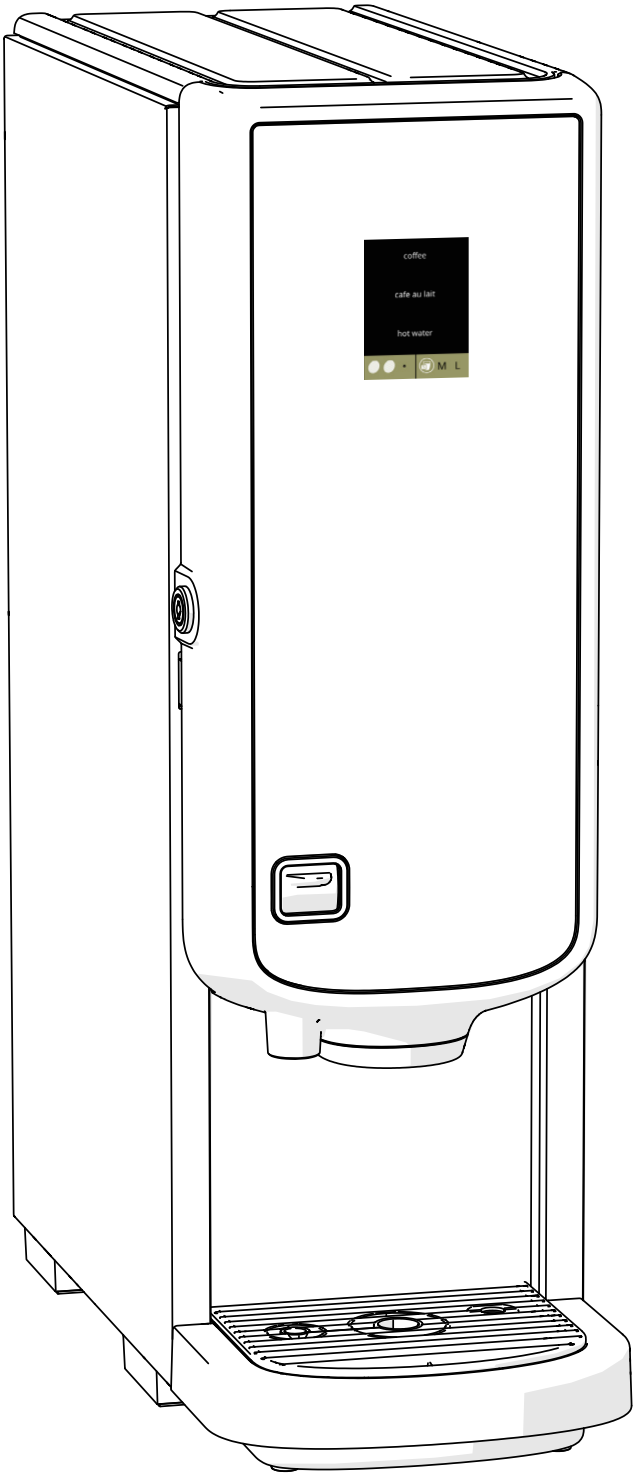
BRAVILOR BONAMAT

Bolero 11
and
Bolero 21

OPERATING MANUAL



700.470.008 (Digital manual - English)

HMI: V2.1.0

Model-no:
- BLR1-010
- BLR2-010

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The information in this document is based on data that was available at the time the design, the material characteristics and the operating methods were published, meaning that this document is subject to change.
The original instructions for this manual have been written in English. Other language versions of this manual are a translation of the original instructions.
For this reason, the instructions are merely a guideline for the installation, maintenance and repair of the machine displayed on the front cover.
This document applies to the standard version of this machine.
The manufacturer therefore declines all liability for any damage arising from specifications that deviate from the standard version of the machine delivered to you.
This document has been compiled with the utmost care. However, the manufacturer cannot be held liable for any errors it contains or the consequences thereof.

BRAVILOR BONAMAT

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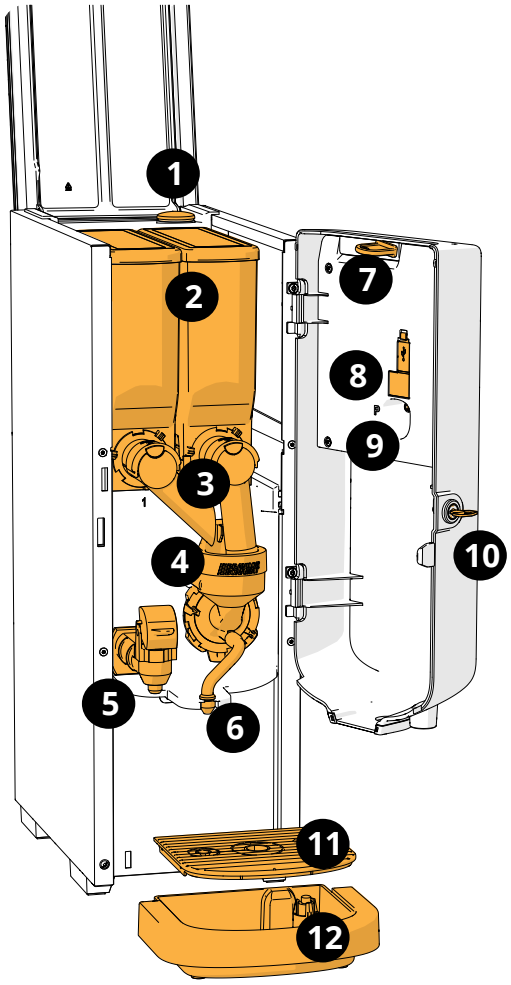
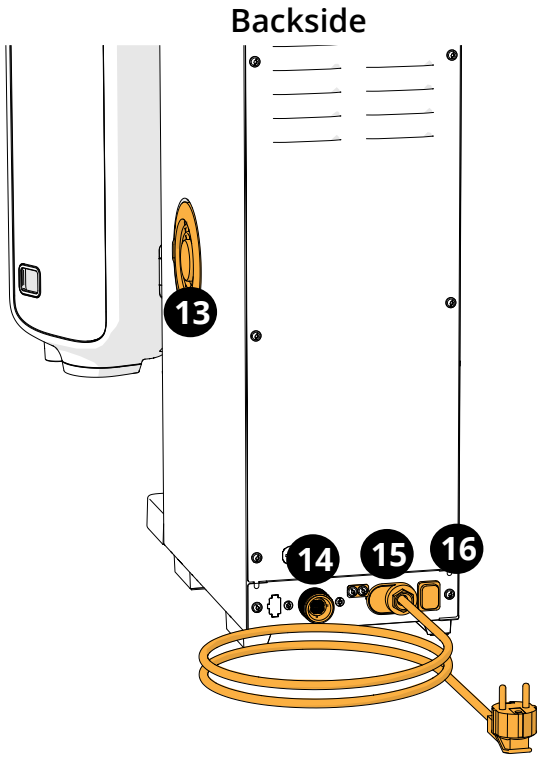
1. Parts and functions

1.1 Parts

1. descaling cap
2. canisters
3. canister outlet
4. mixing system
5. hot water tap
6. beverage outlet
7. safety key
8. USB connection
9. programming button
10. door-key
11. drip tray plate
12. drip tray with float
13. ventilation system
14. water inlet
15. electrical connection
16. on/off switch





1.2 Optional water filter

To enjoy your beverages even more and improve the performance of your Bolero, we recommend installing a water softener filter. You can request one from Bravilor Bonamat BV.

► *When you install a water softener filter you must notify the Bolero of its presence as described in* *§5.1.3 on p.26*.

1.3 Controls

The basic buttons are described underneath.
Overall the Bolero reacts after the release when a button is pressed.

► *If no button is pressed within 5 minutes, the Bolero returns to the beverage selection screen.*

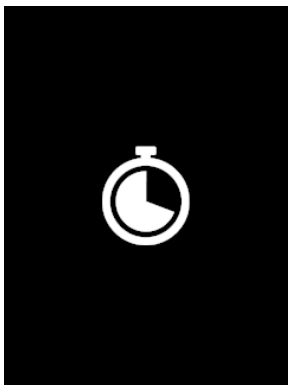
controls	function
< >	navigate between screens
start	start an action
✓	confirm *(not saved yet)*
save	save adjustments
✗ cancel	cancel
< > ^ v	browse the available options on a screen
+ −	increase and decrease

► All screen shots in this manual are in English.
► The beverages, recipes and settings used are only examples.

2. Start up

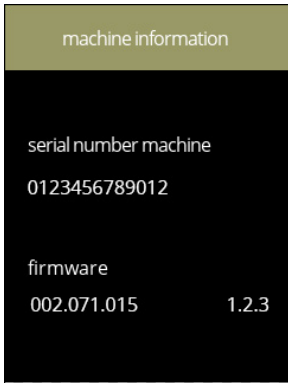
► *The Bolero can display different screens, depending on the model of the Bolero.*

2a



Initialisation.
- wait for the next screen

2b



Machine information.
- after a few seconds the next screen will appear depending the status of the machine:

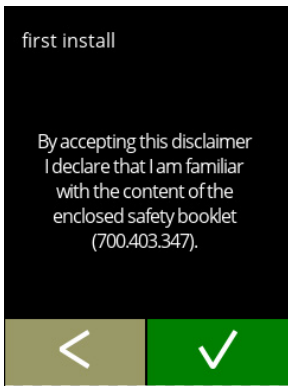
► *First install already completed, the next screen is 2k.*

2c

First install, select your language:
- press ⌃ or ⌄ to scroll through the available languages
- press ✓ to confirm

► *The installation menu is only shown when the machine is switched on for the first time or is switched on after the factory settings have been reset, see §5.3.13 on p.94.*

2d

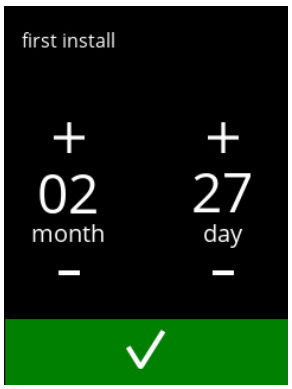


Read the safety book.
- press ☇ to go the previous screen
- press ☑ to confirm

2e

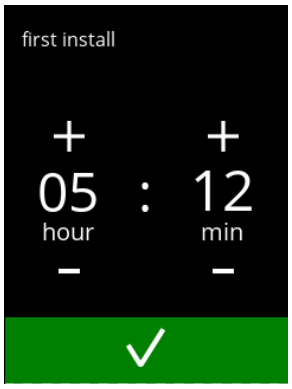
Set the year:
- press ✚ or ▬ to set the current year
- press ☑ to confirm

2f



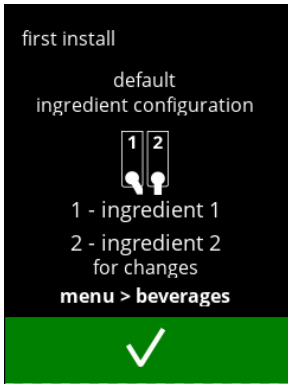
Set the day and month:
- press ✚ or ▬ to set the current day and month
- press ☑ to confirm

2g



Set the time:
- press ✚ or ▬ to set the current the hour and minutes
- press ☑ to confirm

2h



Information screen:
- fill the canisters with ingredients according to the instructions on the screen

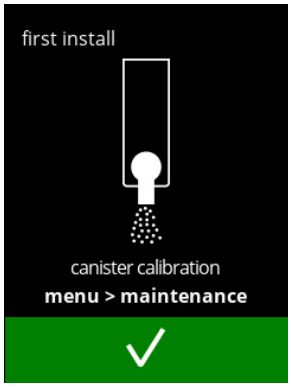
► *Only use ingredients that are suitable for vending machines.*

- press ☑ to confirm

► *The screen depends on the configuration of the machine, see §7.3 on p.117.*

► *The values can be changed in the beverage menu, see §5.2.5 on p.67.*

2i



Information screen:
- press ☑ to confirm

► *Calibration is essential for a correct dosage of the ingredients and can be done in the maintenance menu, see §5.1.7 on p.35.*

2j

Information screen:
- press ☑ to confirm

► *The date, time and language can be changed in §5.3 on p.74.*

2k

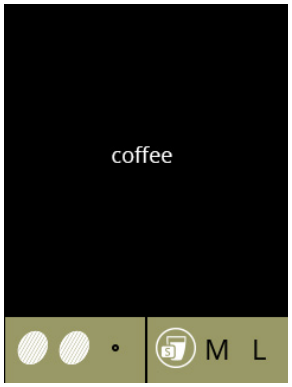
Information screen - filling boiler.
- wait for the next screen

2l

Information screen - boiler heating:
- wait for the next screen

2m

Bolero 11



Bolero 21

The machine is ready for use.

3. Your beverage

If you press on name the beverage prepares immediately.
If you want to personalise the drink, select one of the icons in fig. 3.1a, then press the drink of your choice.

3.1 Personalise your beverage

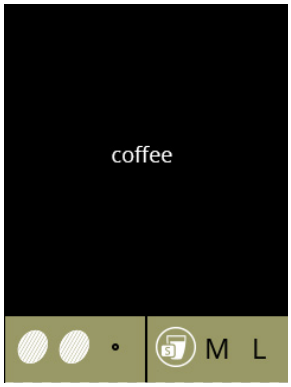
► *These settings are used in preparing this one beverage and are not saved.*

Options
Strength:
- press the beans (carousel) to select the beverage strength (to adjust see §5.2.7 on p.71)

Beverage size:
the letters (S=small / M=medium / L=large) represents the three steps in volume
- press the "letters" (carousel) to select the beverage cup size

3.1a

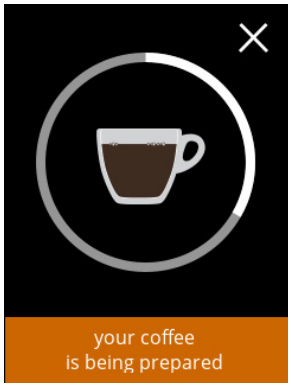
Bolero 11



Bolero 21

Selecting a beverage:
- touch the beverage of your choice

3.1b

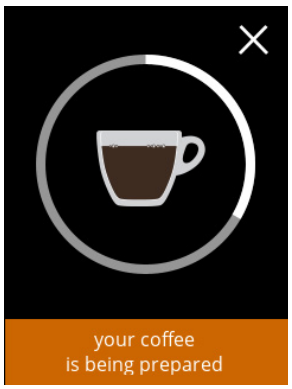


Preparing a beverage:
- please wait

3.1c

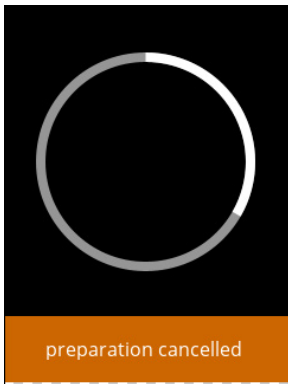
3.2 Cancelling instant related beverages

When a beverage is selected, immediately a cancel button appears.
The cancel button ☒ may have a limited dimension but the dosing action can always be stopped wherever the screen is touched.
The cancel function is enabled by default and can only be turned off in §5.3.12 Connected devices on p.92.
When a beverage is cancelled, the mixer continues to run for a few seconds to clean the mixing system.



3.2a

Cancel a beverage:
- touch anywhere on the screen to cancel the beverage



3.2b

Information screen:
- this screen is displayed to indicate the beverage has been cancelled.

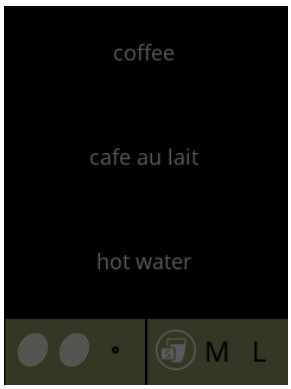
3.3 Hot water tap

The Bolero comes in two versions, with and without a manual hot water tap. The separate tap provides hot water for tea or soup.
The hot water tap is intended for filling a cup with plain hot water. Wait a few seconds between drawing off hot water and selecting a new beverage so that the machine can refill itself.
The hot water tap is not blocked if the water temperature is too low.

► *It is not allowed to tap hot water while preparing a drink, in order to prevent clogging of the mixing system.*

3.4 Screensaver

If the screen has not been touched for a certain time, the screensaver starts.
The screensaver timer can be set in §5.3.5 on p.79.



3.4a

Screensaver:
- touch anywhere on the screen to return to the beverage selection screen

3.5 Energy saving mode (ECO)

The device is equipped with an energy saving mode (ECO) this is used to save energy consumption when the machine is not used (e.g. overnight or during a weekend).

When energy-saving mode becomes active, the following actions are performed:
- water level control disabled
- boiler heating disabled
- backlight display set to low percentage.
- fan disabled

3.5a

The energy control consist out of a (customised) screensaver with a symbol as semi transparent overlay.
The energy-saving mode has priority over the screensaver.
- touch anywhere on the screen to return to the beverage selection screen

▶ *Depending on the switch−off time, it can take a few minutes before the machine is ready for use again.*

4. Cleaning

It is important that the Bolero is kept clean, what can be cleaned:

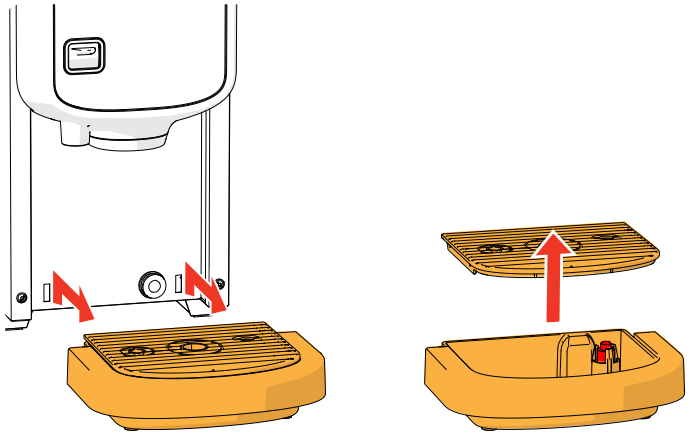
daily	weekly
drip tray	canister(s)
mixing system	ventilation system
the outside	the inside

► *Never clean parts of the Bolero in the dishwasher, only if this is explicitly stated.*

► *Do not use any aggressive cleaning agents.*

► *See also the cleaning programmes in* *§5.1 on p.15*.

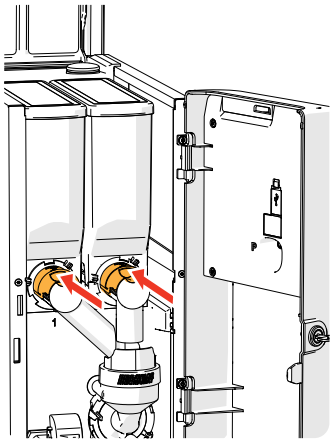
4.1 Daily cleaning



Drip tray:

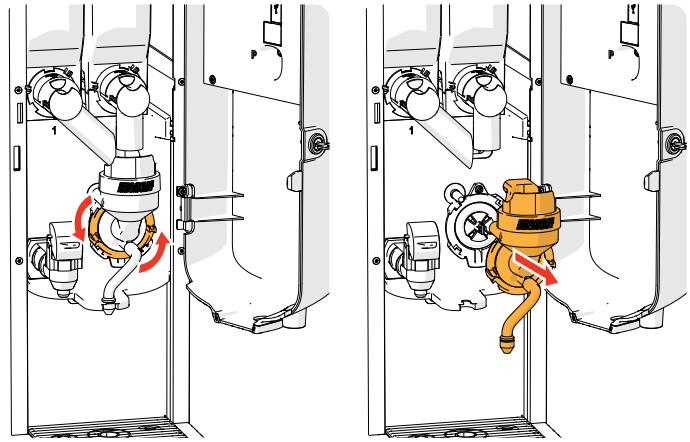
1. pull the complete drip tray forward
2. empty the drip tray
3. clean the drip tray (including grid), using *hot soapy water*
4. dry everything and place them back in place

► *Check whether the "red float" is still in place*

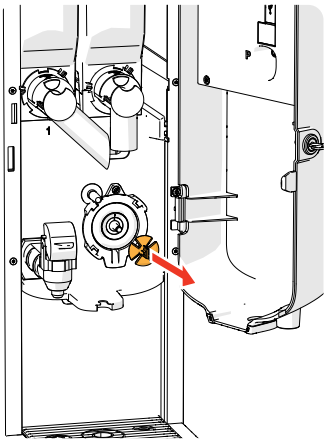


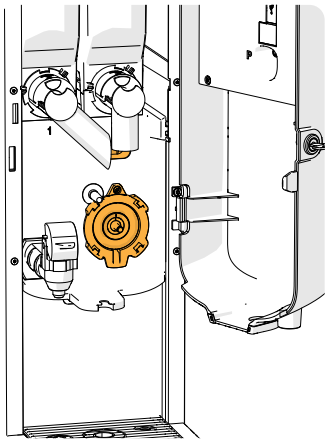
Mixing system:

1. open the door and lid
2. close the "yellow" slider of the canister outlets

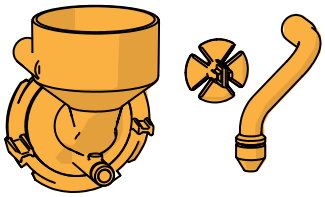


3. turn the fixation ring counter clockwise
4. remove the complete mixing system





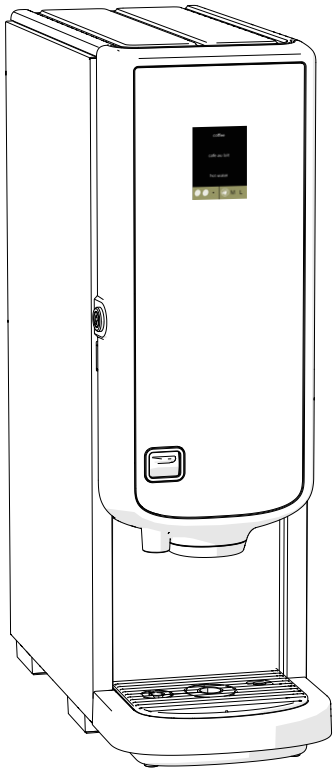
5. remove the mixer
6. clean the indicated parts, using a *damp* cloth



7. clean the removed parts *(dishwasher proof (<65°C))*
8. remount the mixing system in reverse order

► *Pay attention to the flat sides of the shaft and the mixer.*

9. reconnect the hose to the mixing system and the outlet
10. replace the ingredient canister(s) in the correct position
11. open the “yellow” slider of the canister(s)
12. close the lid and door

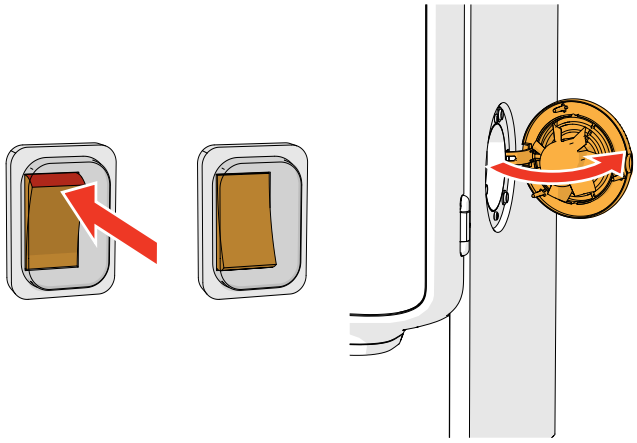


The outside:

1. switch off the machine (due to the touch screen)
2. clean the outside with a *damp* cloth
3. switch the machine back on

