [Daily maintenance](#) on page 42), more if needed.

Total time • Total time needed to rinse is 1 to 2 minutes.

Procedure Perform the following steps:

1. If needed [Open the door](#) (on page 45) to show the service menu on the touch screen.
2. [Close the door](#) (on page 45).
3. Place a rinsing tub underneath the outlet nozzle to collect the hot waste water.
4. Tap the **[Rinse]** button from the **Service** menu.
 - Hot water from the boiler flows through the mixers and brewer.
5. Repeat the previous step until clean water comes out of the machine.



5.6.8 Clean waste bucket

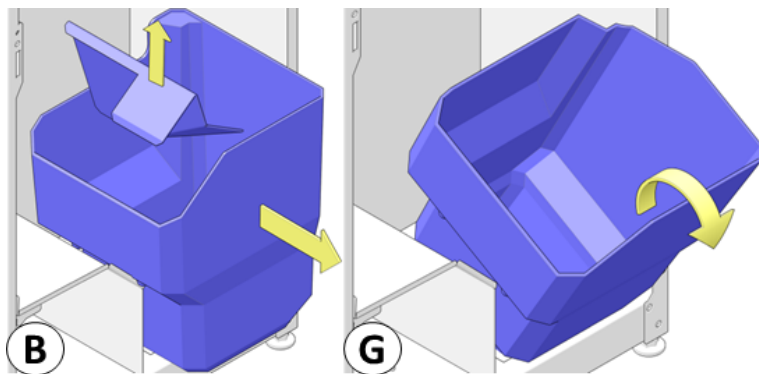
Purpose Used coffee filter paper and coffee residue is transported into the waste bucket. A metal waste disposer inside the waste bucket ensures a better distribution of the waste. Regular cleaning is needed. If an external waste bin is used, the waste bucket and disposer (B) are replaced by a waste guide (G).

Interval Perform this procedure:

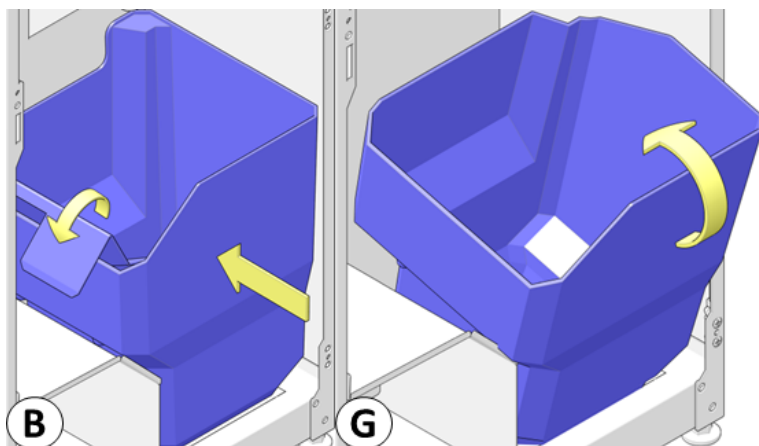
- Daily (see [Daily maintenance](#) on page 42).

Procedure Perform the following steps:

1. Depending on your model:
 - (B) remove the waste bucket and metal waste disposer.
 - (G) remove the waste guide.



2. Rinse the removed item(s) with clean warm water.
3. Dry item(s) completely.
4. Depending on your model:
 - (B) Install the waste bucket and hang the metal waste disposer on the left side of the waste bucket.
 - (G) Install the waste guide.



5.6.9 Clean the cup stand

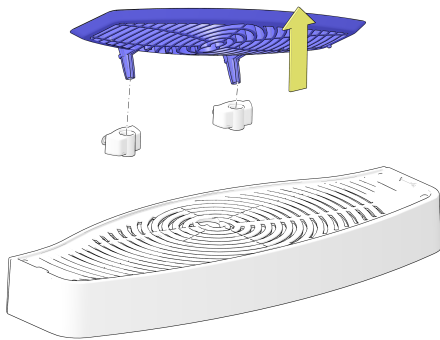
Purpose The cup stand must be removed from the machine and cleaned regularly.

Interval Perform this procedure:

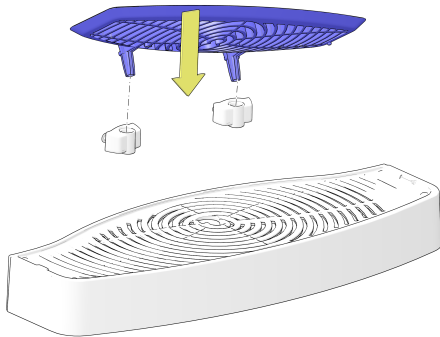
- Daily (see [Daily maintenance](#) on page 42)

Procedure Perform the following steps:

1. Lift the cup stand from the suspension points and remove it from the door.
2. Rinse the cup stand with clean warm water.



3. Place the cup stand back in the suspension points in the door.



5.6.10 Clean the waste bin in the base cabinet

Purpose If waste bins in a base cabinet (or other external cabinet) are installed, excess water from the brewer and waste water from the drip tray is captured in the left waste bin and coffee residue in the right waste bin. Both bins must be cleaned regularly.

NOTE

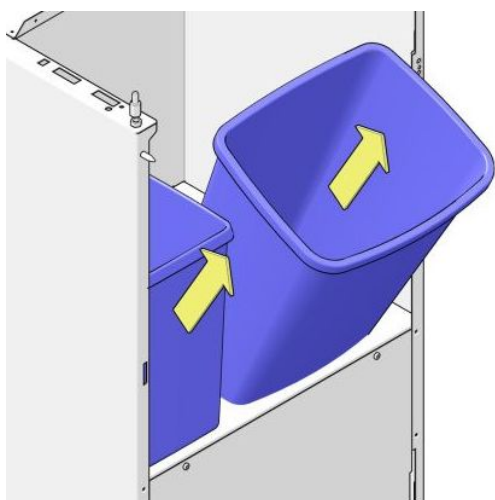
If a fixed waste water connection is used, a waste water bin is not installed.

Interval Perform this procedure:

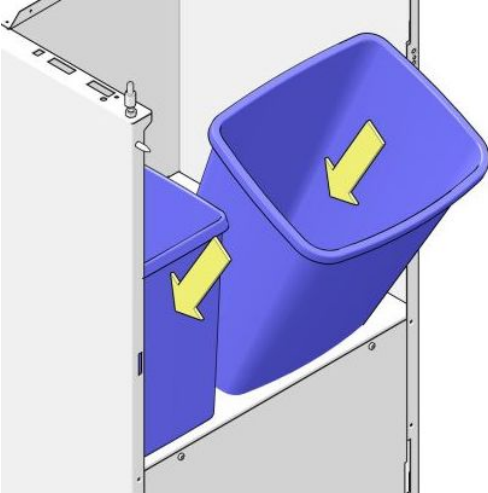
- Weekly (see [Preventive maintenance schedule](#) on page 41) or more if needed.

Procedure Perform the following steps:

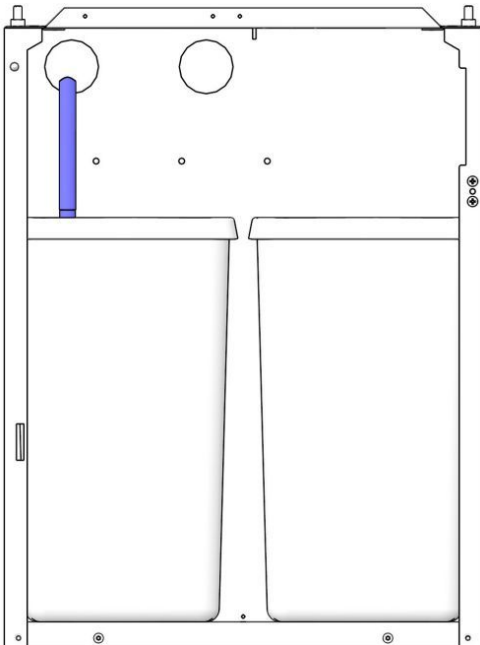
1. Remove the waste bin(s) from the base cabinet.
2. Rinse the removed bin(s) with clean warm water.
3. Dry the bin(s) completely.



4. Place the waste bin(s) in the base cabinet.



5. When used, make sure that the sensor for the waste water level is placed **inside** the left waste water bin.



5.6.11 Clean the drip tray

Purpose The external drip tray collects waste water from the coffee machine and waste water during the dispense of products and must be cleaned regularly. The drip tray is covered by the jug stand. Depending on the model, the jug stand can contain a metal inlay grid.

Interval Perform this procedure:

- Daily (see [Daily maintenance](#) on page 42).



NOTE

If the external drip tray is connected to a larger waste bucket/bin or directly into the main waste water disposal the cleaning interval can be lowered to once a week.

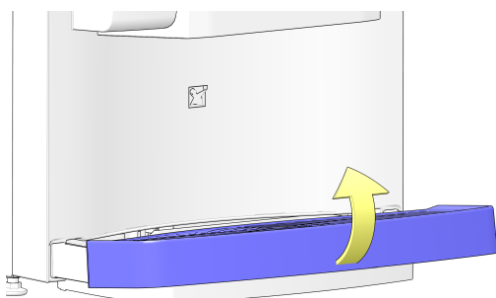
Procedure Perform the following steps:

1. Lift the jug stand at the front and remove it from the support guides in the door.
 - Depending on model the jug stand can contain a metal inlay that must be removed too.

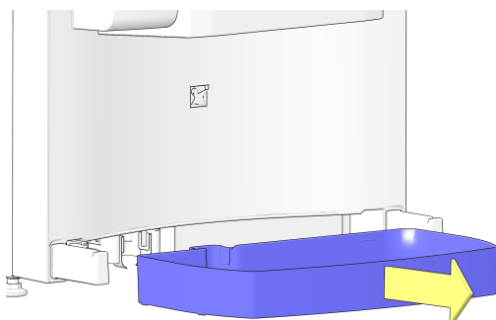


NOTE

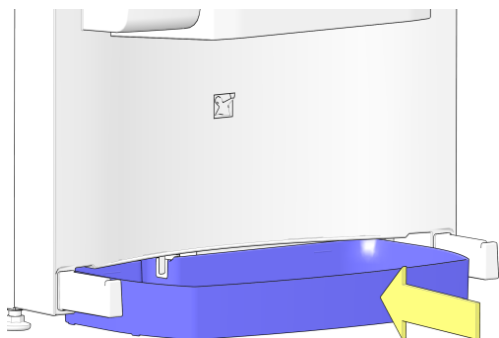
For clarity reasons the cup stands are not shown in the picture.



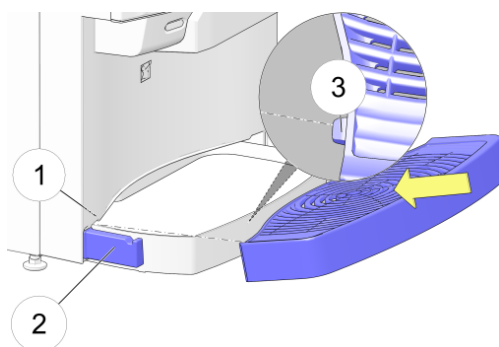
2. Pull the drip tray in the direction of the arrow and remove it from the machine.
3. Rinse all removed items with clean warm water.
4. Dry all items.



5. Place the drip tray.



6. Place the jug stand on the guides (2) and slide it in the direction of the arrow.

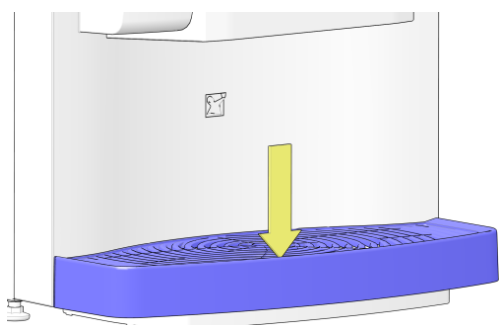


NOTE

Make sure that the ledges on the back of the jug stand (3) fit inside the notches in the door (1).

7. Push the jug stand down to secure it properly to the door and the support guides (2).

8. Depending on the model: place the metal inlay grid.



5.6.12 Clean the mixing system

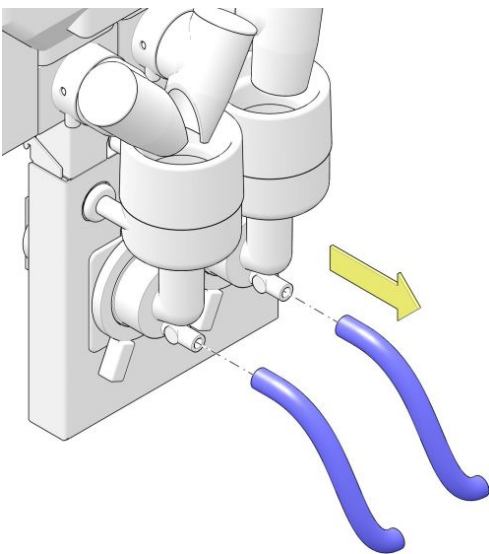
Purpose To prevent clogging of ingredients the mixers must be removed from the coffee machine and cleaned.

Interval Perform this procedure:

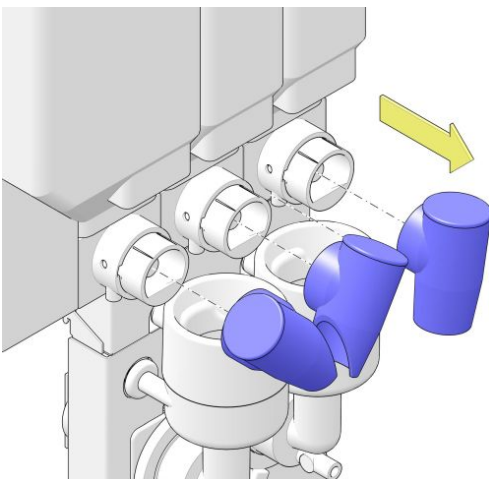
- Weekly (see [Preventive maintenance schedule](#) on page 41), more if needed.

Procedure Perform the following steps:

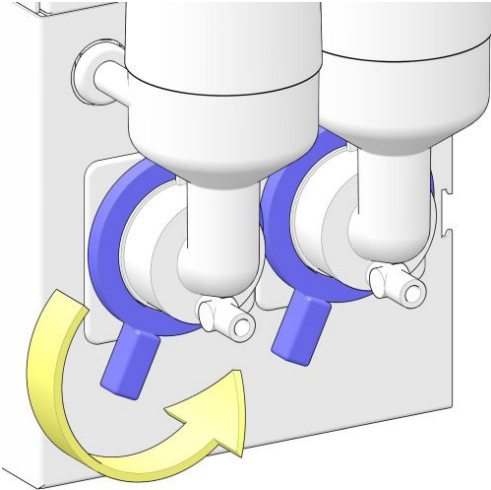
1. Remove the outlet hoses from the mixers.



