



Fresh-brewed coffee and instant beverages machine **Table top with Touch panel interface**

LaRhea V+ grande, LaRhea V+ eC

SUM015-2024-pkg6.1-E+

SOFTWARE USER MANUAL

1.0 | 2024/05/16

EN

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INFORMATION ON THIS MANUAL

Updates

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SUM015-2024-pkg5.0-E+	1.0	2024/03/05	Updated to 5.0 package, new structure and layout	5.0
SUM015-2024-pkg6.1-E+	1.0	2024/05/16	Updated to 6.1 package	6.1

Provided documentation

Manual	Code	Distribution format
Software user manual (this manual)	SUM015-2024-pkg6.1-E+	Digital manual

Intended users of this manual

Intended user	Main tasks
Installers, maintenance technicians	- Install/export machine configuration files - Configure the machine and selections parameters
Operators	Perform daily and/or periodic maintenance on the machine

MESSAGE CONCEPTS

Safety messages

 **CAUTION**

Indicates a dangerous situation which, if not avoided, may cause slight injury.

Other messages

 **IMPORTANT**

Indicates a risky situation which, if not avoided, may cause data loss.

Note: Neutral and positive information that emphasize or add information to the main text. They provide information that can only be applied in special cases.



Indicates the path in the software to access the page described.



Indicates a basic task that can be performed by an operator. All other tasks should be carried out by more specialized personnel (installers or maintenance technicians).

ASSISTANCE

For technical assistance, contact rheavendors@rheavendors.com or see the **Contacts** section at <https://www.rheavendors.com/network>.

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1 INTRODUCTION

1.1 Overview on operating modes

The machine has the following operating modes:

- Installing/exporting mode
- Setup mode

Installing/exporting mode

This mode allows uploading/downloading files for installing/exporting what follows:

- Software firmware
- Machine configurations
- Machine interface graphics

See "Installing/exporting mode", page 6.

Setup mode

This mode allows doing what follows:

- Access the machine programming. See "Programming menu", page 11
- Perform the machine cleaning/rinsing. See "Cleaning/rinsing", page 34.
- Monitor the machine dispensing data. See "SALES AUDIT", page 22.
- Access the free dispensing mode for testing purposes.
- Perform the machine maintenance. See "MAINTENANCE", page 27.
- Perform a test on the modem.

See "Machine setup mode", page 9

1.2 Panel description

This description can be taken as a reference to identify the buttons mentioned in the procedures in this manual.

Note: The machine image is for illustrative purposes only.



- A** Machine screen
- B** Action keypad for navigating the interface. Each graphic element corresponds to a button. Each button corresponds to a number, as shown in the image.

2 INSTALLING/EXPORTING MODE

2.1 Install/export a file

Introduction

To install the data and configuration files needed on the machine, or to export them, a USB flash drive with a maximum capacity of 8 GB and FAT32 file system is required. Files must be stored on the flash drive in a specific way so that the machine can properly use them for installation or export. See "USB folders contents", page 6.

Install files

! IMPORTANT It is strongly recommended not to downgrade the current CPU and/or GPU and/or GUI and/or DA3.

1. Access the boot menu. See "How to access it", page 7.
2. Browse to the relevant boot menu page. Then select the file to install. See "Navigate the boot menu pages", page 8.
3. Tap **button 4** to install it. When finished, a confirmation message is displayed.

Note: If a file for updating the GPU has been installed, the machine's LEDs or the selection buttons flash at the end of the procedure.

4. Switch off the machine and remove the USB flash drive.

Export files

This procedure is useful to export individual files or to create a backup of all the files installed on the machine.

1. Access the boot menu. See "How to access it", page 7.
2. Browse to the relevant boot menu page. Then select the file to install. See "Navigate the boot menu pages", page 8.
3. Tap **button 5** to export it. When finished, a confirmation message is displayed.
4. Switch off the machine and remove the USB flash drive.

2.2 USB folders contents

Folders overview

Files must be stored in the `/rhea` folder, which is the USB main folder. It is organized in sub-folders, each of them containing specific files.

Below a list and description of the folders and files contained in the `/rhea` folder.

Note: If the `/rhea` folder is not present in the USB flash drive, it must be created.

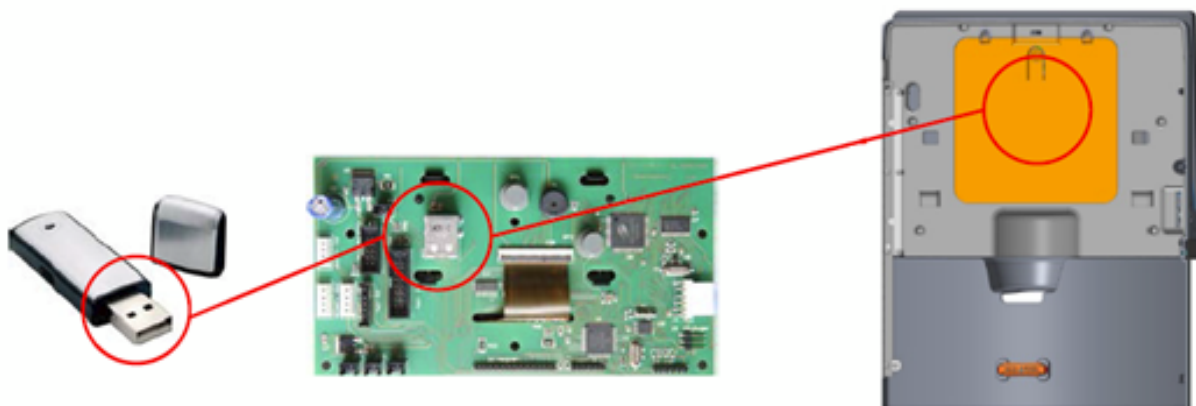
! IMPORTANT Do not change the original file and folder names as it may cause an installation error.

Folder name	Contents	Files extension	Export to other machines
DAT04	Machine configurations files. It contains parameters to set times, beverages dispensing, payment system protocol, display modes. These parameters can also be edited manually on the machine or with the rheAction tool.	da3	Yes
CPU04	"Master" files. It contains information on machine cycles, links among all functions, order of operations (8 master files maximum).	mhx	No
GPU04	"Master" files related to the firmware of the GPU card.	mh3	No
rheaDataAudit	Data audit files downloaded from the machine. The folder is automatically created at the first data audit downloading.	txt	No
GUI04	Graphics of the machine interface when it is in stand-by mode or in dispensing mode. Files must be organized in folders. Image resolution must be a maximum of 320 (length) x 184 (height), 96 dpi pixels, no bigger than 500 KB, in .jpg format.	n.a.	Yes

2.3 Boot menu

How to access it

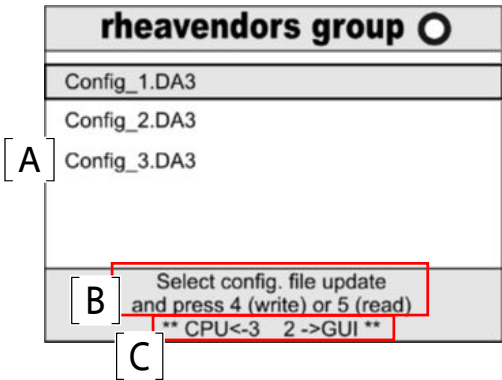
1. Switch off the machine and open its cage.
2. Extend the fixing fin and slightly take off the orange protection carter.
3. Connect the USB flash drive to the display board, as shown in the following image:



4. Use the service key on the cover to switch on the machine: the boot menu is displayed.

Menu overview

The boot menu consists of as many pages as the folders on the USB flash drive. Below the description of a typical page.



- A Files in the folder
- B Actions that can be performed or result of the action
- C Previous and next page

Navigate the boot menu pages

To navigate the pages, use the machine keyboard. See "Panel description", page 5.