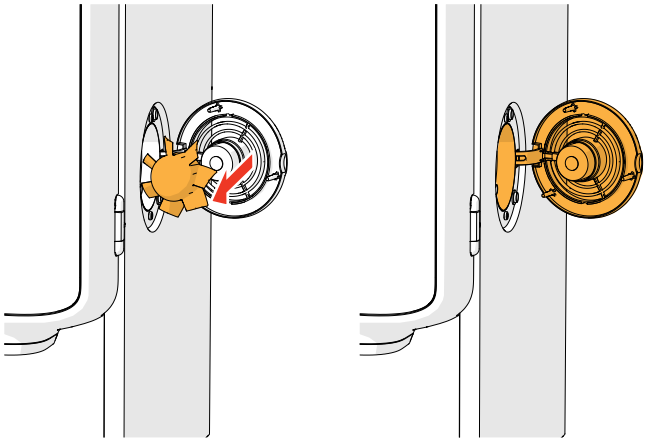
► *To prevent clogging of ingredient that has fallen into the mixing system, it is recommended to rinse the machine after the daily cleaning procedure, see* *§5.1.1 on p.16**.*

4.2 Weekly cleaning

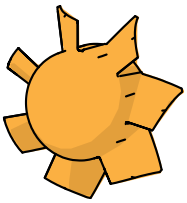


Ventilation system:

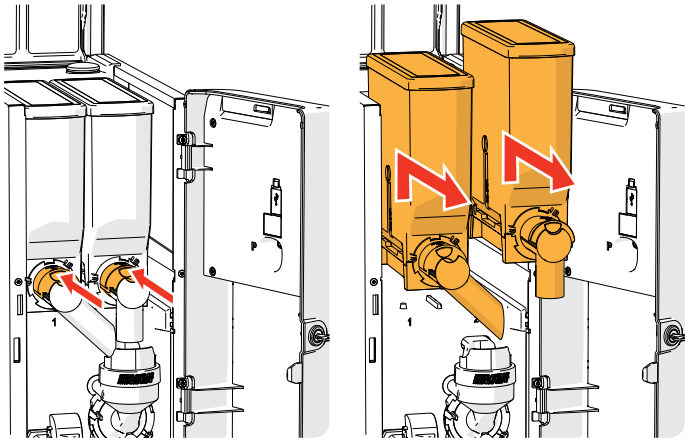
1. switch off the machine
2. open the fan to the back



3. carefully pull the rotor of the motor
4. clean the fan housing and grid, using a *damp* cloth

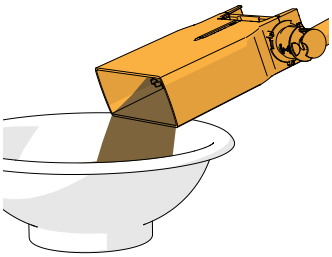


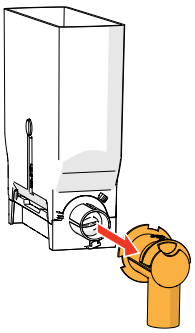
5. clean the fan rotor, using *hot soapy water*
6. dry everything and place the rotor back in place
7. switch the machine back on



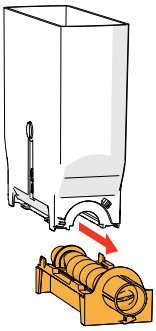
Canister(s):

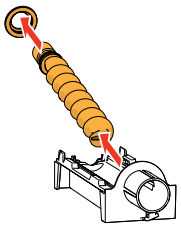
1. open the door and lid
2. close the canister outlet by moving the ”yellow” slider to the back
3. take the canister(s) out of the machine

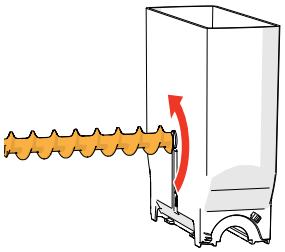


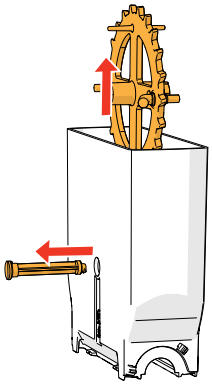


4. pour the ingredients in a dry bowl
5. unlink the outlet from the canister



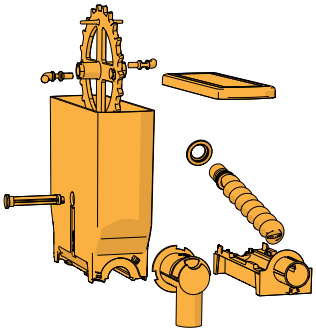


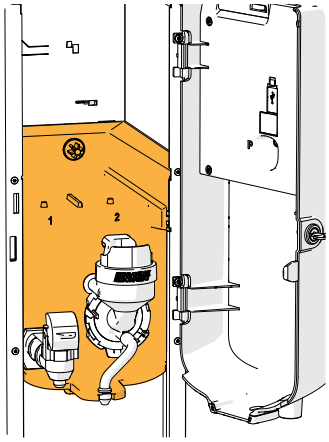




6. take apart the canister(s)
7. clean the canister and outlet with a brush

► *Do **not** use water to prevent the ingredients from clumping and clogging the canister.*





8. clean the inside of the machine with a *damp* cloth
9. refill the canister(s)
10. replace the canister(s) in its/their correct position
11. open the “yellow” slider of the canister(s)
12. close the lid and door

► *To prevent clogging of ingredient that has fallen into the mixing system, it is recommended to rinse the machine after the daily cleaning procedure, see §5.1.1 on p.16.*

5. Programming menu

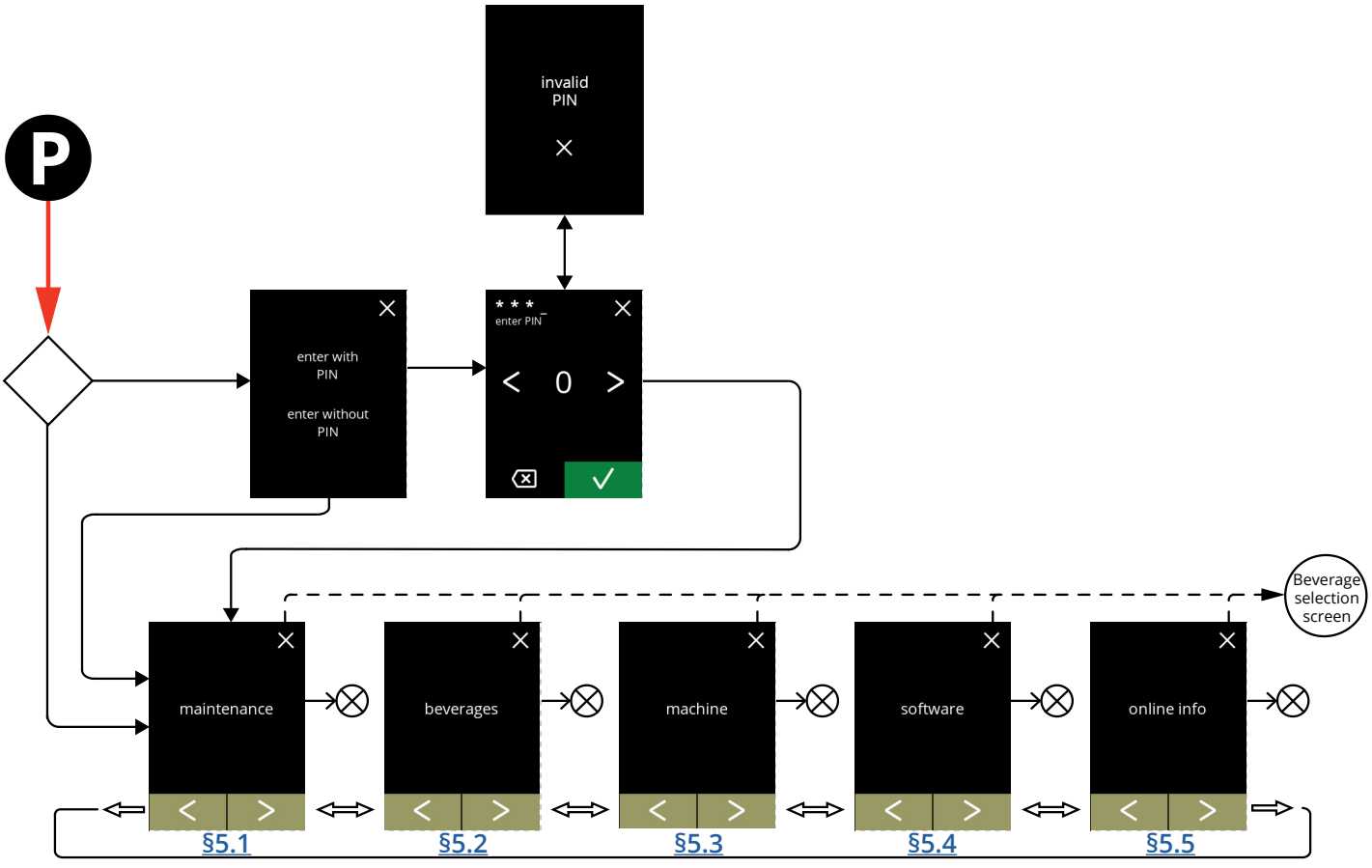
To access the programming menu:
- open the door of the Bolero this message appears on the screen
- insert the service key (no. 7 on p.1)
- press the programming button (no. 9 on p.1)

► *All screen shots in this manual are in English.*

In the programming menu select one of the available options:
- press ‹ or › to select the next option of the “programming menu”
- press the *“text area”* to select the next level for that menu
- press ☒ to exit the programming menu and return to the beverage selection menu.

► *If a PIN code is not set, all menu items are available.*
If a PIN code is set, the user can enter the menu with or without a PIN code.
The menu items secured by PIN codes will be greyed out, see also §7.4 on p.118.

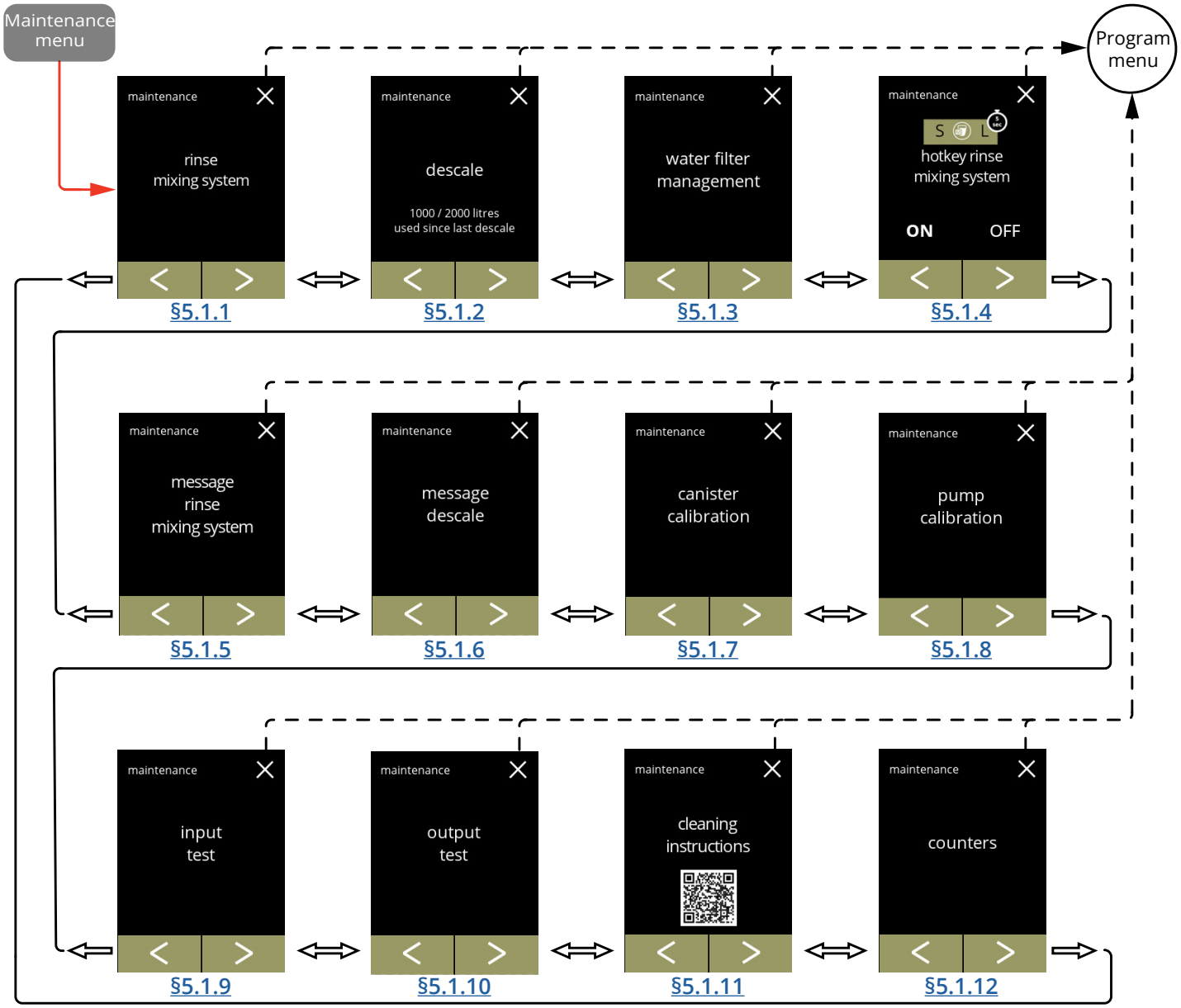
► *If no button is pressed within 5 minutes, the Bolero returns to the beverage selection screen.*



5.1 Maintenance menu

The maintenance menu contains all features that are available regarding the maintenance of the vending machine.
Select one of the available options:

- press ◁ or ▷ to choose the next option of the maintenance menu
- press the *"text area"* to select the next level for that menu
- press ☒ to go back to chapter 5. Programming menu on p.14.



5.1.1 Rinse the mixing system

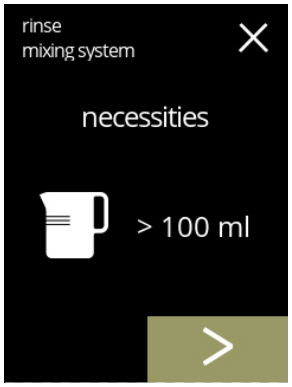
To maintain the correct functioning of the Bolero, the mixing system must be rinsed several times a day and cleaned daily, see §4.1 on p.10.
This procedure rinses the mixing system and the beverage hose.

Necessities:
- container (0,5 litre)

5.1.1

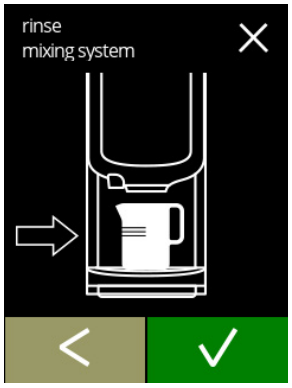
The rinsing procedure:
- press "*rinse mixing system*" to select
- press ☐ or ☐ to scroll through the maintenance menu

5.1.1a



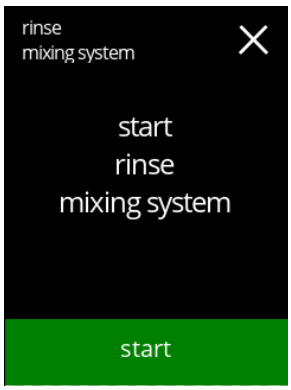
Information screen:
- make sure all necessities are available
- press ☐ to go to the next screen

5.1.1b



Information screen:
- place an empty container under the beverage outlet
- press ☑ to confirm
- press ☐ to go to the previous screen

5.1.1c



Start rinsing:
- press start to begin the rinsing

5.1.1d

Rinsing:
- wait until the process is finished

  ▶ *Hot water from the outlet*
- press cancel to abort

5.1.1e

Information screens:
- screen 5.1.1 is displayed after a few seconds

5.1.2 Descale

Descaling the Bolero will remove all lime scale within the water system.
This will extend the life-cycle of the Bolero.

Necessities:

- descale agent (recommended: “RENEGITE”, our proven descaling agent)
- measuring jug (1 litre)
- funnel
- bucket (10 litre)
- average time: ± 40 minutes
- safety gloves and goggles

► *The descaling process must not be interrupted after screen 5.1.2c.*

5.1.2

The descaling procedure:

- press “*descale*” to select
- press ‹ or › to scroll through the maintenance menu

5.1.2a

Preparation:

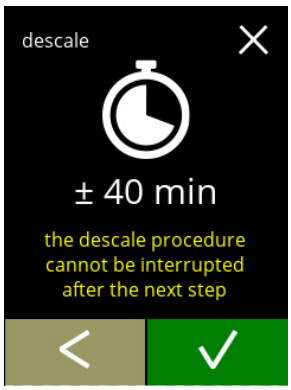
- make sure all necessities are available
- press › to go to the next screen

5.1.2b

Preparation:

- follow the instructions on the screen
- press › to go to the next screen
- press ‹ to go to the previous screen

5.1.2c



Information screen:
- average time
- press ☑ to confirm and continue the descaling procedure
- press ☇ to go the previous screen

► *The descaling process cannot be interrupted after this screen.*

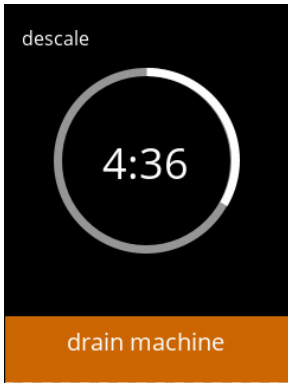
5.1.2d

Drain the machine:
- follow the instructions on the screen

► *Wear protecting gloves, hot water.*

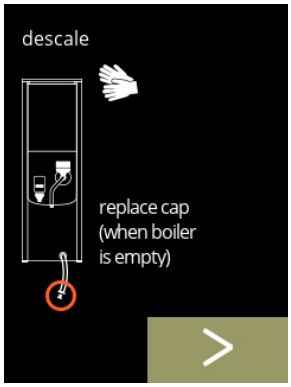
- when the water flows out of the hose, the following screen is displayed

5.1.2e



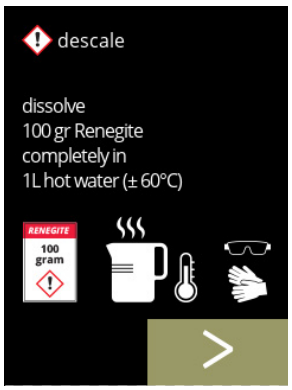
Draining the machine:
- time indication needed for draining
- when the boiler is empty, the following screen is displayed

5.1.2f



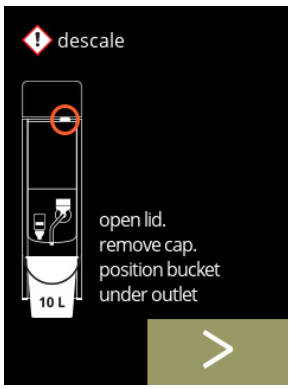
Close the hose:
- follow the instructions on the screen
- press ☇ to go to the next screen

5.1.2g



Prepare the descaling solution:
- follow the instructions on the screen
  - ► *Wear safety gloves and safety goggles.*
  - ► *The descaling agent must be dissolved completely.*
- press > to go to the next screen

5.1.2h

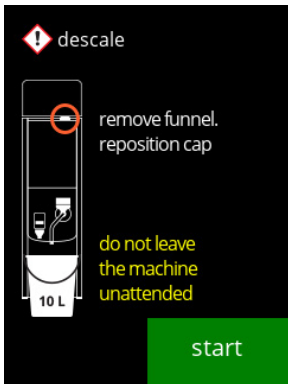


Preparation:
- follow the instructions on the screen
- press > to go to the next screen
  - ► *Place the bucket also under **all** the outlets (including the hot water outlet).*

5.1.2i

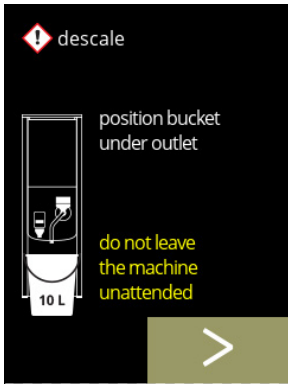
Preparation:
- follow the instructions on the screen
- press > to go to the next screen
  - ► *Wear safety gloves and safety goggles.*
  - ► *Do not leave the machine unattended while a descaling solution is in the machine.*

5.1.2j



Start descaling:
- press start to begin the descaling

5.1.2k

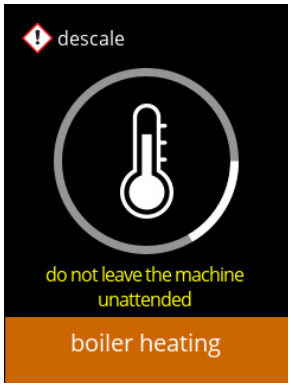


Descaling:

► *Make sure that the bucket is placed under the outlets, in the next step, water with descaling solution will come out of **all** the outlets (including the hot water outlet).*

• press ▸ to go to the next screen

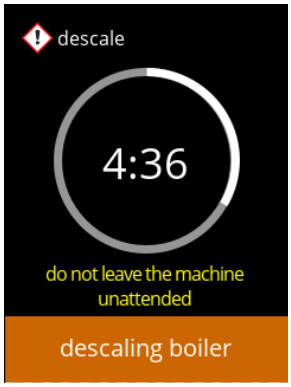
5.1.2l



Descaling:

• the boiler is heating up, wait for the next screen

5.1.2m



Descaling:

• when the timer has expired the next screen appears and hot water with descaling solution comes out of the outlets

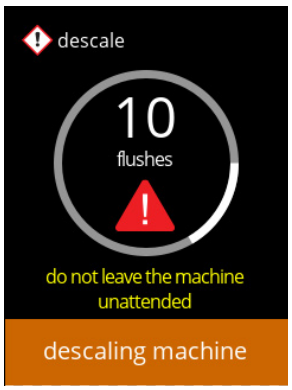
5.1.2n

Descaling - warning screen:

• wait for the next screen

► *Hot water with descaling solution will come out of the outlets.*

5.1.2o



Descaling:
- wait for the next screen
  - » with manual tap, screen 5.1.2p
  - » without manual tap, screen 5.1.2r

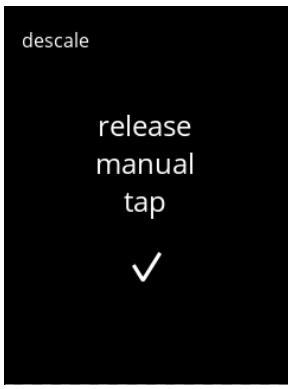
► *Hot water with descaling solution flows out of the beverage outlet.*

5.1.2p

Descaling - manual tap:
- open the manual tap
- wait for the next screen

► *Wear safety gloves and safety goggles, the water is hot and contains descaling solution.*

5.1.2q



Descaling - manual tap:
- close the manual tap
- wait for the next screen

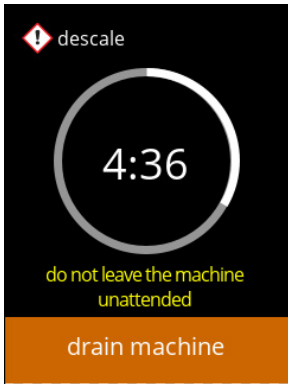
5.1.2r

Descaling - draining:
- follow the instructions on the screen

► *Wear safety gloves and safety goggles, the water is hot and contains descaling solution.*

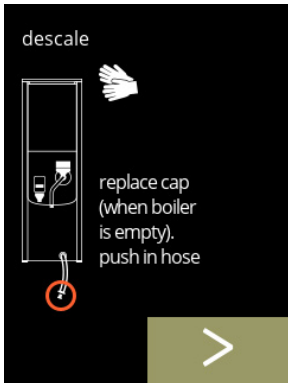
- when the water flows out of the hose, the next screen is displayed

5.1.2s



Descaling - draining:
- time indication needed for draining
- when the boiler is empty, the next screen is displayed

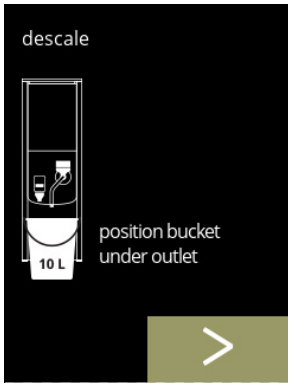
5.1.2t



Descaling - draining:
- follow the instructions on the screen
- press > to go to the next screen

► *Remove and empty the bucket.*

5.1.2u



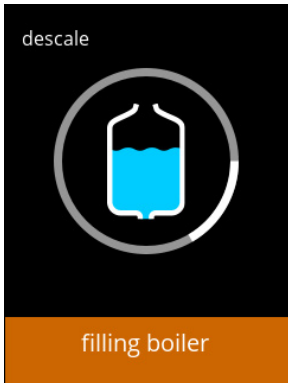
Descaling - rinse:
- follow the instructions on the screen

► *Use an empty bucket.*

► *Place the bucket also under **all** the outlets (including the hot water outlet).*

- press > to go to the next screen

5.1.2v



Descaling - rinse:
- the boiler is filling, wait for the next screen

5.1.2w

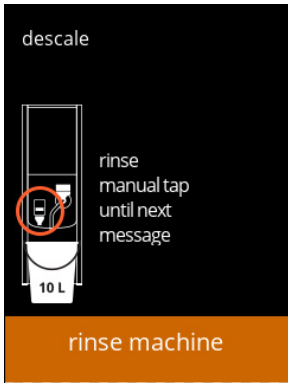
Descaling - rinse warning screen:
• wait for the next screen

► *Water will come out of the beverage outlet.*

5.1.2x

Descaling - rinsing:
• wait for the next screen
» with manual tap, screen 5.1.2z
» without manual tap, screen 5.1.2aa

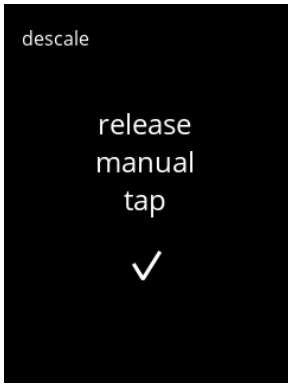
5.1.2y



Descaling - rinsing manual tap:
• open the manual tap
• wait for the next screen

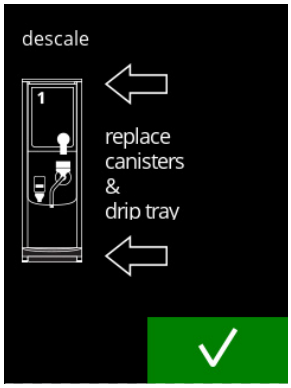
► *Water will come out of the hot water outlet.*

5.1.2z



Descaling - rinsing manual tap:
• close the manual tap
• wait for the next screen

5.1.2aa



Descaling - ending:
- follow the instructions on the screen
- press ☑ to confirm every things has been restored

5.1.2ab

Information screen:
- screen 5.1.2 is displayed after a few seconds

5.1.2ac

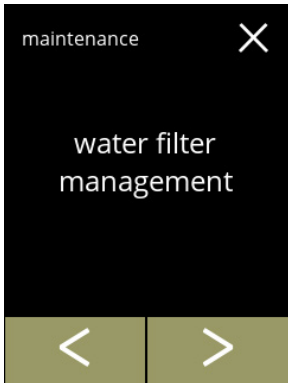
Warning screen interrupted descaling process:
- press resume to continue the procedure where it was interrupted and to finish the descaling process

5.1.3 Water filter management

If a water filter is installed, replaced or removed must be confirmed in the software so that the counter is updated. A water filter lessens lime-scale deposits and reduces impurities in the water. The Bolero also does not need to be descaled so often, see §7.1 on p.117.
Additionally, it ensures a consistent quality of the hot beverage in both taste and aroma.