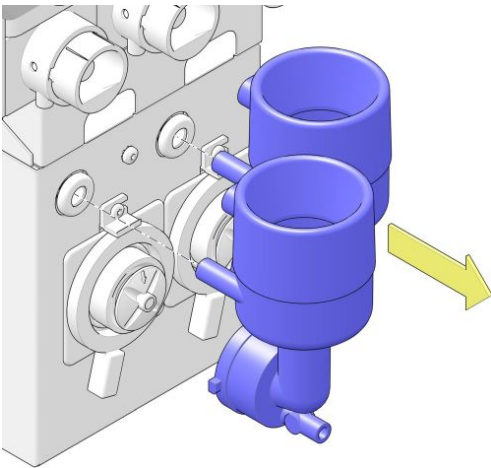
2. Remove the canister outlets and remember the correct position and location of each outlet.



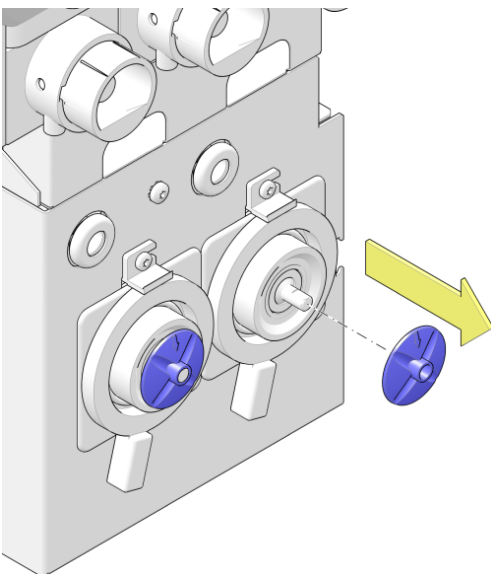
3. Turn the bayonet catches counterclockwise (approx. 10°).

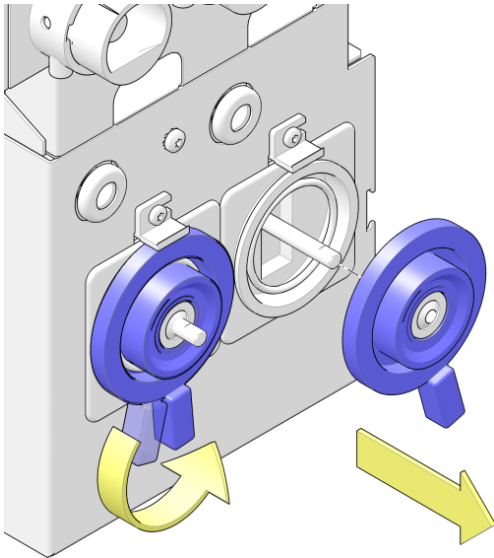


4. Pull the mixer houses in the direction of the arrow and remove them from the machine.

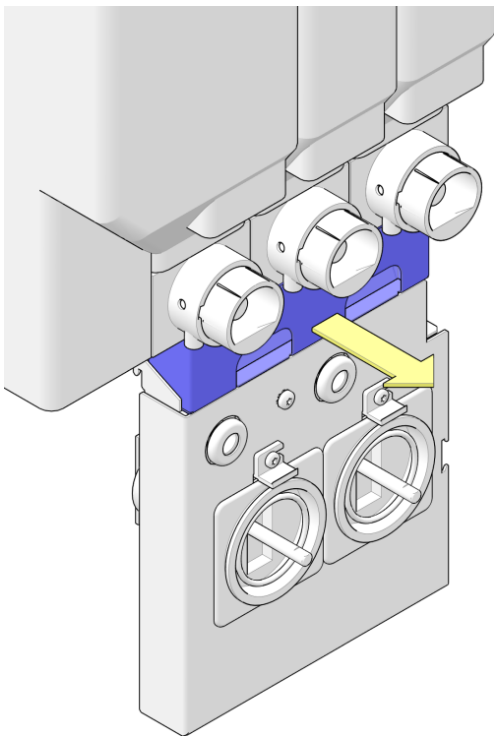


5. Pull the mixer propeller in the direction of the arrow and away from the shaft.

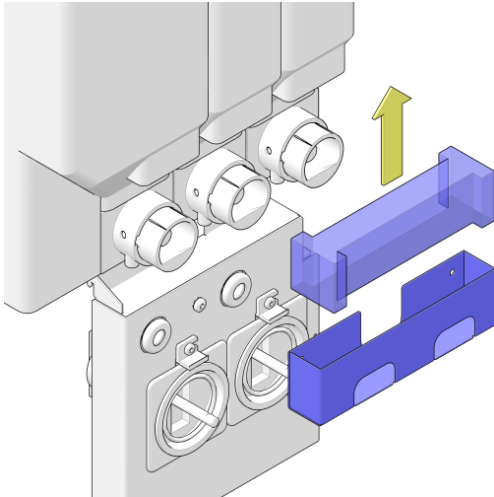




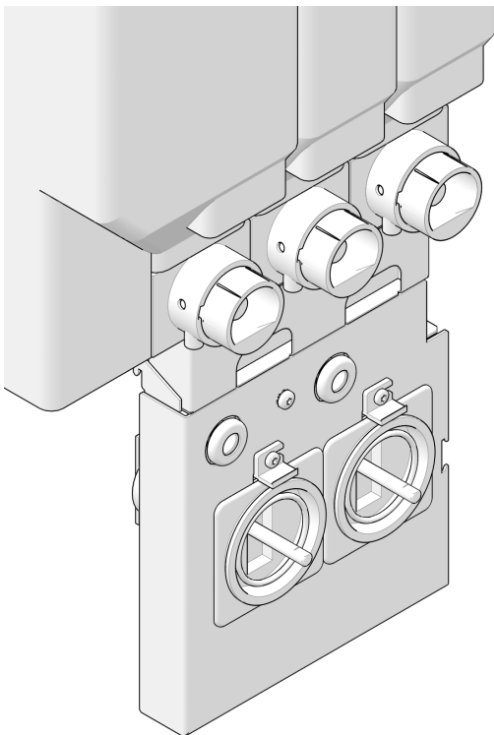
6. Turn the bayonet catches counterclockwise (approx. 10°) again to release and pull them in the direction of the arrow away from the machine.



7. Pull the exhaust filter drawer in the direction of the arrow and remove it from the machine.



8. Remove the exhaust filter from the drawer.
9. Rinse out all removed parts of the mixing system with clean warm water.



10. Clean the parts of the mixing system that remain in the machine with a wet brush.
11. Before continuing with the installation of the mixing system make sure **ALL** parts are dry.



TIP

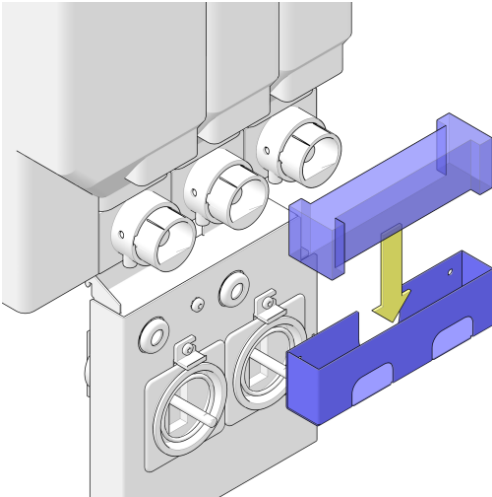
When available, use the clean and dry parts from the hygiene kit. The cleaning of the removed parts can be done after the machine has been put in operation again.

12. Insert the mixer exhaust filter in the filter drawer.

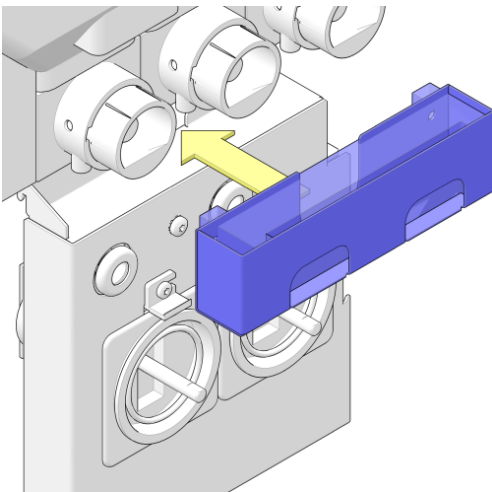


CAUTION

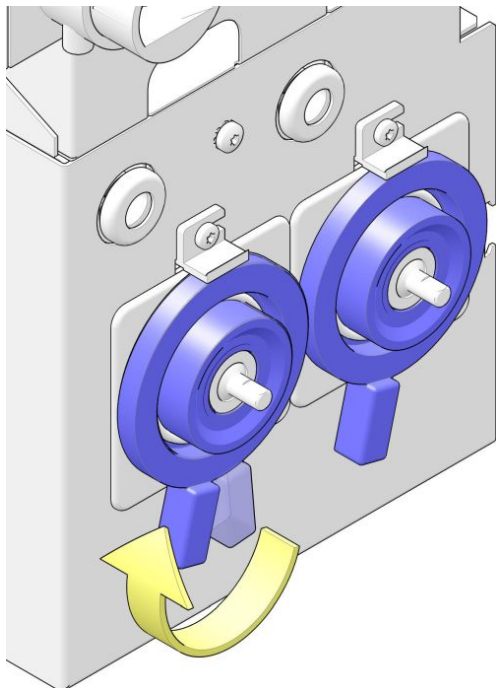
Make sure the exhaust filter is **completely dry** before installing it in the filter drawer.



13. Install the filter drawer.



14. Install the bayonet catches and turn clockwise (approx. 10°).

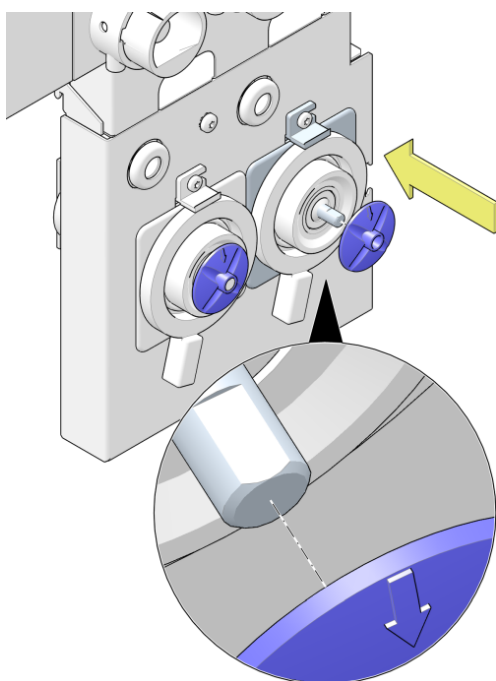


15. Install the mixer propellers.

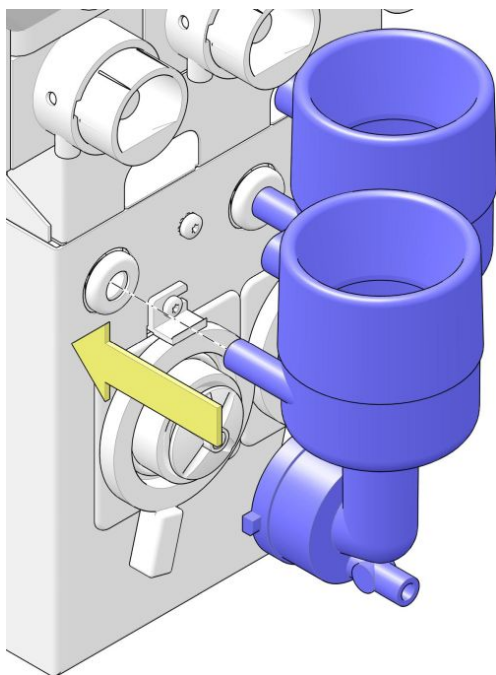


NOTE

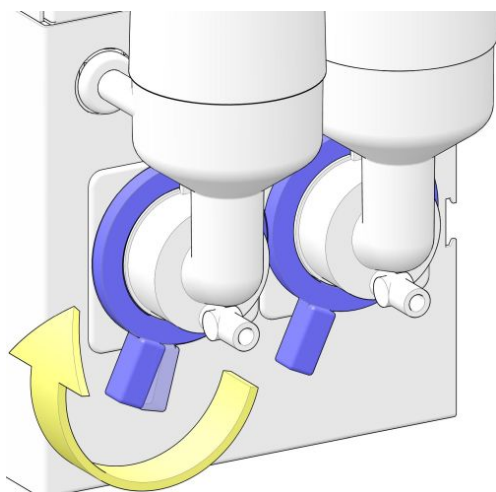
Make sure that the **arrow** on the mixer propeller points in the direction of the **flat** side of the shaft.



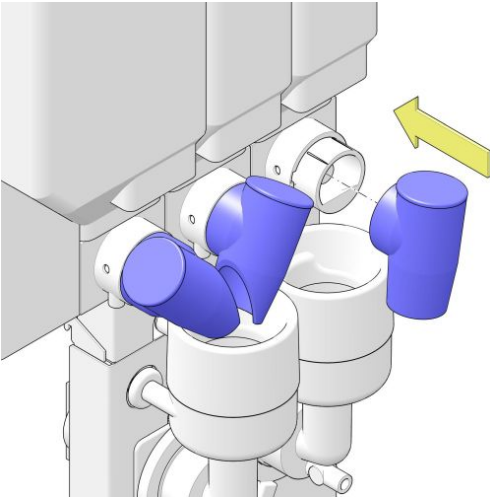
16. Install the mixer houses.



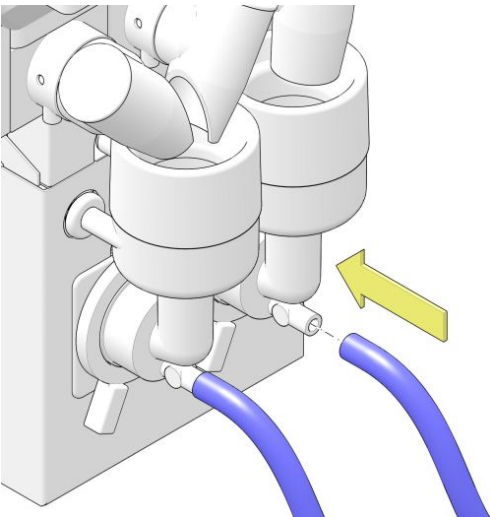
17. Turn the bayonet catches clockwise to lock the mixer houses.



