

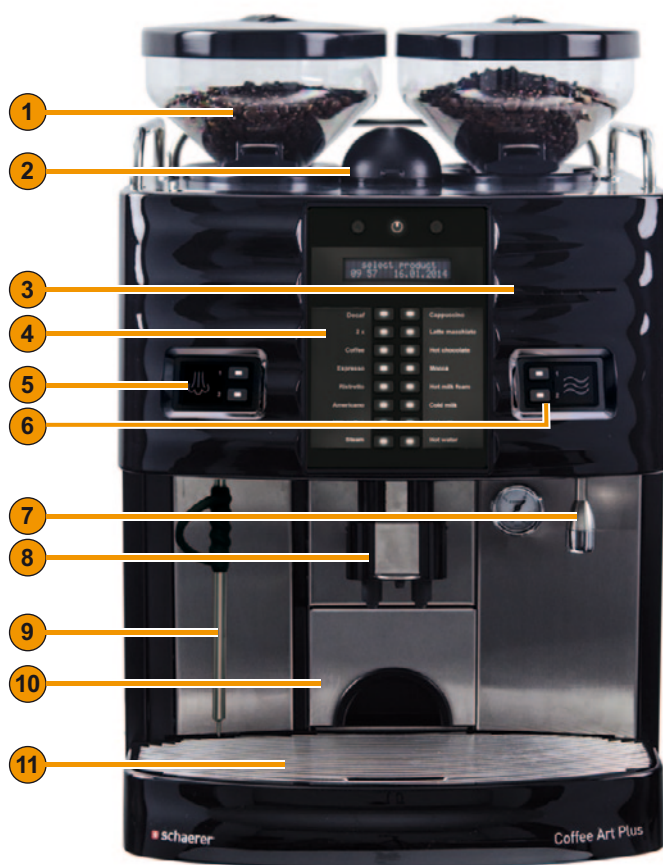
Schaerer Coffee Art Plus

Operating instructions

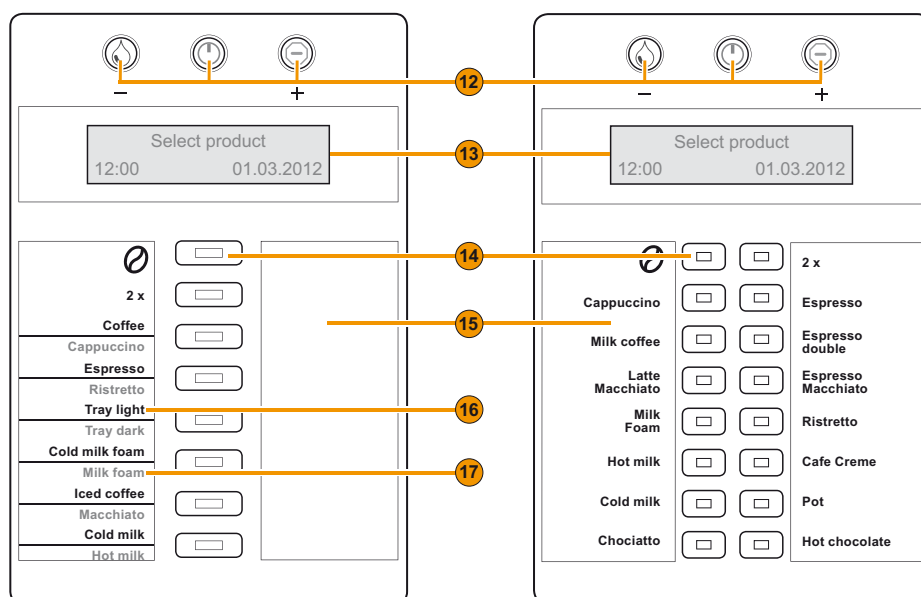
V07 / 01.2018



- 1 Bean hopper with cover
- 2 Inlet for ground coffee/cleaning tablets (cleaning programme)
- 3 Card reader
- 4 User panel (see below)
- 5 Buttons [steam]
- 6 Buttons [hot water]
- 7 Hot water outlet
- 8 Beverage outlet
- 9 Steam wand (option)
- 10 Grounds container
- 11 Drip tray with drip grid
- 12
 - Button [cleaning/minus]
 - Button [ON/OFF]
 - Button [stop/plus]
- 13 Display
- 14 Programmable beverage buttons
- 15 Button labelling
- 16 Beverage level 1
- 17 Beverage level 2