To...	Tap button...
Go to the next page	2
Go to the previous page	3
Move up through the options in the page	1
Move down through the options in the page	6

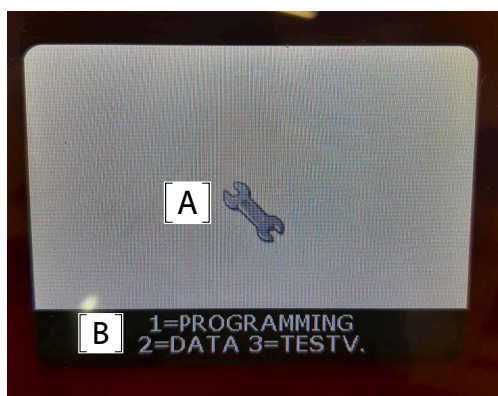
3 MACHINE SETUP MODE

3.1 Setup mode

How to access it

Open the machine door and press the **PROG** button: the machine exits the dispensing mode. The setup screen is displayed.

Setup screen



A Graphics section

B Menu elements

- **1=PROGRAMMING:** See "Programming menu", page 11
- **2=DATA:** Allows monitoring all dispensed products. See "SALES AUDIT", page 22
- **3=TESTV.:** Gives access to the free dispensing mode for testing purposes.
- **4=RINSE-CLEAN:** Gives access to the machine cleaning section. See "Cleaning-rinsing menu", page 34
- **5=MAINT.:** Gives access to the maintenance section. See "MAINTENANCE", page 27.
- **6=MODEM:** Performs a test on the modem.

Quick access to procedures

Specific procedures can be accessed by tapping two buttons simultaneously.

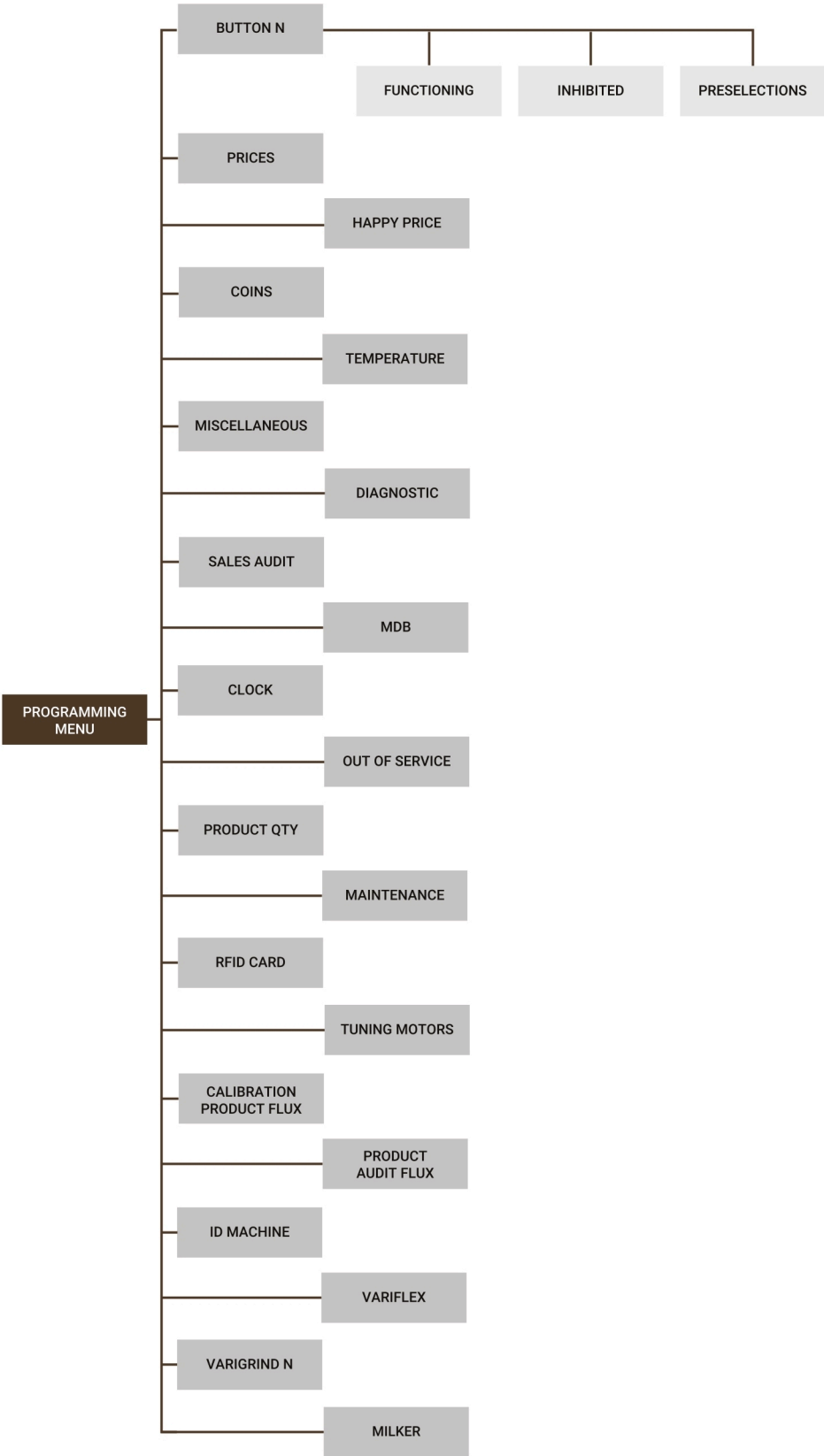
To...	Tap buttons...
access the cleaning procedure of the Venturi milker (see "Procedure for the Venturi model")	1 and 10
access the cleaning procedure of the Indux milker (see "Procedure for the Indux model")	1 and 12
access the refill procedure of the Indux milker (see Refill the Indux milker)	2 and 11
start the rinsing procedure of the whole circuit	3 and 12

How to exit the setup mode

Open the machine door and press the **PROG** button: the machine goes back to the dispensing mode.

3.2 Programming

3.2.1 NAVIGATION TREE



3.2.2 PROGRAMMING MENU

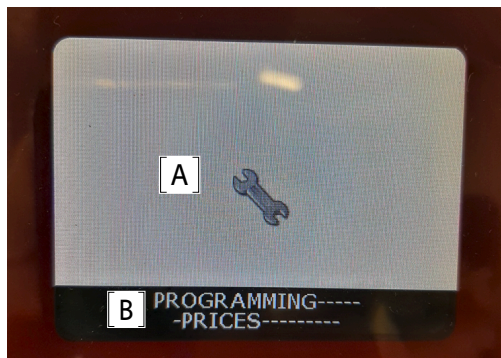


Setup mode > 1=PROGRAMMING (button 1)

Introduction

This menu gives access to all the machine programming functions. Each function allows configuring specific machine parameters or performing specific procedures.

Menu overview



- A** Menu graphics
- B** Current programming function, parameter or action to perform

Programming functions

Function	Reference
BUTTON N	"BUTTON N", page 13
PRICES	"PRICES", page 18
HAPPY PRICE	"HAPPY PRICE"
COINS	"COINS", page 18
TEMPERATURE	"TEMPERATURE", page 18
MISCELLANEOUS	"MISCELLANEOUS", page 19
DIAGNOSTIC	"DIAGNOSTIC", page 21
SALES AUDIT	"SALES AUDIT", page 22
MDB	"MDB", page 24
CLOCK	"CLOCK", page 25
OUT OF SERVICE	"OUT OF SERVICE", page 25
PRODUCT QTY	"PRODUCT QTY", page 26
MAINTENANCE	"MAINTENANCE", page 27
RFID CARD	"RFID CARD", page 28
TUNING MOTORS	"TUNING MOTORS", page 28
CALIBRATION PRODUCT FLUX	"CALIBRATION PRODUCT FLUX", page 28
PRODUCT AUDIT FLUX	"PRODUCT AUDIT FLUX", page 29
ID MACHINE	"ID MACHINE", page 29
VARIFLEX	"VARIFLEX", page 30
VARIGRIND N	"VARIGRIND N", page 31
MILKER	"MILKER", page 32

Navigate the menu

To navigate the menu, use the action keyboard. See "Panel description", page 5. Below, a list of common actions.