18. Install the canister outlets on the canisters and make sure the locations and positions are correct.



19. Connect the outlet hoses to the mixers.



5.6.13 Remove and clean the brewer

Purpose Removal of the brewer is necessary for performing the cleaning procedure.

Required Use the following parts to perform the procedure:

- Blue brewer key
- Green service key

Interval Perform this procedure:

- At least once a week, increase the frequency if needed.



WARNING

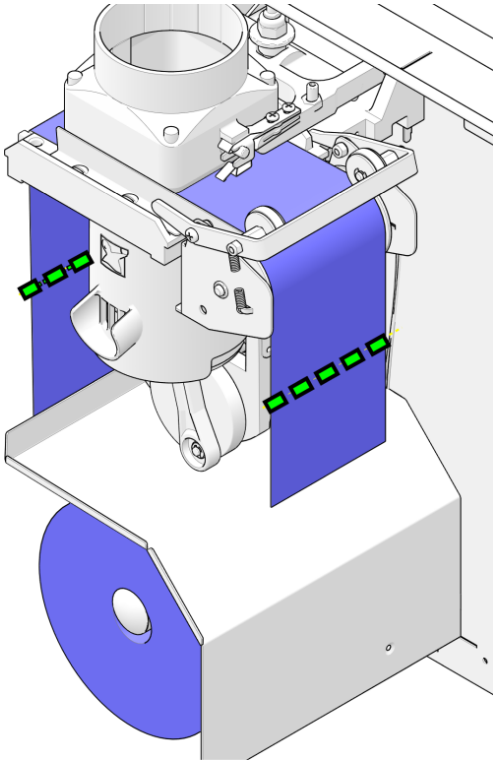
Do not take the brewer itself apart. Only properly trained personnel may work on the brewer itself. Instructions for performing work on the brewer itself is found in the technical manual.



CAUTION

When the machine is switched *on* take utmost care when performing maintenance.

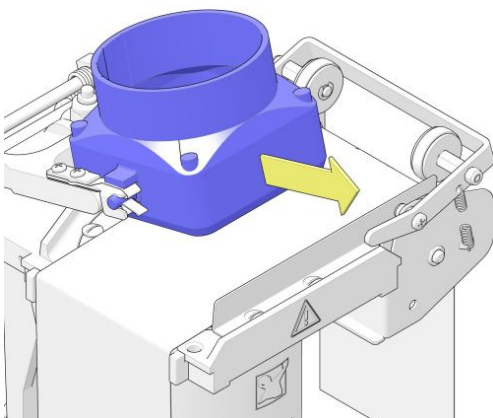
Procedure Perform the following steps:



1. Tear off the filter paper on the left and right of the brewer.
2. [Insert the service key](#) (on page 99) in the door.

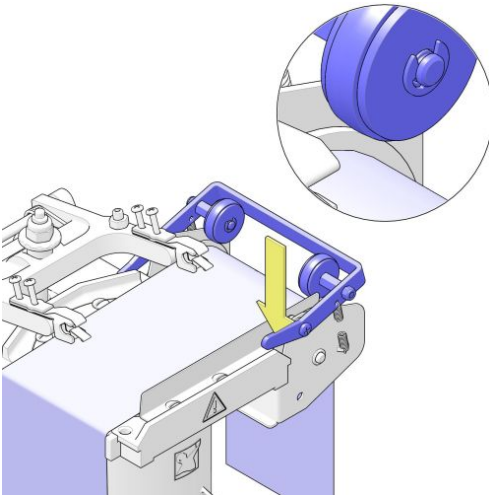


3. In the *Service Menu* tap the **[Replace filter paper]** button.
 - The brewer chamber will move up to the open position.
4. [Remove the service key](#) (on page 100) from the door.

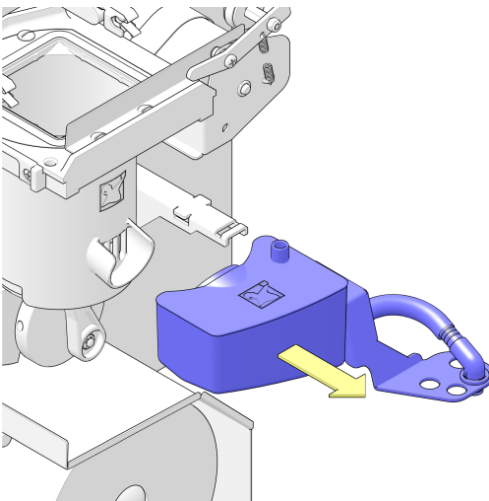


5. Remove the brewer chamber by pulling it in the direction of the arrow.
6. Remove the remaining old filter paper from the brewer.

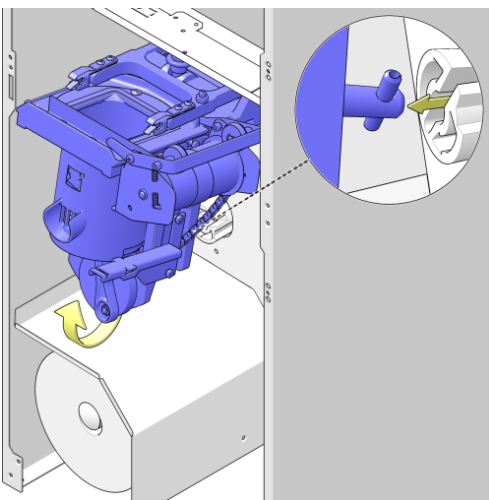
- Lift the transport wheels with the cantilever if needed.

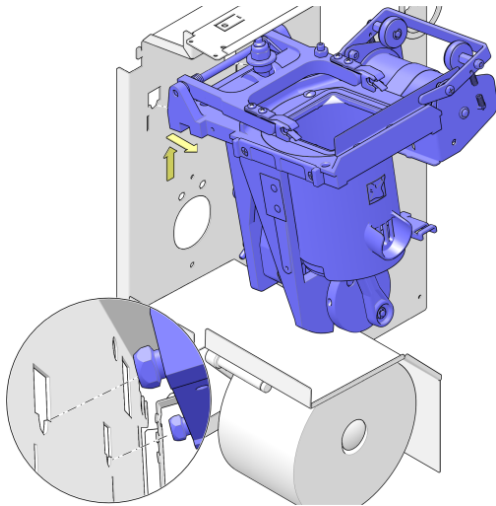


7. Remove the nozzle / outlet pipe from the brewer.

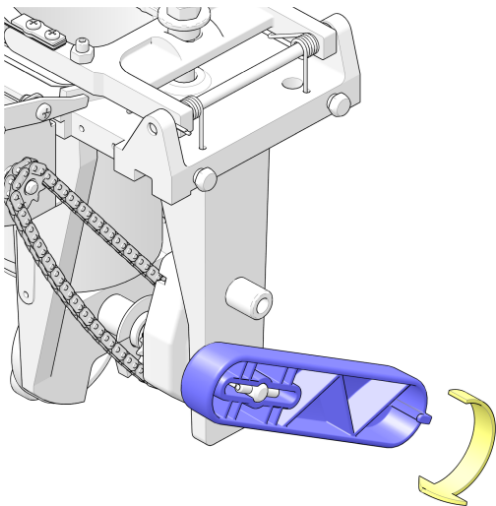


8. Take the brewer out of the machine. First tilt the lower part of the brewer towards you to release the main shaft from the motor interlocking.
 - Tilting the lower part about 10 cm is enough.





9. Lift the brewer a little to release the studs from the suspension and remove the brewer from the coffee machine.
10. Rinse the brewer with clean warm water.

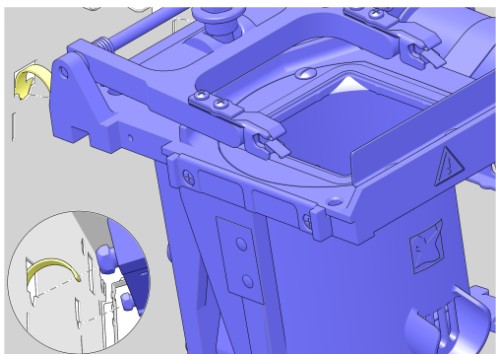


11. Before installing, make sure the brewer chamber is still in the open position.
 - If needed, adjust the position of the main shaft to fit the motor interlocking.

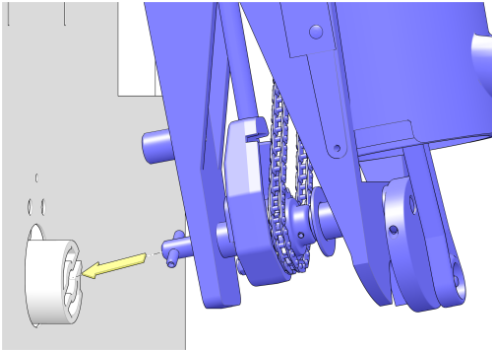


NOTE

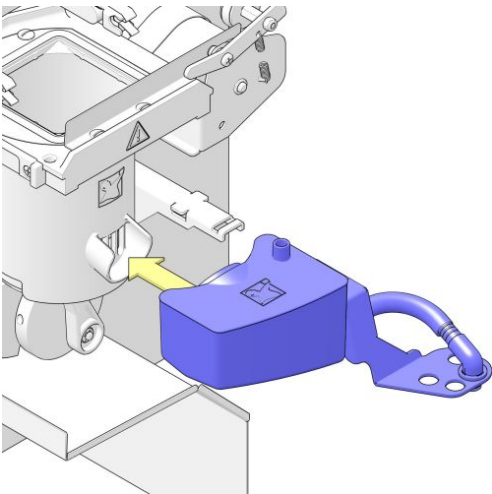
You can turn the main shaft of the brewer with the blue brewer key (delivered with the machine).



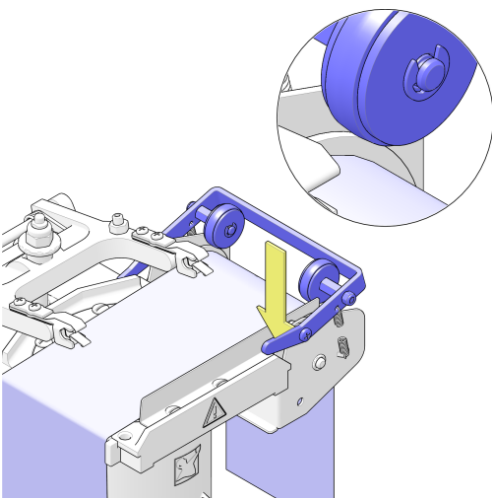
12. Place the studs at the back of the brewer in both suspension holes.



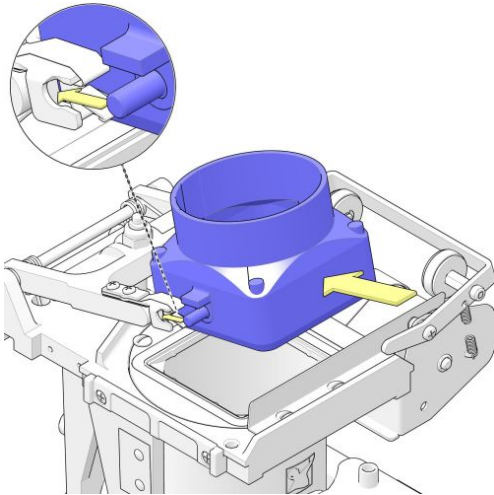
13. Lower the brewer down and make sure that the main shaft fits the motor interlocking.
 - Some force is needed to lock the brewer properly.



14. Place the nozzle / outlet pipe on the brewer.



15. Guide the filter paper through the brewer, lift the transport wheels with the cantilever if needed.
 - for details, see section Change filter paper (see [Place new filter paper](#) on page 77).



16. Install the brewer chamber. Press the brewer chamber with the two pins into position.
17. [Insert the service key](#) (on page 99) in the door.



18. In the *Service Menu*, tap the button **[Replace filter paper]** to move the brewer through a cycle.
 - Check if the filter paper is being transported properly and runs smoothly.

5.6.14 Clean brewer with cleaning tablet



NOTE

Failure to clean the brewer weekly with the cleaning tablet available from the manufacturer will void the warranty on related parts. Not cleaning the brewer can cause the machine to malfunction!

Purpose Cleaning of the brewer with a tablet removes all coffee residue.

Required Use the following parts to perform the procedure:

- Cleaning tablet.
- Rinsing tub or 1 liter jug.
- Protective clothing, gloves and safety glasses.
- Green service key.

Interval Perform this procedure:

- At least once a week, increase the frequency if needed.



NOTE

- Total time for the cleaning cycle is 8 minutes.
- A message is shown if the brewer is **not** cleaned after one week.
- A message is shown and coffee dispense is **disabled** if the brewer is not cleaned after 9 days.

Procedure Perform the following steps:

1. [Open the door](#) (on page 45) of the machine if not already opened.
2. [Insert the service key](#) (on page 99) in the door.
3. Tear off and remove the used filter paper from the brewer. Check section [Place new filter paper](#) (on page 77) step 3 , 4 and 5 for details.
4. From the **Service Menu** tap the **[Weekly cleaning cycle brewer]** button.



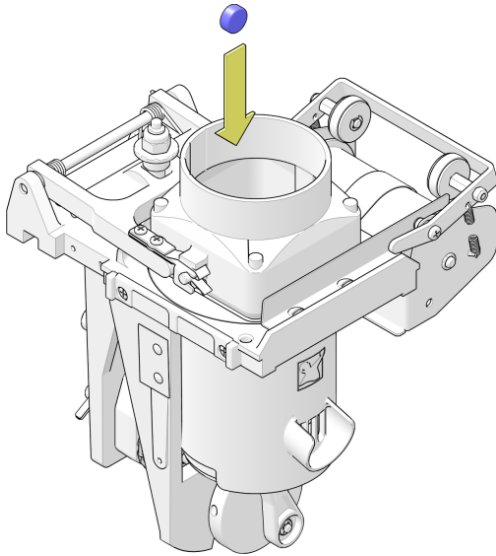
NOTE

Depending on model the button text can be different.

- Follow the instructions shown on-screen and described in the next steps.