Schaerer Coffee Art Plus



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Operating instructions

V07 / 01.2018

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Table of contents

Introduction 6

Welcome	6
Signs and symbols	6

General safety notes 7

User at risk!	7
Risk of machine damage!	10

Product description 11

Intended use	11
Beverage types and output	11
Models	12
Scope of delivery and accessories	13
Options and optional accessories	13
Technical data	17
Serial plate	18
Declaration of conformity	18
Manufacturer's address	18
Applied standards	18

Installation and commissioning 19

Setting up coffee machine	19
Location	19
Ambient conditions	19
Power supply	19
Conditions	19
Connection values	20
Water connection/drain	21
Conditions	21
Connection values	21
Installation	21
Unpacking machine	21
Disassembly and disposal	22

Operation 23

Check before switching on	23
Filling and connecting	23
Coffee beans	23
Water	23
Milk	24
Coffee machine powder	25
Switching on	25
Starting up coffee machine	25
Optional accessories	26
Dispensing	27
Adjusting outlet height	27
Coffee beverages	27
Beverages with ground coffee	27
Hot water	28
Milk beverages	28
Steam	28
Dispensing options	29
Stopping continuous dispensing	29
Pre-selecting beverages	29

Double beverage	29
Beverages with MONEY card	29
Emptying	30
Grounds container	30
Under-counter grounds disposal	30
Waste water tank	30
Transport conditions	30
Display messages/instructions	31
Switching off	31
End of operation	31
Lengthy downtimes (more than 1 week)	32

Cleaning 33

Cleaning intervals	33
Cleaning products	33
Mandatory cleaning	34
Cleaning options	34
Hot rinsing	34
Milk hose rinse	34
Automatic switch-off rinsing function	34
Flush coffee	34
Steam rinse	35
Daily cleaning	36
Schaerer Coffee Art Plus with Milk Smart	36
Schaerer Coffee Art Plus with cold milk system	38
Schaerer Coffee Art Plus	40
Milk container	41
Drinking water tank	41
Grounds container	41
External waste water tank	42
Side cooling unit	42
Manual weekly cleaning	43
Schaerer Coffee Art Plus with powder system	43
Bean hopper	44
Defrosting cooling unit (Option)	45
As needed	45
Drip tray	45
Cup & Cool	45
Cup warmer	45
HACCP cleaning concept	45
Cleaning requirements and conditions	45

Service and maintenance 47

Maintenance	47
External water filter	47

Programming 48

Navigation	48
Setting examples	48
Setting numerical values	48
Preset adjustment range	49
Reading out counters	49
Daily counter	49
Machine counter	50
Service counter	51
Cleaning statistics	52
Error statistics	52

Beverage buttons	52
Beverage without milk (e.g. espresso)	52
Beverages with milk (e.g. cappuccino)	53
Milk	55
Milk foam	55
Hot chocolate with powder system (option).	56
Chociatto with powder system (option)	57
Hot water	58
Steam (option).	59
System setting	59
Machine timer	60
Cleaning instructions	60
"Stand-by" functions	61
Introduction to the "Stand-by" functions	61
Brewing time per beverage	61
Cleaning statistics	61
Setting clock	61
Setting date	61
Error statistics	61
Software version	61
Machine and installation number.	62
Showing brewing time	62
Programming — PROGRAM card (option).	62
Beverage prices	62
Loading MONEY amount	63
Deleting MONEY amount	63
Showing turnover data	63
Switching off payment system.	64
Troubleshooting	65
Faults with display message	65
Faults without display message	66
Safety notes.	67
Danger from cleaning products.	67
Application.	67
Storage	67
Disposal.	67
Emergency information	67
Hygiene regulations	68
Water.	68
Coffee	68
Milk	68
Milk concentrate	69
Automatic machine powder/instant powder.	69
Liability.	70
Operator responsibilities	70
Warranty and liability claims	70

Introduction

Welcome

This coffee machine is part of the next generation of fully automatic coffee machines. Our company's core competence as well as decades of experience flowed into designing this equipment.