To...	Tap button...
go to the next function	1
go to the previous function	6
go to the next parameter of the selected function	2
go to the previous parameter of the selected function	3
increase the parameter value	4
decrease the parameter value	5

3.2.3 BUTTON N



Setup mode > 1=PROGRAMMING (button 1) > BUTTON N

Introduction

This programming function allows configuring the parameters of the selection [n]. The following dispensing modes can be set.

- **FUNCTIONING:** Dispensing is enabled.
- **INHIBITED:** Dispensing is disabled.
- **PRESELECTIONS:** The [n] selection can also be configured as a preselection button. In this case, when pressed, it will give access to a predefined number of selections.

FUNCTIONING parameters

Parameter	Values	Description
PROGRAMMING	PARTIAL TOTAL	• PARTIAL: Shows all set parameters (other than zero). • TOTAL: Shows all parameters.
COFFEE WATER	0-50.0	Quantity of water in the cup If set to 0, espresso is not dispensed. Only instant beverages are dispensed.
COFFEE SEQUENCE	0-1	Coffee and instant products dispensing order • 0: Coffee is dispensed after instant products. • 1: Coffee is dispensed before instant products.
BREWER PRESSURE	0-10	Dispensing chamber pressure customization
PRODUCT N	0.0-50.0	Engine rotation time to adjust the product dose dispensed If set to 0, the product is not dispensed. Note: This field is available if calibration has not been performed. Otherwise, the field DOSAGE GRAMS PRODUCT N is displayed.
DOSAGE GRAMS PRODUCT N	0.0-50.0	Grams of product to be dispensed Note: This field is available if calibration has been performed. Otherwise, the field PRODUCT N is displayed.
START DELAY PROD N	0.0-50.0	Delay time of the engine
BREAKS NUMBER	0-2	Number of temporary interruptions of the engine rotation during a dispensing cycle
COFFEE GRAMS GRINDER	0.0-20.0	Ground coffee quantity for the espresso
LATTE-MACCHIATO START-BREWER	0.0-50.0	For Latte macchiato selection, delay between milk and espresso dispensing cycle
PREINFUSION	0-15	Enables/disables the preinfusion function and sets its duration. If enabled (seconds value set from 1 to 15), after the coffee ground dose is compressed, water is dispensed for one second, then the machine pauses for the set number of seconds. The dispensing cycle is then resumed. If disabled (seconds value set to 0), the preinfusion function is not performed.
PRODUCT LM	0.0-50.0	Amount of milk dispensed during the second dispensing cycle. If set to 0, the milk is not dispensed.
START DELAY PRODUCT LM	0.0-50.0	Delay of the second milk dispensing cycle
BREAKS NUMBER	0-2	Number of temporary interruptions of the engine rotation during the second milk dispensing cycle

WATER N TIME	0.0-50.0	Opening time of the instant solenoid valve to adjust the quantity of dispensed water
START DELAY WATER N	0.0-50.0	Waiting time before water is dispensed into the mixing bowl
MIXER N	0.0-50.0	Mixer fan rotation If set to 0, the mixer does not rotate.
START DELAY MIXER N	0.0-50.0	Delay of the mixer fan rotation
MIXER SPEED N	LOW MEDIUM HIGH	Mixer rotation speed
WATER LM TIME	0.0-50.0	Amount of water dispensed during the second milk dispensing cycle If set to 0, the water is not dispensed.
START DELAY WATER LM	0.0-50.0	Delay of the water dispensing during the second milk dispensing cycle
MIXER LM	0.0-50.0	Mixer fan rotation time for the second milk dispensing cycle If set to 0, the mixer does not rotate.
START DELAY MIXER LM	0.0-50.0	Delay of the mixer fan rotation for the second milk dispensing cycle
MIXER LM SPEED	LOW MEDIUM HIGH	Mixer rotation speed for the second milk dispensing cycle
EV FRESH-MILK	0.0-50.0	Amount of fresh milk into the dispensed beverage If set to 0.0, milk is not dispensed.
EV FRESH MILK DELAY	0.0-50.0	Milk dispensing delay
FRESH MILK	Hot no Foam Hot Classic Hot Fluffy Hot Barista Cold No Foam Cold Classic Cold Fluffy Cold Barista	Milk foam type of the current selection
EV AIR FRESH-MILK	0.0-50.0	Air solenoid valve opening time
EV AIR FRESH-MILK DELAY	0.0-50.0	Delay between the milk dispensing and the air solenoid valve opening
TEMPERATURE ESPRESSO	75-110	Espresso water temperature
TEMPERATURE TEMP. EV1	75-98	Temperature of the water in bowl 1
TEMPERATURE TEMP. EV2	75-98	Temperature of the water in bowl 2
TEMPERATURE TEMP. EV3	75-98	Temperature of direct water in the cup
TEMPERATURE TEMP. EV4	75-98	Temperature for lateral water

TEMPERATURE LATTE MACCH	75-98	Water temperature of the second milk in the “Latte Macchiato” selections
GRANULOMETRY	DISABLED FINE REFERRING ROUGHLY	Grinder position • DISABLED: The grinder position is not taken into account for the beverage dispensing. • FINE: Before the beverage dispensing, the grinder is adjusted to obtain a “fine granulometry” (10 degrees to close grinders referring to the standard value). • REFERRING: The grinder is adjusted to its reference position before the beverage dispensing. • COARSE: Before the beverage dispensing, the grinder is adjusted to obtain a “roughly granulometry” (10 degrees to opening grinders referring to the standard value).
TEA BAG	0-3	Enables/disables the tea bag dispensing. • 0: Inhibited • 1/2/3: Tea bag to be dispensed.
JUG	0-10	Number of times the beverage dispensing is repeated to fill a jug. If set to 0, beverage dispensing is not repeated.
SELECTION NAME [XX]	STANDARD CAPPUCCINO CAPP-CIOC LATTE MACCHIATO CAFE LATTE ESPRESSO ESPRESSO MACCHIATO MOCACCINO CHOCOLATE CHOCO-MILK HOT WATER MILK CAFE AU LAIT INSTANT COFFEE TEA INSTANT WHITE STRONG CHOCO BARLEY BARLEY CAPPUCCINO CAFE MACCHIATO CUSTOM	Beverage name displayed on the screen during dispensing. • Standard: The machine will display a standard message (“beverage N under preparation”). • custom: The machine will display a custom message. To create a custom message, use the rheaAction tool.
SELECT GRINDER 2	0-1	This option is only available for models with two coffee beans canisters. Allows selecting the canister to be used: • 0: Left canister • 1: Right canister
INSTANT SCALING FACTOR	80-120%	Allows increasing/decreasing all the selection components (instant product quantity, water, mixer) by a certain percentage.

		Percentage can be set from 80 to 120. If set to 100, the selection remains unchanged.
COFFEE REPEAT	0-2	Number of espresso dispensing repetitions If set to 0, repetitions are disabled. Note: These repetitions affect the selection data in the "SALES AUDIT" section.
SELECTION REPEAT	2-9	Number of times the beverage dispensing is repeated Note: These repetitions do not affect the selection data in the "SALES AUDIT" section.

PRESELECTIONS parameters

Parameter	Values	Description
PRESELECTION	SELECTIONS 25-36 SELECTIONS 37-48 JUG	Selections to which the button of the selection [n] gives access SELECTIONS 25-36: The button of selection [n] gives access to selections from 25 to 36. SELECTIONS 37-48: The button of selection [n] gives access to selections from 37 to 48. JUG: Allows enabling/disabling the jug option on each selection.
PRESELECTION NAME	Standard DECAF LACTOSE MILK SUGAR F.MILK COFFEE COFFEE 2 VANILLA Custom	Available names for preselections
ENABLE PRESEL BUTTON "N"	YES NO	Allows enabling/disabling the jug option on each selection.