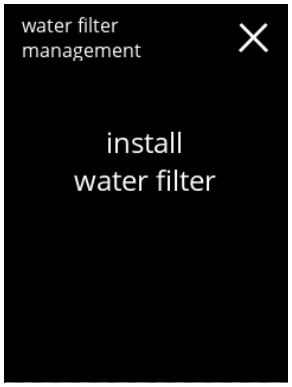
water filter settings	default	minimum	maximum
capacity (litre)	*OFF*	100	10000
months shelf life		1	24

5.1.3



Install, replace or remove the water filter:
- press "*water filter management*" to select
  - » water filter **already** installed go to screen 5.1.3c
  - » water filter **not yet** installed, go to the next screen
- press ‹ or › to scroll through the maintenance menu

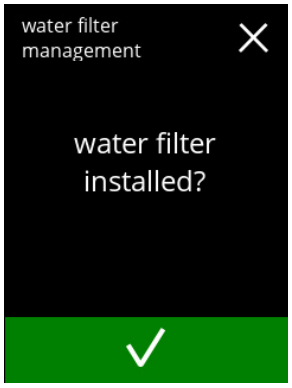
5.1.3a



Installing:
- press "*install water filter*" to select

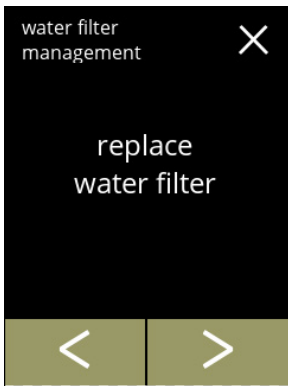
► *Read the instructions that come with the filter.*

5.1.3b



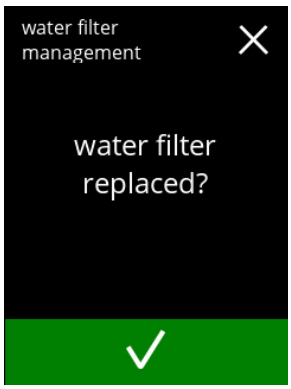
Confirmation screen:
- install the water filter (conform its instructions)
- press ☑ to confirm and go to screen 5.1.3f

5.1.3c



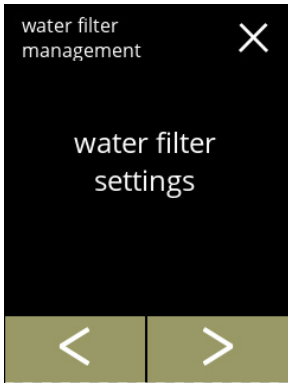
Replacing:
- press *"replace water filter"* to select
- press ‹ or › to scroll through the water filter sub-menu
  » water filter settings (5.1.3e)
  » uninstall water filter (5.1.3h)

5.1.3d



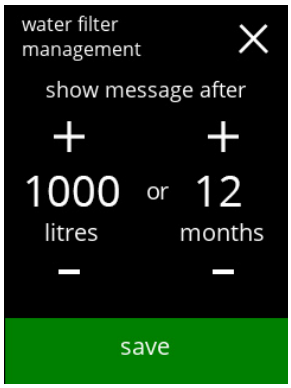
Replace the water filter (according to its own instructions).
- press ✓ to confirm and go to screen 5.1.3f

5.1.3e



Set notification:
- press *"water filter settings"* to select and go to the next screen
- press ‹ or › to scroll through the water filter sub-menu
  » uninstall water filter (5.1.3h)
  » replace water filter (5.1.3c)

5.1.3f



Set the *'replace water filter'* message:

▶ *When the water filter is first installed, both values start at 0 and must be changed before* save *is displayed.*

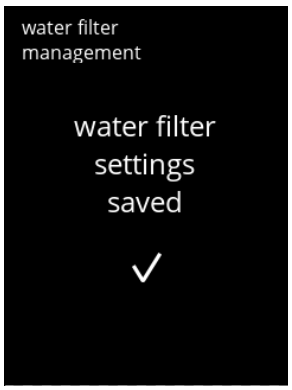
▶ *When replacing a water filter, the previous values are set and* save *is displayed immediately.*

- adjust the settings

▶ *Both values are required*

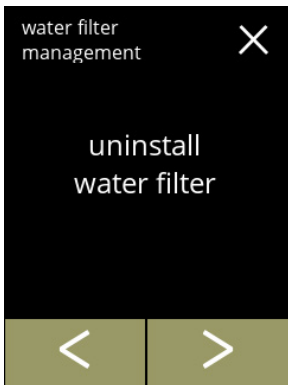
- press save to confirm

5.1.3g



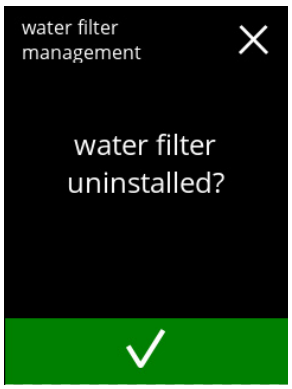
Information screens:
- screen 5.1.3 is displayed after a few seconds

5.1.3h



Permanent removal:
- press *"uninstall water filter"* to select and go to the next screen
- press ‹ or › to scroll through the water filter sub-menu
  - » replace water filter (5.1.3c)
  - » water filter settings (5.1.3e)

5.1.3i



Uninstall the water filter:
- physically remove the water filter
- press save to confirm

5.1.3j

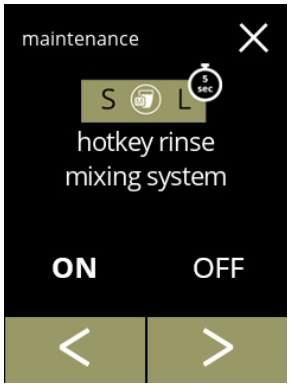
Information screen:
- screen 5.1.3 is displayed after a few seconds

5.1.4 Hot-key rinsing function

To prevent clogging, it is necessary to rinse the mixing system several times a day.
For this purpose, it is possible to set up a so-called hot-key on the screen.
In this menu it is possible to put the hot-key rinsing function active or inactive in the beverage selection screen.
Default: OFF

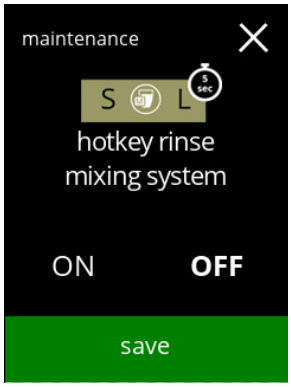
► *To use the hot-key rinsing function press and hold for five seconds the S M L button on the beverage selection screen, the rinsing of the mixing system starts immediately.*

5.1.4



Availability of hot-key:
- press *"ON"* to make the hot-key visible
- press ‹ or › to scroll through the maintenance menu

5.1.4a



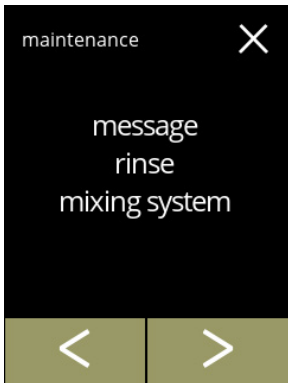
Setting the hot-key:
- press save to confirm

► *Save is only active if something has changed.*

5.1.5 Cleaning management

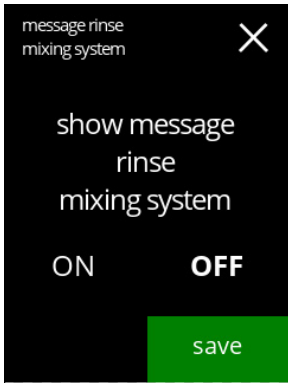
In this menu, it is possible to set a time for a cup counter to display a warning before rinsing the machine.
The warning can always be cancelled without rinsing the machine.
Default: OFF

5.1.5



Cleaning management
- press "*message rinse mixing system*" to select
- press ‹ or › to scroll through the maintenance menu

5.1.5a

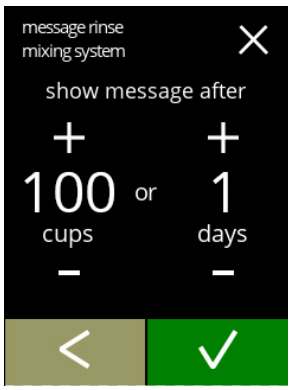


Setting rinse message:
- press *'ON'* or *'OFF'* to set the message
  - » select OFF and save:
    go to the next screen
  - » select ON and ☑:
    next screen is 5.1.5c

5.1.5b

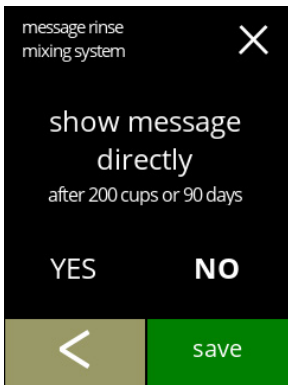
Information screen:
- screen 5.1.5 is displayed after a few seconds

5.1.5c



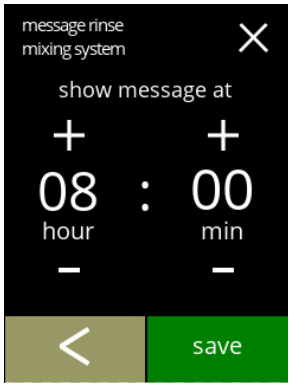
Set day or time:
- press ✚ or ▬ to set the number of cups or days after which the warning should pop-up
- press ☑ to confirm and go to the next screen
- press ‹ to go back to screen 5.1.5a

5.1.5d



Message direct or at a later time:
- press *"YES"* or *"NO"* to set the message timing
  - » select YES and save:
    go to the second screen of 5.1.5f
  - » select NO and ☑:
    go to the next screen
- press ‹ to go to the previous screen

5.1.5e



Set the timer:
- press ✚ or ▬ to set the hour and minutes
- press save to confirm and go to the first screen of 5.1.5f
- press ‹ to go to the previous screen

5.1.5f

Information screens:
- screen 5.1.5 is displayed after a few seconds

5.1.6 Descale management

It is important to know the correct hardness of the water at the location where the Bolero is used (for setting the descaling signal).
If necessary, ask the local water company for the hardness of the water supplied or measure the hardness of the water supplied on site with a water hardness tester (according to the corresponding instructions).

Default: ON (with average water hardness)
See also §7.1 Filter information and water hardness on p.117.

5.1.6

Descale management
- press "*descale management*" to confirm
- press ‹ or › to scroll through the maintenance menu

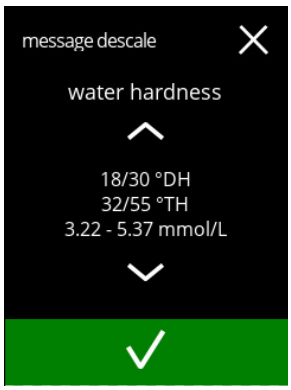
5.1.6a

Descale message:
- press *"ON"* or *"OFF"* to set the message
  - » select OFF and save:
    go to the next screen
  - » select ON and ☑:
    go to screen 5.1.6c

5.1.6b

Information screen:
- screen 5.1.6 is displayed after a few seconds

5.1.6c



Water hardness:
- press ⌃ or ⌄ to set the water hardness

► *When a water filter is used, the message can be delayed, select 0-4 °DH.*

» select a value between 4/8 and 18/30 °DH; press ☑ to confirm and go to screen 5.1.6g
» select 0/4 °DH;
press ☑ to confirm and go to the next screen

5.1.6d

Volume override:
- press save to confirm and go to screen 5.1.6h
- press override to adjust the volume for the notification and go to the next screen

► *When a water filter is used the volume can be adjusted.*

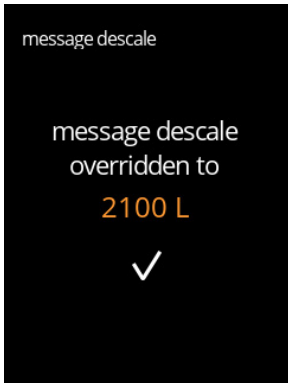
5.1.6e

Increase maximum standard volume:
- press ⊞ or ⊟ to set the volume
- press save to confirm and go to the next screen
- press default to go to the previous screen

► *The override volume is shown in orange and can be set from 2100 till 9999 litre.*

► *If used incorrectly, the descale message can be delayed for too long, allowing lime-scale to build up.*

5.1.6f



Information screen:
- screen 5.1.6 is displayed after a few seconds

5.1.6g

Standard volumes/water hardness:
- press save to confirm and go to the next screen

5.1.6h

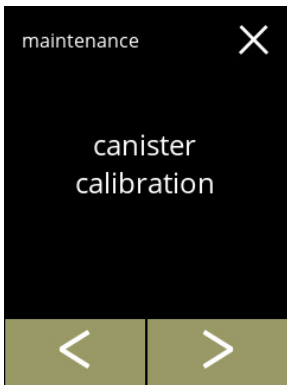
Information screen:
- screen 5.1.6 is displayed after a few seconds

5.1.7 Canister calibration

In this menu the canisters can be calibrated.
The calibration determines the quantity of the ingredient when a canister motor runs at a defined speed for a defined time.
When finished the measured weight must be filled in.

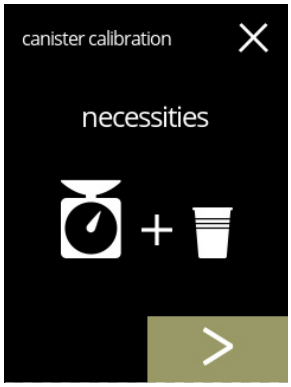
Necessities:
- empty cup
- precision scale

5.1.7



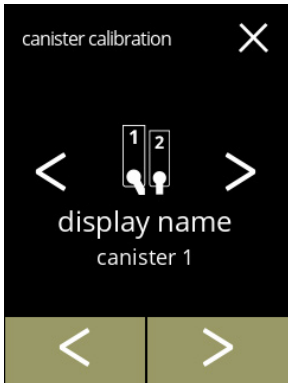
Canister calibration procedure:
- press "*canister calibration*" to confirm
- press ‹ or › to scroll through the maintenance menu

5.1.7a



Make sure all necessities are available.
- press › to go to the next screen

5.1.7b

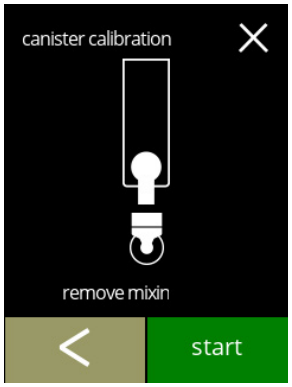


Canister selection:

► *The number of canisters may vary per configuration, see* *§7.3 on p.117*.

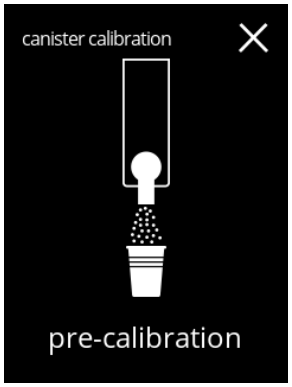
- press ‹ or › to select a canister (if more than one)
- press ☑ to confirm and go to the next screen
- press › to go to the next screen
- press ‹ to go to the previous screen

5.1.7c



Information screen:
- turn the fixation ring counter-clockwise
- remove the mixing system
- put an *empty dry* cup under the canister outlet
- press start to begin the pre-calibration dosing
- press ‹ to the previous screen

5.1.7d



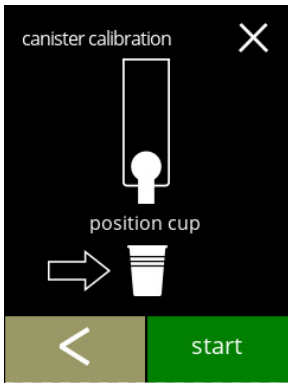
Pre-calibration dosing:
- wait for the next screen

► *The canister motor will turn to fill up the outlet.*

5.1.7e

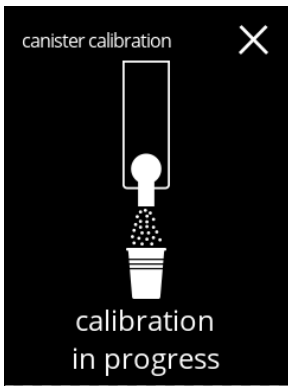
Pre-calibration dosing:
- throw the collected ingredient back into the canister
- press ✓ to confirm and go to the next screen
- press ‹ to go back to screen 5.1.7c

5.1.7f



Actual calibration:
- put a *empty dry* cup on the precision scale to calibrate
- put the cup under the canister outlet
- press start to begin the dosing
- press ‹ to the previous screen

5.1.7g



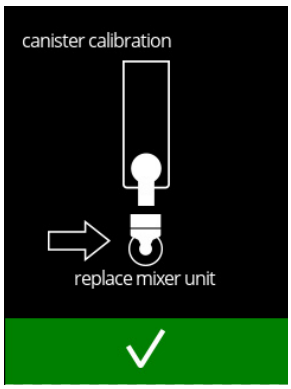
Dosing:
- wait for the next screen

► *The canister motor starts and stops several times.*

5.1.7h

Weighing the ingredient:
- put the cup with ingredient on the balance
- press ✚ or ▬ to enter the weight on the screen
- press save to confirm and go to the next screen
- press ◁ to go back to screen 5.1.7e

5.1.7i



Calibration completed:
- put the mixing system back in place
- press ☑ to confirm

5.1.7j

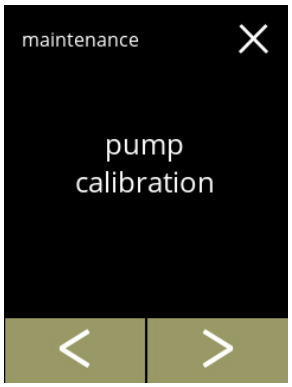
Information screens:
- screen 5.1.7 is displayed after a few seconds

5.1.8 Pump calibration

In this menu the pump can be calibrated.
With calibration the volume of the water is determined for a defined flow and time.
When finished the measured volume must be filled in.