These operating instructions provide information about the product, its operation and how to clean the coffee machine. If the coffee machine is not used according to the instructions, we shall not be held liable for any damages. However, these operating instructions cannot take every conceivable application into account. For further information, please contact our customer service.

The performance of the coffee machine depends on its proper operation and maintenance. Carefully read the operating instructions before using the machine for the first time, and keep the instructions in an easily accessible place.

We hope you enjoy using your new coffee machine!

Signs and symbols



See also *Safety notes*

The following signs and symbols are used in these operating instructions to point out sources of danger and special features:

DANGER!
Risk of electrocution!



An imminently dangerous situation that may result in death or serious injury from electric shock.

The measures described for preventing this danger must be adhered to.

CAUTION!
User at risk!



A generally dangerous situation that may result in injury.

The measures described for preventing this danger must be adhered to.

CAUTION!
Risk of machine damage!



A situation that may result in damage to the machine.

The measures described for preventing this danger must be adhered to.

CAUTION!
Hot fluid!



A dangerous situation that may result in scalding injuries. This danger arises at the dispensing points. In this document, the danger is only indicated by this symbol.

The measures described for preventing this danger must be adhered to.

CAUTION!
Hot steam!



A dangerous situation that may result in scalding injuries. This danger arises at the dispensing points. In this document, the danger is only indicated by this symbol.

The measures described for preventing this danger must be adhered to.

CAUTION!
Hot surface!



A dangerous situation that may result in burn injuries. This danger arises at the dispensing points and cup warmer locations (option). In this document, the danger is only indicated by this symbol.

The measures described for preventing this danger must be adhered to.

CAUTION!
Risk of trapping fingers!



A dangerous situation that may result in crushing injuries. It is only indicated by the symbol in the following instructions.

The measures described for preventing this danger must be adhered to.

General safety notes

Maximum safety is one of the most important features of Schaerer AG products. The effectiveness of the safety equipment can only be ensured if the chapter containing precautions to avoid injury and danger to health are adhered to.



The safety notes can be requested from Schaerer AG or downloaded directly from the Media-Centre on the website (<http://www.schaerer.com/member>).

User at risk!

CAUTION!
User at risk!



Improper handling of the coffee machine can lead to light injuries. Please adhere to the following points:

- Read the User Manual carefully before using the device.
- Do not use the coffee machine if it is not working properly or is damaged.
- Under no circumstances may the installed safety devices be modified.
- Do not touch hot machine parts.
- Under continuous supervision this device can be used by children aged 8 and up and by persons with limited physical, sensory or mental capabilities or a lack of experience and/or knowledge, provided they have been instructed about the safe use of the device and understand the potential hazards resulting from said use.
- Supervise children to ensure that they do not play with the device.
- Children must also not be allowed to perform cleaning procedures or user service.
- The coffee machine must be installed so that care and maintenance are possible without any interference.
- Whether the machine is used for self-service or full-service operation, trained personnel must supervise the machine to ensure that care measures are performed and that personnel is available to answer questions regarding its use.
- Only fill the bean hopper with coffee beans, the powder container with automatic machine powder and the manual inlet with ground coffee (or cleaning tablets during cleaning).

DANGER!
Risk of electrocution!



Improper handling of electrical devices can result in electric shock.

Please adhere to the following points:

- Work on electrical systems may only be performed by skilled electricians.
- The machine must be connected to a fused electrical circuit (we recommend routing the connection through an earth leakage circuit breaker).
- All relevant guidelines on low voltage and/or country-specific or local safety regulations and laws must be observed.
- The connection must be properly earthed and protected from electric shock.
- The voltage must match the specified values on the device's serial plate.
- Never touch energised parts.
- Before carrying out service work, always switch off the main switch and/or disconnect the device from the power supply system.
- The power cable must only be replaced by qualified service technicians.

CAUTION!
User at risk!



Beverages containing additives or traces of additives may trigger allergies.

Please adhere to the following points:

- For self-service mode, a sign should be displayed in the vicinity of the machine to provide information about any additives used which could trigger an allergic reaction.
- For full-service mode, trained personnel should be on hand to provide information about any additives used which could trigger an allergic reaction.

CAUTION!
User at risk!