3.2.4 RESET A SELECTION PARAMETERS



Setup mode > 1=PROGRAMMING (button 1) > BUTTON N

Procedure

1. Tap **button 1** until you get to the desired selection, then tap **button 2**.
2. Press the **PROG** button: a confirmation message is displayed.
3. Tap **button 10** to confirm or **button 9** to cancel.

3.2.5 PRICES



Setup mode > 1=PROGRAMMING (button 1) > PRICES

Parameters

Parameter	Values	Description
PRICE [N]	0-65000	Price of selection [N]

3.2.6 HAPPY PRICE



Setup mode > 1=PROGRAMMING (button 1) > HAPPY PRICE

Introduction

This function allows setting the standard price of selections in special time bands (i.e. “happy hour”).

Parameters

Parameter	Values	Description
PRICE [N]	0-65000	Price of selection [N]

3.2.7 COINS



Setup mode > 1=PROGRAMMING (button 1) > COINS

Parameters

Parameter	Values	Description
COIN [X]	0-65000	Value of coin [X] accepted by the coin box

3.2.8 TEMPERATURE



Setup mode > 1=PROGRAMMING (button 1) > TEMPERATURE

Parameters

Parameter	Values	Description
TEMPERATURE HEATER	0-40	Heating temperature of the coffee brewer

3.2.9 MISCELLANEOUS



Setup mode > 1=PROGRAMMING (button 1) > MISCELLANEOUS

Parameters

Parameter	Values	Description
MACHINE CODE [X]	0-65535	Code assigned to the specific machine
MESSAGE NUMBER	0-7	Message displayed in standby mode 0: "Place your cup" 1: "Take a moment to relax" 2: "Fresh milk" 3: Custom message configurable with Rheaction 4: "Enjoy a break" 5: "Always at your service" 6: "Insert coins" 7: "Hello + <date and time>"
COIN-MECH TYPE	PAR. SING. VEND. PAR. MULT. VEND. EXECUTIVE PRICE HOLDING MDB	Payment system communication options
PROG MENU ACCESS CODE	00,111-999	Allows setting a pin code for accessing the programming menu. If set to 00, password is disabled.
FAN TIME MIN	0-180	Duration of powder suction fan activation after a dispensing cycle
BEEP TIME	0.0-1.3	Beep duration at the end of any procedure
DECIMAL NUMBER	0-3	Number of decimals for price selection and inserted credit
LANGUAGE	English Multilanguage	Interface languages enabled
SELECTION STOP	0-1	Enables/disables the stop function. If enabled, the beverage dispensing can be stopped. 0: Disabled 1: Enabled
FIRST INSTALLAT.	0-1	If set to 0, the machine water circuit will automatically fill up the next time it is turned on.
UNINSTALLATION	-	Allows emptying the water circuits.
CURRENT LANGUAGE	All available languages are displayed.	Allows choosing a language other than English when the MULTILANGUAGE mode is selected.

Parameter	Values	Description
SUMMERTIME	0-1	Daylight saving time option • 0: Disabled • 1: Enabled
PRODUCT MILK LM N	0-7	Number of the canister to be used for the second milk dispensing cycle
LM MILK WATER NUMBER	0-4	Water valve to be used for the second milk dispensing cycle
ACTIVE. H2O FILTER RESET	0-1	Allows resetting the water filter decounter.
DRIPTRAY IDENTIF.	0-1	If set to 1, when the jug option is selected ("Beverage menu"), the machine waits for the drip tray to be removed before starting the dispensing cycle.
COFFEE SENSOR	0-1	Enables/Disables the sensor for the coffee beans canister. • 0: Disabled • 1: Enabled
F.MILK TOPPING-SWITCH	0-1	Enables/disables the use of powdered milk when fresh milk is finished. This option is only available when the Venturi milker model is enabled.
FREE VEND ENABLE	0-2	Free beverages dispensing mode • 0: No free beverages are dispensed. • 1: Only one free beverage is dispensed. • 2: All beverages are dispensed for free, until this option is set to 0 again.
ENABLE DATA AUDIT BEFORE	0-1	• 0: Sales statistics are recorded after the beverage dispensing. • 1: Sales statistics are recorded before the beverage dispensing.
CUP SENS.THRESH.	1-180	Threshold value for detecting the presence or absence of a cup. The value is calculated by taking the average between the cup presence reading value and the cup absence reading value.
SET FREE VEND INS HOURS	0-225	Number of hours the free beverages dispensing mode is active. At the end of the set number of hours, the value is set back to its normal settings.
SIDE WATER PUMP	0-4	Enables side hot water.
DA ROTATION	0-1	Audit data management • 0: automatic, data scrolls automatically at 3 s. intervals. • 1: manual, data can be scrolled manually with button 4 (next) and button 5 (previous).

Parameter	Values	Description
PL FOR CASH	0-1	Price for payment in cash • 0: Refers to price list 1. See "PRICES", page 18 • 1: Refers to the "happy price" list. See "HAPPY PRICE", page 18
PL FOR CASHLESS	0-1	Price for cashless payments • 0: Refers to price list 1. See "PRICES", page 18 • 1: Refers to the "happy price" list. See "HAPPY PRICE", page 18
QUICK MENU ACCESS CODE	00,111-999	Allows setting a pin code for accessing the data or the cleaning/rinsing menu. If set to 00, password is disabled.

3.2.10 DIAGNOSTIC



Setup mode > 1=PROGRAMMING (button 1) > DIAGNOSTIC

Parameters

Parameter	Values	Description
ENABLE DISPLAY TEMPERA.	0-1	• 0: Stand-by message and the water temperature is not displayed. • 1: Stand-by message and the water temperature is displayed.
VOLTAGE VOLT	-	Voltage value intended to supply devices at 24 Vdc
TEST MODEM	-	To perform a test on the modem, tap button 4. Note: This field is only available if the PROTOCOL field in the "ID MACHINE" page is set to TM-ON .
TEST GROUP ABSORPTION	-	Performs a test for verifying which brewer component is responsible for excessive current consumption during the up and down movements. To perform the test, tap button 4. At the end of the test, six pairs of values will be displayed. Each pair will be displayed on screen for 5 seconds: • Pair 1: average consumption (over 3 cycles) • Pair 2: maximum consumption • Pair 3: time of consumption • Pair 4: cycle 1, average consumption • Pair 5: cycle 2, average consumption • Pair 6: cycle 3, average consumption Pair values are not saved.
TEST MOTOR ABSORPTION	-	Performs a power consumption test on the motor. To perform the test, remove the Variflex and tap button 4. At the end of the test, the soaking up value and the soaking down value of the gear motor are displayed. These values are not saved.

3.2.11 SALES AUDIT



Setup mode > 1=PROGRAMMING (button 1) > SALES AUDIT

Introduction

This page allows monitoring all dispensed beverages data.