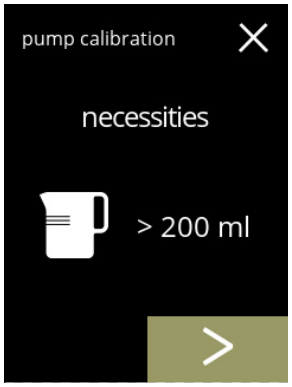
Necessities:
- measuring jug (minimal 200 ml)

5.1.8



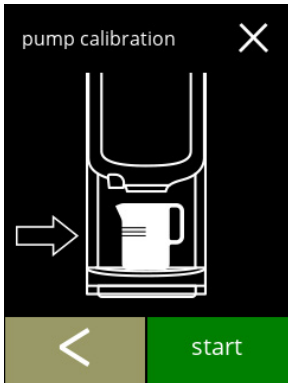
Pump calibration procedure:
- press "*pump calibration*" to confirm
- press ‹ or › to scroll through the maintenance menu

5.1.8a



Make sure all necessities are available.
- press › to confirm and go to the next screen

5.1.8b



Information screen:
- put a *empty* measuring jug under beverage outlet
- press start to begin the dosing

► *Please note the machine dispenses hot water.*

- press ‹ to go to the previous screen

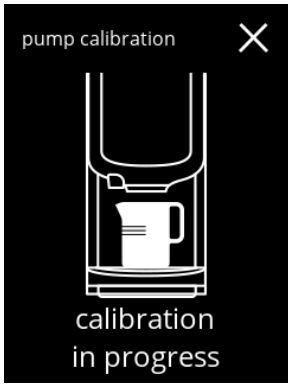
5.1.8c

Warning screen:

► *The warning screen is displayed for a few seconds.*

- wait for the next screen

5.1.8d

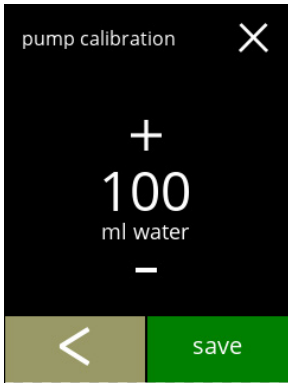


Hot water dosing in progress:

- wait for the next screen

► *Hot water from outlet.*

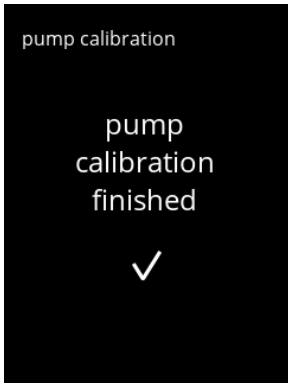
5.1.8e

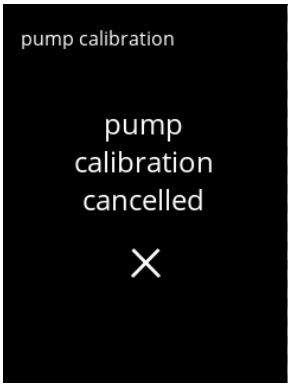


Determine volume:

- read off the amount of water dosed
- press + or − to enter the volume on the screen
- press save to confirm and go to the next screen
- press < to go back to screen 5.1.8b

5.1.8f





Information screens:

- screen 5.1.8 is displayed after a few seconds

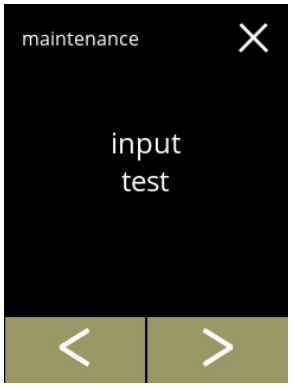
5.1.9 Input test

For a proper fault analysis a diagnosis should be made first.
An input test can be performed for the following components:

- touchscreen
- door switch / safety key
- floater
- low pressure pump
- NTC1 (low position) and NTC2 (high position)

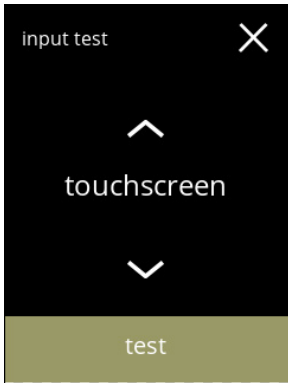
► *Despite the fact that sufficient safety measures are taken working with the systems may entail risks. Our starting point is that people activating this menu are sufficiently skilled and therefore able to properly assess these risks with respect to safety.*

5.1.9



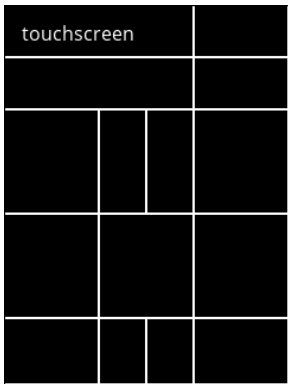
Input test
- press "*input test*" to confirm
- press ‹ or › to scroll through the maintenance menu

5.1.9a



Select an input test:
- press test to go to the next screen
- press ^ or v to select another component

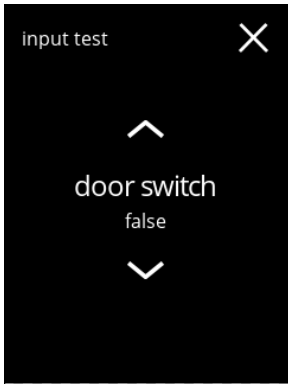
5.1.9b



Touch screen:
- touch the areas, they turn green if the button works (touch it again and it turns black again)

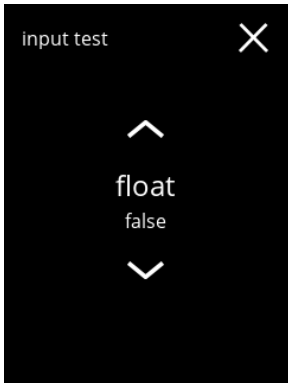
► *If not all blocks are tested within 20 seconds, the machine returns to the previous screen. Next time, the previously tested blocks are still green. This screen will not start a full black screen until all blocks are green (OK tested).*

5.1.9c



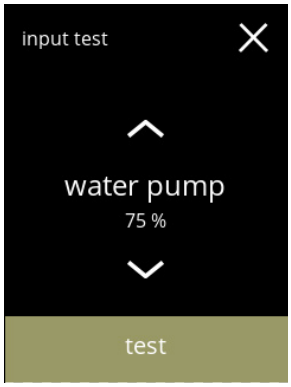
Door switch/safety key:
- remove the service key and replace it resulting in false/true
- press ⌃ or ⌄ to select another component

5.1.9d



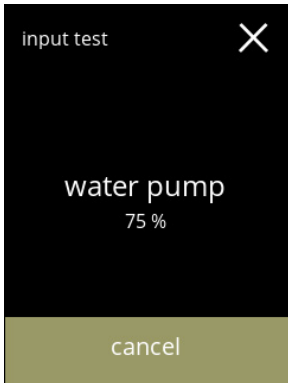
Float:
- shows current state on screen (true=wet or false=dry)
- press ⌃ or ⌄ to select another component

5.1.9e



Low pressure pump:
- shows current state of the sensor on screen (true or false)
- press test to go to the next screen
- press ⌃ or ⌄ to select another component

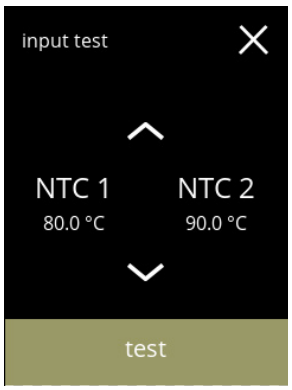
5.1.9f



Test the low pressure pump:
- the low pressure pump is turned on for 10 seconds and then stops.

  ▶ *The motor runs slowly, so no water will come out of the outlet.*
- press cancel to go back to previous screen

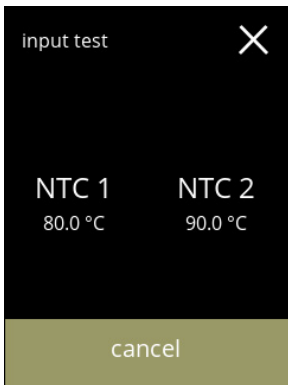
5.1.9g



NTC sensors:

- shows current temperature on screen
- press test to go to the next screen
- press ⌃ or ⌄ to select another component

5.1.9h



Test the NTC sensors:

► *The heating element is on for 10 seconds, so the temperature on the screen should rise.*

- press cancel to go back to previous screen

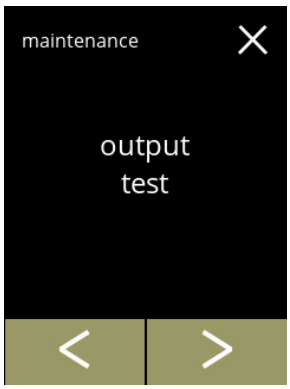
5.1.10 Output test

For a proper fault analysis a diagnoses should be made first.
The output test gives an overview of all parts able to deliver signals (electrical components).
Components that can be tested:

- buzzer
- canister(s)
- mixer motor
- low pressure pump
- heating element
- magnetic inlet valve
- fan motor

► *Despite the fact that sufficient safety measures are taken working with the systems may entail risks. Our starting point is that people activating this menu are sufficiently skilled and therefore able to properly assess these risks with respect to safety.*

5.1.10



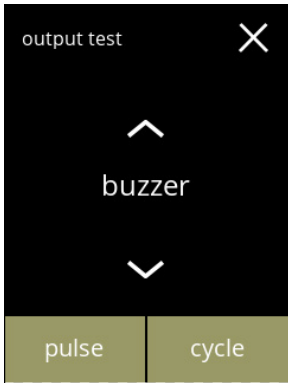
Output test
- press "*output test*" to confirm

► *There are two options for testing:*

» pulse: the action is executed as long as the button is pressed.
» cycle: the action is executed for 10 seconds and press on cancel to interrupt.

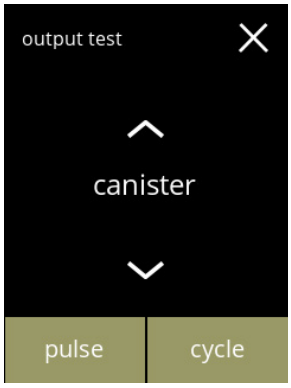
- press ‹ or › to scroll through the maintenance menu

5.1.10a



Buzzer test:
- press pulse,
  result: short *'beep'*
- press cycle,
  result: multiple short *'beeps'*
- press ⌃ or ⌄ to select another component

5.1.10b

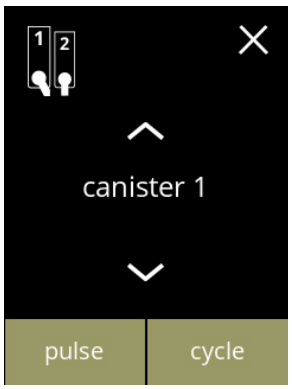


Canister motor test **Bolero 11**:
- remove the canister
- press pulse,
  result: the canister motor runs briefly at 20% speed
- press cycle,
  result: the canister motor runs at 20% speed for 10 seconds
- press ⌃ or ⌄ to select another component

5.1.10c

Canister motor test **Bolero 21**:
- press test to select a canister in the next screen
- press ⌃ or ⌄ to select another component

5.1.10d

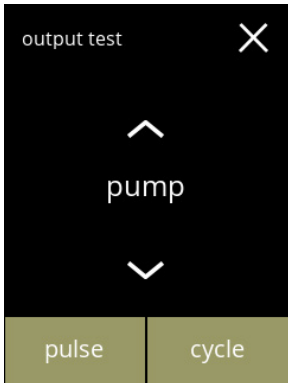


Canister motor test **Bolero 21**:
- remove the canister(s)
- press pulse,
  result: the canister motor runs briefly at 20% speed
- press cycle,
  result: the canister motor runs at 20% speed for 10 seconds
- press ⌃ or ⌄ to select another canister

5.1.10e

Mixer motor test:
- press pulse,
  result: the mixer motor runs briefly at full speed
- press cycle,
  result: the mixer motor runs at full speed for 10 seconds
- press ⌃ or ⌄ to select another mixer

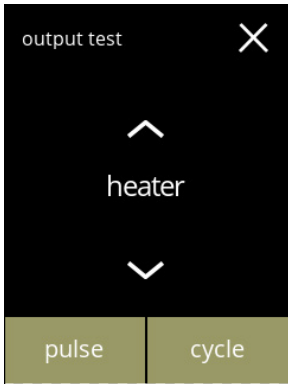
5.1.10f



Low pressure pump test:
- press pulse,
  result: the pump motor runs briefly
- press cycle,
  result: the pump motor runs for 10 seconds

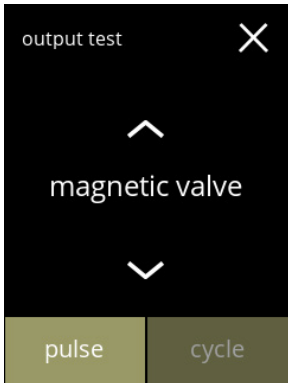
  ► *The water will not reach the mixing system.*
- press ⌃ or ⌄ to select another component

5.1.10g



Heating element test:
- press pulse,
  result: the heating element turns on for a moment
- press cycle,
  result: the heating element turns on for 10 seconds
- press ⌃ or ⌄ to select another component

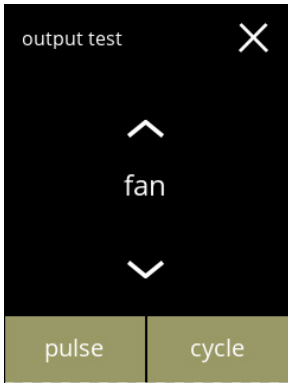
5.1.10h



Magnetic inlet valve test:
- press pulse,
  result: the valve opens for a moment

  ► *Do **not** perform the pulse test several times in a row, as this can lead to an overflow of the float tank, for this reason the cycle button is not accessible.*
- press ⌃ or ⌄ to select another component

5.1.10i



Fan motor test:
- press pulse,
  result: the fan motor runs briefly at full speed
- press cycle,
  result: the fan motor runs at full speed for 10 seconds
- press ⌃ or ⌄ to select another component

5.1.11 Cleaning instructions

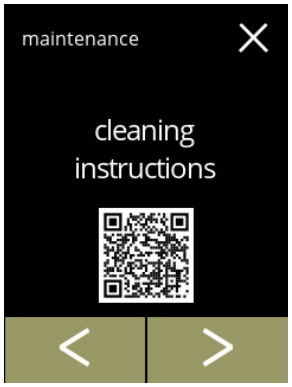
To maintain proper functioning, the Bolero must be cleaned regularly.

daily	weekly
drip tray	canister(s)
mixing system	ventilation system
the outside	the inside

► *The cleaning instructions are also available as an animation by scanning the QR code in this menu.*

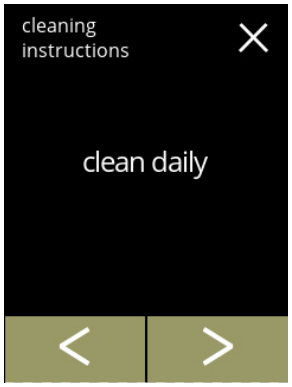
► *See also chapter 4. Cleaning on p.10 for a detailed description.*

5.1.11



Cleaning instructions:
- press "*cleaning instructions*" to confirm
- press ‹ or › to scroll through the maintenance menu

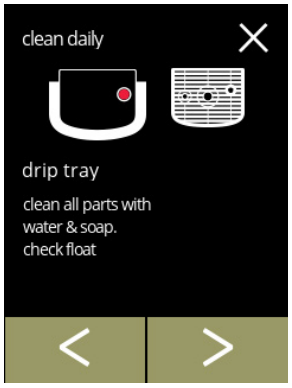
5.1.11a



Daily cleaning instructions:
- press "*clean daily*" to go to the next screen

  ► *For detailed instruction see §4.1 on p.10.*
- press ‹ or › to go to weekly cleaning (5.1.11e)

5.1.11b

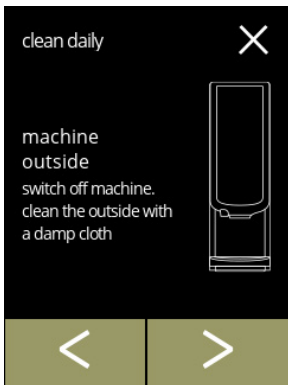


Cleaning the drip tray:
- follow the instructions on the screen
- press ‹ or › to select another daily cleaning instruction

5.1.11c

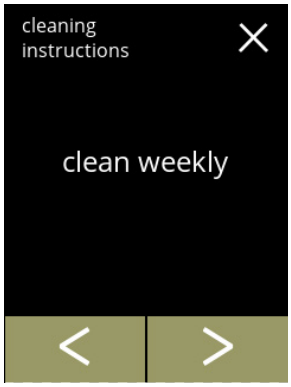
Cleaning the mixing systems:
- follow the instructions on the screen
- press ‹ or › to select another daily cleaning instruction

5.1.11d



Cleaning the outside:
- follow the instructions on the screen
- press ‹ or › to select another weekly cleaning instruction

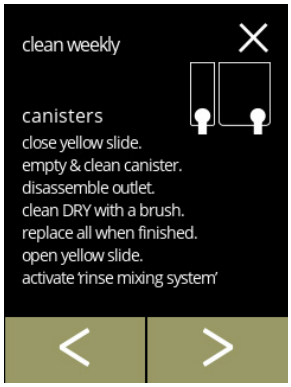
5.1.11e



Weekly cleaning instructions:
- press “*clean weekly*” to go to the next screen

  ► *For detailed instruction see* *§4.2 on p.12*.
- press ‹ or › to go to daily cleaning (5.1.11a)

5.1.11f

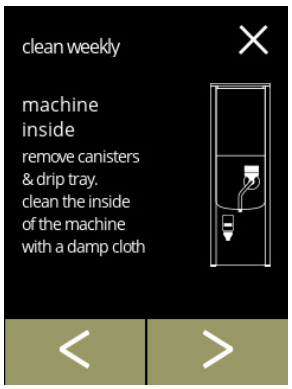


Cleaning the canisters:
- follow the instructions on the screen
- press ‹ or › to select another weekly cleaning instruction

5.1.11g

Cleaning the fan:
- follow the instructions on the screen
- press ◂ or ▸ to select another weekly cleaning instruction

5.1.11h

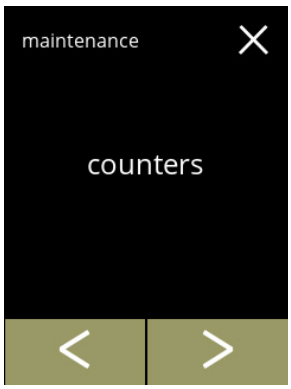


Cleaning the inside:
- follow the instructions on the screen
- press ◂ or ▸ to select another weekly cleaning instruction

5.1.12 Counters

The counters tell you how many beverages have been prepared.
A total counter of all issued beverages is also displayed.
If a drink is removed, the number of that beverage is still counted in the total machine counter.

5.1.12

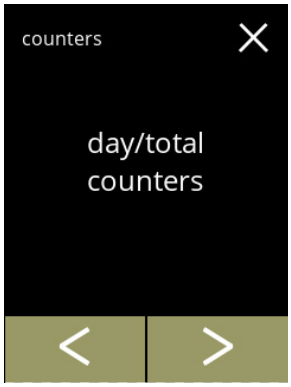


Counters readings:
- press *"counters"* to confirm
- press ‹ or › to scroll through the maintenance menu

► *The counters sub-menu consists of the following:*

» day/total counters 5.1.12a
» reset day counters 5.1.12c
» reset all counters 5.1.12g
» export counters 5.1.12k
» machine counters 5.1.12o

5.1.12a

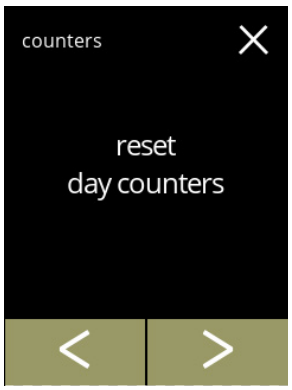


Day counters:
- press *"day/total counters"* to confirm
- press ‹ or › to scroll through the counters sub-menu

5.1.12b

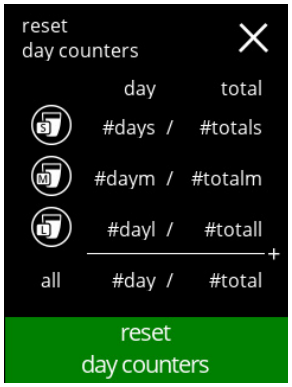
Day counters per beverage and the total of all beverages:
- press ⌃ or ⌄ to scroll through all available beverages
- press ⊠ to go the previous screen

5.1.12c



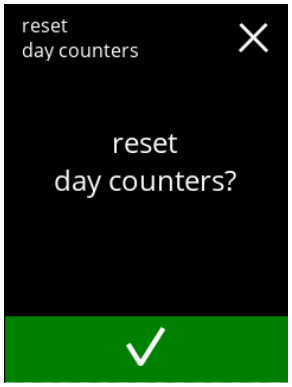
Reset all day counters:
- press *"reset all day counters"* to select
- press ‹ or › to scroll through the counters sub-menu

5.1.12d



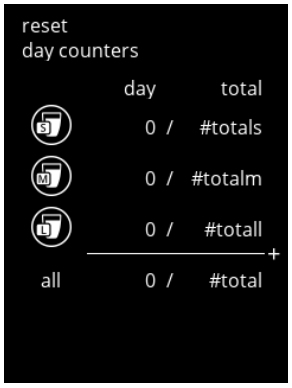
Start reset:
- press reset day counters to confirm the reset off all day counters

5.1.12e



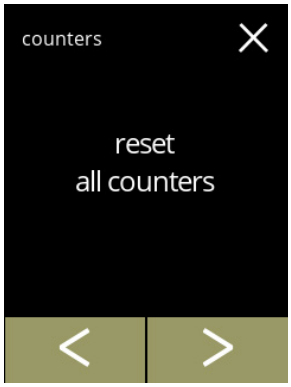
Confirmation screen:
- press ☑ to confirm and continue the reset of all day counters
- press ☒ to cancel and go to the previous screen

5.1.12f



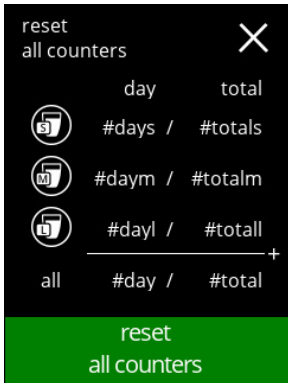
Information screen
- screen 5.1.12c is displayed after a few seconds

5.1.12g



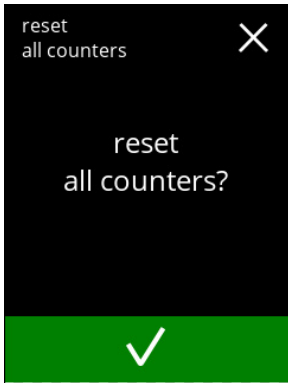
Total counters:
- press *"total counters"* to select
- press ‹ or › to scroll through the counters sub-menu

5.1.12h



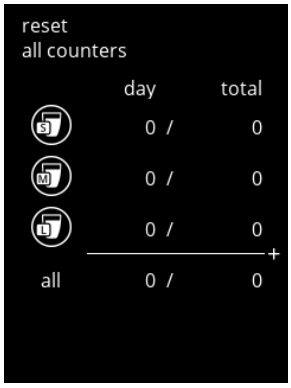
Start reset:
- press reset all counters to confirm the reset off all day counters

5.1.12i



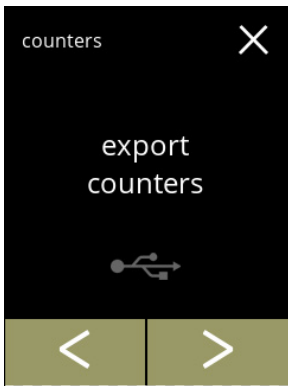
Confirmation screen:
- press ☑ to confirm and continue the reset of all counters
- press ☒ to cancel and go to the previous screen

5.1.12j



Information screen
- screen 5.1.12g is displayed after a few seconds

5.1.12k

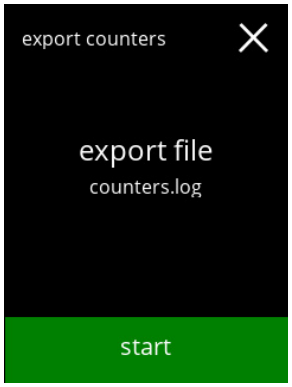


Export counters:
- place a USB stick

► *If there is no USB stick in the machine this option is greyed out.*

- press *"export counters"* to confirm
- press ‹ or › to scroll through the counters sub-menu

5.1.12l

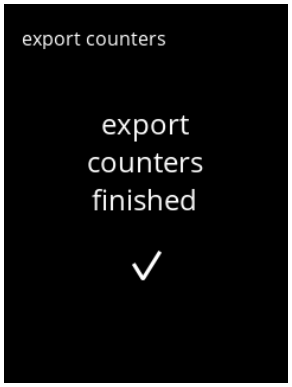


Start export counters:
- press start to begin the export

5.1.12m

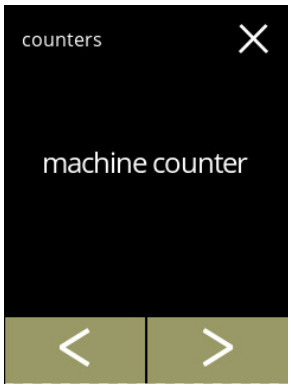
Progress screen
- wait until the process is finished
- press on cancel to interrupt

5.1.12n



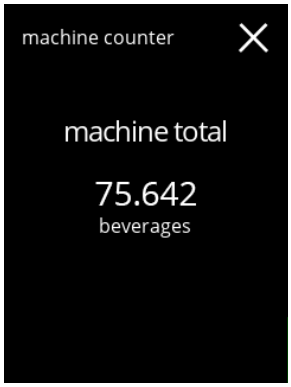
Information screens:
- screen 5.1.12k is displayed after a few seconds

5.1.12o



Machine total counter:
- press *"machine counter"* to select
- press ‹ or › to scroll through the counters sub-menu