Danger of poisoning from ingesting cleaning products.

Please adhere to the following points:

- Store cleaning products away from children and unauthorised persons.
- Do not swallow the cleaning products.
- Never mix cleaning products with other chemicals or acids.
- Never pour cleaning products into the milk container.
- Never pour cleaning products into the drinking water tank (internal/external).
- Only use the cleaning and descaling products for their intended purpose (see label).
- Do not eat or drink while handling cleaning products.
- Ensure that the area is well ventilated when handling cleaning products.
- Wear safety gloves when handling cleaning products.
- Wash your hands thoroughly after handling cleaning products.



Before using cleaning agent, read the information on the package label carefully. If not available, the HEALTH & SAFETY DATA SHEET can be obtained from the sales partner (see the cleaning product packaging).

CAUTION!
Hot fluid!



There is a risk of scalding in the area where beverages, hot water and steam are dispensed.

Never reach under the dispensing points while the machine is dispensing or during cleaning.

CAUTION!
Hot surface!



The dispensing units and the brewing unit may be hot.

Do not touch any part of the dispensing equipment except the grips provided for this purpose. Only clean the brewing unit after the coffee machine has cooled down.

CAUTION!
Risk of trapping
fingers!



When working with moving components, there is a risk of fingers or hands becoming trapped.

While the coffee machine is switched on, never reach into the bean or powder containers or into the opening of the brewing unit.

Risk of machine damage!

CAUTION!
Risk of machine
damage!



Improper handling of the coffee machine can lead to damage or contamination.

Please adhere to the following points:

- For water with a carbonate hardness above 5 °dH, install a limescale filter, as the coffee machine can otherwise be damaged by limescale deposits.
- For insurance reasons, always ensure that at the end of the business day, the stop valve on the water supply (coffee machine with mains water supply) is closed and the main power switch is switched off or the power cable is unplugged.
- Applicable low voltage guidelines and/or country-specific or local safety regulations and laws must be observed.
- Do not operate the device if the water supply is blocked. Otherwise, the boilers will not be refilled and the pump will run dry.
- To prevent water damage in case of hose breakage, Schaerer AG recommends routing the water supply connection through a water shut-off valve (at the installation site).
- After extended downtime (e.g. holiday), the coffee machine must be cleaned before it is put back into operation.
- Protect the coffee machine from weather elements (frost, moisture, etc.).
- Faults must only be remedied by a qualified service technician.
- Only use Schaerer AG original spare parts.
- Report any noticeable damage or leaks immediately to an authorised service partner and have any faulty parts replaced and/or repaired.
- Never spray the device with water or clean it with a steam cleaner.
- Do not set up the device on surfaces on which a water jet might be used.
- When using caramelised coffee (flavoured coffee), clean the brewing unit twice daily.
- Only fill the bean hopper with coffee beans, the powder container with automatic machine powder and the manual inlet with ground coffee (or cleaning tablets during cleaning).
- Never use freeze-dried coffee as it clogs the brewing unit.
- If the coffee machine and/or auxiliary equipment is transported at temperatures below 10°C, the coffee machine and/or auxiliary equipment must be stored at room temperature for three hours before connecting the coffee machine and/or auxiliary equipment to the power supply and switching them on. If these instructions are not followed, condensation may cause short circuits or damage electrical components.
- Always use the new hose set supplied with the machine (drinking water/waste water hose). Never use old hose sets.

Product description

Intended use

The Schaerer Coffee Art Plus has been designed to dispense coffee beverages, hot water, powder-based beverages (toppings & chocolate) and milk beverages, optionally with syrup, in different versions and combinations in cups, mugs, glasses or pots. The steam wand is intended solely for warming up milk.

This device is intended for commercial use in hotels, restaurants and similar establishments. The device is permitted to be installed at self-service locations when a staff member is present for supervision purposes. The device can be used in businesses, offices and other similar work environments, hotels, motels and bed and breakfast establishments and can be operated by non-experts and customers.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved children shall not play with the appliance cleaning and user maintenance shall not be made by children without supervision.



Use of this equipment is subject to the "General Terms and Conditions" of Schaerer AG and these operating instructions. In legal terms, any other use is not an intended use. The manufacturer accepts no liability for damage resulting from unintended use.