5. In the Service menu, tap **[Press here to start]** to close the brewer chamber.
6. Wait until the next menu is displayed.





7. Place a cleaning tablet in the brewer chamber.



WARNING

Wear protective clothing, gloves and safety glasses when working with cleaning tablets.

8. Place a rinsing tub or a 1 liter jug underneath the outlet nozzle.
9. In the **Service Menu** tap the button **[Press here to start]** to start the actual cleaning cycle.
 - Wait until the cleaning cycle is **completely** finished and make sure the cleaning tablet is fully dissolved.
10. [Remove the service key](#) (on page 100) from the door.
11. Guide the filter paper through the brewer. Check section [Place new filter paper](#) (on page 77) starting at step 7 for details.

5.6.15 Unblock the grinder

Purpose Occasionally small twigs or small rocks (known as foreign objects) are in between the fresh beans. The grinder will stop if these objects are blocking the grinder. A message '*Grinder blocked*' (see [Message: Grinder blocked](#) on page 103) is displayed in the warning message area.

Procedure To unblock the grinder perform the following steps:

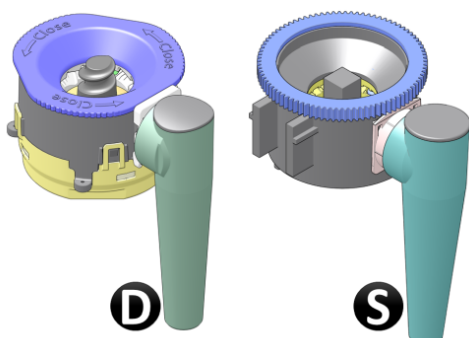
1. Locate the grinder that needs cleaning up.
2. Remove the canister to get access to the grinder.



NOTE

Check the section Fill the bean canister for details about the removal of the canisters. When the canister is removed the grinder itself is visible.

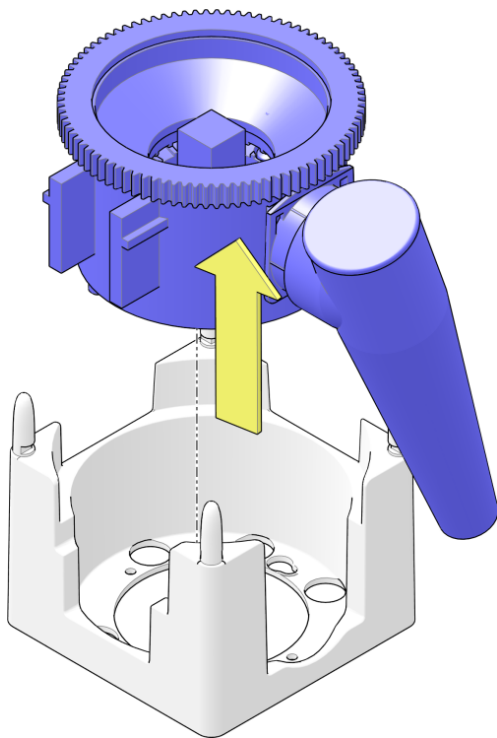
Grinder type Determine the grinder type.



1. If the coffee machine contains a grinder, one of two grinder types are possible:

- D) the D-grinder, recognizable by the grinder top house that can be removed or
- S) the original Schaerer grinder, that contains a gear-like top.

If the machine contains a D-grinder continue the cleaning procedure with step 5. Cleaning the Schaerer grinder is described in the next steps.



2. To clean the Schaerer grinder, lift and remove the grinder from the grinder base.



CAUTION

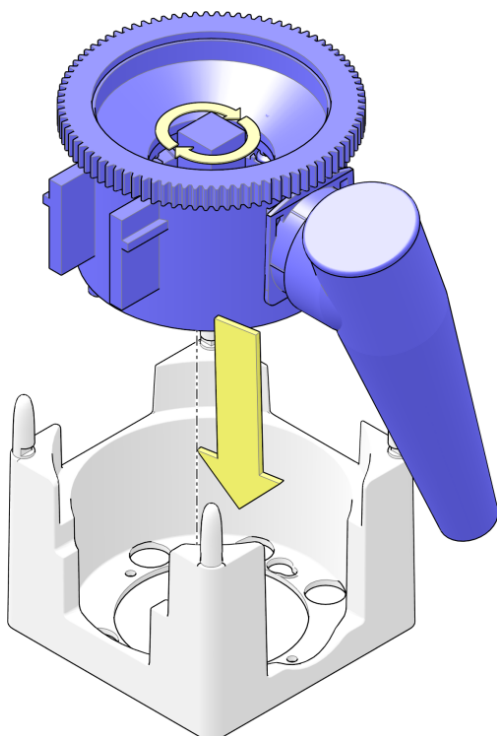
The grinder is filled with beans and ground coffee. When the grinder house is turned upside down, coffee beans and ground coffee can fall out.

3. Keep the grinder upside down. Turn the squared top inside the geared wheel at the top side, or the shaft at the bottom side, back and forth repeatedly to loosen and remove the foreign objects.



NOTE

The shaft should rotate easily if nothing is blocking the grinder.



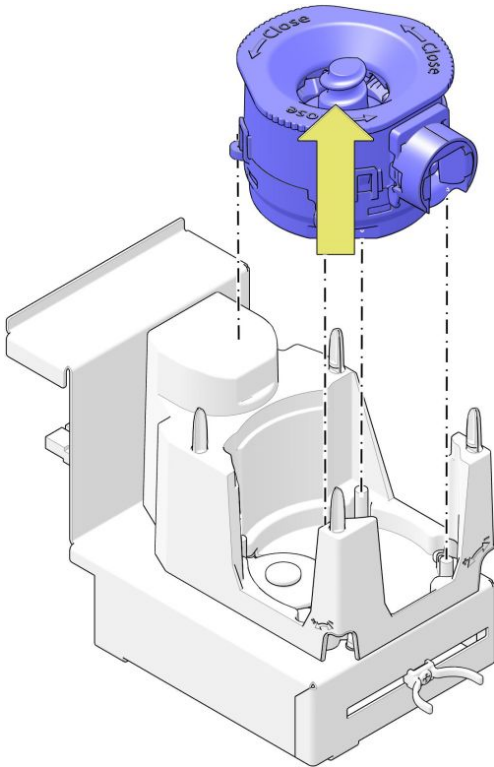
4. Place the grinder back into the grinder base and continue with step 12.



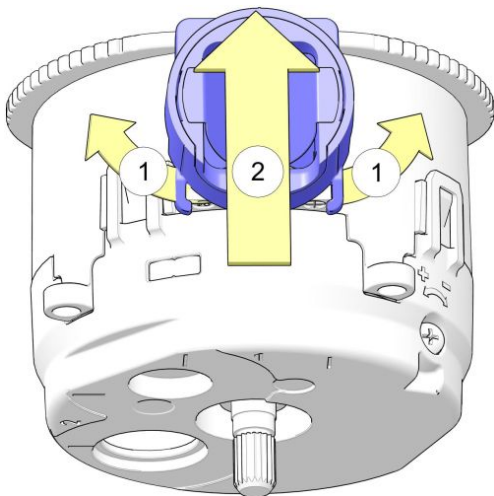
TIP

If needed, rotate the squared top a little to allow the ribbed shaft to fit the grinder motor and is fully lowered inside the grinder base.

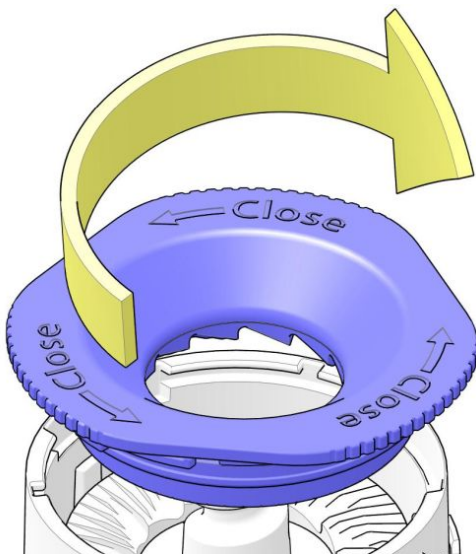
5. To clean the D-grinder, lift and remove the grinder from the base.



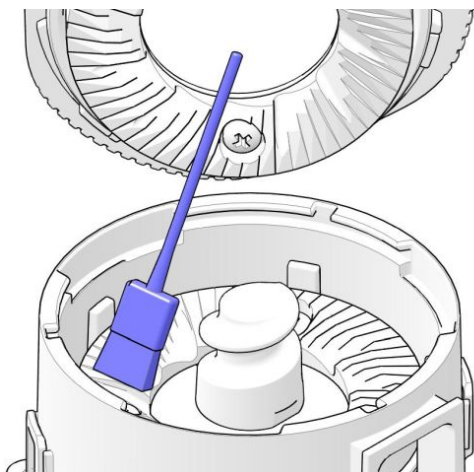
6. Pull out the clips of the grinder outlet (1), slide the outlet from the grinder house (2) and remove it from the grinder.



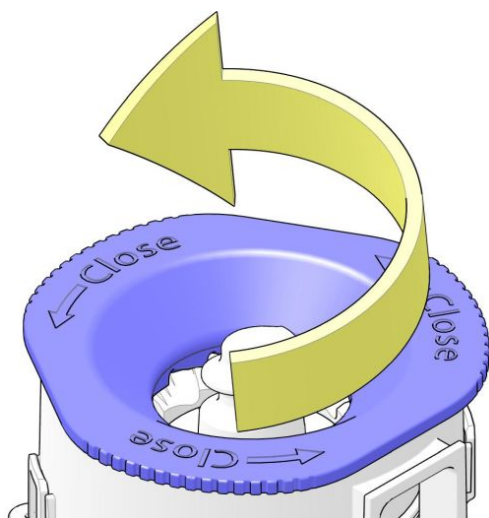
7. Loosen the bayonet locked grinder house top in the direction of the arrow and remove it from the grinder.

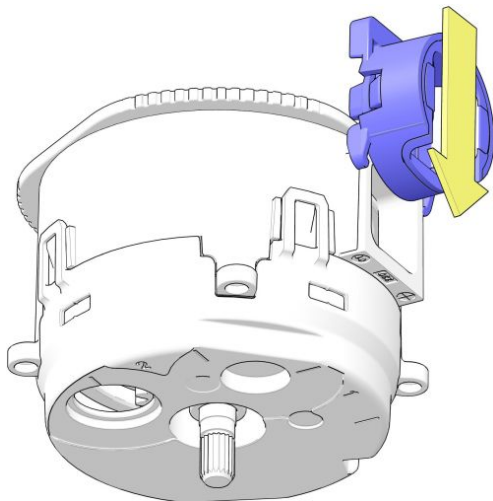


8. Clean both grinder discs and the inside of the grinder house.

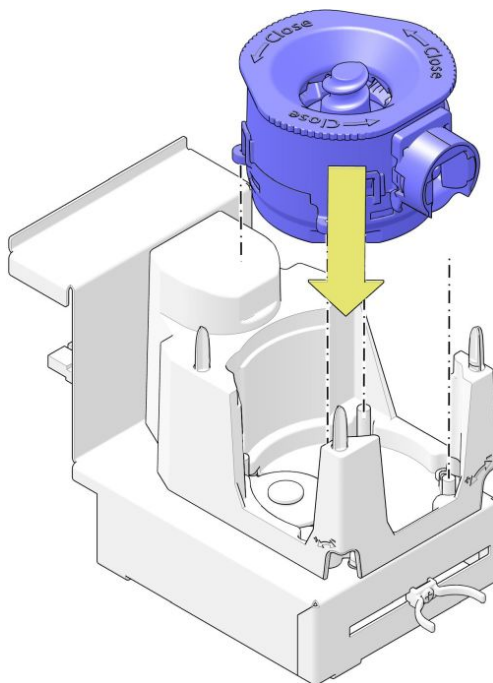


9. Place the grinder house top assembly, and turn it in the direction of the arrow to lock.





10. Slide the outlet on the grinder house in the direction of the arrow.
 - Make sure the clips lock properly.



11. Place the grinder back into the grinder base.
12. Place the canister back.



TIP

Check the last steps of section Fill the bean canister for more details.

13. Close the door and lock with the key.
14. Leave the **Service** menu.



TIP

Dispense two cups of coffee to fill up the grinder with fresh coffee and throw the contents of the cups away.

15. Check correct functioning by taking a test coffee.

5.6.16 Place new filter paper

Purpose Follow this procedure when the machine runs out of paper and a new roll of filter paper must be placed.

Required Use the following parts to perform the procedure:

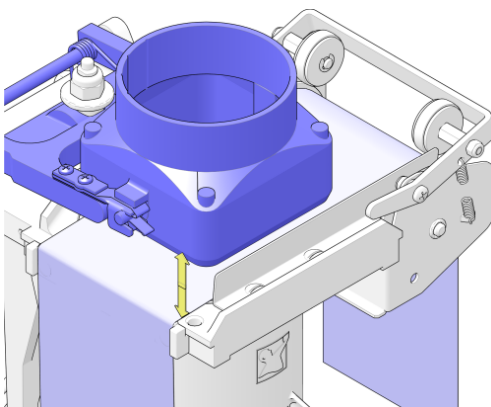
- Green Service key.
- Roll of recommended coffee filter paper.

Interval Perform this procedure:

- When needed.

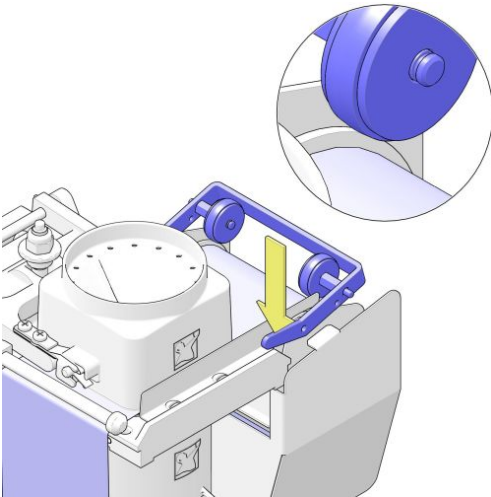
Procedure Perform the following steps:

1. [Open the door](#) (on page 45) of the machine.
2. [Insert the service key](#) (on page 99) in the door.
3. In the **Service** menu tap the **[Replace filter paper]** button.



- Wait until the brewer chamber has moved to the open position.
4. [Remove the service key](#) (on page 100) from the door.
 5. Remove the old filter paper from the brewer.