5.1.12p



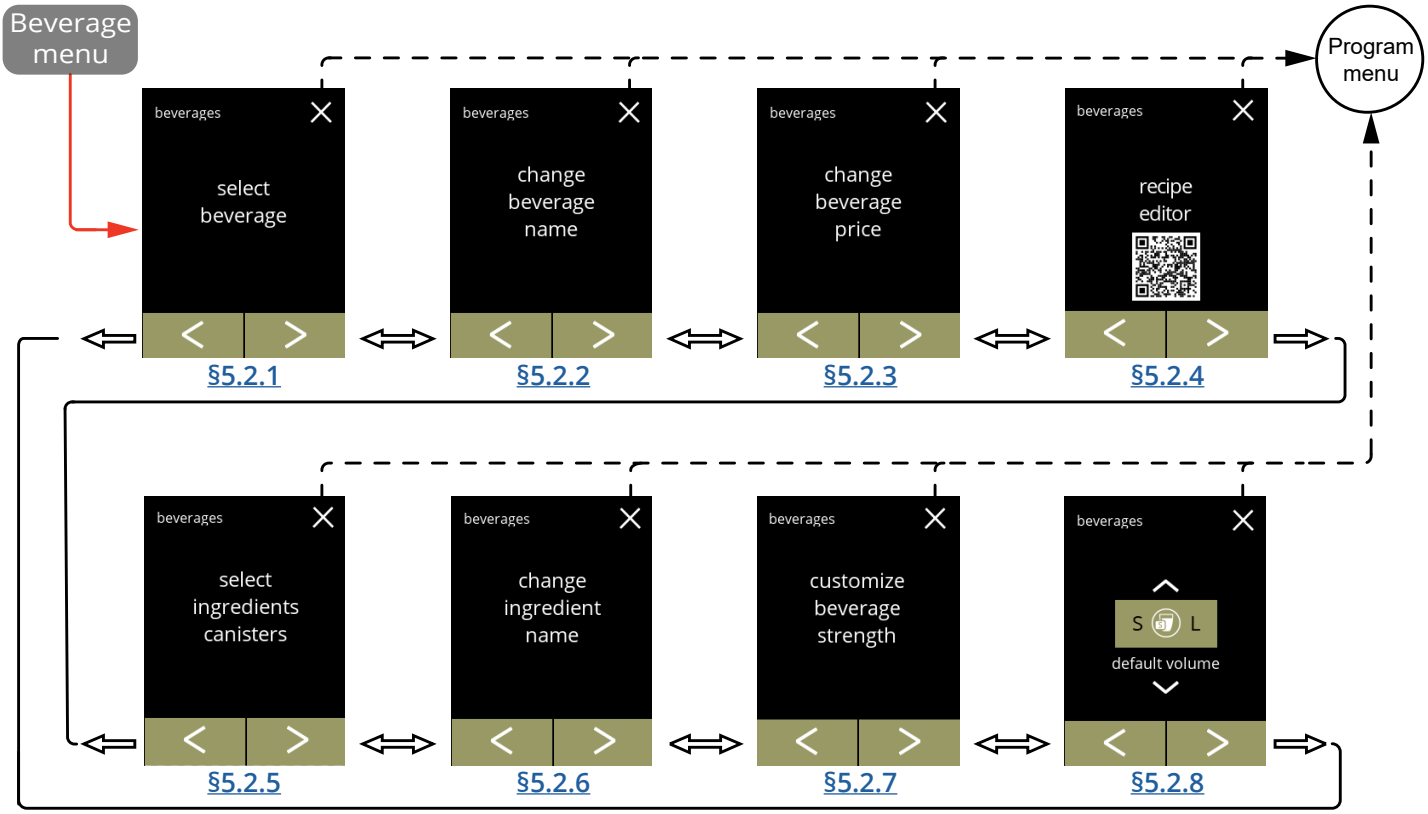
Information screen:
- screen 5.1.12o is displayed after a few seconds

5.2 Beverages menu

The beverage menu contains all functions to adjust your beverages to your wishes.
Select one of the available options

- press ‹ or › to select the next option of the “beverage menu”
- press the *“text area”* to select the next level for that menu
- press ☒ to go back to chapter 5. Programming menu on p.14.

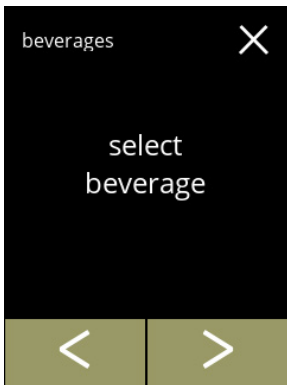
► *The beverages, recipes and settings used are only examples.*



5.2.1 Add beverage to screen

In this menu the available beverages (recipes) can be selected and linked to a beverage position.
It is possible to replace a beverage, the beverages cannot be dragged to another place.
The open spaces where another beverage can be placed are marked with 3 dots.

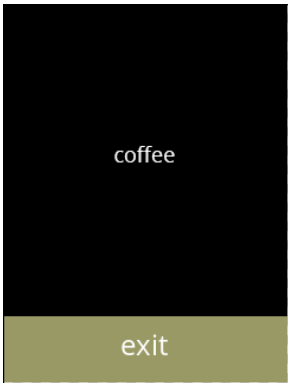
5.2.1



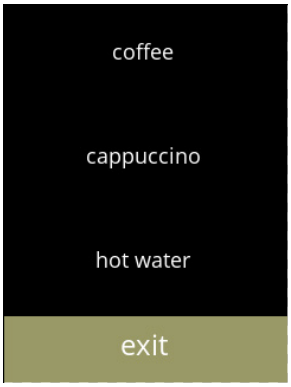
Place a beverage in the beverage selection screen:
- press "*select beverage*" to confirm
- press ‹ or › to scroll through the beverage menu

5.2.1a

Bolero 11



Bolero 21



Available beverages in the beverage selection screen:
- press on a beverage to replace or a free place (marked as 3 dots) to add a beverage
- press exit to accept the current configuration and go to the previous screen

5.2.1b

Replace or delete a beverage on the screen

▶ *Delete is active as long as the beverage names are the same.*

▶ *Removing a beverage is not an option with the Bolero 11, as at least one drink must be available.*

- press delete to remove the beverage (three dots now replace the beverage) or
- press ⌃ or ⌄ to select another beverage
- press save to replace the beverage

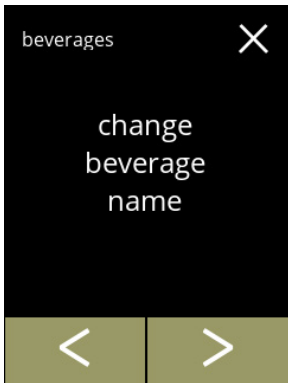
5.2.1c

Information screens:
- screen 5.2.1 is displayed after a few seconds

5.2.2 Change beverage name

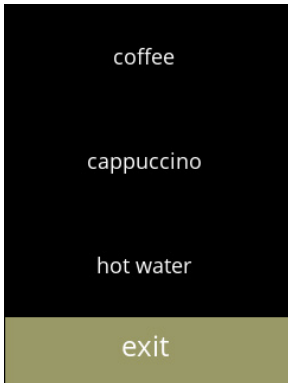
In this menu the name of the beverage can be changed to a custom defined beverage name.

5.2.2



Change beverage name:
- press "*change beverage name*" to confirm
- press ‹ or › to scroll through the beverage menu

5.2.2a



Available beverages in the beverage selection screen:
- press on a beverage to change the name
- press exit to accept the current configuration and go to the previous screen

5.2.2b

Enter the new custom beverage name:
- press ‹ or › to scroll through the alphabet
- press the character between the ‹ › to form the new beverage name
  - » press ABC for capitals
  - » press à..ç..ê for special characters
  - » press 123#* for numbers
  - » press _ for a space
  - » press ⌫ to remove a previous input
- press ✓ to confirm the new beverage name

5.2.2c

Information screens:
- screen 5.2.2 is displayed after a few seconds

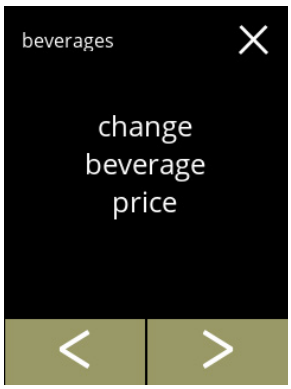
5.2.3 Change beverage price

In this menu the price per beverage can be set or modified.
Prices can be a token or a currency.
Price can be set per cup type (cup, mug, decanter).

► *Coins to be used are specified in* *§5.3.12 Connected devices on p.92*.

► *The currency symbol and the currency separator are determined by the external payment system*

5.2.3



Change beverage price:
- press "*change beverage price*" to confirm
  » Bolero 11: go to 5.2.3b
  » Bolero 21: go to 5.2.3a
- press ‹ or › to scroll through the beverage menu

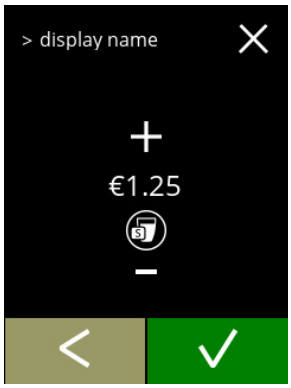
5.2.3a

Bolero 11

Bolero 21

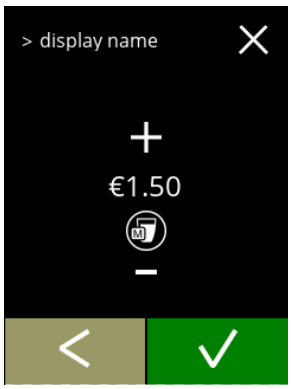
Select a beverage:
- press on the beverage to change the prices
- press exit to accept the current beverage prices and go to the previous screen

5.2.3b



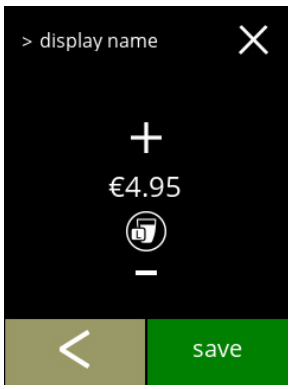
Adjust the *'volume small'* price:
- press ✚ or ▬ to change beverage volume price
- press ☑ and go to the next screen

5.2.3c



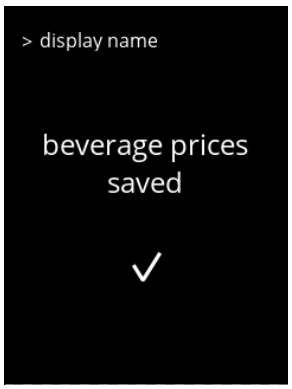
Adjust the *'volume medium'* price:
- press ➕ or ➖ to change beverage volume price
- press ☑ and go to the next screen

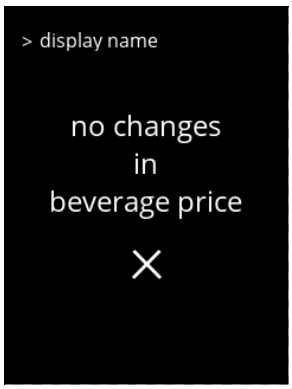
5.2.3d



Adjust the *'volume large'* price:
- press ➕ or ➖ to change beverage volume price
- press save to accept all and go to the next screen

5.2.3e





Information screens:
- screen 5.2.3a is displayed after a few seconds

5.2.3f

Example screen prices

Example screen tokens

5.2.4 Recipe editor

The following setting of the beverage recipes can be changed:

• volume • strength • mixer speed

► *Only use ingredients that are suitable for vending machines and use the recommended dosage as indicated on the packaging.*

► *With the **recipe editor** a standard recipe can be changed (new recipes cannot be added).*

► *A changed recipe can be reset to the default values via the recipe test, see* *5.2.4t on p.66.*

► *The machine is unable to provide feedback (error) when the mixer motor is not running and when the canister motor is set to a very low speed.*

5.2.4

Change the recipe of a beverage:
• press "*recipe editor*" to confirm
• press ‹ or › to scroll through the beverage menu

5.2.4a

Recipe selection:
• press ⌃ or ⌄ to select a beverage
• press › to confirm

5.2.4b

Volume (S):
• press ‹ or › to select another volume
• press + or − to change the volume for the different cup sizes

► *Volume can be set from 0-30ml to 1000ml (recipe dependent)*

• press ✓ to confirm and go to the next screen

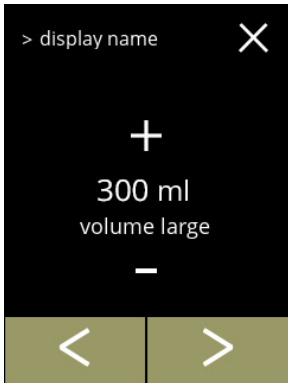
5.2.4c

Volume (M):
- press ‹ or › to select another volume
- press + or − to change the volume for the different cup sizes

► *Volume can be set from 0-30ml to 1000ml (recipe dependent)*

- press ✓ to confirm and go to the next screen

5.2.4d



Volume (L):
- press ‹ or › to select another volume
- press + or − to change the volume for the different cup sizes

► *Volume can be set from 0-30ml to 1000ml (recipe dependent)*

- press ✓ to confirm
  » go for a beverage with 1 ingredient to the next screen
  » go for a beverage with 2 ingredients to screen 5.2.4h

5.2.4e

One ingredient beverage
Strength:

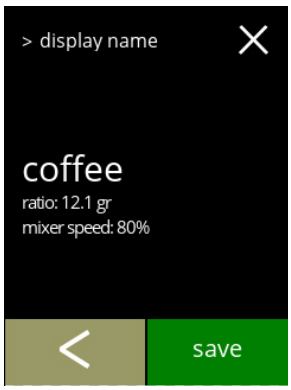
► *Use the ⇅ to switch between ratio and gr/ml*

- press + or − to change the ratio ingredient/water
- press ✓ to confirm

5.2.4f

One ingredient beverage
Mixer speed:
- press + or − to change mixer speed
- press ✓ to confirm

5.2.4g

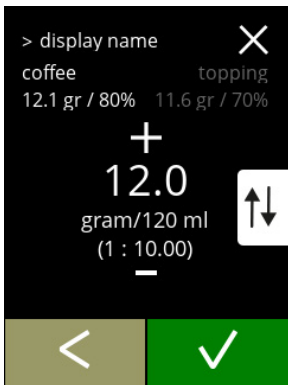


One ingredient beverage
Confirmation screen:

► *A summary of the new ingredient settings is displayed.*

- press ◁ to go to the previous screen
- press save to confirm and go to 5.2.4m

5.2.4h



Two ingredients beverages
Strength, first ingredient:

► *Use the ⇅ to switch between ratio and gram/120 ml*

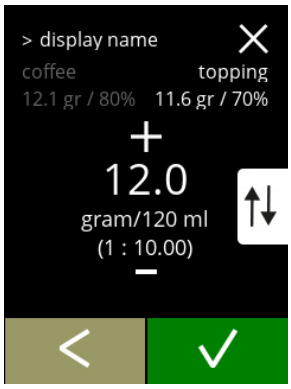
- press ⊞ or ⊟ to change the ratio ingredient/water
- press ☑ to confirm

5.2.4i

Two ingredients beverages
Mixer speed, first ingredient:

- press ⊞ or ⊟ to change the ratio ingredient/water
- press ☑ to confirm

5.2.4j



Two ingredients beverages
Strength, second ingredient:

► *Use the ⇅ to switch between ratio and gram/120 ml*

- press ⊞ or ⊟ to change the ratio ingredient/water
- press ☑ to confirm

5.2.4k

Two ingredients beverages
Mixer speed, second ingredient:
- press + or − to change the ratio ingredient/water
- press ✓ to confirm

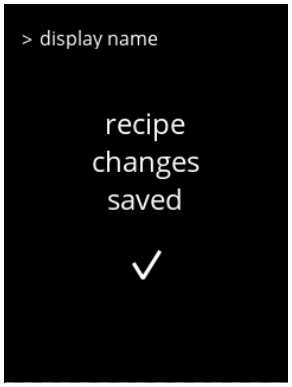
5.2.4l

Two ingredients beverages
Confirmation screen:

► *A summary of the new ingredient settings is displayed.*

- press < to go to the previous screen
- press save to confirm and go to the next screen

5.2.4m



Information screen:
- screen 5.2.4o is displayed after a few seconds

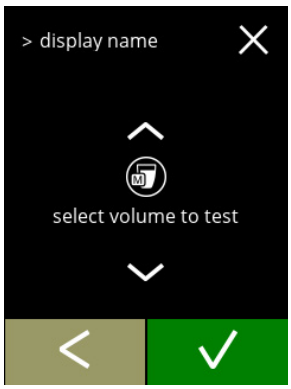
5.2.4n

Information screen:
- screen 5.2.4a is displayed after a few seconds

5.2.4o

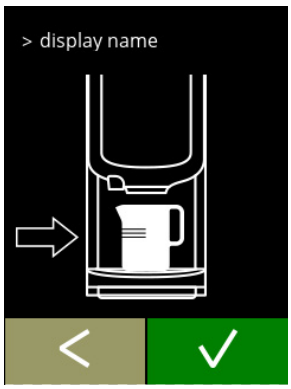
Test recipe:
- press no, screen 5.2.4 is displayed
- press yes, to go to the next screen

5.2.4p



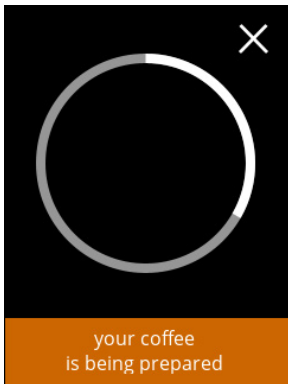
Test volume:
- press ^ or v to select a beverage volumes
- press ✓, to start the dosing
- press < to go to the previous screen

5.2.4q



Information screen:
- place an empty container under the beverage outlet
- press ✓ to begin the dosing
- press < to go to the previous screen

5.2.4r



Preparing a beverage:
- please wait for the next screen

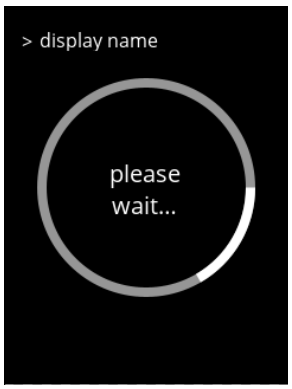
5.2.4s

Testing:
- check the volume and the strength/taste
- recipe ***not ok***,
  press no, go to the next screen
- recipe ***ok***,
  press yes, screen 5.2.4v is displayed

5.2.4t

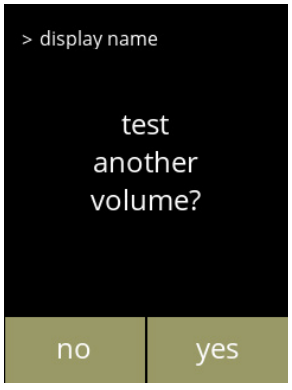
Recipe not satisfactory:
- press back to default recipe to undo the modifications and go to the next screen
- press edit recipe again, screen 5.2.4b on p.61 is displayed

5.2.4u



Back to default recipe:
- please wait, screen 5.2.4a on p.61 is displayed after a few seconds

5.2.4v



Test another volume:
- press yes go to screen 5.2.4p
- press no, screen 5.2.4 is displayed

5.2.5 Select ingredient canisters

Default *instant* ingredients will be available in the machine:
- regular coffee
- espresso coffee
- topping (only Bolero 21)
- cacao
- premix

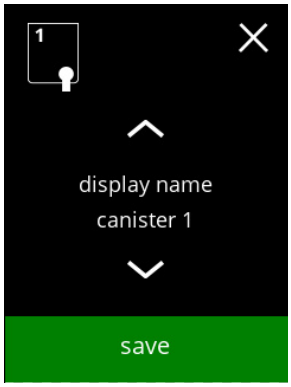
► *Only use ingredients that are suitable for vending machines.*

► *Names of ingredients can be changed in* *§5.2.6 on p.69*.

5.2.5

Select an ingredient per canister:
- press "*select ingredient canister*" to confirm
  » Bolero 11 go to next screen
  » Bolero 21 go to 5.2.5b
- press ‹ or › to scroll through the beverage menu

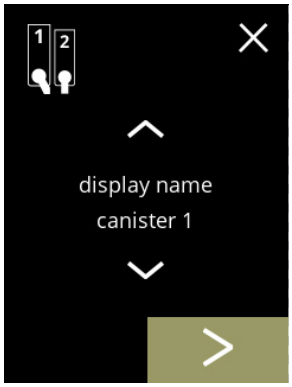
5.2.5a



Bolero 11
Select an ingredient
- press ⌃ or ⌄ to scroll through the available ingredients
- press save to confirm and go to the previous screen

► *Save is only active if something has changed.*

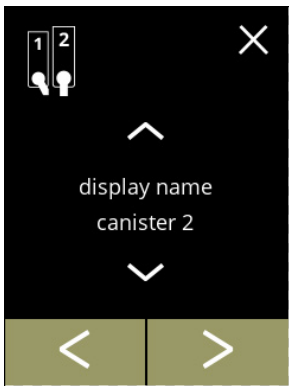
5.2.5b



Bolero 21 canister 1
Select a ingredient:
- press › to select the next canister
- press ⌃ or ⌄ to scroll through the available ingredients
- press on an ingredient to select and go to the next screen

► *Confirm ☑ is only active if something has changed.*

5.2.5c



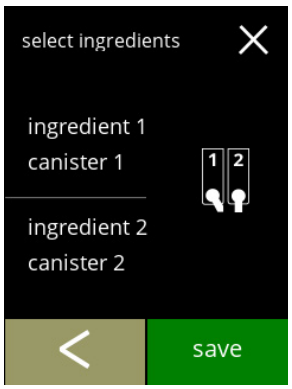
Bolero 21 canister 2

Select a ingredient:

- press ‹ to select the previous screen
- press › to select the next screen
- press ^ or v to scroll through the available ingredients
- press on an ingredient to select and go to the next screen

► *Confirm ✓ is only active if something has changed.*

5.2.5d



Bolero 21

Control screen:

► *This screen appears when ✓ or › is pressed after the last canister.*

- press ‹ to select the previous screen
- press save to confirm

5.2.5e

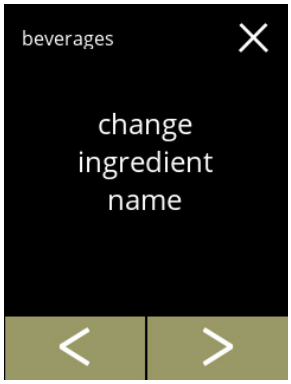
Information screen:

► *Only if a new ingredient is different to the original one go to* *§5.2.1 Add beverage to screen on p.55**.*
The beverages made with the previous ingredient are set to inactive and their names have been replaced by the 3 dots. That's why you have to combine new beverages with the buttons. When this action is completed, the machine will be operational again with the new ingredients.

5.2.6 Change ingredient name

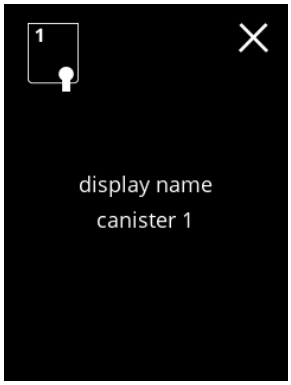
In this menu the name of the ingredient can be changed to a custom defined ingredient name.