Parameters

Parameter	Description
TOTAL SELECTIONS	Total number of dispensed paid beverages
PART. SELECTIONS	Total number of dispensed paid beverages after data reset. See "Reset partial data", page 24.
PRESEL NUM N°	Number of times the preselection button [N] has been tapped
PART. SEL. [N]	Number of dispensed paid beverages referred to product [N]
PART. SEL. US	Number of dispensed paid beverages involving the external module
PART. SEL. [N] HAPPY	Number of dispensed paid beverages referred to product [N] during "happy hour" time bands
PART. SEL. HAPPY US	Number of paid beverages dispensed during "happy hour" time bands and involving the external module
PART. SEL. [N] FREE.JUG	Number of dispensed beverages referred to product [N] paid with the free jug method
PART. SEL. FREE.JUG US	Number of dispensed beverages involving the external module and paid with the free jug method
TOTAL TESTS	Total number of dispensed test beverages
PARTIAL TESTS	Total number of dispensed test beverages after data reset
TOTAL FREE	Total number of dispensed free beverages
PART. FREE	Total number of dispensed free beverages after data reset
TOTAL MONEY	Total gain
PARTIAL MONEY	Total gain after data reset
TOTAL CASH	Total gain on products paid in cash
PART CASH	Total gain on products paid in cash after data reset
N.TOT.SEL. CASH	Total number of dispensed beverages paid in cash
N.PART.SEL. CASH	Total number of dispensed beverages paid in cash after data reset
TOTAL CASH-BOX	Total cash gain
PART. CASH-BOX	Total cash gain after data reset
TOTAL LOADED ON CARD[N]	Total amount loaded on the RFID card [n]
PART. LOADED ON CARD[N]	Total amount loaded on the RFID card [n] after data reset
TOTAL UNLOADED ON CARD[N]	Total gain on products paid with the RFID card [n]
PART. UNLOADED ON CARD[N]	Total gain on products paid with the RFID card [n] after data reset
TOTAL SEL.CARD[N]	Total number of dispensed beverages paid with the RFID card [n]
PART. SEL.CARD[N]	Total number of dispensed beverages paid with the RFID card [n] after data reset

3.2.12 RESET PARTIAL DATA



Setup mode > 1=PROGRAMMING (button 1) > SALES AUDIT

Procedure

This procedure allows resetting all partial data about the dispensed selections.

1. Tap **button 2** until you get to the **PART. SELECTIONS**.
2. Tap **button 5**: a confirmation message is displayed.
3. Tap **button 10** to confirm or **any other button** to cancel.

3.2.13 MDB



Setup mode > 1=PROGRAMMING (button 1) > MDB

Parameters

Parameter	Values	Description
EJECTION TUBES B: 4-5-7-8-9-10	-	Tube from which coins are dispensed to empty the coin box.
ESCROW ENABLE	0-1	Enables/disables the change giver. • 0: Enabled • 1: Disabled
CREDIT MAX	0-60000	Maximum amount of credit accepted
REST MAX	0-60000	Maximum amount of change accepted
SELL TYPE	0-1	Single/multiple vend: to keep or not residual credit amount after a dispensing cycle. • 0: after a dispensing cycle, the amount of residual credit is not held. • 1: after a dispensing cycle, the amount of residual credit is held.
TOKEN VALUE	0-10000	Value of token
COIN REST [n]	0-1	Coin accepted or not as change, if available
COIN NO REST [n]	0-1	Coin accepted or not when the machine is unable to give change
BILL VALIDATOR	0-2	• 0: The validator is always enabled. • 1: The validator is enabled only if the change giver has at least 5 euro inside. • 2: The validator is enabled only if cashless key is inserted.
MDB TUBES VALUE	-	Shows how much money is in the coin box.

3.2.14 CLOCK



Setup mode > 1=PROGRAMMING (button 1) > CLOCK

Parameters

Parameter	Values	Description
HOUR	00:00-23:59	Current time
DAY	01-31	Current day
MONTH	1-12	Current month
YEAR	00-99	Current year
DAY OF WEEK	MONDA TUESD WEDNE THURSDAY FRIDA SATURDAY SUNDA	Current week day
START FN : HAPPY HOUR	00:00-23:59	Happy hour start time
END FN : HAPPY HOUR	00:00-23:59	Happy hour end time
SWITCHING ON MONDA..SUNDA	00:00-23:59	Time from which the machine stops dispensing beverages.
SWITCHING OFF MONDA..SUNDA	00:00-23:59	Time from which the machine resumes the beverage dispensing.
KILOWATT HOURS	-	Allows verifying the machine energy consumption.
RINSING	00:00-23:59	Time when the machine automatically performs a rinsing cycle.
TIME CLEANING MILK MOD	00:00-23:59	Time when the machine will display a message for performing the cleaning procedure of the Venturi milker.

3.2.15 OUT OF SERVICE



Setup mode > 1=PROGRAMMING (button 1) > OUT OF SERVICE

Parameters

Parameter	Values	Description
n. x off xx 00:00 01-01-2000	-	Latest twenty errors occurred in the machine.

3.2.16 PRODUCT QTY



Setup mode > 1=PROGRAMMING (button 1) > PRODUCT QTY

Parameters

Parameter	Values	Description
PRODUCT QTY [N]	0.0-6000.0	Allows setting the quantity of product in the canister. Any time a selection uses the selected product, the set value decreases of the used quantity (or duration) in the recipe. Note: Decounter No. 1 is currently not configurable for this model.
PROD. N WARNING THRESHOLD	0.0-6000.0	Time after which a warning message is displayed.
ABIL STOP PROD [N]	0-1	If set to 1, the dispensing of beverages related to the specific product is inhibited when out of capacity. The message "Selection not available" is displayed on the screen.

3.2.17 MAINTENANCE



Setup mode > 1=PROGRAMMING (button 1) > MAINTENANCE

Parameters

Parameter	Values	Description
WATER FILTER CNT	0-60000	Number of dispensing cycles before external filter cartridge needs to be replaced. When 50 cycles are left, the message "Change water filter" is displayed. When the cycles run out, the message "Out of service water filter" is displayed and any dispensing is inhibited.
DEC. COF. BREWER	0-1000	Number of espresso dispensing cycles before the coffee brewer needs to be serviced. When 10 cycles are left, the message "Make brewer cleaning" is displayed. When the cycles run out, the message "Out of service cleaning brewer" is displayed and the dispensing of espresso-based beverages is inhibited.
DEC. COF. GROUNDS	0-1000	Number of espresso dispensing cycles before grounds container needs to be emptied. When 10 cycles are left, the message "Remove coffee grounds" is displayed. When cycles run out, the message "Out of service coffee grounds" is displayed and the dispensing of espresso-based beverages is inhibited.
INSERT CODE	111-999	Allows inserting the pin code for accessing the counter menu.
BLOCKING COUNTER	0-10000	Number of beverages that can be dispensed, after which the machine stops operating. If set to 0, the functionality is disabled.
PERC. THRESHOLD	0-50%	Warning threshold indicating the percentage of beverages the machine can still dispense before it stops operating. A warning message is displayed when the percentage is reached. If set to 0, the functionality is disabled.
MAINTEN. COUNTER	0-655000	Number of dispensed beverages before general maintenance needs to be performed.
MAINT. THRESHOLD	0-655000	Warning threshold for the maintenance decounter. When the maintenance decounter reaches the set threshold, the message "Forthcoming scheduled maintenance" is displayed.

3.2.18 RFID CARD



Setup mode > 1=PROGRAMMING (button 1) > RFID CARD

Parameters

Parameter	Values	Description
MAX. CREDIT CARD	0-60000	Maximum credit that can be loaded to the RFID card
COIN [X] CARD	0-1	When the RFID card is inserted 0: Coin [X] is accepted. 1: Coin [X] is not accepted.
COIN [X] NO CARD	0-1	When the RFID card is not inserted 0: Coin [X] is accepted. 1: Coin [X] is not accepted.
DISCOUNT CARD	0% : -80%	When the RFID card is inserted, percentage discount to be applied in happy hour time slots.
SECURITY LEVEL	1-4	Allows setting a security level to access any functionality.

3.2.19 TUNING MOTORS



Setup mode > 1=PROGRAMMING (button 1) > TUNING MOTORS

Parameters

Parameter	Values	Description
TUNING MOTOR [N]	±30%	Allows increasing/decreasing by +/- 30% the engine [n] of every single product. This change will affect all product engine activations for all selections.
TUNING GRINDER 1	±20%	Allows increasing/decreasing by +/- 20% the time required to activate the coffee grinder 1 engine. The change applies to all activations.
TUNING GRINDER 2	±20%	To increase or decrease of +/- 20% time needed to activate coffee grinder 2 engine. The change applies to all activations.