CAUTION!
Risk of machine
damage!



Improper handling of the coffee machine can result in damage.

Under no circumstances may the Schaerer Coffee Art Plus be used to heat or dispense any liquid other than the named or cooled milk (pasteurised, homogenised, UHT).

Beverage types and output

Depending on the machine variant and options, the following beverages can be prepared:

Beverage output per hour	
Espresso 50-60 ml	± 250 cups
Coffee 120 ml	± 250 cups

Available beverages:	
Ristretto	x
Espresso	x
Coffee	x
Mug	x
Americano	x
Americano with milk	x
Latte	x
Cappuccino	x
Latte macchiato	x
Espresso macchiato	x
Chociatto	x
Hot chocolate	x
Cold milk	x
Hot milk	x
Hot milk foam	x
Cold milk foam	x

Available beverages:	
Hot water	x
Steam	x
Powder beverage	x
Caffeine-free beverages	x
Spirited coffee	x

Models

The Schaerer Coffee Art Plus is available in the following versions:

- Schaerer Coffee Art Plus without milk
- Schaerer Coffee Art Plus with Cup & Cool
- Schaerer Coffee Art Plus with Milk Smart/Milk Smart Cooler
- Schaerer Coffee Art Plus with cold milk system
- Schaerer Coffee Art Plus with under-counter milk system
- Schaerer Coffee Art Plus with Centre Milk
- Schaerer Coffee Art Plus with Twin Milk
- Schaerer Coffee Art Plus with powder system

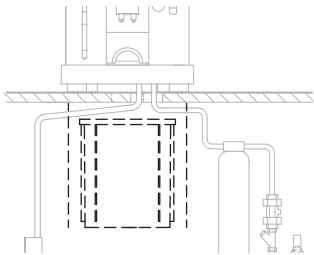
Scope of delivery and accessories

Quantity	Designation	Article number
Documentation		
1	Operating instructions	**
*	Cleaning instructions	**
*	Supplementary instructions for cup warmer + Cup & Cool	**
Smart card		
1	CHEF card	063930
1	SAVE DATA card	063933
Cleaning/Cleaning accessories		
1	Cleaning brush	067409
1	Set for daily cleaning	-
*	Milk Smart cleaning container	071726
*	Milk Smart Cooler cleaning container (4 litres)	070743
*	Cleaning container (8 litres) (cold milk system)	061308
*	Cup & Cool cleaning container	071735
General accessories		
*	Milk container (8 litres) (cold milk system)	070742
*	Milk Smart Cooler milk container (4 litres)	069039
*	Twin milk container (2 x 4 litres) (cold milk system)	070744
*	Milk Smart Cooler milk container cover (4 litres)	069038
*	Cup & Cool and Milk Smart Cooler hose set	069687
*	Cup & Cool milk container	33.2388.6000
*	Cup & Cool milk and cleaning container cover	33.2388.7000
1	Measuring spoon	067111
1	Flat seal	064249
1	Drain hose	067862
*	Connection cable, CH standard	063260
*	Connection cable, EURO standard	063261
1	Grinder adjustment tool	070907
1 set	Milk suction nozzles (8 pcs)	071246
1	60 cm hose (transparent)	061108

* * Depending on machine version.

** Language-specific article number.

Options and optional accessories

Example	Option	Description
	Under-counter grounds disposal	The grounds container and the bottom of the coffee machine have a cut-out that is continued through the counter. The coffee grounds are collected in a large container underneath the counter.