5.2.6



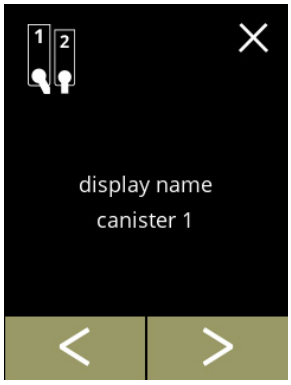
Change ingredient name:
- press "*change ingredient name*" to confirm
  - » Bolero 11 go to the next screen
  - » Bolero 21 go to screen 5.2.6b
- press ‹ or › to scroll through the beverage menu

5.2.6a



Ingredient canister:
- press on the ingredient and go to screen 5.2.6c

5.2.6b



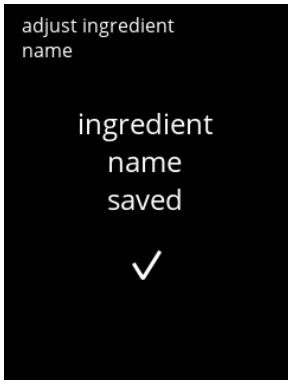
Available ingredient canisters:
- press ‹ or › to go to an ingredient canister
- press on the ingredient and go to the next screen

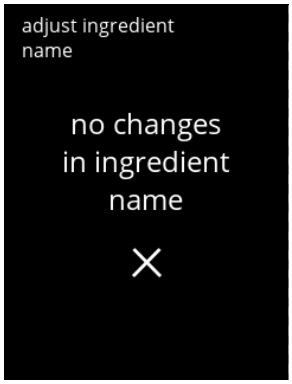
5.2.6c

Enter the new custom ingredient name:

- press ◀ or ▶ to scroll through the alphabet
- press the character between the ◀ ▶ to form the new ingredient name
  - » press ABC for capitals
  - » press à..ç..ê for special characters
  - » press 123#* for numbers
  - » press _ for a space
  - » press ⌫ to remove a previous input
- press ☑ to confirm the new ingredient name

5.2.6d





Information screens:

- screen 5.2.6 is displayed after a few seconds

5.2.7 Cusomize beverage strength

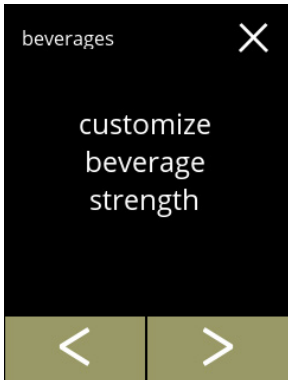
In this menu, the standard strength on the beverage selection screen can be set.
The step size (%) of the strength can also be adjusted (0-20%).
This default setting applies to all beverages in the beverage selection screen.

step size (5.2.7a)	
1%	minimum
10%	standard
20%	maximum

standard strength setting (5.2.7c)	
● · ·	90%
● ● ·	100%
● ● ●	110%

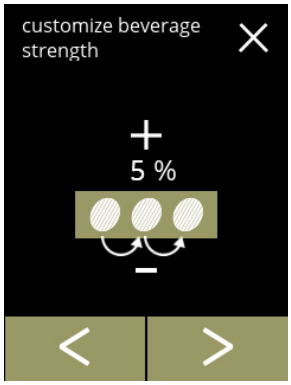
► *Setting the step size to 0% turns off the strength control and the button disappears from the beverage selection screen.*

5.2.7



Set the beverage strength increase (%):
- press "*customize beverage strength*" to confirm
- press ‹ or › to scroll through the beverage menu

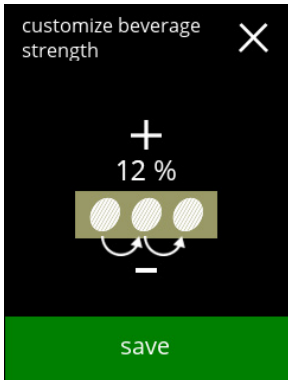
5.2.7a



Set the step size (%) of the beverage strength:
- press + or − to set the step size (%) of the strength button and go to the next screen
- press ‹ or › to go to screen 5.2.7d to set the default strength

► *Setting the step size to 0% turns off the strength control and the button disappears from the beverage selection screen.*

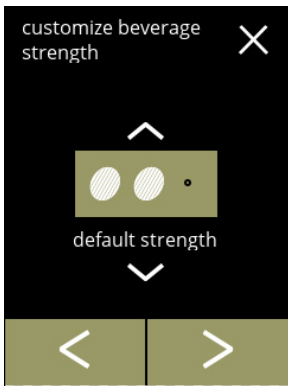
5.2.7b



Confirm changes:
- press save to confirm

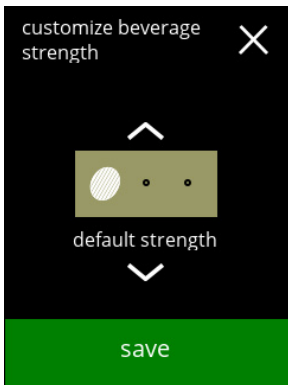
► *Save is only active if something has changed.*

5.2.7c



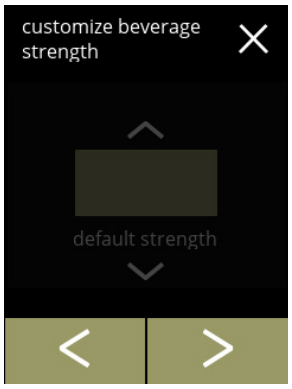
Change the default strength:
- press ^ or v to set the default strength
- press < or > to scroll through the beverage strength menu

5.2.7d



Confirm changes:
- press save to confirm

► *Save is only active if something has changed.*



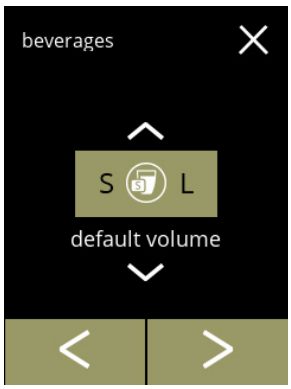
No selectable strength button:

► *Setting the step size to 0% (screen 5.2.7a) turns off the strength control and the button disappears from the beverage selection screen.*

5.2.8 Set default volume

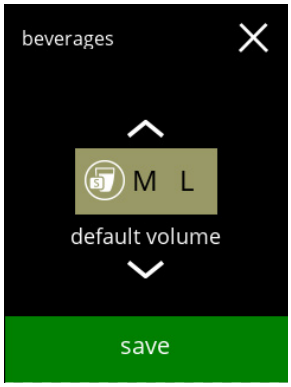
In this menu, the standard volume of the beverage selection screen can be set.
This default setting applies to all beverages in the beverage selection screen.
The amount of ml per beverage can be adjusted in the recipe menu §5.2.4 on p.61.

5.2.8



Change the default volume:
- press ⌃ or ⌄ to set the default volume
- press ‹ or › to scroll through the beverage menu

5.2.8a



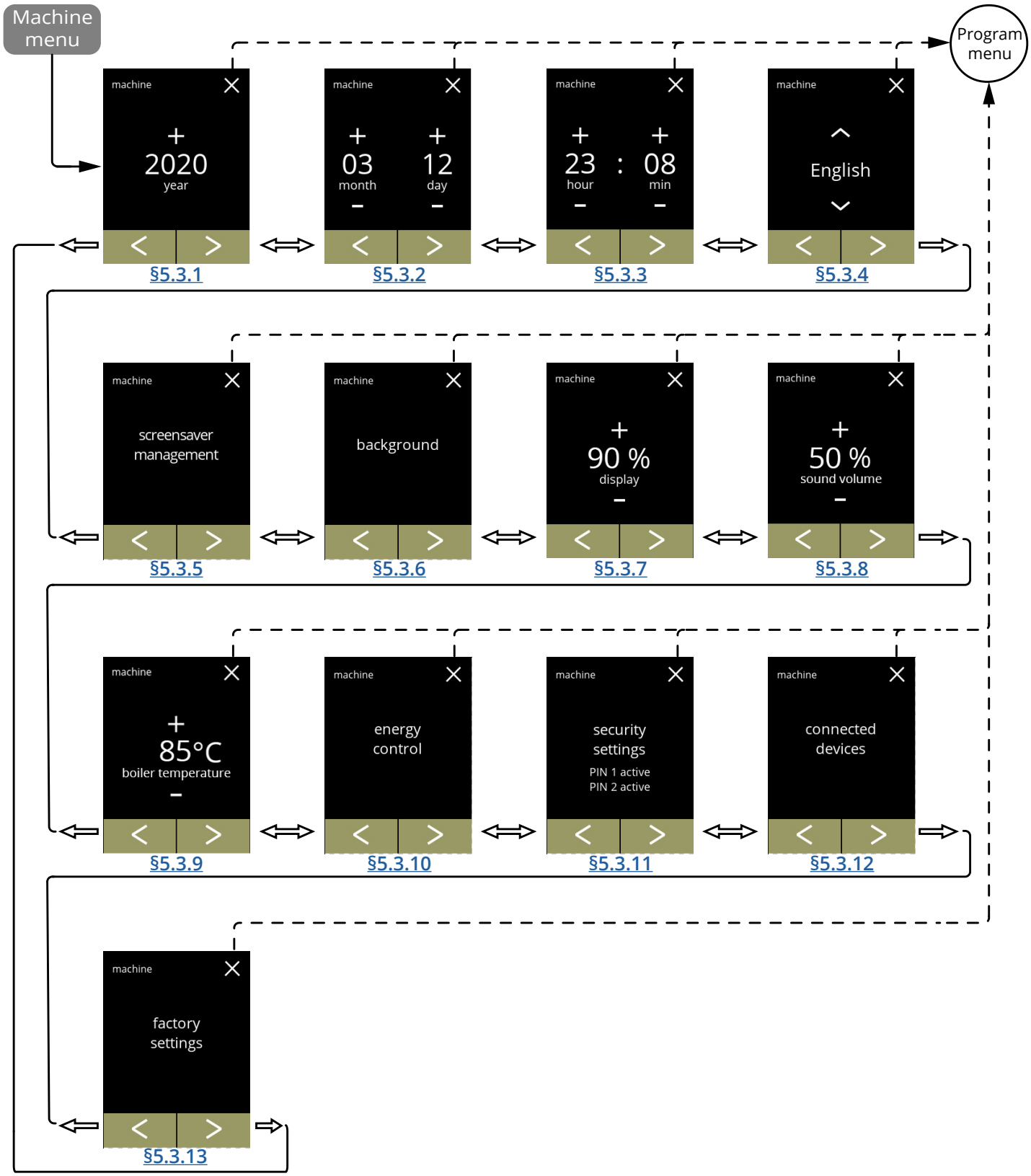
Confirm changes:
- press save to confirm

► *Save is only active if something has changed.*

5.3 Machine menu

You can programme the machine settings in the this menu.
Select one of the available options:

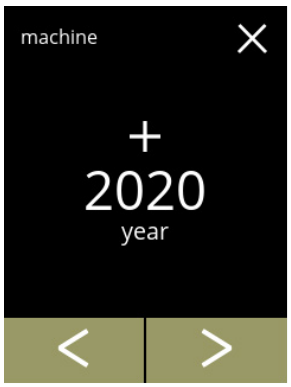
- press ◁ or ▷ to select the next option of the “machine menu”
- press the *“text area”* to select the next level for that menu
- press ☒ to go back to chapter 5. Programming menu on p.14



5.3.1 Year

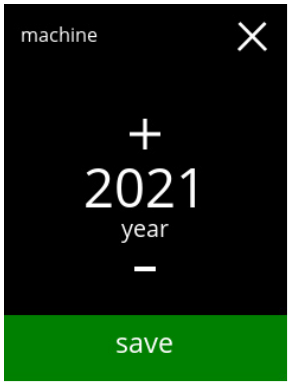
Adjust the year.

5.3.1



Change the date:
- press + or − to set the year
- press < or > to scroll through the machine menu

5.3.1a



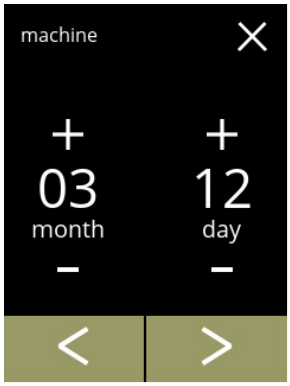
Confirm changes:
- press save to confirm

► *Save is only active if something has changed.*

5.3.2 Date

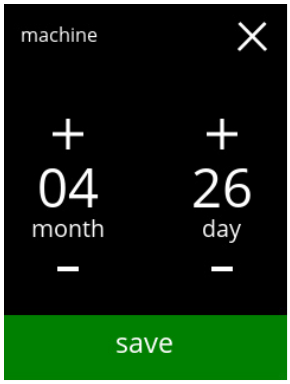
Adjust the day and month.

5.3.2



Change the month and day:
- press ✚ or ▬ to set the current the month and day
- press ‹ or › to scroll through the machine menu

5.3.2a



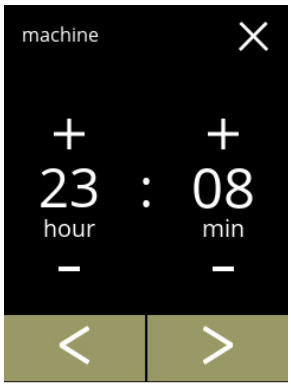
Confirm changes:
- press save to confirm

► *Save is only active if something has changed.*

5.3.3 Time

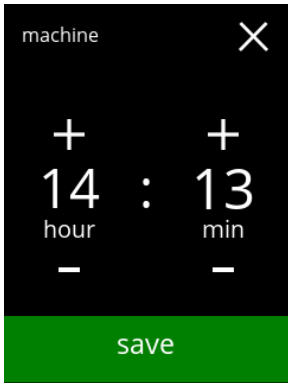
Adjust the time.

5.3.3



Change the time:
- press + or − to set the current the hour and minutes
- press < or > to scroll through the machine menu

5.3.3a



Confirm changes:
- press save to confirm

► *Save is only active if something has changed.*

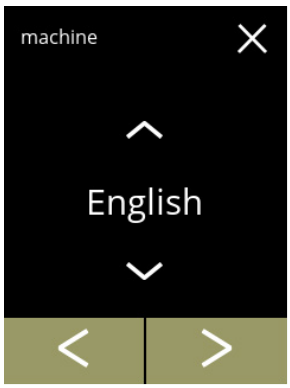
5.3.4 Language

The available languages are:

- English
- Spanish
- French
- Italian
- Dutch
- Norwegian
- Polish
- Portuguese
- Swedish
- Danish
- German

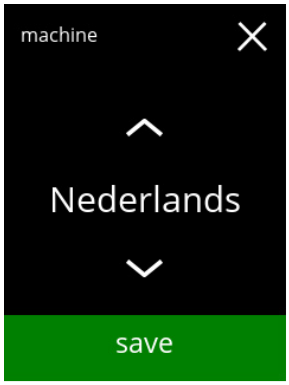
Default: English

5.3.4



Change the language:
- press ⌃ or ⌄ to scroll through the available languages
- press the language to set as the current language
- press ‹ or › to scroll through the machine menu

5.3.4a



Confirm of change:
- press save to confirm

► *Save is only active if something has changed.*

5.3.5 Screensaver management

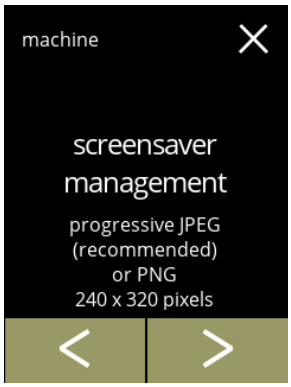
In this menu, you can set when the screen saver becomes active.

setting	screensaver
default	15 min.
minimum	1 min.
maximum	90 min.

The screensaver can be set to a custom defined screensaver.
You can always return to the default screensaver.

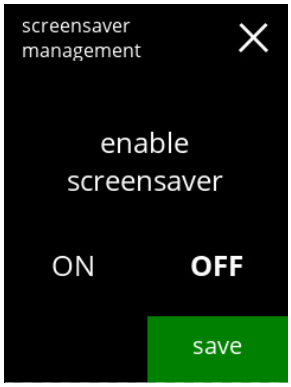
► *The screensaver image does not need for a transparent background.*

5.3.5



Change the screensaver:
- press "*screensaver*" to confirm
- press ‹ or › to scroll through the machine menu

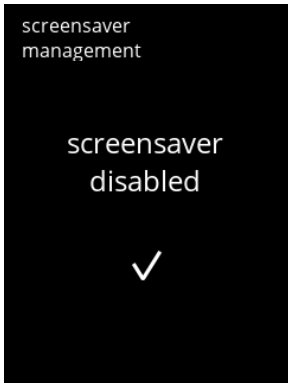
5.3.5a



Activate/deactivate the screensaver option:
- press *"ON"* or *"OFF"* to set the screensaver:
  - » select OFF and save:
    go to the next screen
  - » select ON and ☑:
    go to screen 5.3.5c

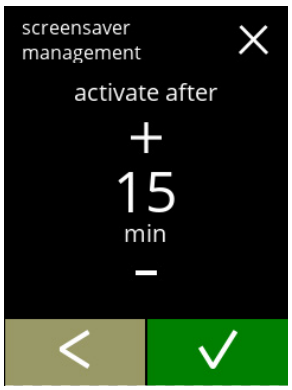
► *Save is only active if something has changed.*

5.3.5b



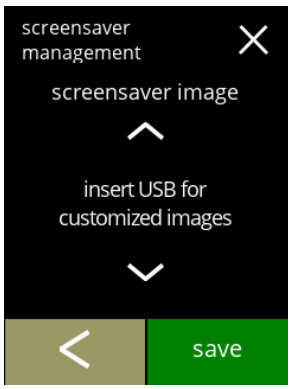
Information screen:
- screen 5.3.5 is displayed after a few seconds

5.3.5c



Set the time when the screensaver becomes active
- press ⌃ or ⌄ to select the activation time
- press ☑ to confirm

5.3.5d

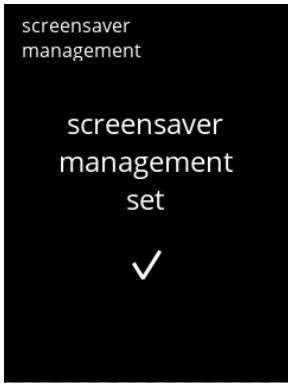


Change the screensaver image:
- press › to go to the next screen
- place a USB stick

► *If there is no USB stick in the machine this option is greyed out.*

- press ⌃ or ⌄ to select a custom image, see specifications below
- press save to go to the next screen

5.3.5e



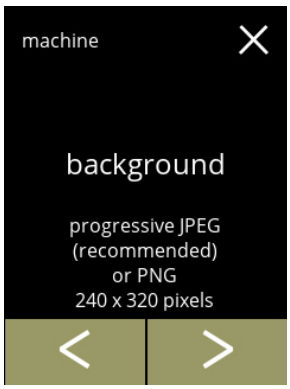
Information screen:
- screen 5.3.5 is displayed after a few seconds

5.3.6 Background

In this menu the background of the beverage selection screen can be set. The background can be set to a custom defined background, see specifications. The default background remains available in the GUI, so you can always return to the default background.

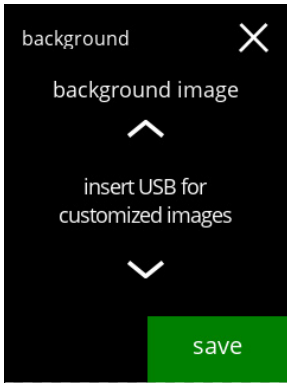
► *We recommend **not** to use a light colour or white because of the readability.*

5.3.6



Change the background:
- press "*background*" to confirm
- press ‹ or › to scroll through the machine menu

5.3.6a



Change the background image:
- press › to go to the next screen
- place a USB stick

  ► *If there is no USB stick in the machine this option is greyed out.*
- press ⌃ or ⌄ to select a custom image
- press save to go to the next screen

  ► *Save is only active if something has changed.*

5.3.6b

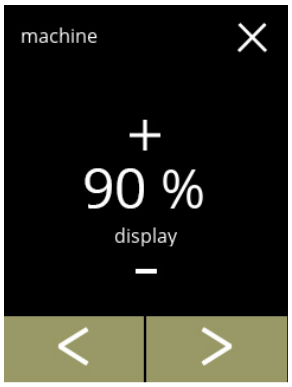
Information screen:
- screen 5.3.6 is displayed after a few seconds

5.3.7 Display brightness

The brightness of the display can be increased or decreased in steps of 5%.

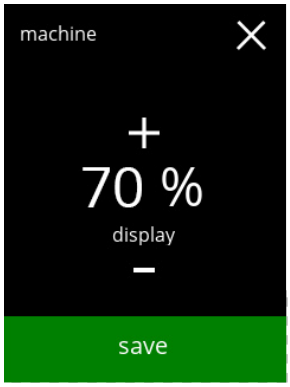
setting	brightness
default	90%
minimum	20%
maximum	100%

5.3.7



Change the display brightness:
- press ⊞ or ⊟ to select the brightness
- press ‹ or › to scroll through the machine menu

5.3.7a



Confirmation of change:
- press save to confirm

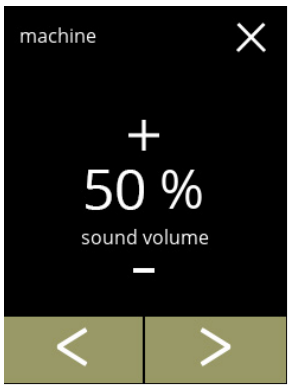
► *Save is only active if something has changed.*

5.3.8 Sound level feedback

The sound level of the feedback can be increased or decreased.

setting	sound level
default	50%
minimum	0% (OFF)
maximum	100%

5.3.8



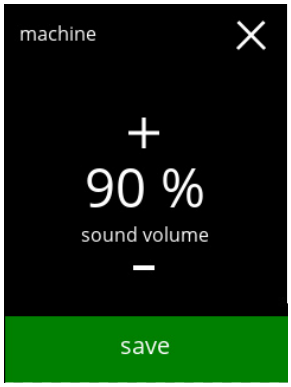
Sound level feedback:

- press ⊞ or ⊟ to set the sound level

  ▶ *When the audio volume is increased or decreased, a beep is generated in that volume for verification.*

- press ‹ or › to scroll through the machine menu

5.3.8a



Confirmation of change:

- press save to confirm

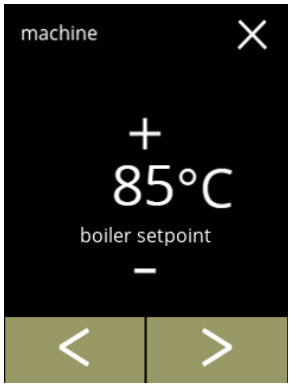
  ▶ *Save is only active if something has changed.*

5.3.9 Boiler temperature

The temperature is set with an absolute temperature setting in degrees Celsius

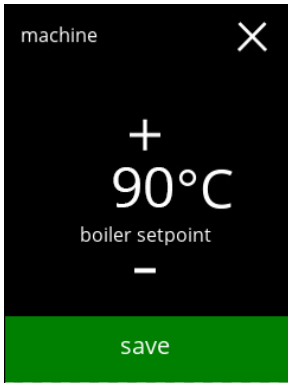
setting	temperature
default	85°C
minimum	80°C
maximum	90°C

5.3.9



Change the boiler temperature:
- press ⊞ or ⊟ to set the temperature
- press ‹ or › to scroll through the machine menu

5.3.9a



Confirmation of change:
- press save to confirm

► *Save is only active if something has changed.*

5.3.10 Energy-saving mode (ECO)

After the set time, the Bolero will automatically go into sleep mode. The system becomes active when the screen is touched.
The time of the energy-saving mode can be set as defined in the table below.