3.2.20 CALIBRATION PRODUCT FLUX



Setup mode > 1=PROGRAMMING (button 1) > CALIBRATION PRODUCT FLUX

Introduction

This programming function allows performing the calibration of the grinder(s) and of the instant products.

Parameters

Parameter	Values	Description
CALIBRATE COFFEE PUSH PROG	-	Allows calibrating the grinder. See "Calibrate the grinder", page 37.
CALIBRATE MOTOR [N] GR/SEC	0.0-25.0	Allows calibrating the instant products on motor [n]. See "Calibrate instant products", page 38.
CALIBRATE COF 2 PUSH PROG	-	Allows calibrating the grinder 2, if available. See "Calibrate the grinder", page 37.

3.2.21 PRODUCT AUDIT FLUX



Setup mode > 1=PROGRAMMING (button 1) > PRODUCT AUDIT FLUX

Parameters

Parameter	Values	Description
PRODUCT N USED PART.G	-	Displays the partial quantity of delivered products.
PRODUCT N USED TOT.G	-	Displays the total quantity of delivered products.

3.2.22 ID MACHINE



Setup mode > 1=PROGRAMMING (button 1) > ID MACHINE

Parameters

Parameter	Values	Description
CODE ID 101	0-99999999	Machine number
CODE ID 104	0-99999999	Location number
CODE ID 106	0-99999999	Machine configuration
ADDRESS VIDTS	0-999	Connection address for DDCMP protocol
PROTOCOL	TM-ON DDCMP 2400+ + DEX DEX reset DDCMP 9600 baud DDCMP 1200 baud TEST FUN IRDA	Protocol to be used for transferring data from the machine to an external device.

3.2.23 VARIFLEX



Setup mode > 1=PROGRAMMING (button 1) > VARIFLEX

Parameters

Parameter	Values	Description
BREWER SIZE	0-1	Coffee brewer diameter 0: 36 mm, which contains about 9 gr of coffee. 1: 45 mm, which contains about 14 gr of coffee.
BREWER POSITION	0-1	Position of the coffee brewer percolation chamber in the standby phase 0: Closed 1: Opened
AUTOM. ADJUSTMENT F.TUNING	0-1	Enables/disables the coffee grinder automatic adjustment 0: Disabled 1: Enabled
ENCODER IMPULSE/GR	-	Pulse/gram value calculated after calibration
TAB DISSOLVE PAUSE SEC	0-1 000	Waiting time for the tablet dissolution during the brewer cleaning. If set to 0, the default time is applied (90 seconds).
ENCODER GRIND 2 IMPULSE/GR	-	Pulse/gram value calculated after calibration of grinder 2
GRINDER FUNCTION IM EN/GR	0-1	Acts on the pulse/gram value calculated after calibration. 0: Resets the value to seconds. 1: Keeps the value to grams.
GRINDER 2 FUNCTION IM EN/GR	0-1	Acts on the pulse/gram value calculated after calibration of grinder 2. 0: Resets the value to seconds. 1: Keeps the value to grams.
DELIVERY PHASE FASTER	0-1	Time it takes for the message "Remove your cup" to appear on the screen after the beverage dispensing. 0: The message is displayed before Variflex switches back to idle position. 1: The message is displayed after Variflex switches back to idle position.
RESET GROUP IN ERROR	0-1	If enabled, the machine automatically restarts when variflex has not been running for more than 60 minutes. If the restart fails three times, the machine stops restarting. 0: Disabled 1: Enabled

Parameter	Values	Description
RINSE AFTER DOWN TIME	0-1 00 HOUR 06 HOUR 12 HOUR 24 HOUR	If enabled, the machine automatically starts a rinsing cycle after the set idle period. • 0: Disabled • 1: Enabled

3.2.24 VARIGRIND N



Setup mode > 1=PROGRAMMING (button 1) > VARIGRIND N

Parameter	Values	Description
P. GRINDER [N]	0-500	Allows adjusting the position of the Varigrind blades. • Button 4: Opens the blades. • Button 5: Closes the blades.
SEL.RIF.GRIND [N]	0-48	Number of the reference selection. During the dispensing of this selection, reference data will be collected.
HABIL.REG.GRAN [N]	0-2	Enables/disables the grinder self-adjustment. • 0: Disabled • 1: Enabled • 2: Starts the self-adjustment of the grinder.
REFERRING FLUX [N]	0-9.00	Selection reference flux. The varigrind will self-adjust according to the set value.
NUMBER SAMPLING GRINDER [N]	0-100	Number of dispensing cycles after which the varigrind checks the cc/seconds flux to self-adjust.
REFERRING POSIT. GRINDER [N]	0-600	Coffee grinders reference position (potentiometer current value)

3.2.25 MILKER



Setup mode > 1=PROGRAMMING (button 1) > MILKER

Venturi model parameters

Parameter	Values	Description
TEMPERATURE STEAM	0-128	Pressure boiler temperature If set to 0, the milker is disabled.
RINSING PERIOD	0-900	Waiting time for the milker automatic rinsing after a fresh milk beverage delivery.
RINSE MILK MOD	0-1	Enables/disables the milker rinsing. • 0: Disabled • 1: Enabled
RINSE MILK MOD DELAY	0.0-10.0	Rinse start delay after dispensing
MILK SENSOR	0-3	Allows disabling all sensors or selecting the one/s to be used. • 0: Disables all sensors. • 1: Enables both the optical and the capacitive sensors. • 2: Enables only the optical sensor. • 3: Enables only the capacitive sensor.
CLEAN USER MSG	0-1	If set to 1, a message for performing the milker cleaning is displayed at startup.
CLEAN TIME UPDATE	0-1	• 0: The milker cleaning is performed at the time set in TIME CLEANING MILK MOD (See "CLOCK"). • 1: The milker cleaning is automatically performed each day, at the same time of the latest cleaning cycle.

Indux model parameters

Parameter	Values	Description
TEMPERATURE STEAM	0-128	Pressure boiler temperature If set to 0, the milker is disabled.
HDE DELAY AFTER DRINK min	0-30	Waiting time for the milker automatic rinsing after a fresh milk beverage delivery. Note: If the elapsed time after the last selection is longer than the emptying period set time, the machine will still start an internal rinse cycle (rinsing liquid moves to waste tank at the end of this procedure). Note: The ENABLE WASTE TANK SENSOR option must be enabled.
CLEANING PERIOD	24H 48-72H	Milker cleaning frequency • 0: 24H • 1: 48-72H Note: The cleaning frequency is extended to 72 hours only if the milker has not been used in the first 24 hours since the last cleaning.
CONDUCTIBILITY SENSOR	0-1	Enables/disables the conductivity sensor. • 0: Disabled • 1: Enabled Note: This type of sensor allows monitoring the quantity and/or quality of the cleaning liquid and the presence of milk without cooling unit.
CHECK MILK PRESENCE	0-3	Allows disabling all sensors or selecting the one/s to be used. • 0: Disables all sensors. • 1: Enables only the conductivity sensor. • 2: Enables only the fridge sensor. • 3: Enables both the conductivity and the fridge sensors.
CHECK WASTE TANK	0-1	Enables/disables the waste tank check. The message “Empty the waste liquid tank” is displayed when the sensor detects a high liquid level.
HOT NO FOAM AIR	0	Air percentage for “Hot no foam” type, that is hot milk without foam
HOT NO FOAM SPEED PUMP	40-70	Speed pump percentage for “Hot no foam” type, that is hot milk without foam
HOT CLASSIC FOAM AIR	20-60	Air percentage for “Hot classic foam” type, that is hot milk with traditional foam, like at the café
HOT CLASSIC FOAM SPEED PUMP	30-100	Speed pump percentage for “Hot classic foam” type, that is hot milk with traditional foam, like at the café
HOT FLUFFY FOAM AIR	60-100	Air percentage for “Hot fluffy foam” type, that is air hot milk with a thick and consistent foam, due to the presence of smaller air bubbles. Similar to whipped cream