Example	Option	Description
	Side cooling unit Milk Smart Cooler	Cooling unit for machines with Milk Smart. For the preparation of warm and hot milk and milk foam beverages. Milk capacity: 4 – 6.5 l
	Cup & Cool	Cup warmer with a cooling unit for machines with Milk Smart. The milk temperature and cup heating can be regulated. Milk capacity: 4 l Cup capacity: max. 60
	Cup warmer	For preheating multiple cups of varying types. The cup heating can be regulated. Cup capacity: ca. 70 – 100
	Cold milk system Twin Milk Centre Milk	Cold milk system with integrated milk pump for the preparation of warm and hot milk and milk foam beverages. The milk temperature can be regulated. Coolant: R134 a Coolant quantity: 40 g Cold milk system milk capacity: 8 l Twin Milk milk capacity: 2 x 4 l Centre Milk milk capacity: 8 l or 2 x 4 l
	Under-counter cooling unit for cold milk system	Under-counter cold milk system with integrated milk pump for the preparation of warm and hot milk and milk foam beverages. The milk temperature can be regulated. This option is well suited for use with large milk consumption and little counter space. The system can optionally supply two coffee machines at the same time or it can supply one machine with two milk types.
	Under-machine cooling unit for cold milk system	Under-machine cooling unit for cold milk system with integrated milk pump for the preparation of warm and hot milk and milk foam beverages. Coffee machine can be optionally equipped with an under-machine cooling unit. This option cannot be retrofitted.

Example	Option	Description
	Powder system	For the preparation of beverages with topping or choco powder. Available in the following versions: Choco, Topping, Twin Choco, Twin Topping, Choco & Topping.
	Rear powder system	The integrated powder system for the preparation of beverages with choco powder.
	Cup dispenser	Cup dispenser for approx. 40 cups in two different sizes. Ø 60-90 mm
	Coin changers	Coin changer with MDB interface. Up to 2 coffee machines can be connected. Up to 99 different sales prices can be set. The coin changer can be switched off, and the unit can be switched to push-button operation. Accepts coins from 5 cents to 2 euros, CHF 0.10 – CHF 5.00 and two different tokens. The coin changer contains coin tubes for change.
	Coin testers	The coin tester allows the dispensing of coffee in the Self mode after the necessary coins or tokens have been inserted. The coin tester can be switched off, and the unit can be switched to push-button operation. Accepts coins from 5 cents to 2 euros, CHF 0.10 – CHF 5.00 and two different tokens. The coin tester does not return any change.
	Supersteam	Fully automatic heating and foaming of milk (programmable temperature and foam consistency). Foams milk in small amounts or directly in the cup.

Example	Option	Description
	Powersteam	Manual heating and foaming of milk. Ideal for the professional barista.
	Autosteam	Fully automatic heating of milk (programmable temperature). Milk is foamed manually.
	Steam cup warmer	For pre-warming individual cups immediately before beverage dispensing. <i>Only available in Switzerland.</i>
	Swan neck	For dispensing coffee into pots.
	Automatic outlet	After the beverage button is pressed, the automatic outlet moves to a predefined position. Once the beverage has been dispensed, it returns to the start position. The position is defined in the beverage settings and can thus be individually set for each beverage.
	High feet	If needed, the coffee machine can be placed on high feet.

Example	Option	Description
	Trolley	Together with a drinking water and a waste water tank, the trolley allows the coffee machine to become a mobile unit.
	External drinking and waste water	An external monitored drinking and waste water tank replaces a mains water supply and waste water outlet.



Please contact your local sales partner for more detailed information.

Technical data

Nominal power*	Steam boiler	Hot water boiler
	2000 W/3000 W	2000 W/3000 W
Operating temperature	Steam boiler	Hot water boiler
Minimum operating temperature (T min.)	10 °C	10 °C
Maximum operating temperature (T max.)	192 °C	192 °C
Operating temperature	140 °C	95 °C
Overpressure	Steam boiler	Hot water boiler
Working overpressure	2.5 bar	2.5 bar
Permissible operating overpressure (p max.)	5 bar	12 bar
Test overpressure	24 bar	24 bar
Drinking water tank capacity	Mains water supply	
Bean hopper capacity	1000 g each ±	
Grounds container capacity	35 coffee cakes	
External dimensions		
Width	420 mm	
Height	538 mm	
Depth	668 mm	
Empty weight	±40 kg	
Permanent noise level**	<70 dB (A)	

We reserve the right to make technical changes.

* For special equipment, see serial plate. The values specified here apply to the standard equipment.

** The A-weighted noise level (slow) and Lpa (impulse) at the workplace of the operating personnel is below 70 dB (A) for every operating mode.