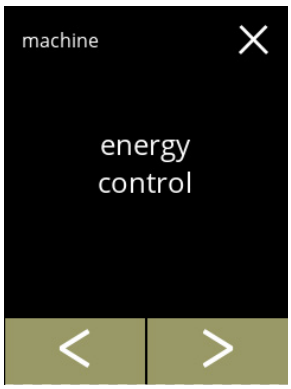
1	2	3	4	5	6
Off	15 min.	30 min.	1 hour	2 hours	4 hours

Default: 2 hours

When energy-saving mode becomes active, the following actions are performed:
- boiler heating disabled
- backlight display set to low percentage.
- fan disabled

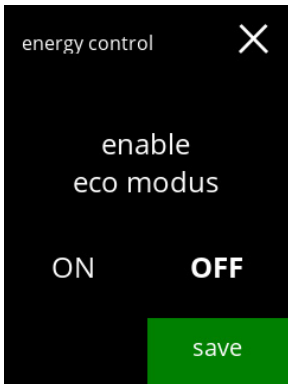
► *Energy control mode is dominant over screensaver mode*

5.3.10



Change the energy-saving mode:
- press "*eco modus*" to confirm
- press < or > to scroll through the machine menu

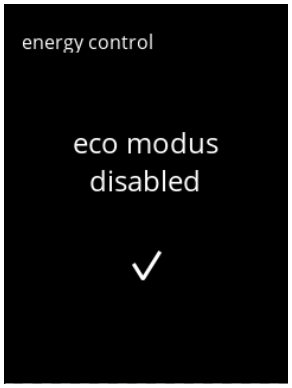
5.3.10a



Activate/deactivate the energy-saving mode option:
- press *"ON"* or *"OFF"* to set energy-saving mode
  - » select OFF and save or >:
    go to the next screen
  - » select ON and save:
    go to screen 5.3.10c

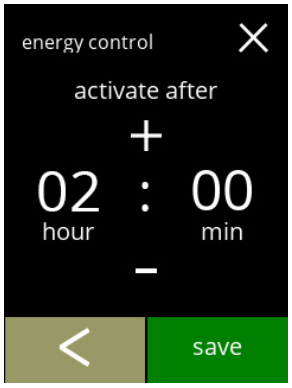
► *Save is only active if something has changed.*

5.3.10b



Information screen:
- screen 5.3.10 is displayed after a few seconds

5.3.10c



Set the time when the eco modus becomes active:
- press + or − to select the activation time
- press save to confirm and go to the next screen
- press < to go back to screen 5.3.10a

5.3.10d

Information screen:
- screen 5.3.10 is displayed after a few seconds

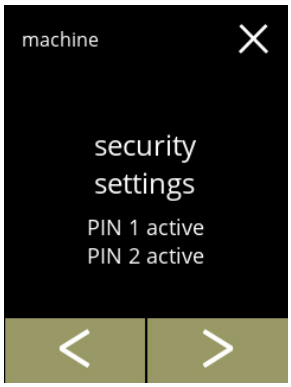
5.3.11 Security settings

In this menu the PIN code settings can be defined.
There are 2 PIN code:
- PIN 1 (general safeguard)
- PIN 2 (specific safeguard)

§7.2 on p.117 describes which PIN codes protect which options.

If a PIN code is entered to access the menu, it remains valid until the user leaves the menu again.

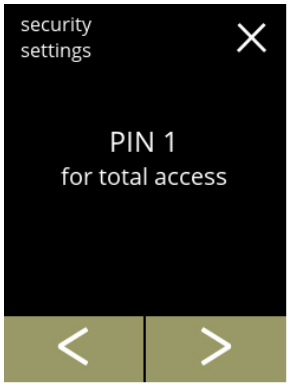
5.3.11



Change the security settings:
- press "*security settings*" to confirm
- press ‹ or › to scroll through the machine menu

► *If a PIN code is active, it is indicated on this screen.*

5.3.11a

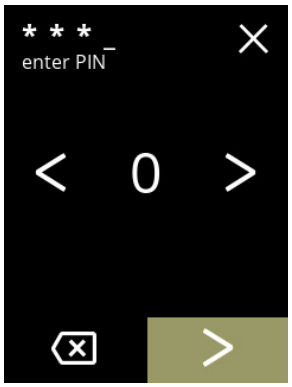


Change the security settings:
- press "*PIN 1 for total access*":
  » PIN 1 already set:
  go to screen 5.3.11f
  » PIN 1 not yet set:
  go to the next screen
- press ‹ or › to go to screen 5.3.11g for PIN 2

5.3.11b

Set PIN code:
- press "Set PIN" and go to the next screen

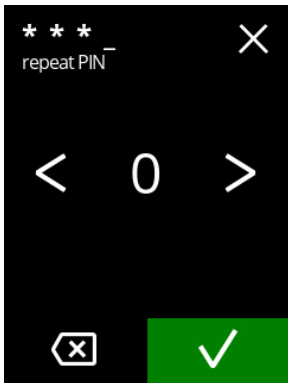
5.3.11c



Enter the PIN code:
- press ◀ or ▶ to scroll through the numbers
- press on the number to select
- press ⌫ to delete a PIN number, see left corner
- press ▶ when the 4 digit PIN code is entered

► *When four numbers are entered the next screen is displayed to verify the PIN code.*

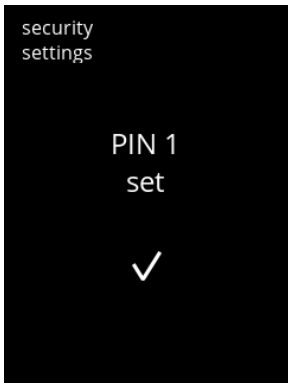
5.3.11d



Verify the PIN code:
- press ◀ or ▶ to scroll through the numbers
- press on the number to select
- press ⌫ to delete a PIN number, see left corner
- press ✓ to verify the PIN code entered and go to the next screen

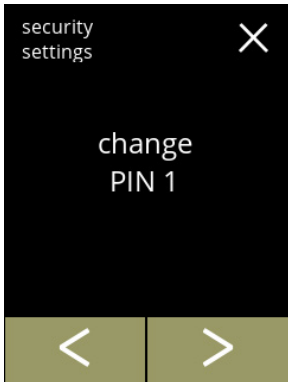
► *When the PIN code does **not** match, you will receive another attempt to enter the correct code.*

5.3.11e



Information screen:
- screen 5.3.11a is displayed after a few seconds

5.3.11f



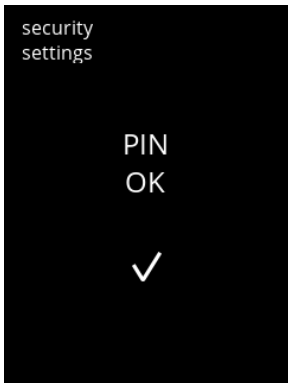
Change PIN 1:
- press "*change PIN 1*" to confirm and go to the next screen
- press ◀ or ▶ to go to screen 5.3.11m

5.3.11g

Enter the PIN code:
- press ‹ or › to scroll through the numbers
- press on the number to select
- press ⌫ to delete a PIN number, see left corner
- press ✓ to verify the PIN code entered and go to the next screen

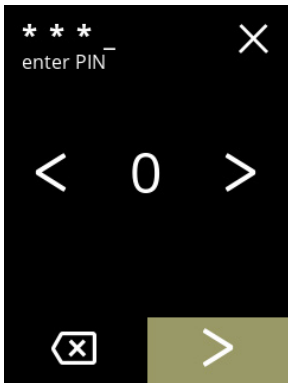
► *When the PIN code does **not** match, you will receive another attempt to enter the correct code.*

5.3.11h



Information screen:
- the next screen is displayed after a few seconds

5.3.11i



Enter the new PIN code:
- press ‹ or › to scroll through the numbers
- press on the number to select
- press ⌫ to delete a PIN number, see left corner
- press › when the 4 digit PIN code is entered

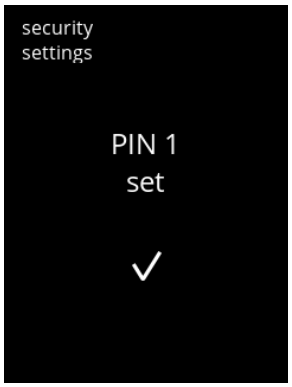
► *When four numbers are entered the next screen is displayed to verify the PIN code.*

5.3.11j

Verify the new PIN code:
- press ‹ or › to scroll through the numbers
- press on the number to select
- press ⌫ to delete a PIN number, see left corner
- press ✓ to verify the PIN code entered and go to the next screen

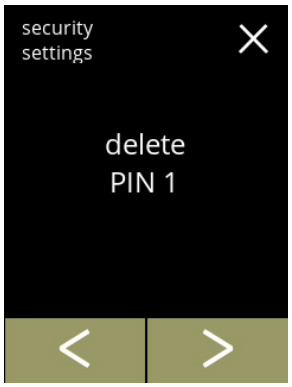
► *When the PIN code does **not** match, you will receive another attempt to enter the correct code.*

5.3.11k



Information screen:
- screen 5.3.11a is displayed after a few seconds

5.3.11l



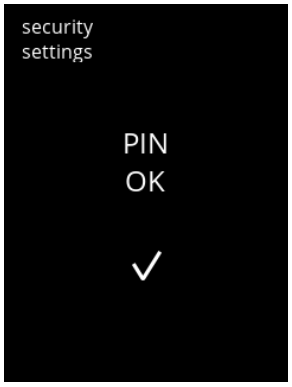
Delete PIN 1:
- press *"delete PIN 1"* to confirm and go to the next screen
- press ‹ or › to go to screen 5.3.11f

5.3.11m

Enter the PIN code:
- press ‹ or › to scroll through the numbers
- press on the number to select
- press ⌫ to delete a PIN number, see left corner
- press ✓ to verify the PIN code entered and go to the next screen

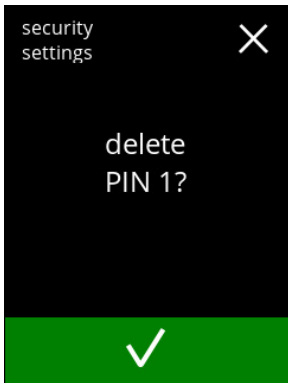
► *When the PIN code does **not** match, you will receive another attempt to enter the correct code.*

5.3.11n



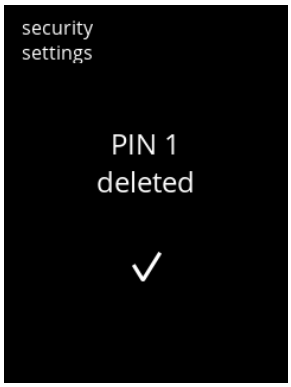
Information screen:
- the next screen is displayed after a few seconds

5.3.11o



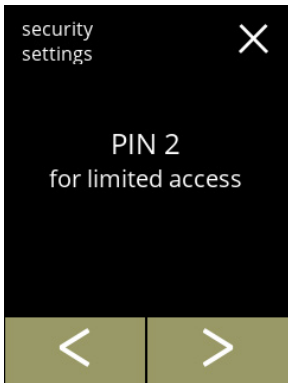
Confirmation screen:
- press ☒ to cancel
- press ☑ to confirm and go to the next screen

5.3.11p



Information screen:
- screen 5.3.11a is displayed after seconds

5.3.11q



Change the security settings:
- press *"PIN 2 for limited access" to select*:

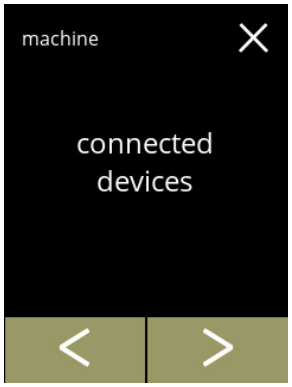
  ▶ *the screens that follow are the same as PIN 1 (only PIN 1 is replaced by PIN 2 in the screens 5.3.11b to 5.3.11p)*
- press ‹ or › to go to screen 5.3.11a for PIN 1

5.3.12 Connected devices

In this menu settings of external devices connected to the machine can be set or modified.
In case of a connected payment module, the possibility to cancel a beverage can be disabled.
Devices that can be connected:

- payment devices (with and without coins)

5.3.12

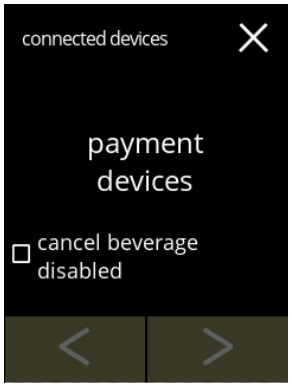


Select or configure the connected devices:

- press "*connected devices*" to confirm
- press ‹ or › to scroll through the machine menu

► *If no external device is connected to the machine, the text on this screen will remain greyed out.*

5.3.12a

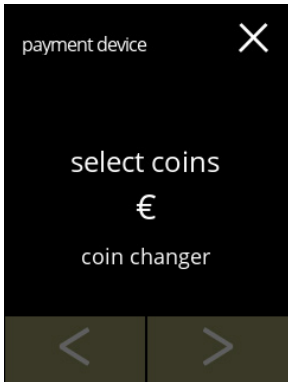


Payment device:

► *The checkbox gives the possibility to decide whether a paid beverage could be cancelled or not (the money is not returned).*

- press "*payment devices*" to confirm

5.3.12b



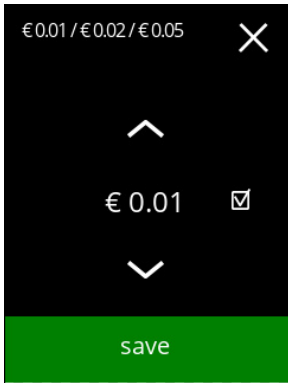
Select/configure the payment device:

- press "*select coins*" to confirm
- press ‹ or › to scroll for more connected payment devices

► *The availability of the navigation buttons depends on the number of connected devices.*

► *Up to 2 payment devices can be connected.*

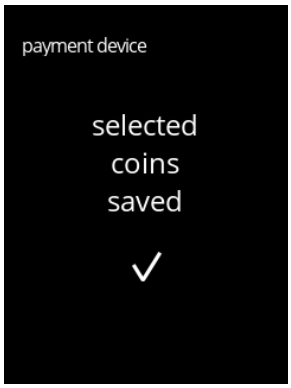
5.3.12c

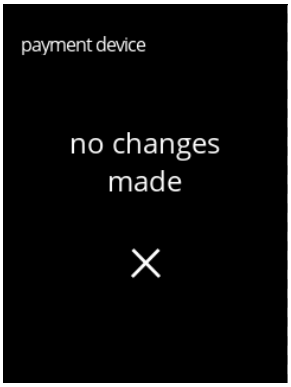


Select which coins can be used:
- press ⌃ or ⌄ to scroll through the available coins
- fill in the checkbox to select the coin
- press save to confirm and go to the next screen

► *Save is only active if something has changed.*

5.3.12d





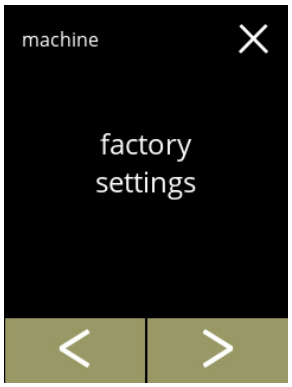
Information screens:
- screen 5.3.12b is displayed after a few seconds

5.3.13 Reset to factory settings

A factory reset reverts the machine to how it was manufactured.

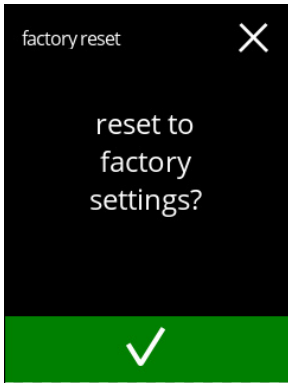
Exceptions are:
- firmware
- machine counter (only the day and beverage counters are reset)
- descale counter
- water filter
- firmware history

5.3.13



Reset to factory settings:
- press *"factory settings"* to confirm
- press ‹ or › to scroll through the machine menu

5.3.13a

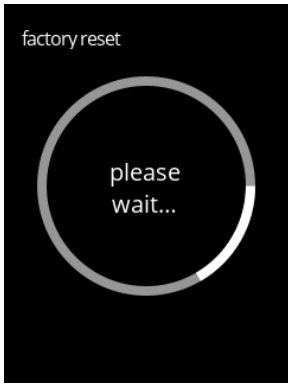


Confirmation screen:

► *First save the customized data,*
see *§5.4.5 Export machine settings on p.102*.

- press ☑ to confirm

5.3.13b



Progress screen
- wait until the process is finished

5.3.13c

Information screen:
- the next screen is displayed after a few seconds

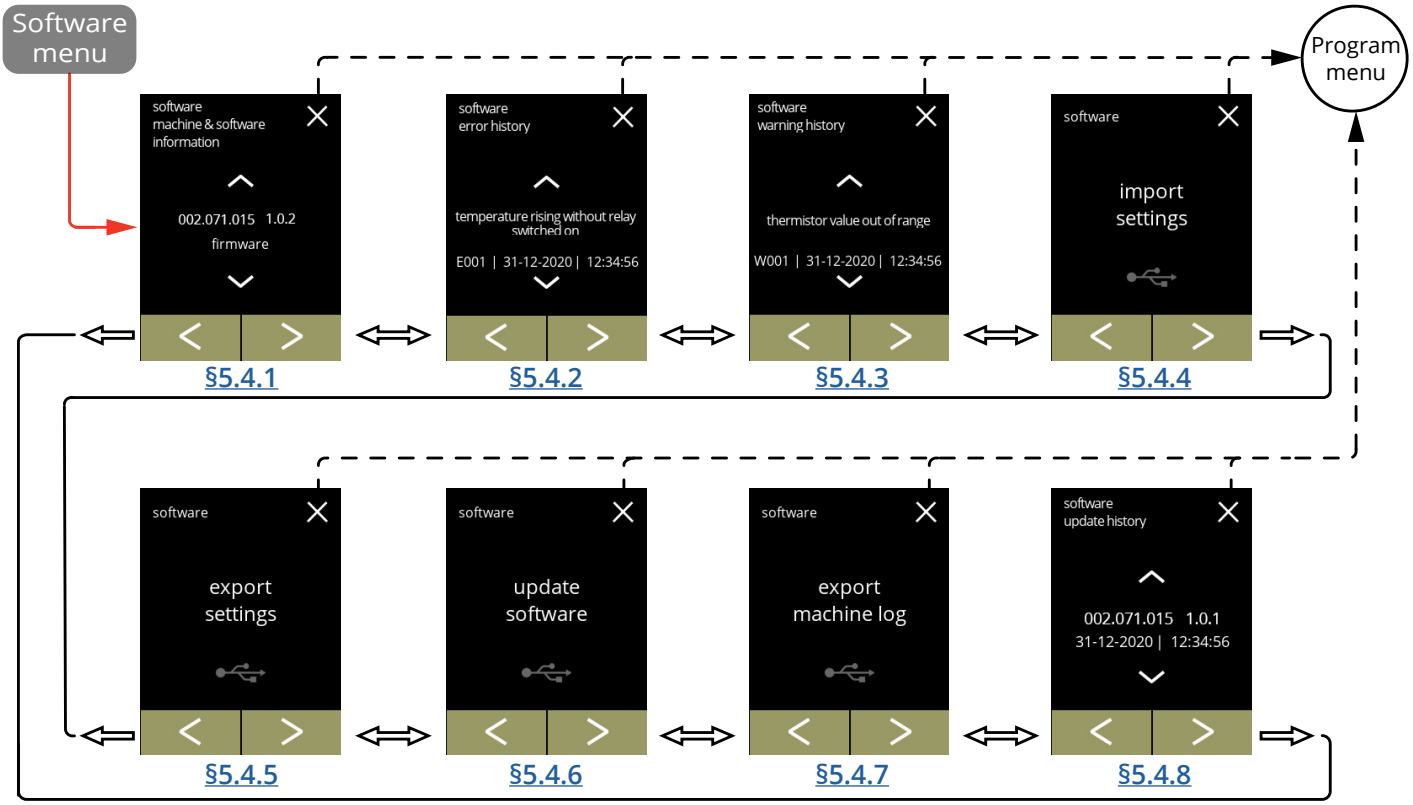
5.3.13d

Information screen:
- the machine starts automatically (this takes a while)

5.4 Software menu

All firmware related items can be read, set or changed in the software menu.
Select one of the available options:

- press ‹ or › to select the next option of the “software menu”
- press the *“text area”* to select the next level for that menu
- press ☒ to go back to chapter 5. Programming menu on p.14

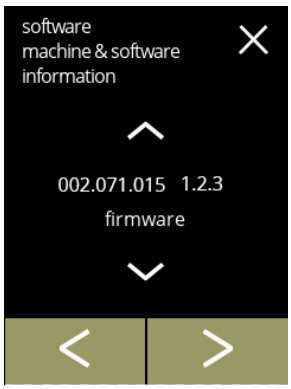


5.4.1 Machine and software information

This menu shows information that identifies the machine.

software			*hardware* (version, article number)	*other*
HMI (version)	**I/O (version)**	**external (version, article number)**		
• bootloader	• bootloader	• Interface board (if present)	• HMI board	• IP information (IP address, Mac address, Gateway and DNS) (if connected)
• application » API » GUI	• application	• other devices (if present)	• I/O board	• serial number machine
• touchscreen controller			• interface print (if present)	
• Bluetooth/ Wi-Fi			• other devices (if present)	

5.4.1



Information screens:
- press ⌃ or ⌄ to retrieve the other machine & software information
- press ‹ or › to scroll through the software menu

5.4.2 Error log

In this menu the error history is shown.
The following items are displayed:
- error code
- error message
- date and time

The error log can contain up to 50 error messages, the last error code generated is displayed first.

► *An overview of the error messages can be found in* *§6.2 on p.112*.

5.4.2

Information screens:
- press ⌃ or ⌄ to retrieve the error history
- press ‹ or › to scroll through the software menu

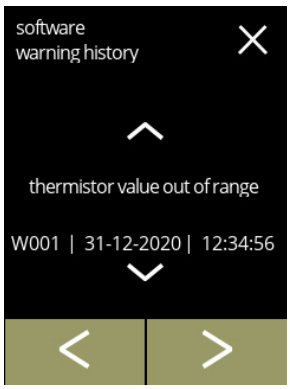
► *The last error code generated is shown first.*

5.4.3 Warning log

In this menu the warning history is shown.
The following items are displayed:
• warning code
• warning message
• date and time
The warning log can contain up to 50 warning messages, the last warning code generated is displayed first.

► *An overview of the warning messages can be found in* *§6.1 on p.110*.