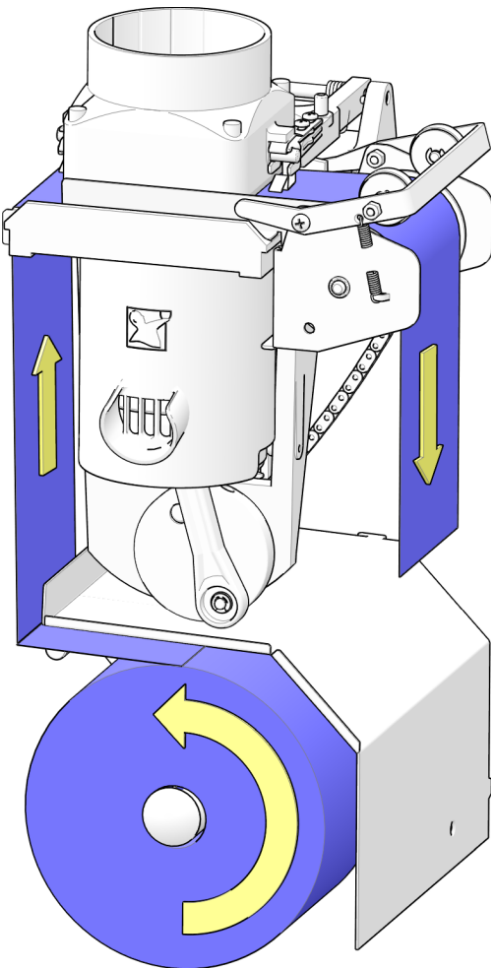
- Lift the transport wheels with the cantilever if needed.

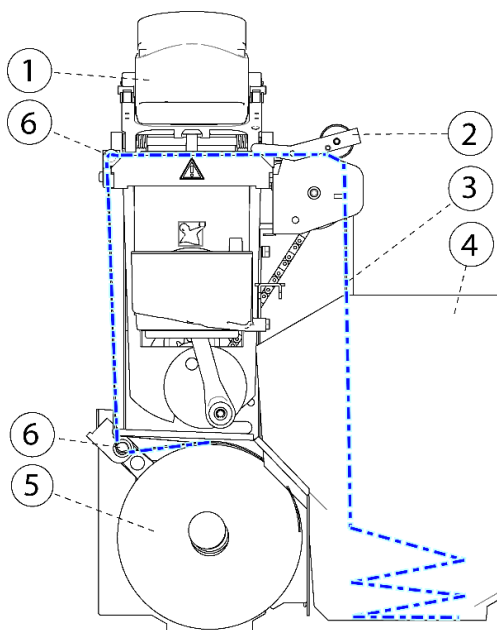


6. Place the new roll of filter paper.



NOTE
Make sure the filter paper roll unrolls counter clock wise.





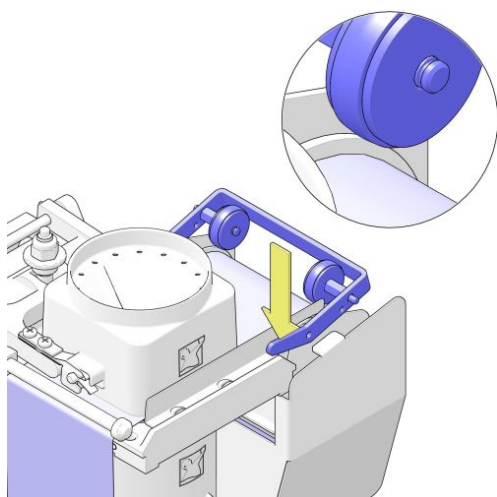
7. Guide the filter paper to the brewer around the guiding wheels (6).

8. Lift the transport wheels (2) with the cantilever if needed.



CAUTION

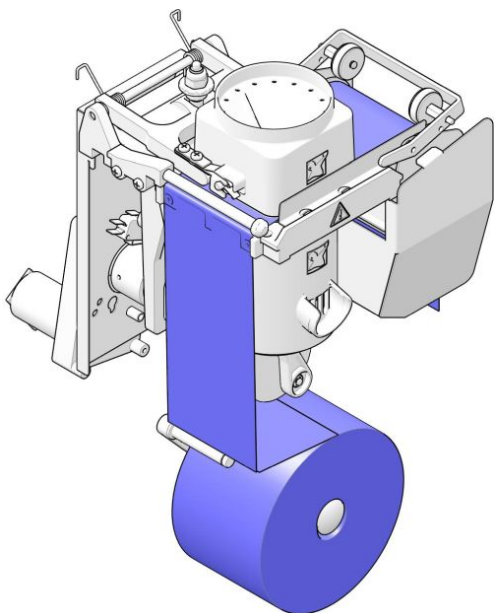
Make sure that the brewer is not moved down during lifting of the transport wheels. Push the cantilever down with your thumb while supporting the brewer with your index finger.



9. [Insert the service key](#) (on page 99) in the door.
10. In the **Service** menu tap the **[Replace filter paper]** button.

- The brewer moves a cycle and stops.





11. Check if the filter paper is being transported correctly and that no folds or creases are in the paper.
12. [Remove the service key](#) (on page 100) from the door.
13. Check the functioning of the machine by taking a test drink (coffee).

5.6.17 Clean the canisters

Purpose All ingredients leave residue inside the canister. To clean the canisters they need to be removed from the machine.

Interval Perform this procedure:

- at least once a month.

Procedure Perform the following steps:

1. [Open the door](#) (on page 45).
2. Open the top lid (see [Open or close top lid](#) on page 46) of the coffee machine.
3. Remove the canisters from the machine.
 - Check the first steps in the section [Fill up the ingredient canisters](#) (on page 85) for more details about the removal of the canisters.
4. Unlock (optional) and remove the lid from the canisters.
5. Empty the canisters.
6. Clean the canisters with warm water.



NOTE

Use a mild detergent if warm water only is not sufficient.

7. Dry the canisters thoroughly on the inside and outside.



WARNING

Do not fill the canisters until they are completely dry. The product may form lumps which makes the system unusable.

5.6.18 Clean the cold water outlet nozzle — optional

Purpose The cold water outlet nozzle must be cleaned regularly to prevent bacteria growth.

Required Use the following parts to perform the procedure:

- Multi purpose, disposable cloth.
- Cleaning agent.
- Disposable paper towels.
- Rinsing tub or 1 liter jug.
- Protective clothing, gloves and safety glasses.



NOTE

Do not use aggressive cleaning products or abrasives to clean (parts of) the machine.

Interval Perform this procedure:

- Weekly (see [Weekly maintenance](#) on page 43), more if needed (depending on machine usage and environmental conditions).

Procedure Perform the following steps:



WARNING

Wear protective clothing, gloves and safety glasses when working with cleaning chemicals.

1. Use the cloth to apply the cleaning agent. Submerge a clean cloth into the cleaning agent (concentration recommended by cleaning agent manufacturer's instructions). Remove the cloth and remove excess water.
2. Clean the cold water outlet nozzle wiping the cloth over the entire area re-submerging the cloth as necessary.
3. Rinse the cloth in clean warm water and wipe off excess cleaning agent residue and soil.
4. Dry cold water nozzle using disposable paper towels.
5. Close the door of the coffee machine.
6. Place a rinse tub below the cold water outlet nozzle.
7. Leave the **Service** menu: tap the **[Exit]** button and then the **[Close door and press here to quit service]** button to return the main menu.
8. Select a full jug of cold water and dispense at least 1 liter of cold water and ensure any cleaning residue is flushed out.

5.6.19 Deep clean the cold water outlet nozzle — optional

Purpose The cold water outlet nozzle must be cleaned and disinfected regularly to prevent bacteria growth.

Required Use the following parts to perform the procedure:

- Multi purpose, disposable cloth.
- Cleaning agent.
- Protective clothing, gloves and safety glasses.
- Disinfectant solution.
- Disposable paper towels.
- Rinsing tub or 1 liter jug.
- Brush.



NOTE

Do not use aggressive cleaning products or abrasives to clean (parts of) the machine.

Interval Perform this procedure:

- Monthly (see [Monthly maintenance](#) on page 44), more if needed (depending on machine usage and environmental conditions).

Procedure Perform the following steps:



WARNING

Wear protective clothing, gloves and safety glasses when working with cleaning chemicals.

1. Submerge a clean cloth in warm water. Pre clean the cold water outlet nozzle using the cloth.
2. Submerge a clean cloth into the cleaning agent (concentration recommended by cleaning agent manufacturer's instructions). Remove the cloth and remove excess water.
3. Clean the cold water outlet nozzle wiping the cloth over the entire area re-submerging the cloth as necessary.
4. Using a brush, brush around the cold water nozzle to dislodge any dried on soil. Remove the soil with a cloth.
5. Soak a clean disposable cloth in clean warm water and rinse the outlet nozzle until all soil and cleaning agent residues are removed.
6. Soak a clean disposable cloth in disinfectant solution, ensure that the whole area is wiped.
7. Leave for 10 minutes.

8. Rinse off disinfectant using disposable cloth in clean warm water.
9. Dry cold water nozzle with disposable paper towels.
10. Close the door of the coffee machine.
11. Place a rinse tub below the cold water outlet nozzle.
12. Leave the **Service** menu: tap the **[Exit]** button and then the **[Close door and press here to quit service]** button to return the main menu.
13. Select a full jug of cold water and dispense at least 1 liter of cold water and ensure any cleaning residue is flushed out.

5.6.20 Fill up the ingredient canisters



NOTE

- Make sure that the canisters remain filled with a layer of at least (4 cm) of product.
- Only use ingredients recommended by the supplier of the machine.

- To fill up a bean canister (optional) check the section Fill the bean canister.
- To fill up an in-door bean canister (optional) check the section Fill the in-door bean canister.

Purpose

To prevent that the machine can no longer dispense drinks due to a lack of ingredients, the machine must be refilled in time.

Required

Use the following to perform the procedure:

- Ingredients.

Procedure

Perform the following steps:

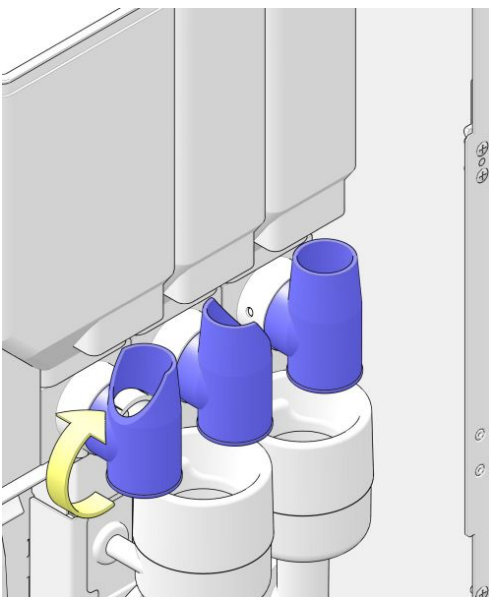
1. [Open the door](#) (on page 45).
2. Open the top lid (see [Open or close top lid](#) on page 46) of the coffee machine.

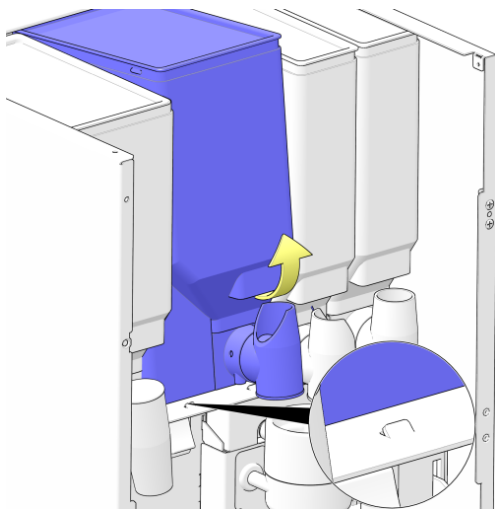


NOTE

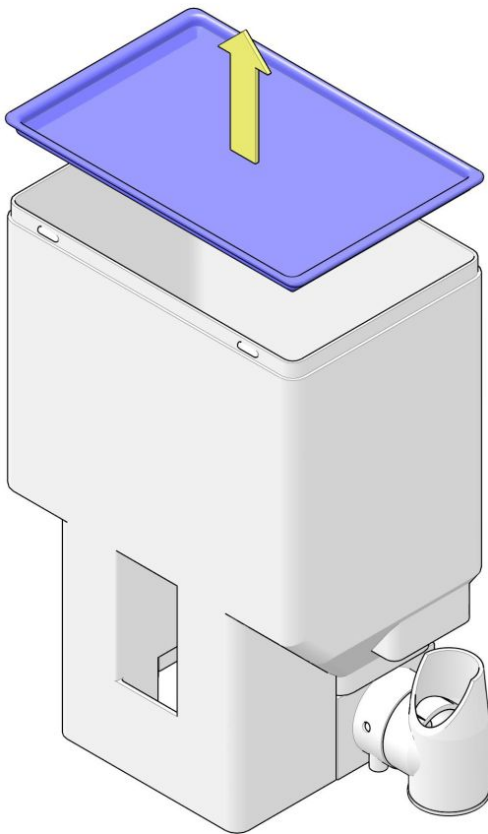
Filling the canisters must be done outside the machine.

3. Remember (or note down) the position of the outlets and turn the outlets of the canisters upwards.





4. Slightly lift the canister at the front until the small locking ridge (see inset) is visible.
5. Pull the canister towards you and take it out of the machine.

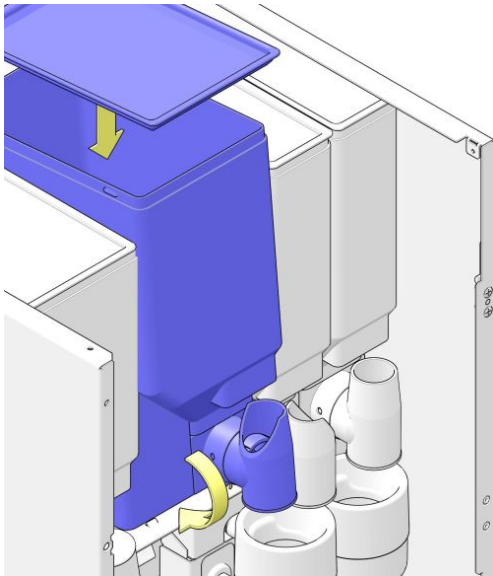


6. Remove the lid and place the canister on a stable surface.
7. Fill the canister with the ingredient indicated on the canister.



