3.3 Profile 3: large volumes / regular strength

► *Double beverages are dispensed in 2 brew cycles.*

3.3.1 Selectable volume - small 

Beverage	Total beverage volume (ml)	1. Coffee volume (ml)	2. Milk volume (ml)	3. Hot water volume (ml)	(g)	(g)	(g)	Dosing order
Ristretto	30	30,0	x	x	8,0	**9,0**	10,0	x
Ristretto x2								
Espresso	50	50,0	x	x	8,0	**9,0**	10,0	x
Espresso x2								
Caffè crema	140	140,0	x	x	8,0	**9,0**	10,0	x
Caffè crema x2								
Americano	140	40,0	x	100,0	7,5	**8,5**	9,5	1.-3.
Cappuccino	140	40,0	100,0	x	7,5	**8,5**	9,5	2.-1.
Cappuccino dark	140	40,0	100,0	x	7,5	**8,5**	9,5	1.-2.
Espresso macchiato	85	60,0	25,0	x	8,5	**9,5**	10,5	1.-2.
Latte macchiato	160	40,0	120,0	x	7,0	**8,0**	9,0	2.-1.
Caffè latte	160	60,0	100,0	x	8,0	**9,0**	10,0	1.-2.
Hot water	140	x	x	140,0	x	**x**	x	x
Hot milk foam	140	x	140,0	x	x	**x**	x	x

3.3.2 Selectable volume - medium 

Beverage	Total beverage volume (ml)	1. Coffee volume (ml)	2. Milk volume (ml)	3. Hot water volume (ml)	(g)	(g)	(g)	Dosing order
Ristretto	40	40,0	x	x	9,0	**10,0**	11,0	x
Ristretto x2								
Espresso	60	60,0	x	x	9,0	**10,0**	11,0	x
Espresso x2								
Caffè crema	160	160,0	x	x	9,0	**10,0**	11,0	x
Caffè crema x2								
Americano	160	50,0	x	110,0	8,5	**9,5**	10,5	1.-3.
Cappuccino	160	50,0	110,0	x	8,5	**9,5**	10,5	2.-1.
Cappuccino dark	160	50,0	110,0	x	8,5	**9,5**	10,5	1.-2.
Espresso macchiato	105	70,0	35,0	x	10,0	**11,0**	12,0	1.-2.
Latte macchiato	180	45,0	135,0	x	7,5	**8,5**	9,5	2.-1.
Caffè latte	180	70,0	110,0	x	9,0	**10,0**	11,0	1.-2.
Hot water	160	x	x	160,0	x	**x**	x	x
Hot milk foam	160	x	160,0	x	x	**x**	x	x

3.3.3 Selectable volume - large 

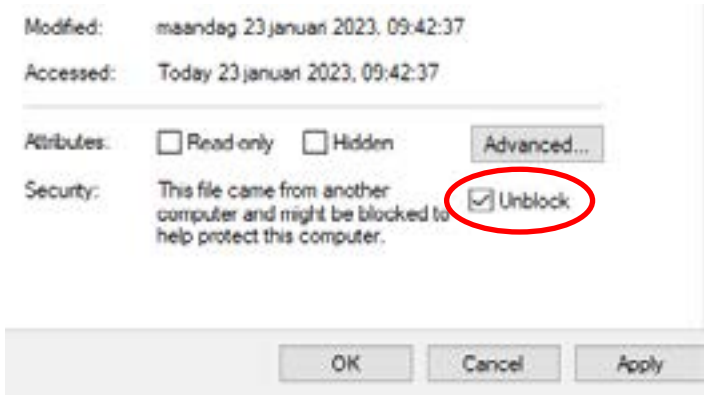
Beverage	Total beverage volume (ml)	1. Coffee volume (ml)	2. Milk volume (ml)	3. Hot water volume (ml)	(g)	(g)	(g)	Dosing order
Ristretto	50	50,0	x	x	10,0	**11,0**	12,0	x
Ristretto x2								
Espresso	70	70,0	x	x	10,0	**11,0**	12,0	x
Espresso x2								
Caffè crema	180	180,0	x	x	10,0	**11,0**	12,0	x
Caffè crema x2								
Americano	180	60,0	x	120,0	9,0	**10,0**	11,0	1.-3.
Cappuccino	180	60,0	120,0	x	9,0	**10,0**	11,0	2.-1.
Cappuccino dark	180	60,0	120,0	x	9,0	**10,0**	11,0	1.-2.
Espresso macchiato	125	80,0	45,0	x	11,5	**12,5**	13,5	1.-2.
Latte macchiato	200	50,0	150,0	x	8,0	**9,0**	10,0	2.-1.
Caffè latte	200	80,0	120,0	x	10,0	**11,0**	12,0	1.-2.
Hot water	180	x	x	180,0	x	**x**	x	x
Hot milk foam	180	x	180,0	x	x	**x**	x	x