5.4.3



Information screens:
• press ⌃ or ⌄ to retrieve the warning history
• press ‹ or › to scroll through the software menu

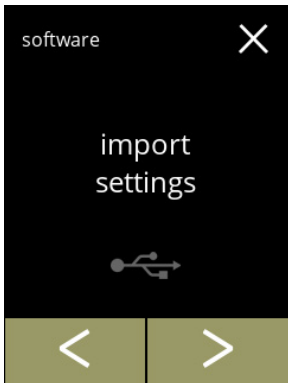
► *The last warning code generated is shown first.*

5.4.4 Import machine settings

In this menu the settings of another machine (or from the Bravilor factory) can be imported.
With settings the following is meant:
- recipes
- machine configuration
- security levels

► *Only if the identities of both machines are the same the settings can be transferred.*

5.4.4

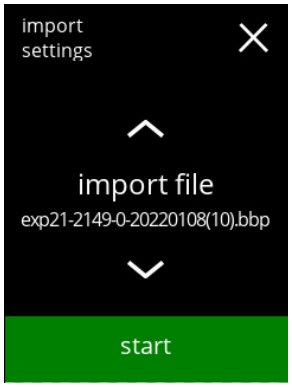


Import machine settings:
- place a USB stick

► *If there is no USB stick in the machine this option is greyed out.*

- press "*import settings*" to confirm
- press ‹ or › to scroll through the software menu

5.4.4a

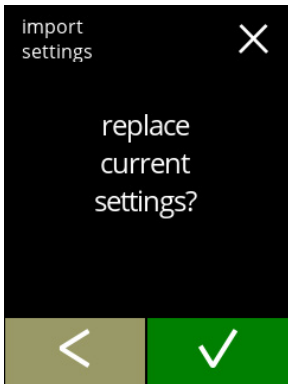


Import the settings on the machine:
- press ^ or v to select a setting file
- press start to begin the import

► *It is only possible to import a file with the same identification:*

EXP21	: identical model
2149	: identical boiler power (Watt)
0	: presence manual tap (0/1)
20220108	: date is variable (yyyymmdd)
bbp	: identical file extension

5.4.4b



Confirmation screen:

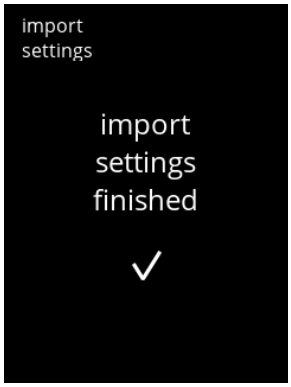
► *Be aware that your current settings will be overwritten.*

- press ✓ to confirm
- press ‹ to go to the previous screen

5.4.4c

Progress screen
- wait until the process is finished

5.4.4d



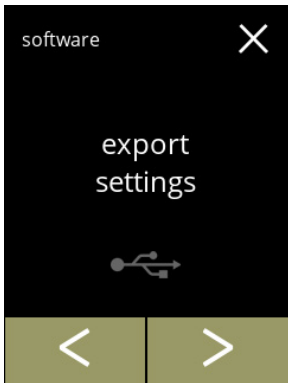
information screen:
- screen 5.4.4 is displayed after a few seconds

5.4.5 Export machine settings

In this menu the machine settings are exported to a file.
With settings the following is meant:
- recipes
- machine configuration
- security levels
- identity (used to check if the new machine has the same identity)

► *Keep in mind that the security levels of the machine are also copied.*

5.4.5

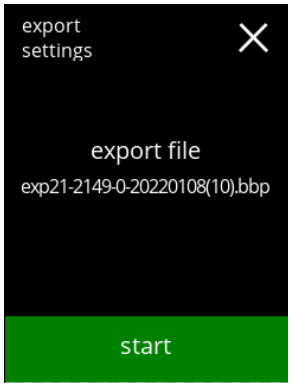


Export machine settings:
- place a USB stick

► *If there is no USB stick in the machine the export button is greyed out.*

- press "*export settings*" to confirm
- press ‹ or › to scroll through the software menu

5.4.5a

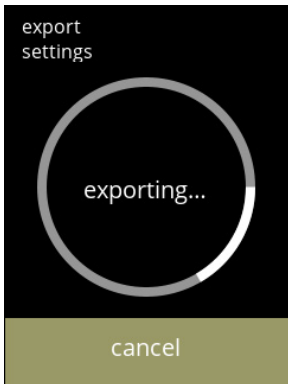


Export the settings of the current machine:
- press start to begin the export

► *The name of the export file is structured as follows:*

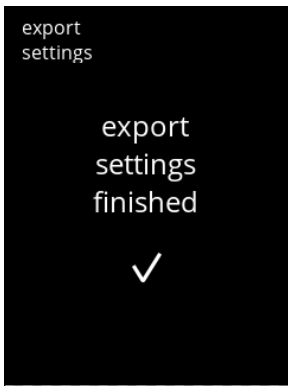
EXP21	: model
2149	: boiler power (Watt)
0	: presence manual tap (0/1)
20220108	: date is variable (yyyymmdd)
bbp	: file extension

5.4.5b



Progress screen
- wait for the process to finish
- press on cancel to interrupt

5.4.5c



Information screens:

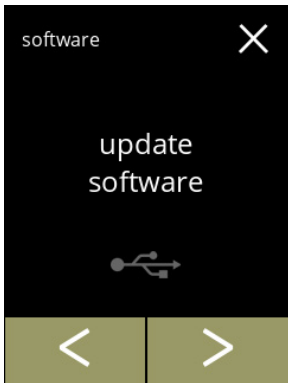
- screen 5.4.5 is displayed after a few seconds

5.4.6 Update software

In this menu the software can be updated.
The software (package) can be selected from the USB stick and after selection the package information will be shown.

► *The software can only be updated, a downgrade is not possible.*

5.4.6



Update the machine software:
- place a USB stick

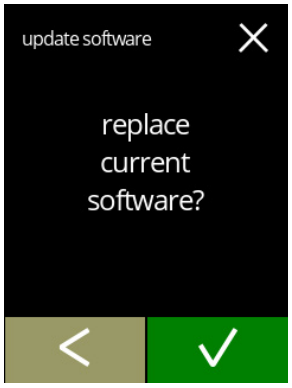
► *If there is no USB stick in the machine this option is greyed out.*

- press *"update software"* to confirm
- press ‹ or › to scroll through the software menu

5.4.6a

Select the file to update the software:
- press ^ or v to select a file
- press start to begin the update

5.4.6b



Confirmation screen:

► *Be aware that your current firmware will be overwritten.*

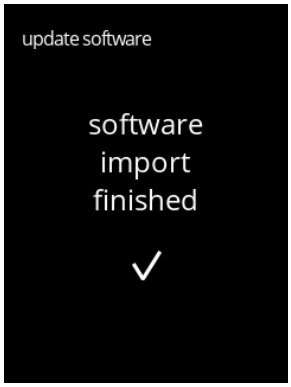
- press ✓ to confirm
- press ‹ to go to the previous screen

5.4.6c

Progress screen
- wait until the process is finished
- press on cancel to interrupt

► *If the file cannot be imported (earlier version or wrong format) the screen is aborted and screen 5.4.6f appears.*

5.4.6d



Information screen:
- the next screen is displayed after a few seconds

5.4.6e

Information screen:
- the machine starts automatically (this takes a while)
- the next screen is displayed automatically

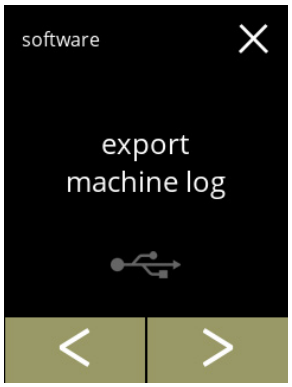
5.4.6f

Information screen:
- the beverage selection screen is displayed when the software is installed

5.4.7 Export machine log

In this menu the machine log is exported to a file.
The report consists of dispense counters (free and paid), warning and error messages.

5.4.7

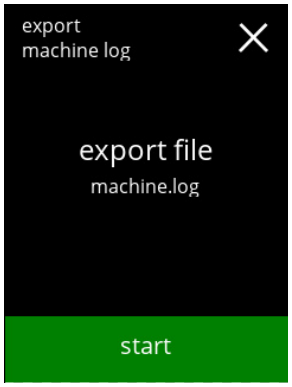


Export machine log:
- place a USB stick

► *If there is no USB stick in the machine this option is greyed out.*

- press "*export machine log*" to confirm
- press ‹ or › to scroll through the software menu

5.4.7a

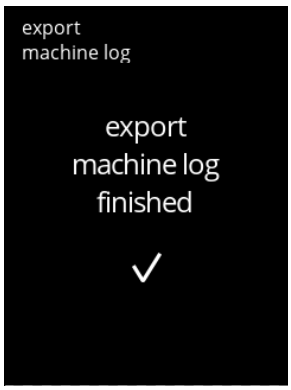


Export the log file of the machine:
- press start to begin the export

5.4.7b

Progress screen
- wait until the process is finished
- press on cancel to interrupt

5.4.7c



Information screens:

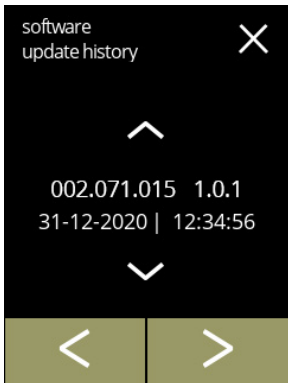
- screen 5.4.7 is displayed after a few seconds

5.4.8 Software update history

In this menu software history is shown.
The following software history are shown with item number, version, date and time:
- product software (HMI)
- I/O board software
- touch software
- WI-Fi/Bluetooth
- bus devices (if they are connected)

The update log can contain up to 50 items, the last update is shown first.

5.4.8



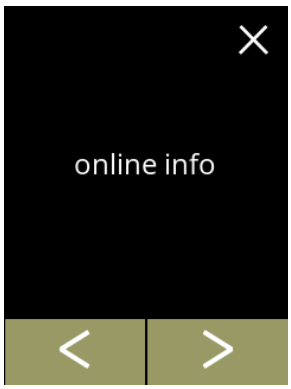
Information screens:
- press ⌃ or ⌄ to retrieve the update history
- press ‹ or › to scroll through the software menu

5.5 Online info

Online information can be approached via the QR code shown on the screen.
Select one of the available options

- press ‹ or › to select the next option of the “machine menu”
- press the *“text area”* to select the next level for that menu
- press ☒ to go back to chapter 5. Programming menu on p.14

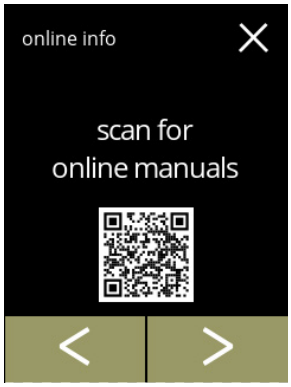
5.5.1



Online information:

- press “*online info*” to confirm
- press ‹ or › to scroll through the machine menu

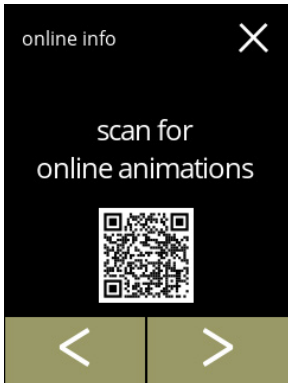
5.5.1a



Online manuals:

- press ‹ or › to scroll through the available QR codes
- scan the QR code to get the latest online manual(s)

5.5.1b



Online animations:

- press ‹ or › to scroll through the available QR codes
- scan the QR code to get the latest online animation(s)

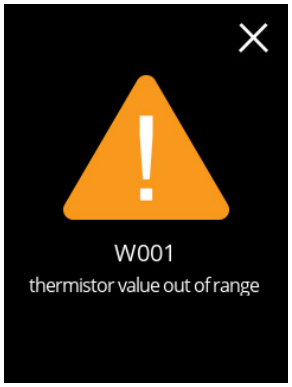
6. Messages and errors

6.1 Warning messages

Warnings are used to inform you of a state which can prevent the Bolero from working correctly. In general warnings are shown after selecting a beverage.

► *The messages/warnings are displayed for 30 seconds then return to the home screen.*

» a message (Mxxx) is a positive confirmation of a user action.
» a warning (Wxxx) indicates a problem or potentially harmful condition



6.1a

Example display for a warning.
These notifications are stored in a log file (§5.4.3 on p.99).

code	description	action
W001	temperature sensor out of range	• no action required, disappears after a few seconds, becomes after 3 incidents E002
W002	temperature too high	• no action required, disappears after a few seconds
W003	temperature not rising while relay engaged	• no action required, disappears after a few seconds, becomes E004 after 3 incidents within certain time
W004	canister motor not detected	• reset the message on the screen » if the warning persists, contact your dealer
W005	*not used*	
W006	mixing systems must be rinsed	• reset the message on the screen » rinse the mixing system, see §5.1.1 on p.16.
W007	machine must be descaled soon	• reset the message on the screen » schedule the descaling procedure soon
W008	machine must be descaled now	• reset the message on the screen (the warning will pop-up after every dispensed beverage) » descale the machine, see §5.1.2 on p.18)

code	description	action
W009	water filter must be changed soon	• reset the message on the screen » schedule water filter replacement soon
W010	water filter must be changed now	• reset the message on the screen (the warning will pop-up after every dispensed beverage) » replace the water filter and confirm in §5.1.3 Water filter management on p.26
M011	payment device connection successful	• no action required, disappears after a few seconds
W012	payment device connection failed	• no action required, disappears after a few seconds » check the connections and restart the payment device » if the error persists, contact your dealer
W013 - W019	*not used*	
W020	contact your dealer for preventive maintenance	• reset the message on the screen, the message will recur several times after which it becomes E026

6.2 Errors

Error messages appear when an error is detected by the machines operating system.
When the error is active and is cancelled by the user, the machine goes out of safe mode and tries to recover. If the error is not cleared by retrying, the error reappears.

► *If the error message returned after the appropriate action, please contact your dealer.*

6.2a

Example display for errors.
These errors are stored in a log file (§5.4.2 on p.98).

code	description	action
E001	temperature rise while relay disengaged	• reset the message on the screen
		» if the error persists, contact your dealer
E002	temperature sensor out of range	• reset the message on the screen
		» if the error persists, contact your dealer
E003	magnetic valve unexpectedly opened	• reset the message on the screen
		» if the error persists, contact your dealer
E004	temperature not rising while relay engaged	• reset the message on the screen
		» if the error persists, contact your dealer
E005	*not available*	
E006	water supply failure	• reset the message on the screen, if the error repeats verify the following:
		» check that the water tap is open
		» check that the water supply hose is not kinked
		» check whether water comes out of the water tap
		» if the error persists, contact your dealer

code	description	action
E007	*not used*	
E008	bus system communication error	• reset the message on the screen
		» if the error persists, contact your dealer
E009	pump motor malfunction	• reset the message on the screen
		» if the error persists, contact your dealer
E010	mixer motor not detected	• reset the message on the screen, if the error repeats verify the following:
		» check that the mixing bowl is clean and not blocked
		» if the error persists, contact your dealer
E011	canister motor malfunction	• reset the message on the screen, if the error repeats verify the following:
		» remove the canister and try again
		» remove the ingredient powder from the canister and try again
		» if the error persists, contact your dealer
	► *E011 cannot be detected by the hardware when the canister motor is running at very low speed, i.e. when very small amounts of ingredients are dispensed, which is usually the case for recipes with a very low ingredient/water ratio.*	
E012	coin mechanism missing	• reset the message on the screen, if the error repeats verify the following:
		» check whether the payment device is correctly connected
		» if the error persists, contact your dealer
E013	coin mechanism defective	• reset the message on the screen, if the error repeats verify the following:
		» check whether the payment device is correctly connected
		» if the error persists, contact your dealer
E014	coin mechanism blocked	• reset the message on the screen, if the error repeats verify the following:
		» check the payment device for any blockages
		» if the error persists, contact your dealer
E015	coin mechanism sabotaged	• reset the message on the screen, if the error repeats verify the following:
		» check the payment device for any damages

code	description	action
E016	coin mechanism communication error	• reset the message on the screen, if the error repeats verify the following:
		» check whether the payment device is correctly connected
E017	coin mechanism general error	• reset the message on the screen, if the error repeats verify the following:
		» check whether the payment device is correctly connected
E018	cashless device general error	• reset the message on the screen, if the error repeats verify the following:
		» check whether the payment device is correctly connected
E019 - E025	*not used*	
E026	contact your dealer for necessary maintenance	• reset the message on the screen, contact your dealer for required maintenance (the error message will occur more frequently than the previous warning message W020)

6.3 Other problems

In addition to the messages and errors present in the machine, a number of other problems may occur; these problems are described below.

Problem description	Possible cause	Check the following
drink to weak	almost out of powder in ingredient canister	• Ingredient container
	strength not correct	• adjust drink settings in the recipe editor » if the error persists, contact your dealer
drink to strong	strength not correct	• adjust drink settings in the recipe editor » if the error persists, contact your dealer
no water dosed	hose blocked	• contact your dealer
mixing unit clogs up	mixing unit not cleaned	• clean the mixing unit
	to much powder	• check the advise dosing of the packaging of the powder, use a scale to weight the amount of powder used
	powder used which is not applicable for vending machines	• use powder that is applicable for vending machines
	pump calibration not correct	• calibrate the pump (availability depends on PIN setting)
		• contact your dealer
	mixer defect or missing	• check the mixer
	mixing unit damaged	• check the mixing unit
	fan rotor does not turn	• clean the fan rotor and housing or remove any blockage » if the error persists, contact your dealer
mixing unit overflows water	pump calibration not correct	• calibrate the pump (availability depends on PIN setting)
		• contact your dealer
	mixing bowl clogged up	• mixing bowl, see previous descriped problem » if the error persists, contact your dealer
mixing unit leaks	mixing bowl seal leaks	• clean the complete mixing unit » if the error persists, contact your dealer

Problem description	Possible cause	Check the following
no faom on the drink	mixer speed not correct	• adjust the mixer speed (availability depends on PIN setting) » if the error persists, contact your dealer
	type of instant ingredient	• try a different instant ingredient
to much foam on the drink	mixer speed not correct	• adjust the mixer speed (availability depends on PIN setting) » if the error persists, contact your dealer
not enough water dosed	scale in the water system	• descale the machine » if the error persists, contact your dealer
fan rotor does not run	fan not cleaned	• clean the fan rotor and housing or remove any blockage » if the error persists, contact your dealer
water dispensed in wrong outlet	scale in water selector	• descale the machine » if the error persists, contact your dealer
machine doesn't turn on	switch not turned on	• turn on the switch on the backside
	no power	• check the power supply » if the error persists, contact your dealer
message safety circuit interupted in the display	door and lid not closed	• first close the lid and then the door
	service key not placed	• place the service key » If the error persists, contact your dealer
touch screen display sometimes not responsive	touch screen filthy	• turn off the machine and clean the touch screen with a damp cloth ► *Do not use agressive detergents.* » if the error persists, contact your dealer

7. Appendix

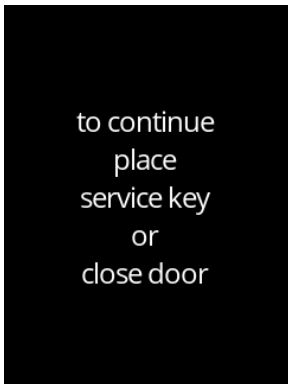
7.1 Filter information and water hardness

	very soft	soft	average	moderate	hard
°dH	0 - 4	4 - 8	8 - 12	12 - 18	18 - 30
°fH/°TH	0 - 7	7 - 15	15 - 22	22 - 32	32 - 54
°e / Clark	0 - 5	5 - 10	10 - 15	15 - 23	23 - 38
mmol/l	0 - 0.72	0,72 - 1.43	1.43 - 2.15	2.15 - 3.22	3.22 - 5.37
descale	2000 l.	1500 l.	1000 l.	500 l.	250 l.

► *The capacity of a water filter depends on the type and local hardness of the water.*

► *See §5.1.6 on p.32 to set the water hardness.*

7.2 Door switch functionality



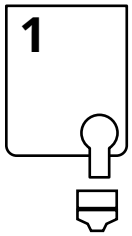
When the door opens the safety switch is activated and a message is shown.
The following hardware will become inactive:

- all mixers
- all canisters
- boiler
- appliances that are connected to the 24 V safety of the bus system

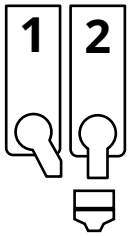
► *When the door switch is activated during dosing of a beverage, the dosing is cancelled and the mixer cup is cleaned by a post flush.*

7.3 Basic machine configurations

Bolero 11

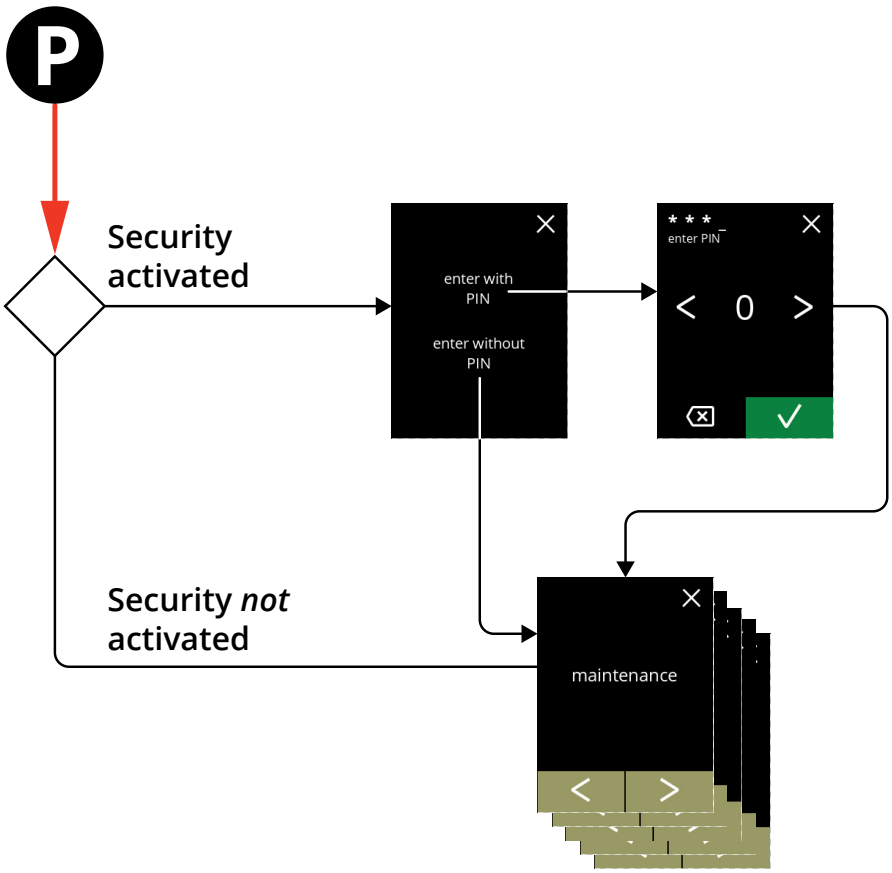


Bolero 21



7.4 PIN code security settings

The table below lists the available menu options associated with the PIN codes.
When a PIN code is ***not*** set, all menu items are available and the table must be ignored.



Section	Menu name	PIN 1	PIN 2	without PIN
5.	*Programming menu*	✓	✓	✓
5.1	**Maintenance menu**	✓	✓	✓
5.1.1	Rinse the mixing system	✓	✓	✓
5.1.2	Descale	✓	✓	✓
5.1.3	Water filter management	✓	✓	✓
5.1.4	Hot-key rinsing function	✓	✓	×
5.1.5	Cleaning management	✓	✓	×
5.1.6	Descale management	✓	✓	×
5.1.7	Canister calibration	✓	✓	×
5.1.8	Pump calibration	✓	×	×
5.1.9	Input test	✓	×	×
5.1.10	Output test	✓	×	×
5.1.11	Cleaning instructions	✓	✓	✓
5.1.12	Counters	✓	✓	✓
	reset day counters	✓	✓	✓
	reset all counters	✓	×	×

Section	Menu name	PIN 1	PIN 2	without PIN
5.2	**Beverage menu**	✓	✓	×
5.2.1	Add beverage to screen	✓	✓	×
5.2.2	Change beverage name	✓	✓	×
5.2.3	Change beverage price	✓	✓	×
5.2.4	Recipe editor	✓	✓	×
5.2.5	Select ingredients canisters	✓	✓	×
5.2.6	Change ingredient name	✓	✓	×
5.2.7	Cusomize beverage strength	✓	✓	×
5.2.8	Set default volume	✓	✓	×
5.3	**Machine menu**	✓	✓	×
5.3.1	Year	✓	✓	×
5.3.2	Date	✓	✓	×
5.3.3	Time	✓	✓	×
5.3.4	Language	✓	✓	×
5.3.5	Screensaver management	✓	✓	×
5.3.6	Background	✓	✓	×
5.3.7	Display brightness	✓	✓	×
5.3.8	Sound level feedback	✓	✓	×
5.3.9	Boiler temperature	✓	✓	×
5.3.10	Energy-saving mode (ECO)	✓	✓	×
5.3.11	Security settings	✓	✓	×
5.3.12	Connected devices	✓	✓	×
5.3.13	Reset to factory settings	✓	×	×
5.4	**Software menu**	✓	✓	✓
5.4.1	Machine and software information	✓	✓	✓
5.4.2	Error log	✓	✓	×
5.4.3	Warning log	✓	✓	×
5.4.4	Import machine settings	✓	×	×
5.4.5	Export machine settings	✓	×	×
5.4.6	Update software	✓	×	×
5.4.7	Export machine log	✓	×	×
5.4.8	Software update history	✓	×	×
5.5	**Online info**	✓	✓	✓

► *Menu items secured by PIN codes will be greyed out, see §5.3.11 on p.87 to set the PIN codes.*

7.5 Special functions

By using a “secret key combination” special features can be activated.

7.5.1 Cancel beverage on/off

See §5.3.12 Connected devices on p.92

► *Reason of this feature is that the customer can choose if the beverage can be cancelled or not when a payment system is connected.*

7.5.2 Quick rinse

By pressing the S M L on the beverage selection screen for 5 seconds the quick rinse is immediately activated with 90 ml (hot water).

► *To set this function, see §5.1.4 Hot-key rinsing function on p.29*

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