TIP

Do not fill the canisters more than necessary for one or two days. This will keep the products fresh.

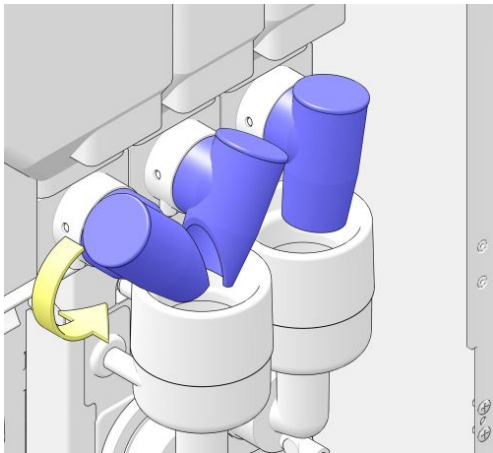
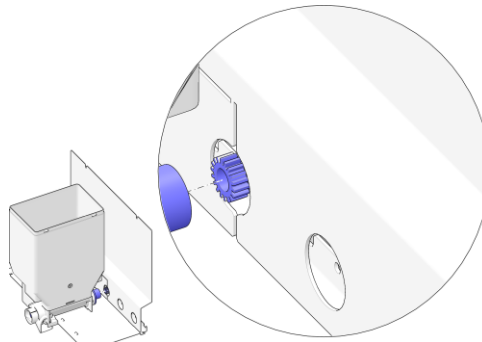


8. Place the lid back on the canister and position the canister back into the machine.



CAUTION

Make sure the drive at the back of the canister fits well on the motor drive.



9. Turn the outlets of the canister downwards.



CAUTION

Check the position of the outlet of the canister. It must be positioned towards the brewer or correct mixing bowl.

10. Close the top lid (see [Open or close top lid](#) on page 46) of the machine.

5.6.21 Fill up the bean canister



NOTE

- Make sure that the canisters remain filled with a layer of at least 4 cm of product.
- Only use ingredients recommended by the supplier of the machine.

- To fill up an ingredient canister (optional) check section [Fill up the ingredient canisters](#) (on page 85).

Purpose

In order to prevent that the machine can no longer dispense drinks due to a lack of ingredients, the machine must be refilled in time.

Required

Use the following to perform the procedure:

- Coffee beans.

Procedure

Perform the following steps:

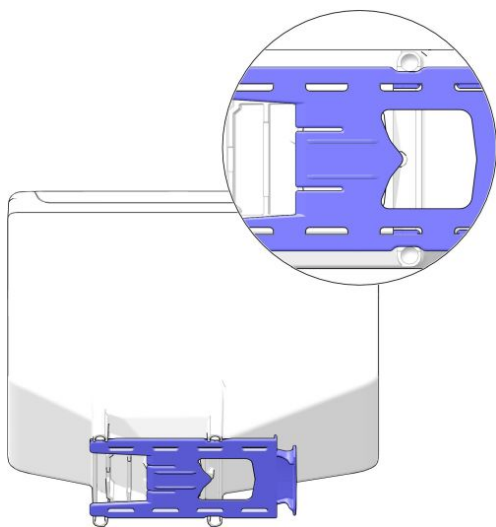
1. [Open the door](#) (on page 45).
2. Open the top lid (see [Open or close top lid](#) on page 46) of the coffee machine.

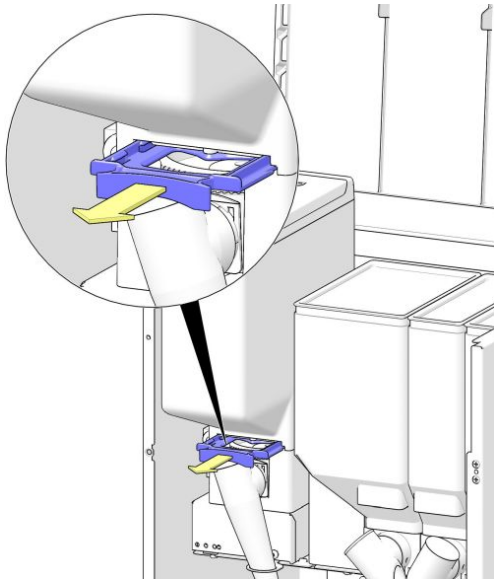


NOTE

Filling the canisters must be done outside the machine.

3. Locate the canister locking slider in between the grinder and the bean canister.





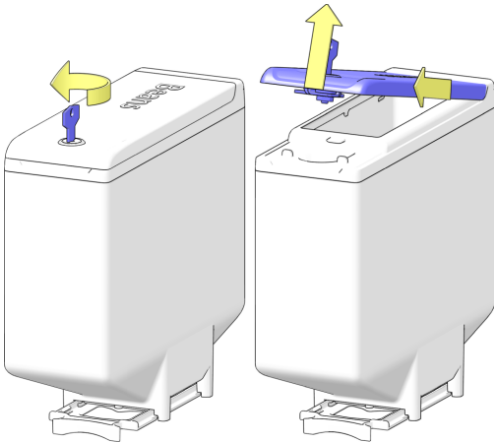
4. Pull the canister locking slider in the direction of the arrow. The bean canister will be closed and unlocked from the grinder base.
5. Lift the bean canister from the grinder base and take it out of the machine.



CAUTION

When the canister locking slider is not fully pulled out, coffee beans will fall out of the canister.

6. Place the bean canister on a stable and flat surface for refilling.

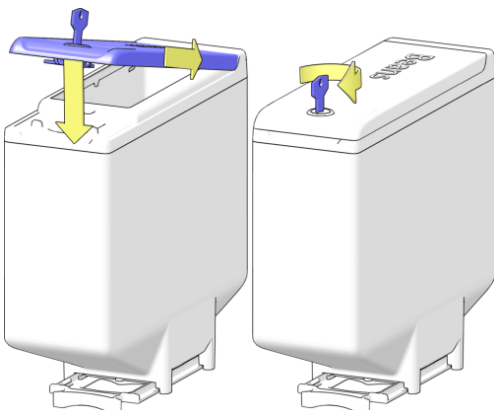


7. Unlock the lid (optional). Lift the lid in the front and then pull the lid from the canister in the direction of the arrow.
8. Fill the canister with fresh coffee beans.



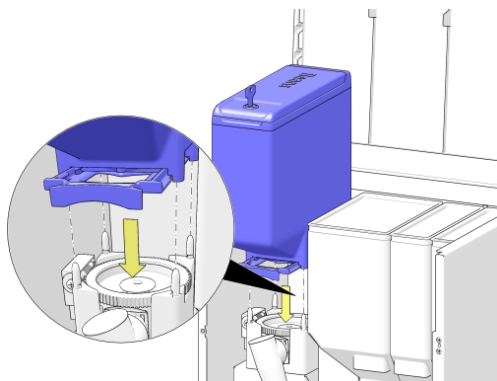
TIP

Fill the canister with beans sufficient for one or two days. This will keep the products fresh.

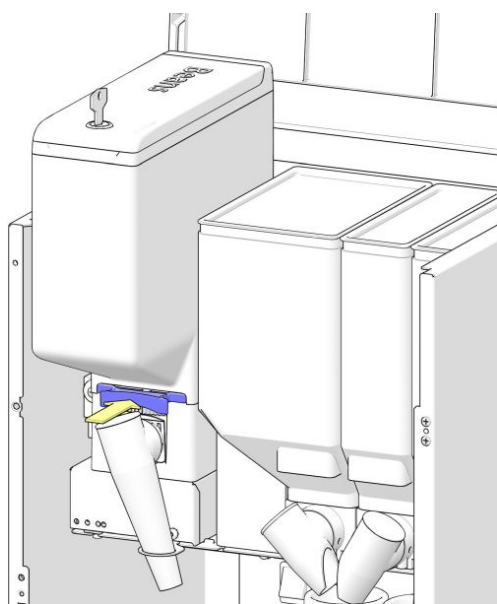


9. Place the back side of the lid on the canister and then lower the front side. Lock the lid (optional).

10. Place the bean canister back into the coffee machine on the four position ridges of the grinder base.



11. Push the canister locking slider back in the direction of the arrow to open the bean canister and secure it to the grinder base.
12. Repeat the procedure if more bean canisters must be filled up.



5.6.22 Fill up the bean canister in the door — optional



NOTE

Make sure that the canisters remain filled with a layer of at least 4 cm of product.



CAUTION

Only use products that are recommended by the supplier of the machine.

- To fill up a bean canister (optional) check section Fill up the bean canister.
- To fill up an ingredient canister (optional) check section [Fill up the ingredient canisters](#) (on page 85).

Purpose

In order to prevent that the machine can no longer dispense drinks due to a lack of ingredients, the machine needs to be refilled in time.

Required

Use the following to perform the procedure:

- Coffee beans.

Procedure

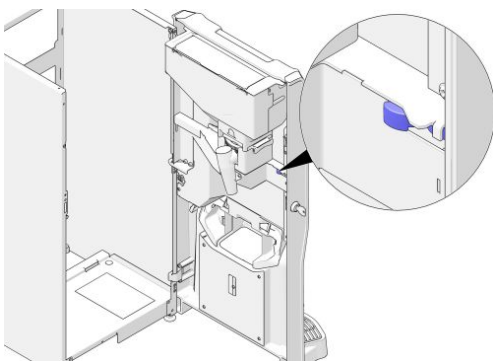
Perform the following steps:



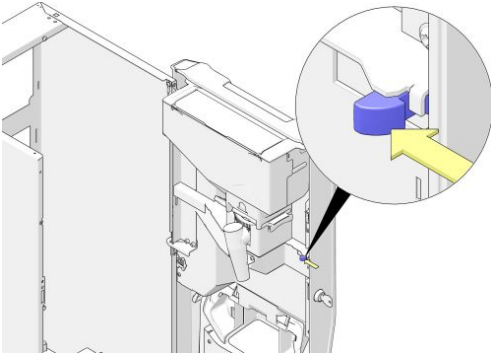
NOTE

Filling the canisters must be done outside the machine.

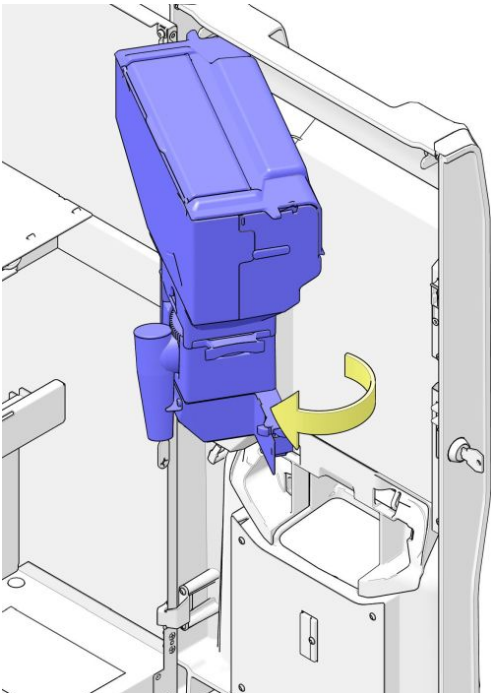
1. Locate the **locking lever** that secures the bean canister frame to the door of the machine.



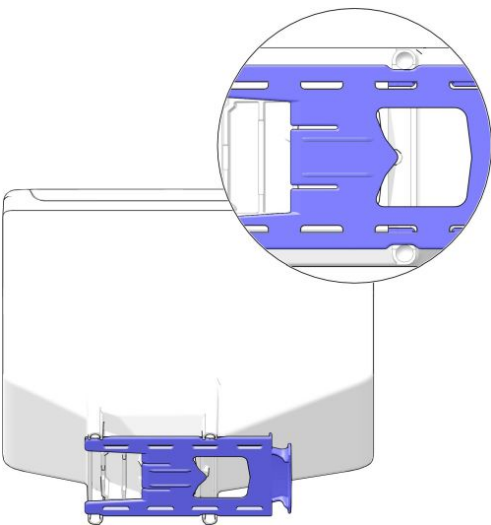
2. Press the **locking lever** to unlock the canister door.



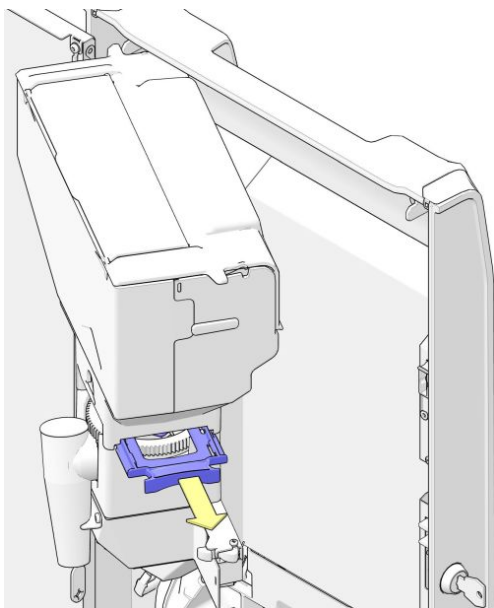
3. Turn the bean canister door away from the door of the coffee machine.



4. Locate the canister locking slider in between the grinder and the bean canister.



5. Pull the canister locking slider in the direction of the arrow. The bean canister will be closed and unlocked from the grinder base.



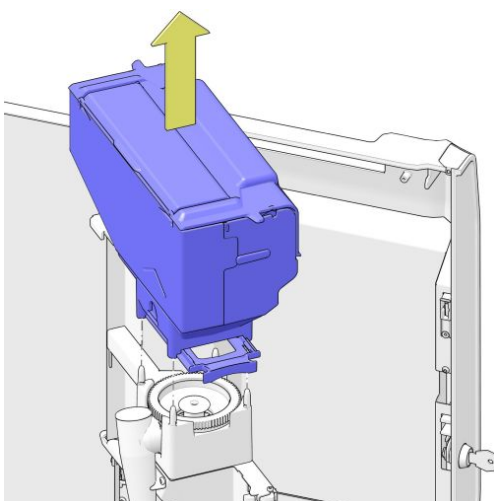
6. Lift the bean canister and take it out of the machine.