4. Software update instructions

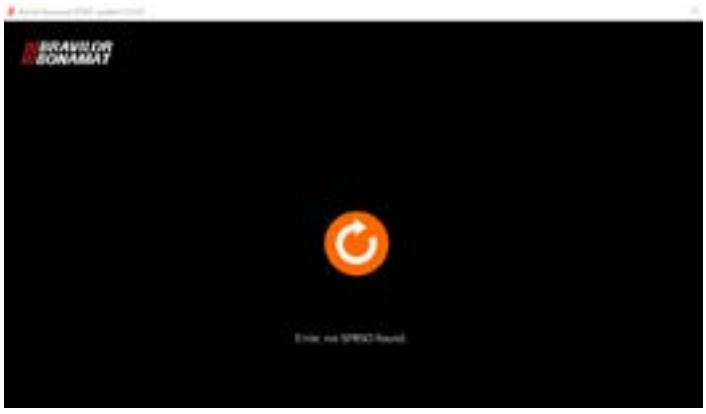
► **The update will overwrite all software, including all personal settings (the water and grinder calibration values remain unchanged).**

Necessities:
- Windows device (windows 7 or later)
- USB cable (USB-A to USB-C)
- torx 10 screwdriver

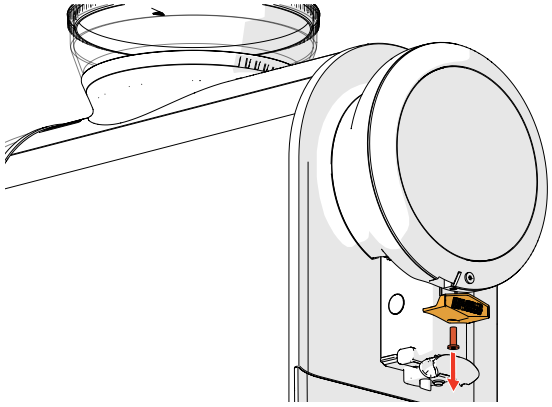
► *USB-C to USB-C does not work.*



- download the zip-file from our website
- extract the file to a folder
- right-click on the file to open its properties
- check the ***"unblock"*** box
- click 'OK' to confirm



► *The Sprso must be connected to the mains.*
- start the application, the screen on the left will appear followed by the next screen



Preparation of the Sprso:
- remove the screw from the brand name buckle
- remove the brand name buckle (the USB-C connection becomes available)
- plug in the USB-C cable on the Sprso
- plug in the USB-A cable on the windows device



► *The update will overwrite all personal settings*

- press ***"start"*** to overwrite the software

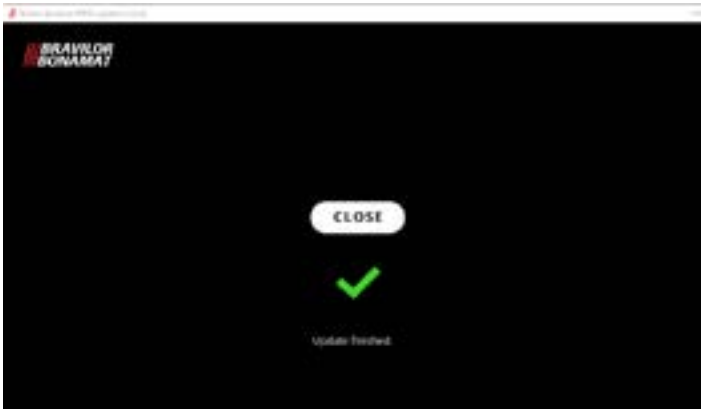


Progress screen:

- wait until the process is finished



Progress screen Sprso



- the procedure is completed and the Sprso will automatically restarts
- press ***"close"*** to exit the application
- unplug the USB cable
- reattach the brand name buckle
- re-enter your personal settings

5. Troubleshooting

5.1 Warning messages

Nr	Message	Description	Reset condition
ME01	fill or place water tank	no water detected in water tank	• fill water tank and place water tank in correct position
		water tank not present	• place water tank in correct position
		float not in upper position due to:	• check free movement float
		» pollution	• clean
		» leak in the float	• replace float
		» poor conductivity	• clean the float
			• check the ferrite rod, see section 2.8 on page 16
		» I/O board	• replace I/O board
ME02	not applicable		
ME03	close side panel	side/service panel not in correct position	• close side/service panel (in correct position)
		panel switch not activated	• replace switch
			• replace I/O board
ME04	place drip tray + waste bin	waste bin not in place	• place drip tray with waste bin (in correct position)
		waste bin switch not activated	• replace switch
			• replace I/O board
ME05	empty waste bin The icon below is visible on the *'beverage selection screen'*. 	waste bin counter exceeded	• remove the drip tray, empty the waste bin inclusive the drip tray, put the parts back in the correct position and confirm the operation on the screen
ME06	not applicable		
ME07	clean milk system	will be displayed when machine flush or start-up flush is active and a milk unit is activated in the software	• only a reminder