Serial plate



Designation coffee machine
Manufacturer Schaerer AG, Allmendweg 8
 4528 Zuchwil, Switzerland
Type SCA P
Serial No. 1137 308545
Nominal pressure 1.2 MPa (12 bar)
main pressure 0.1-0.3 MPa, max 0.6MPa
Electrical Ratings 2000 – 2200W
 200 - 220V 2~ 50/60Hz
Fuse on-site 2x 15A (cable: 3x 1.5mm²)
Engineered and assembled in Switzerland

Machine-specific data are listed on the serial plate. The serial plate is affixed to the inside of the machine and is visible when the coffee grounds container and the cover above it are removed.

- In the event of a fault or warranty claim, give the information on the serial plate.

Declaration of conformity

Manufacturer's address

Manufacturer	Documentation specialist
Schaerer AG P.O.Box 336 Allmendweg 8 CH-4528 Zuchwil, Switzerland T +41 (0)32 681 62 00 F +41 (0)32 681 64 04 info@schaerer.com www.schaerer.com	Schaerer AG Hans-Ulrich Hostettler P.O. Box Allmendweg 8 CH-4528 Zuchwil, Switzerland

Applied standards

The aforementioned manufacturer declares herewith that this machine complies with all relevant stipulations of the specified directives. In case of any modifications of the units that have not been approved by Schaerer, this declaration is rendered invalid. The following harmonised standards have been applied. For proper implementation of the requirements, a quality management system certified by Bureau DEKRA in accordance with ISO 9001 and 14001 is applied.

For CE conformity	
Machinery Directive 2006/42/EC	EMC Directive 2004/30/EU
• EN 60335-1 • EN 60335-2-75 • EN 62233	• EN 55014-1 • EN 55014-2 • EN 61000-3-2 • EN 61000-3-3
RoHS Directive 2011/65/EU	

For compliance with European ordinances
• Ordinance (EU) no. 10/2011 • Ordinance (EC) no. 1935/2004 • Ordinance (EC) no. 2023/2006 • WEEE 2012/19/EC

International (CB)	
Safety • EC 60335-1 • IEC 60335-2-75	EMC • CISPR 14-1 • CISPR 14-2 • IEC 61000-3-2 • IEC 61000-3-3

Installation and commissioning

Setting up coffee machine

CAUTION!
Risk of machine
damage!



Location

The location where the coffee machine is set up must meet the conditions specified below. If they are not satisfied, the coffee machine may become damaged. The following conditions absolutely must be met:

- The installation surface must be stable and level so that it does not become deformed under the weight of the coffee machine.
- Do not erect on hot surfaces or close to heat sources.
- Set up the coffee machine in such a way that it can be monitored by trained personnel at all times.
- The required supply terminals must be within 1 m of the machine location according to the on-site installation plans.
- Maintain the following clearances for maintenance work and operation:
 - Allow enough space above the machine to refill coffee beans.
 - Leave min. 5 cm clearance from the rear side of the machine to the wall (air circulation).
- Comply with all applicable local regulations for kitchen equipment.

CAUTION!
Risk of machine
damage!



Ambient conditions

The location where the coffee machine is installed must satisfy the ambient conditions specified below. If they are not satisfied, the coffee machine may become damaged. The following conditions absolutely must be met:

- Ambient temperature of +10 °C to +40 °C (50 °F to 104 °F)
- Relative humidity of max. 80% RH
- This coffee machine is designed for indoor use only. Do not use in the open and never expose to the weather (rain, snow, subzero temperatures).

If the coffee machine was exposed to subzero temperatures:

- Contact customer service before commissioning.

Power supply

Conditions

The equipment must be connected in accordance with the regulations of the country in which it is installed. The voltage specified on the serial plate must match the mains voltage at the installation location.

DANGER!**Risk of electrocution!****Risk of electrocution!****Please adhere to the following points:**