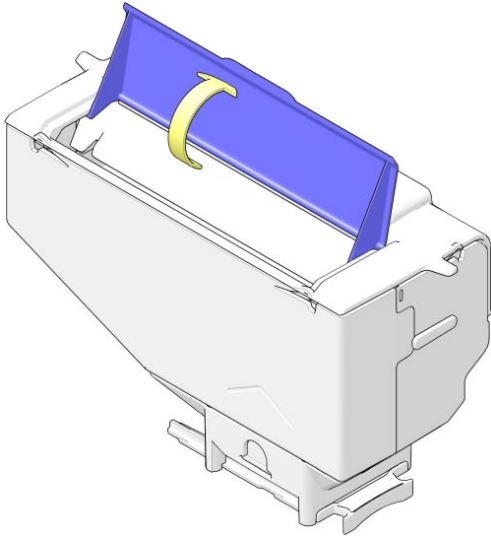


CAUTION

When the canister locking slider is not fully pulled out, coffee beans will fall out of the canister.

7. Place the bean canister on a stable and flat surface for refilling.





8. Open the lid of the canister.

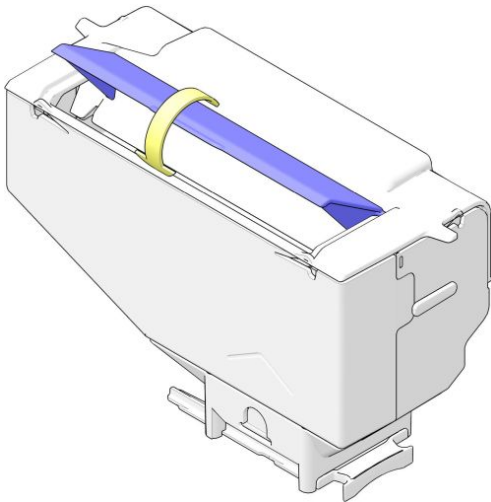
9. Fill the canister with fresh coffee beans.



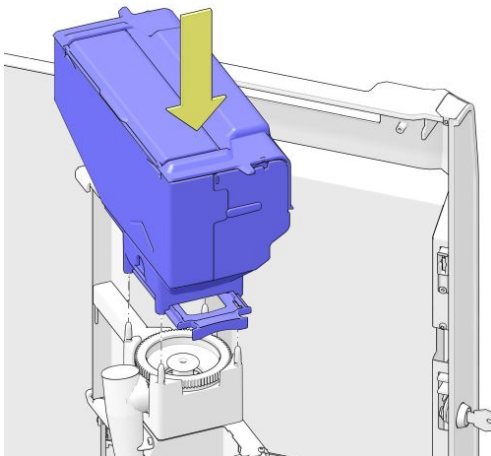
TIP

Do not fill the canister more than necessary for one or two days. This will keep the products fresh.

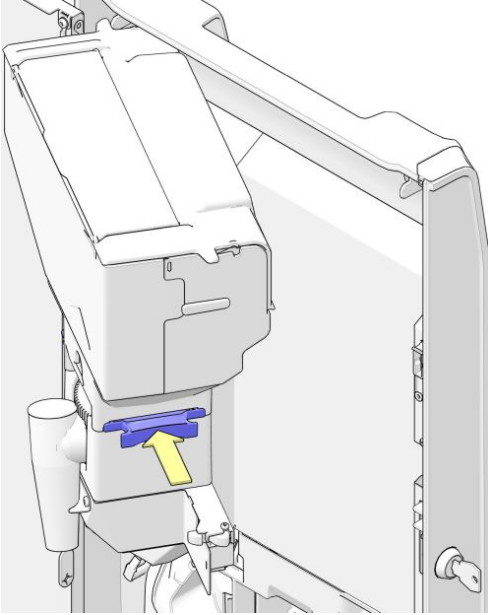
10. Close the lid of the canister.



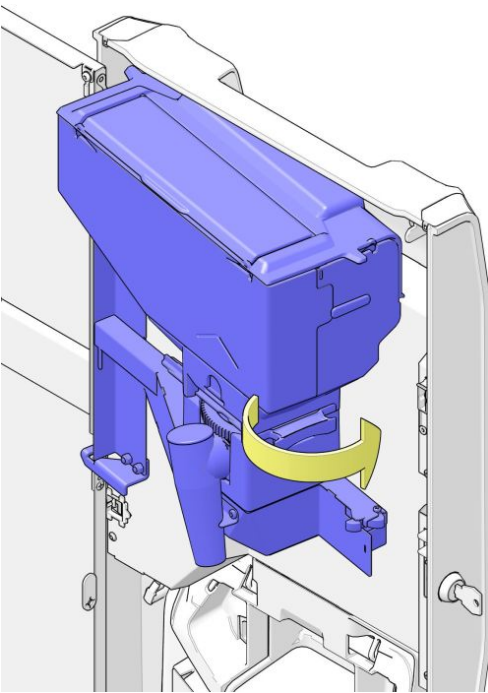
11. Place the bean canister back into the coffee machine on the four position ridges of the grinder base.



12. Push the canister locking slider back to lock the bean canister on the grinder base.



13. Turn the bean canister back into the door of the coffee machine and make sure the locking lever locks inside the door.



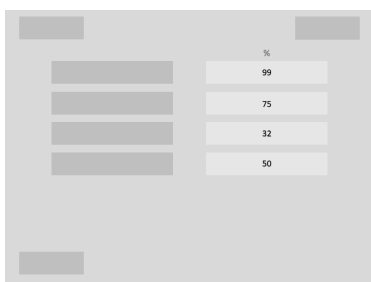
5.6.23 Enter canister ingredient levels — optional

Purpose When activated the coffee machine displays a message on the screen when the ingredient canisters are almost empty. Based on the number of beverages taken, the machine calculates the amount of ingredients left in the canisters. When the canisters are filled up the counters must be reset. Follow the steps in the procedure below to reset the counters.

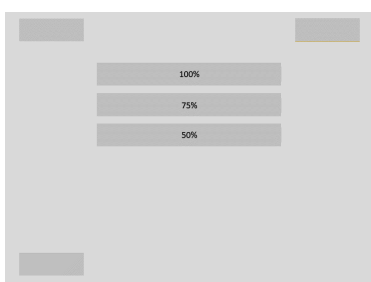
Interval Perform this procedure:

- When this option is active the *Enter ingredient level screen* is displayed when the **[Exit]** button is tapped in the **Service** menu to return to the **Main** menu (see [Main menu - Cup dispensing](#) on page 21).

Procedure Perform the following steps:



1. When the **[Exit]** button is tapped to leave the **Service** menu the *Enter ingredients levels screen* is displayed.
 - The current filling level of each canister is displayed (only the canisters activated for this option are shown).
2. To change a canister filling level tap one of the **ingredient** buttons in the left column.
 - or tap the **[Exit]** button to leave the **Service** menu.



3. Tap the correct **[filling level %]** button for the selected canister.



NOTE

A completely filled canister is filled 100 %. To keep ingredients fresh it is also possible to fill the canister for 50%.

4. Repeat the steps for each canister that is filled up (or where the shown value is not correct) or tap **[Exit]** to leave the **Service** menu.

5.6.24 Clean the outside of the machine

Purpose To clean all outside areas of the coffee machine that are not cleaned in any other procedure.

Required Use the following parts to perform the procedure:

- Soft damp cloth.

Interval Perform this procedure:

- Daily (see [Preventive maintenance schedule](#) on page 41),
- Weekly (see [Weekly maintenance](#) on page 43),
- Monthly (see [Monthly maintenance](#) on page 44).

Procedure Perform the following steps:

1. Clean the outside of the machine with a soft damp cloth.



NOTE

Do not use aggressive cleaning products or abrasives to clean (parts of) the machine.

5.6.25 Clean the touchscreen

Purpose The touchscreen is the main interface between user and coffee machine. To ensure a hygienic and flawless use, the touchscreen must be cleaned regularly.

Required Use the following parts to perform the procedure:

- A clean soft cloth for disinfection purposes.
- (Isopropyl) alcohol.

Interval Perform this procedure:

- At least Daily (see [Daily maintenance](#) on page 42).
- When announced on screen.

Procedure Perform the following steps:

1. Tap one of the buttons with the message **[PRESS here to start cleaning]**.
 - or tap **[Cancel]** to return to the main *Menu*.



TIP

If the Clean Screen window is not shown, tap the on-screen clock first. (If no clock is displayed, check the section [Main menu - Cup dispensing](#) (on page 21) and tap on the location of the clock.

2. The screen is switched off, clean the touchscreen with some (Isopropyl) alcohol on a clean soft cloth.



CAUTION

- Do not use any other (aggressive) chemicals to clean the surface of the touchscreen.
- Prevent dripping, do not use too much cleaning liquid on the cloth.

3. After some time, the touchscreen is switched on again. The machine returns to the *Main menu* and is ready for use.

5.6.26 The service key

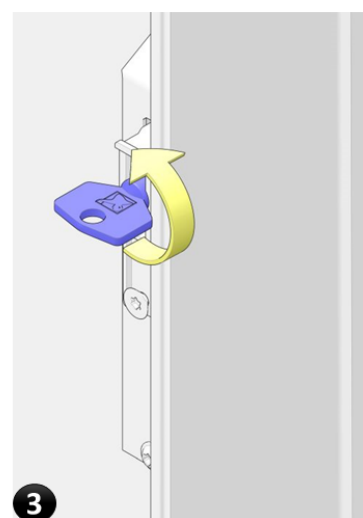
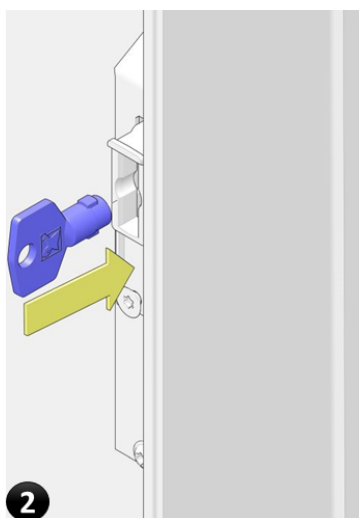
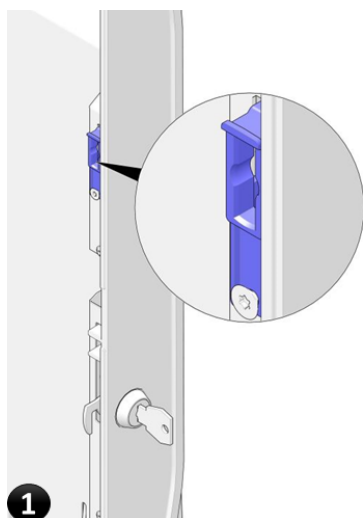
Purpose For safety reasons all dispense functions are disabled if the door of the machine is opened. Use the green service key to override this safety for maintenance procedures that need a fully functioning machine.

5.6.26.1 Insert the service key

Required Use the following parts to perform the procedure:

- Green service key.

Procedure Perform the following steps:



1. Locate the entry for the **Service key** on the inside of the door.
2. Insert the **Service key** in the service key entry.
3. Turn the **Service key** a quarter turn (90°).
 - The grey options in the **Service** menu change to *yellow/green*.
 - The coffee machine is now fully functional with an open door.
 - The key remains locked in the entry.



WARNING

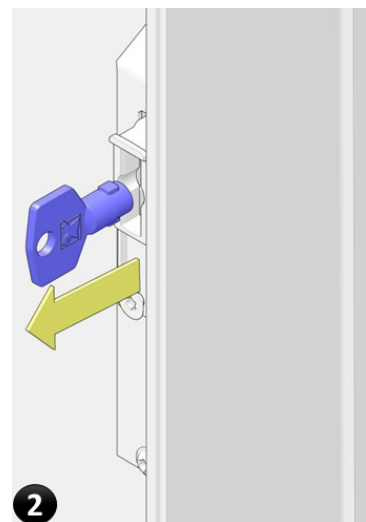
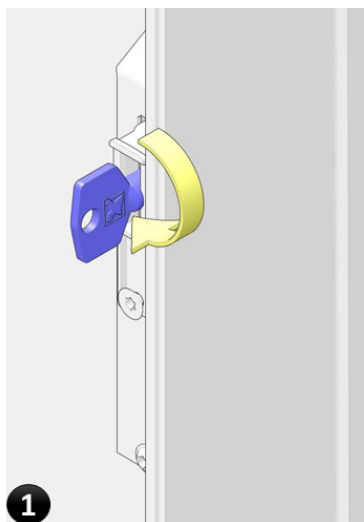
When the service key is inserted, the machine is powered up with open door. Parts in the machine can move and hot water can flow out. Only insert the service key when requested.

5.6.26.2 Remove the service key

Required Use the following parts to perform the procedure:

- Green service key.

Procedure Perform the following steps:



1. Turn the **Service key** a quarter turn (90°).
2. Remove the **Service key** from the door.

Troubleshooting

6.1 Messages

Always check if a message is shown on the display. If no message is shown and the machine does not work correctly, you still may find the possible cause and solution in the following table. For failures not mentioned in this manual, contact the service engineer (see [Service and support](#) on page 3).

6.1.1 Message: Brewer not in home position

Message *Brewer not in home position.*

Solution Perform the following steps to solve the problem:

1. Take out and install the brewer.

If problem persists: Consult the service engineer (see [Service and support](#) on page 3).

6.1.2 Message: Clean screen.

Message *Clean Screen.*

Cause After a defined number of consumptions, the touchscreen needs to be cleaned.

Solution Perform the steps as explained in the section [Clean the touchscreen](#) (on page 98).

6.1.3 Message: Drip tray full

Message *Drip tray full*

Solution Perform the following steps to solve the problem:

1. [Clean the drip tray](#) (on page 54) in front of machine.
2. Make sure the water level sensors in the drip bucket / drip tray are dry.

See section [Daily maintenance](#) (on page 42).

6.1.4 Message: Communication error

Message *Communication error*

Solution Consult the service engineer (see [Service and support](#) on page 3).

6.1.5 Message: Door open

Message *Door open*

Solution Perform the following steps to solve the problem:

1. Close the door or install the green service key to activate the machine.

6.1.6 Message: Drip tray full

Message *Drip tray full*

Solution Perform the following steps to solve the problem:

1. [Clean the drip tray](#) (on page 54) in front of machine.
2. Make sure the water level sensors in the drip bucket / drip tray are dry.

See section [Daily maintenance](#) (on page 42).

6.1.7 Message: Enough water?

Message *Enough water?*

Solution Perform the following steps to solve the problem:

1. Connect and open the water supply and restart the machine.
2. [Clean brewer with cleaning tablet](#) (on page 70).
3. Check if the problem also occurs when a hot water dispense is made.
 - If problem persists: Consult the service engineer (see [Service and support](#) on page 3). Do not forget to mention the results.