Nr	Message	Description	Reset condition
ME08	clean CIRCO brewer The icon below is visible on the *'beverage selection screen'*. 	the counter for the cleaning procedure of the CIRCO brewer is reached (the first message is displayed after 125 brewing cycles - the message is repeated after every coffee-related beverage until the CIRCO brewer is cleaned)	• perform the procedure described in section "7.1.3 Clean coffee system" in the digital user manual 700.470.010
ME09	replace water filter The icon below is visible on the *'beverage selection screen'*. 	the water filter counter has been reached (the message appears after "XX" litres have passed through the water counter and is repeated after every 11 beverages)	• replace the water filter and confirm this in section "7.1.6 Water filter" in the digital user manual 700.470.010
ME10	descale machine	the counter for the descaling is reached (the message is repeated after every 9 beverages)	• descale the Sprso as described in section "7.1.5 Descale" in the digital user manual 700.470.010
ME11	not applicable		
ME12	CIRCO brewer jammed by grinding or obstruction	CIRCO brewer is blocked. too much coffee ground in the CIRCO brewer or an obstruction	• remove the obstruction

5.2 Error messages

Nr	Error	Description	Reset condition
00000	communication failed	communication between HMI- and I/O-board defect	• press start button, machine will be restarted
			• check the wiring
00201	no water flow detected	no water flow detected in system	• clean water tank
			• fill water tank and place water tank in correct position
			• press start button, machine will be restarted
			• check the following parts: » water counter » pump » pump connected incorrectly, see §2.11 » hoses » float water tank » heating element » high temperature safety switches (non-reset-able) » I/O board » all associated wiring » leakage water system
00401	grinder blocked	grinder is blocked or broken	• remove all the beans from the grinder with a vacuum cleaner and remove any obstructions in the grinder
			• press start button, machine will be restarted
			• check the following parts: » grinder motor » I/O board » all associated wiring
02101	temperature sensor not connected	temperature sensor is not connected or reading invalid	• press start button, machine will be restarted
			• check the temperature sensor

Nr	Error	Description	Reset condition
02102	temperature sensor reading	temperature sensor reading invalid	• press start button, machine will be restarted • check the following parts: » temperature sensor » I/O board » all associated wiring
02203	heating element protection	heating element is overheated or defect	• press start button, machine will be restarted • check the following parts: heating element » high temperature safety switches (non-reset-able) » I/O board » all associated wiring
04104	brewer malfunction	CIRCO brewer is blocked or defect	• press start button, machine will be restarted • follow procedure of section “CIRCO brewer malfunction (Error 04104)” in the digital user manual 700.470.010 • check the following parts: » CIRCO brewer » brewer motor » all associated wiring
10001	I/O-error	I/O safety control fails	• press start button, machine will be restarted • check the following parts: » I/O board » all associated wiring
10011	heater not responding	dosage not within a reasonable time	• press start button, machine will be restarted • check the following parts: » temperature sensor » I/O board » all associated wiring
10015	brewer partially mounted	the machine cannot determine the starting position of the CIRCO brewer	• press start button, machine will be restarted • follow procedure of section “CIRCO brewer partially mounted (Error 10015)” in the digital user manual 700.470.010

5.3 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
after coffee is selected, neither coffee nor hot water is dispensed	brewer valve not opening	• brewer valve
		• all associated wiring
	obstruction in the water system	• all associated hoses
	safety valve overpressure opened	• safety valve overpressure
	brewer leaking	• brewer
after coffee is selected, there is less coffee in the cup than normal	obstruction in the water system	• all associated hoses
	brewer leaking	• brewer
after coffee is selected, no coffee is dispensed, only hot water	bean canister empty	• fill bean canister
	grinder not working	• grinder
		• grinder motor
		• all associated wiring
	grinder outlet missing	• grinder outlet
display doesn't turn on	no power on wall socket	• power supply on the wall socket
	fuse broken	• fuse (10A T)
	power supply board failure	• power supply board
	wiring error	• all associated wiring
		• flat-cable
buttons surrounding the screen don't work	buttons need to be cleaned	• clean buttons
	bad flat-cable connection or rupture	• flat-cable
no crema on coffee beverages	brewer not cleaned	• perform the brewer cleaning procedure
	brewer defect	• brewer components
no milk dosed	milk reservoir or packaging empty	• refill milk
	milk connector and hose not correctly in place	• place the milk connector and hose in correct position
	steam valve not opening	• steam valve
		• all associated wiring

Problem description	Possible cause	Check the following
bad milk foam	outlet not properly inplace	• outlet
	outlet not clean	• perform milk cleaning cycle
	milk connector not properly in place	• place milk connector in correct position
	air restriction blocked	• clean air restriction manually, see section 2.2 on page 11
milk sputters very much	milk temperature	• the optimum milk temperature is 5°C; *the warmer the milk, the poorer the quality of foam produced*
	milk connector not properly in place	• place the milk connector in correct position
water under the machine	water tank not placed correct	• water tank
	drip tray and waste bin not emptied on time	• drip tray and waste bin
	leakage somewhere in the water system	• water system
when the flash heating is switched on, only steam is produced instead of hot water	the flash heater hoses are swapped	• make sure that the hoses of the flash heater are correctly installed, see section 2.14 on page 22.