Parameter	Values	Description
HOT FLUFFY FOAM SPEED PUMP	60-100	Speed pump percentage for "Hot fluffy foam" type, that is hot milk with a thick and consistent foam, due to the presence of smaller air bubbles. Similar to whipped cream
HOT BARISTA FOAM AIR	20-60	Air percentage for "Hot barista foam" type, that is hot milk with extremely thick foam, configurable in the maximum range for Latte art
HOT BARISTA FOAM SPEED PUMP	0-100	Speed pump percentage for "Hot barista foam" type, that is hot milk with extremely thick foam, configurable in the maximum range for Latte art
COLD NO FOAM AIR	0	Air percentage for "Cold no foam" type, that is cold milk without foam
COLD NO FOAM SPEED PUMP	30-55	Speed pump percentage for "Cold no foam" type, that is cold milk without foam
COLD CLASSIC FOAM AIR	20-60	Air percentage for "Cold classic foam" type, that is cold milk with traditional foam, like at the café
COLD CLASSIC FOAM SPEED PUMP	45-100	Speed pump percentage for "Cold classic foam" type, that is cold milk with traditional foam, like at the café
COLD FLUFFY FOAM AIR	60-100	Air percentage for "Cold fluffy foam" type, that is cold milk with a thick and consistent foam, due to the presence of smaller air bubbles. Similar to whipped cream
COLD FLUFFY FOAM SPEED PUMP	45-100	Speed pump percentage for "Cold fluffy foam" type, that is cold milk with a thick and consistent foam, due to the presence of smaller air bubbles. Similar to whipped cream
COLD BARISTA FOAM AIR	0-100	Air percentage for "Cold barista foam" type, that is cold milk with extremely thick foam, configurable in the maximum range for Latte art
COLD BARISTA FOAM SPEED PUMP	0-100	Speed pump percentage for "Cold barista foam" type, that is cold milk with extremely thick foam, configurable in the maximum range for Latte art
DETER.DISSOLVING	0-240	Tablet dissolving time
CHECK TANK MILK TEMPER.	0-1	Enables/disables the cold milk tank temperature sensor. Note: This sensor allows monitoring the milk temperature. If the temperature exceeds the safety tolerance, fresh milk-based beverages are disabled and the milk has to be replaced after a sanitary cleaning cycle.
TUNING M.PUMP +/- 30	-30/+30	Allows calibrating or manually setting the working speed percentage of the milk pump. To start the calibration, press the PROG button.

3.3 Cleaning/rinsing

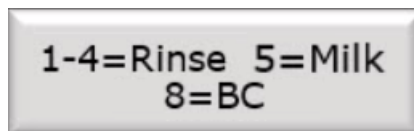
3.3.1 CLEANING-RINSING MENU

How to access it

1. Access the setup mode (See "How to access it", page 9).
2. To access the cleaning-rinsing menu, tap **button 4**.

3. If necessary, empty the drip tray, then tap **button 10**.
4. Connect the machine to the water supply, then tap **button 10**.
5. Remove all coffee grounds, then tap **button 10**: the cleaning/rinsing menu is displayed.

Menu overview



1-4=Rinse "Rinse the hydraulic circuit", page 35

5=Milk "Clean the milker", page 35

8=BC "Clean the coffee brewer", page 37

3.3.2 RINSE THE HYDRAULIC CIRCUIT

 **Cleaning-rinsing menu > 1-4=Rinse**

This procedure allows rinsing the components of the machine hydraulic system, such as the coffee brewer, the mixing bowls and the direct hot water circuit.

1. Prepare more cups as water is dispensed multiple times.
2. Do what follows:

To rinse...	Then tap button...
the coffee brewer	1
the first mixing bowl	2
the second mixing bowl	3
the direct hot water circuit	4

3. When finished the cleaning-rinsing menu is displayed again.

Automatic rinsing

The automatic rinsing time can be set in the **RINSING** field. See "CLOCK", page 25.

A 10-second countdown warns that the rinsing is about to start.

 **CAUTION** Hot water drains through all nozzles.

Note: The automatic rinsing graphics can be customized in the RheaMedia2 software.

3.3.3 CLEAN THE MILKER

 **IMPORTANT** To perform this procedure, the milker must be connected and enabled. To enable it, See "MILKER", page 32.

Procedure for the Venturi model



Cleaning-rinsing-menu > 5=Milk (button 5)



Setup mode > button 1 and 10 simultaneously

1. Add the detergent into the milker tray, then tap **button 10**, then **button 10** again: the cleaning cycle starts and repeats 12 times.
2. When finished, fill the milker tray with cold water, then tap **button 10** and **button 10**: the rinsing cycle starts and repeats 12 times.

Note: If the **CLEAN TIME UPDATE** parameter (See "MILKER", page 32) has been set to 1, the message "Cleaning Time Milker Update" is displayed on the screen. This means that the cleaning procedure will be automatically performed the next day at the same time.

3. When finished, the cleaning/rinsing menu is displayed.

Procedure for the Indux model



Cleaning-rinsing menu > 5=Milk (button 5) > button 10



Setup mode > button 1 and 12 simultaneously

1. Perform the checks displayed on the screen.
2. Place a cup under the nozzles, then tap **button 10**: the rinsing cycle starts and repeats a set number of times, then the jug (clean-mix container) is filled with hot water.
3. Wait for the detergent to dissolve.
4. When the detergent is dissolved, the milk tube starts sucking up the sanitizing liquid in the jug. Then the jug fills with hot water. This cycle repeats a set number of times.

Note: A message is displayed on the screen if the conductivity sensor detects too much or too little detergent. In that case, the procedure continues but another cleaning cycle is necessary.

5. When the cleaning cycle is finished, empty the waste tank and put the milk pipe in position. Then, tap **button 10** to refill the milker, or **button 9** to skip the refilling step.

Milker automatic rinsing

The automatic rinsing of the milker can be performed after a fresh milk beverage delivery or periodically, after a specified time. To set the milker automatic rinsing, see "MILKER".

A 10-second countdown warns that the rinsing is about to start.



CAUTION Hot steam drains through the fresh milk nozzle.

Note: The automatic rinsing graphics can be customized in the RheaMedia2 software.

3.3.4 CLEAN THE COFFEE BREWER



Cleaning-rinsing menu > 8=BC (button 8)

Procedure

1. Prepare more cups as water is dispensed multiple times.
2. Tap **button 8** to perform the procedure manually or **button 10** to perform it automatically: some water is dispensed through the brewer nozzle. Then the brewer opens.
Note: Performing the procedure automatically means that some steps are automatically confirmed.
3. Insert a cleaning tablet into the brewer, then tap **button 10**: the brewer closes and the tablet starts to dissolve.
Note: It takes two 19-minute cycles for the tablet to be dissolved. The espresso pump opens about every twenty seconds.
4. When the tablet has dissolved, the first rinsing cycle of the brewer starts: the water flows through the brewer every ten seconds for three times.
5. Wait for the rinsing cycle to finish. Then tap **button 10** to repeat the cycle or any other button to continue: the brewer opens.
6. Clean the filter with a brush.
7. To start the second rinsing cycle of the brewer, tap **button 10**: the water flows through the brewer every ten seconds for six times.
8. Wait for the rinsing cycle to finish. Then tap **button 10** to repeat the cycle or any other button to continue.
9. To make a coffee, tap any button other than 1: a coffee starts to be delivered. Alternatively, to end the procedure, tap **button 1**: some water is dispensed through each nozzle.
10. When finished, tap **button 10**: the cleaning/rinsing menu is displayed.