6.1.8 Message: Filling boiler

Message *Filling boiler*

- Solution** Perform the following steps to solve the problem:
1. Wait until the boiler is filled.
 2. If message is still shown after 10 minutes: Consult the service engineer (see [Service and support](#) on page 3).

6.1.9 Message: Grinder blocked

Message *Grinder blocked*

- Solution** Perform the following steps to solve the problem:
1. Clean the grinder. (see [Unblock the grinder](#) on page 72)

6.1.10 Message: Heating boiler

Message *Heating boiler*

- Solution** Perform the following steps to solve the problem:
1. Wait until boiler is heated.
 2. If message is still shown after 10 minutes: Consult the service engineer (see [Service and support](#) on page 3).

6.1.11 Message: Install new filter paper

Message *Install new filter paper*

Cause Filter paper roll is empty.

- Solution** 1. [Place new filter paper](#) (on page 77).

6.1.12 Message: Install waste bucket

Message *Install waste bucket*

- Solution** Perform the following steps to solve the problem:
1. Place the waste bucket.

6.1.13 Message: Insert coins

Message *Insert coins*

Solution Perform a full payment with coins, tokens or card.

6.1.14 Message: Machine Blocked

Message *Machine Blocked*

Cause The coffee machine is locked intentionally.

Solution Consult the service engineer (see [Service and support](#) on page 3).

6.1.15 Message: Not all ingredients available

Message *Not all ingredients available*

Solution Perform the following steps to solve the problem:

1. One or more canisters must be refilled.
See section Fill the ingredient canisters.

6.1.16 Message: No coffee detected in brewer

Message *No coffee detected in brewer*

Solution Perform the following steps to solve the problem:

1. Check if a canister must be refilled.
See section Fill the ingredient canisters.
2. Check if the grinder runs to fill the brewer.

6.1.17 Message: No water connected / No water in boiler

Message *No water connected / No water in boiler*

Cause No water detected for more than 2 minutes.

Solution Perform the following steps to solve the problem:

1. First check if the water supply is opened / connected.
2. Open the door of the coffee machine to display the **Service** menu, wait 2 seconds and close the door again to allow the coffee machine to re-activate itself.
 - If this does not help restart the coffee machine (Switch the coffee machine OFF, wait 5 seconds and then switch ON again).
 - If problem persists: Consult the service engineer (see [Service and support](#) on page 3).

6.1.18 Message: Open boiler leaking, inlet closed

Message *Open boiler leaking, inlet closed*

Cause A leak is detected.

Solution

1. Close the water tap.
2. Consult the service engineer (see [Service and support](#) on page 3).

6.1.19 Message: Place cup in center

Message *Place cup in center*

Cause Cup needs to be placed under the correct dispensing nozzle before the **[Start]** button is available.

Solution Perform the following steps to solve the problem:

1. If cup is placed in the correct position clean the cup sensor.

6.1.20 Message: Place cup right

Message *Place cup right*

Cause Cup needs to be placed under the water dispensing nozzle before the **[Start]** button is available.

Solution Perform the following steps to solve the problem:

1. If cup is placed in the correct position clean the cup sensor.

6.1.21 Message: Replace water filter

Message *Replace water filter*

Solution Consult the service engineer (see [Service and support](#) on page 3).

6.1.22 Message: Rinse brewer with tablet

Message *Rinse brewer with tablet*

- Solution** Perform the following steps to solve the problem:
1. Clean the brewer with cleaning tablet (see [Clean brewer with cleaning tablet](#) on page 70) (again).
See also [Weekly maintenance](#) (on page 43).

6.1.23 Message: Startup problem

Message *Startup problem*

- Solution**
1. Open/connect the water supply and restart the machine.
If the problem persists: Consult the service engineer (see [Service and support](#) on page 3).

6.1.24 Message: Temp. sensor disconnected

Message *Temp. sensor disconnected*

- Solution** Consult the service engineer (see [Service and support](#) on page 3).

6.1.25 Message: Temperature boiler (too) high

Message *Temperature boiler (too) high*

- Solution**
1. Open the door of the coffee machine.
 2. Insert the service key.
 3. Perform the procedure [Flush mixers and brewer](#) (on page 49) several times.
 4. If message is still shown: Consult the service engineer (see [Service and support](#) on page 3).

6.1.26 Message: Water level too low

Message *Water level too low*

- Solution** Consult the service engineer (see [Service and support](#) on page 3).

6.1.27 Message: Wait, Heating boiler

Message *Wait, Heating boiler*

- Solution** Perform the following steps to solve the problem:
1. Wait until boiler is heated.
 2. If message is still shown after 10 minutes: Consult the service engineer (see [Service and support](#) on page 3).

6.1.28 Message: Waste bucket full / Empty waste bucket

Message *Waste bucket full / Empty waste bucket*

- Solution** Perform the following steps to solve the problem:
1. Empty waste bucket (see [Clean waste bucket](#) on page 50).
 - If message is still shown, remove the waste bucket and wait 6 seconds before placing it back.
 - If message is still shown, check if the waste bucket detector switch is clean (check the [Inside view](#) (on page 17) drawing for the location).
 - If the problem persists: Consult the service engineer.

6.1.29 Message: Water filter installed?

Message *Water filter installed?*

Solution Consult the service engineer (see [Service and support](#) on page 3).

6.1.30 Message: Ready, take your cup

Message *Ready, take your cup*

Cause The dispense of the beverage is finished.

Solution Remove the cup or jug.

Technical specifications

7.1 Standards and regulations

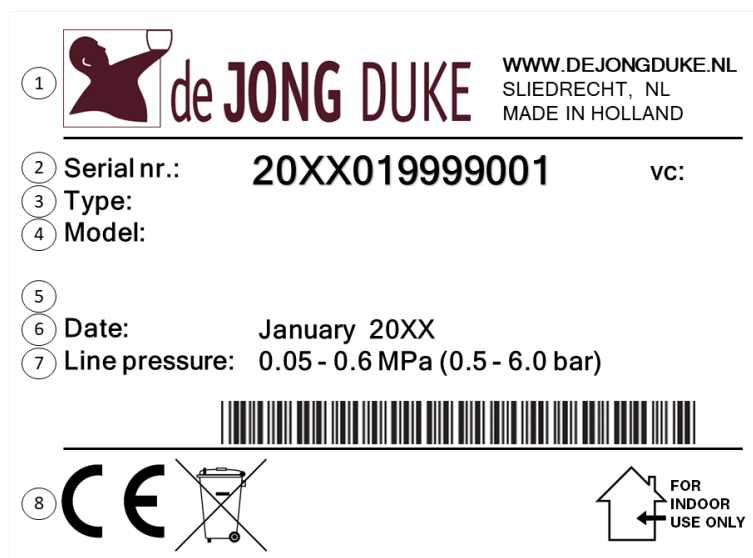
If the type plate inside the machine contains the CE mark in the lower left hand corner it conforms to CE standards.

- Check the appendix of this manual for the Declaration of Conformity.

7.2 Type plate

The type plate is located inside the machine on the left side panel.

Type plate layout



- | | |
|-------------------------------|------------------------------------|
| 1. Manufacturer details | 5. Mains power specifications |
| 2. Serial number | 6. Date of production |
| 3. Model code | 7. Water connection specifications |
| 4. Model name / configuration | 8. Conformity |



NOTE

Data shown in the picture is for illustration purposes only.

7.3 Disassembly and recycling



The coffee machine contains recyclable materials. Dispose of the coffee machine in conformity with local laws and regulations.

7.4 Technical specifications

*Machine dimensions (± 5 mm) and weight specifications ($\pm 10\%$)
Virtu FND Small Cabinet*

| | |
|------------------------------------|---------|
| Height | 795 mm |
| Height with bean canister | 860 mm |
| Height with extended bean canister | 1010 mm |
| Width | 365 mm |
| Depth | 535 mm |
| Depth door only | 145 mm |
| Weight (empty) | 46 kg |

Machine electrical specifications

| | |
|-----------------------------|---|
| Mains supply ($\pm 10\%$) | Refer to the type plate (on page 108) inside the coffee machine for the correct values. |
| Frequency ($\pm 2\%$) | |
| Max. capacity | |

Machine water specification

| | |
|-------------------------|---|
| Water pressure | |
| Minimum pressure | 50 kPa (0,5 bar) |
| Maximum pressure | 600 kPa (6,0 bar) |
| Water connection | $\frac{3}{4}$ BSP connection |
| Quality of water | |
| Hardness | 5-7 ° dH° (German standard) 8-12 fH (French standard) |
| pH Value | approx. 7 |
| Temperature water | The incoming temperature may not be above: 30 °C |
| Main water connection | Between water tap and coffee machine an (electronic) waterlock needs to be connected |

Machine ambient temperature specifications

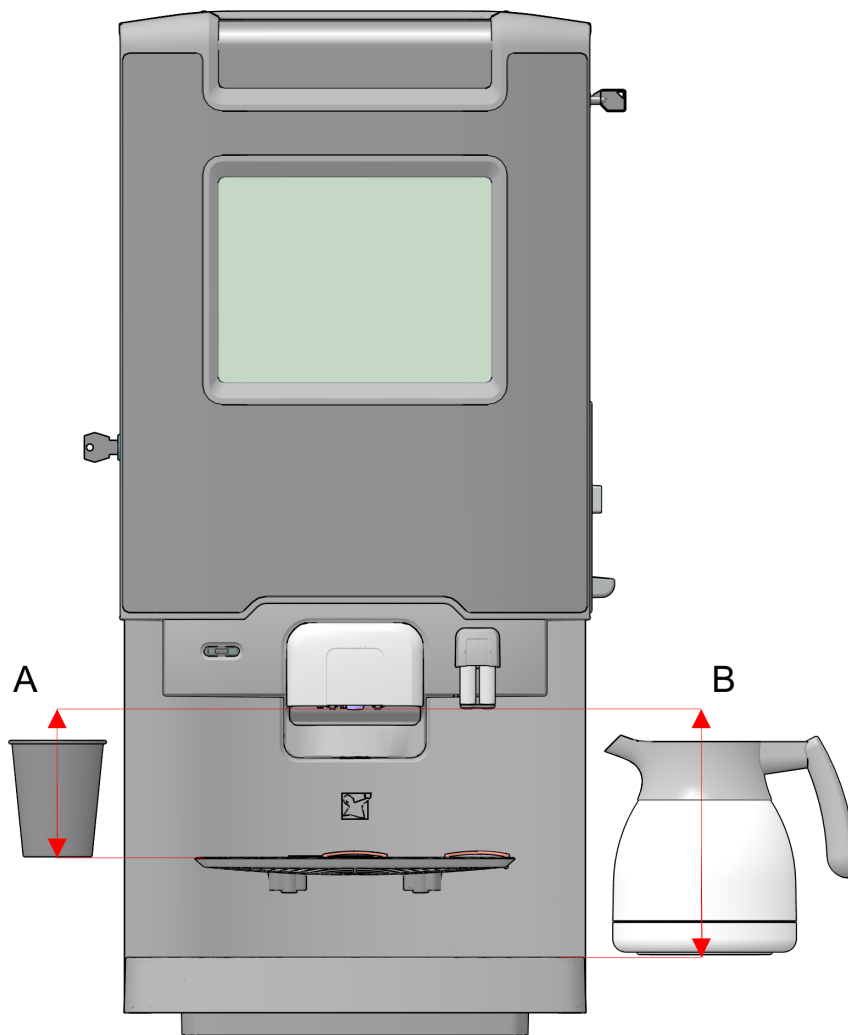
| | |
|-----------------|-------------------|
| When in storage | + 10 °C ~ + 50 °C |
| When in use | + 5 °C ~ + 40 °C |

Machine sound pressure

| | |
|------------------|--------------|
| Standby | 0 dB(A) |
| Grinder / Coffee | < 63.1 dB(A) |

7.5 Cup and jug sizes

Cup and jug dimensions Virtu (small model)



Cups (A)

| | |
|------------------------|--------|
| Maximum cup height (*) | 110 mm |
| Maximum cup diameter | 85 mm |

Jugs (B)

| | |
|----------------------|--------|
| Maximum jug height | 180 mm |
| Maximum jug diameter | 135 mm |

(*) The height of the cup stand is fixed and depends on specifications during ordering.

7.6 Manufacturer contact information



De Jong DUKE

Postbus 190
3360 AD SLIEDRECHT
The Netherlands



+31 (0) 184 209 767



www.dejongduke.nl

support@dejongduke.nl



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12680 Delta Street
Taylor, MI, 48180
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www.dejongduke.com

support@dejongduke.com

Service and support

For questions, service and ingredients for this coffee machine: Consult the service engineer (see [Service and support](#) on page 3).

Document generated on Tuesday, July 21, 2020

Appendix

8.1 Appendix list

Information related to this document and the coffee machine are:

- Declaration of conformity (see on page 114).



De Jong Duke
Postbus 190
3360 AD Sliedrecht
The Netherlands
www.dejongduke.com

EG Verklaring van Conformiteit
EC Declaration of Conformity

De firma: J.M. de Jong Machinefabriek B.V.
The company: Postbus 190
3360 AD Sliedrecht
The Netherlands

Verklaart geheel onder eigen verantwoordelijkheid dat de onderstaande machines:
Declares under it's own sole responsibility that the machines:

Machine
Virtu Range

With Safe Operating Limits:
135 °C/ 5.5 bar (steam vessel)
135 °C/ 12 bar (water vessel)

| | | |
|---|---|---|
| In overeenstemming zijn met de volgende EG-richtlijnen: <i>Is in conformity with the following EC directives:</i> | 2014/30/EU 2014/35/EU 2009/125/EC 2012/19/EU 2011/65/EU 1935/2004/EC 97/23/EC PSSR2000 | (Electromagnetic Compatibility Directive) (Low Voltage Directive) (ECO Design) (WEEE Directive) (RoHS Directive) (Food Safety Directive) (Pressure equipment Directive) (UK regulation: Pressure Systems Safety Regulations) |
| Voldoet aan de volgende geharmoniseerde Europese normen: <i>Complies with the following harmonized European standards:</i> | <i>Electromagnetic Compatibility:</i> <i>Electric Safety:</i> <i>Restriction of Hazardous Substances:</i> | EN 55014 – 1 EN 55014 - 2 EN 61000 - 3 - 2 EN 61000 - 3 – 3 EN 62233 EN 60335 - 1 EN 60335 – 2 - 75 EN 32321 EN 50581 |

Sliedrecht, 2020, Januari

M.J.C. de Jong
Managing Director