3.4 Calibration

3.4.1 CALIBRATE THE GRINDER



Setup mode > 1=PROGRAMMING (button 1)

1. In the "Programming menu", tap **button 1** until you get to the "CALIBRATION PRODUCT FLUX" function.
2. Tap **button 2** until you get to the **CALIBRATE COFFEE PUSH PROG** parameter to calibrate grinder 1, or to the **CALIBRATE COF 2 PUSH PROG** parameter to calibrate grinder 2.
3. Press the **PROG** button to start the procedure.
4. Remove the brewer, then press **PROG**.
5. Place the grounded coffee conveyor. Then weight a cup on a scale and place it under the nozzle.
6. Press **PROG**: coffee is grounded twice.
7. Weight again the cup, then do what follows:

Result	Action
The coffee net weight is 20 grams	Tap button 1 to continue.
The coffee net weight is not 20 grams	Choose one of the following procedures. Adjust the current weight value 1. Tap button 4 (+) and/or button 5(-) to adjust the weight value. 2. Tap button 1 to continue. Repeat the grinding 3. Tap button 2 to repeat the grinding. 4. Manually adjust the grinder opening position, or, if the Varigrind is present, tap button 4 to open or button 5 to close its blades. 5. Tap button 1 to grind again the coffee. 6. Go back to step 7 of the main procedure.

8. Reinstall the brewer and all the remaining components (coffee conveyor, carter, drip tray...), then press **PROG**: the machine starts saving the data. It automatically turns off and on again.
9. When finished, the impulse/grams ratio is displayed on the screen.
10. For any coffee beverage, the dose of ground coffee is now displayed in grams instead of seconds. To display the dose in seconds again, reset all parameters.

3.4.2 CALIBRATE INSTANT PRODUCTS



Setup mode > 1=PROGRAMMING (button 1)

1. In the "Programming menu", tap **button 1** until you get to the "CALIBRATION PRODUCT FLUX" function.
2. Tap **button 2** until you get to the **CALIBRATE MOTOR [N] GR/SEC** parameter.
3. Tare a cup on a scale and place it under the nozzle.
4. Press the **PROG** button: some product is dispensed.
5. Weight the product.
6. Tap **button 4 (+)** and/or **button 5 (-)** to adjust the grams value.
7. Tap **button 1** to confirm: the product dose is now displayed in grams.
8. To display the dose in seconds again, reset all parameters.

4 MAINTENANCE

4.1 Water circuit filling



Setup mode > 1=PROGRAMMING (button 1)

Enable water circuit filling

1. In the "Programming menu", tap **button 1** until you get to the "MISCELLANEOUS" function.
2. In **FIRST INSTALLAT.**, set the parameter to 0: the machine water circuit will automatically fill up the next time it is turned on.

Water filling cycle description

Phase	Description
1	The machine is switched on.
2	If present, the Varigrind is set to its standard position (280°).
3	When the cycle is finished, the FIRST INSTALLAT. parameter is automatically set to 1 to prevent the procedure from repeating at next power on.
4	The machine automatically restarts.

4.2 Water circuit emptying



Setup mode > 1=PROGRAMMING (button 1)

Procedure

1. In the "Programming menu", tap **button 1** until you get to the "MISCELLANEOUS" function.
2. Tap **button 2** until you get to the **UNINSTALLATION** parameter.
3. Put a tray under the nozzles.
4. Tap **button 10**: water is dispensed from all nozzles. When finished, the value in **FIRST INSTALLAT.** is automatically set to 0 to make the machine water circuit fill up the next time it is turned on.

4.3 Refill the Indux milker



Setup mode

Procedure

1. Tap **buttons 2 and 11** at the same time, the **button 10** to confirm.
2. Refill the milker.

5 TROUBLESHOOTING

Offcode	Context	Description	Solution
2	Connection error	OFF 2E: Executive Connection error OFF 2M: MDB Connection error OFF 2P: Parallel Coin Connection error	Check the connection between the machine and the payment system. Otherwise, change the payment system configurations.
3	Waste water	The drip tray is full.	Empty the drip tray and lay it back properly.
5	EAROM	An error in the program memory has been detected. OFF 5: EAROM write operation error OFF 5A: EAROM bank 1 write operation error OFF 5B: EAROM bank 2 write operation error	Replace the CPU card.
6	Water supply	OFF 6C: Water refilling procedure did not end successfully. OFF 6D: Too many continuous water refills without selections.	Check the connection between the machine and the water mains. Check for any water leaks.
7	Espresso circuit	An error in the Brewer/Espresso unit has been detected. OFF 7C: Error in the brewer position during infusion OFF 7D: Infusion too large. Possible failure of volumetric counter. OFF 7R: Volumetric counter (initial check)	Check the volumetric counter status.
8	Coffee brewer	Brewer motor failure. It should move freely. Along dispensing cycle OFF 8 A/B/C/G/H/I/L/P/Q/R: Incorrect movement of the brewer during delivery phase. OFF 8 a/b/c/d/e/f/s: Incorrect movement of the brewer during initial check.	Check the components of the gear engine: engine, pulleys, belt. Check the encoder board, the CPU board and the wirings. Check coffee grounds and hydraulic seals. Clear brewer.
9	Coffee beans	The volumetric coffee doser is faulty. OFF 9A: Shortage of coffee beans in left canister OFF 9B: Shortage of coffee beans in right canister OFF 9C: Shortage of coffee beans in left and right canister	Refill the canister(s) with coffee beans.
14	Water inlet	OFF 14A: Too many continuous selections without water refill.	Check the water level detection system.
16	Programming keyboard	A malfunction has been detected in the selection panel / switch / mechanism.	Verify that the PROG button is functioning.

Offcode	Context	Description	Solution
17	Keyboard/ Sugar +/- keys	A malfunction has been detected in the selection panel / switch / mechanism. • OFF 17A: Keyboard	Verify that the buttons for dosing the amount of sugar (+/-) work.
24	Power supply	A problem in the power supply unit has been detected. • OFF 24A/24B: One or more of the power supplies are indicating an under or over voltage situation.	Replace the power supply board of the machine.
31	Espresso coffee water	Temperature sensor is defective, disconnected or reading is out of range. • OFF 31A/B/C: Water temperature. A (high) B (low) C (sensor) • OFF31H/V: Water temperature	Check the machine heating elements and connections.
32	Coffee brewer	Temperature sensor is defective, disconnected or reading is out of range. • OFF 32A/B/C: Brewer temperature. A (high) B (low) C (sensor)	Check the machine heating elements and connections.
36	Airbreak probe	OFF 36C: Airbreak probe in induction machines is disconnected or reports a temperature of 0 °C.	Check the airbreak probe.
41	Water Filter	Water filter is worn out.	Replace the water filter.
44	Products decounter	A canister is empty. No product can be dispensed.	Refill the canister(s).
54	Milker-CPU connection	Communication problem between the machine and the milker.	Check the connection between the machine and the milker.
57	Milker (Indux model)	OFF 57A: communication problem between the machine and the milker.	Check the connection between the machine and the milker.
71	Milker (Indux model)	Cleaning procedure error • OFF 71D: Not enough detergent. • OFF 71E: Too much detergent. • OFF 71G: Too aggressive detergent (additional rinsing are performed to preserve tubes). • OFF 71F: Waste tank is full.	OFF 71D/E/G: Repeat the milker cleaning procedure with a suitable detergent. OFF71F: Empty the waste tank.
121	Milker (Venturi model)	Water refilling procedure did not end successfully.	Check the water connection.
122	Milker (Venturi model)	Too many continuous selections without water refill.	Check the following elements: • pressure boiler water level probe • milker pump • water circuit of the machine • selections settings

Offcode	Context	Description	Solution
123	Milker (Venturi model)	Water temperature • OFF 123A: Too high • OFF 123B: Too low • OFF 124C: Not detected. The probe is faulty or disconnected.	Check the milk temperature sensing probe.



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