- The phase must be fused at the ampere value specified on the serial plate.
- It must be possible to disconnect the device from the mains power supply at all poles.
- The electrical system at the installation site must conform to IEC 364 (DIN VDE 0100). To increase safety, the device should be connected to a ground fault circuit interrupter with 30 mA nominal error current (EN 61008). (Type B residual current circuit breakers ensure response even in the event of smooth DC residual currents. This results in a high level of safety.)
- The electrical system at the installation site must conform to IEC 364 (DIN VDE 0100). To increase safety, the device should be connected to a ground fault circuit interrupter with 30 mA nominal error current (EN 61008). (Type B residual current circuit breakers ensure response even in the event of smooth DC residual currents. This results in a high level of safety.)
- Never operate a device with a damaged power cable. Have a defective power cable or plug replaced immediately by a qualified service technician.
- Schaefer AG does not recommend using an extension cord. If an extension cord is used despite this (minimum cross-section: 1.5 mm²), please comply with the manufacturer's specifications for the cable (operating instructions) and with locally applicable regulations.
- Route the power cable in such a way that it does not pose a tripping hazard. Do not pull the cable over corners or sharp edges, pinch it between objects or allow it to hang loosely in open spaces. Do not position the cable over hot objects, and protect the cable from exposure to oil and aggressive cleaning products.
- Never lift or pull the device by the power cable. Never pull the plug out of the socket by its cable. Never touch the power cable or plug with wet hands. Never insert a wet plug into a power socket.

Connection values

Mains				Fuse protection (building side)	Connecting cable, conductor cross-section
1L, N, PE	220 – 240 V~	50/60 Hz	2000 - 2400 W	10 A	3 x 1 mm ²
			3000 - 3600 W	16 A	3 x 1.5 mm ²
			5700 - 6900 W	30 A	3 x 4 mm ²
3L, N, PE	380 – 415 V 3N~	50/60 Hz	5700 - 6900 W	3 x 16 A	5 x 1.5 mm ²
			8300 - 10100 W	3 x 16 A	5 x 1.5 mm ²
2L, PE	200 – 220 V 2~	50/60 Hz	2000 - 2200 W	2 x 15 A	3 x 1.5 mm ²
			2600 - 3200 W	2 x 15 A	3 x 1.5 mm ²
			4700 - 5800 W	30 A	3 x 10 AWG
			4700 - 5900 W	2 x 30 A	3 x 10 AWG
			4700 - 5900 W	2 x 25 A	3 x 2.5 mm ²
3L, PE	200 V 3~	50/60 Hz	7000 W	3 x 20 A	4 x 2.5 mm ²
3L, PE	220 V 3~	50/60 Hz	6900 - 8500 W	3 x 25 A	4 x 2.5 mm ²
			7700 W	25 A	4 x 2.5 mm ²

Water connection/drain

CAUTION!
Risk of machine
damage!



Conditions

The machine can suffer damage due to bad material and incorrect water values. It is imperative that the following points are complied with:

- The water must be free of contaminants and the chlorine content must not exceed 50 mg per litre.
- Do not connect the machine to pure reverse osmosis water or other aggressive types of water.
- The carbonate hardness must not exceed 5 – 6 °dKH (German carbonate hardness) or 8.9 – 10.7 °fKH (French carbonate hardness), and the total hardness value must always be greater than the carbonate hardness.
- The minimum carbonate hardness is 5 °dKH or 8.9 °fKH. The pH value must be between 6.5 – 7.
- Always use the new hose set (fresh water/waste water hose) supplied with the machine.

The machine must be connected to the water supply in accordance with applicable requirements and the regulations of the respective country. If the machine is connected to a newly installed water pipe, the pipe and intake hose must be rinsed thoroughly to ensure that no dirt gets into the machine.

The coffee machine must be connected to an installed drinking water line with a shut-off valve. Installation takes place via the installed pressure hose and the G 3/8" screw connection onto the pressure reducing valve that is mounted on the water tap (set to 0.3 MPa (3 bar)).

If the machine is connected to a drain, the included temperature-resistant drain hose must be connected to the drip tray and the siphon. This hose must be firmly attached to the drain and slanted at a downward angle (so that the water is able to drain).



The "Water quality" supplementary instructions include information on recording the water values and using filter equipment. The supplementary instructions can be requested from Schaerer AG or downloaded directly from the MediaCentre on the website (<http://www.schaerer.com/member>).

Connection values

Water pressure	Recommended:	0.1 – 0.6 MPa (1 – 6 bar)
	Maximum:	0.6 MPa (6 bar)
Water inlet temperature	Minimum:	10 °C
	Maximum:	30 °C

Installation

Unpacking machine



Read the "Setting up the coffee machine" and "Power supply" chapters carefully before installing.

- ▶ Unpack the machine.
- ▶ Check the remaining package contents for accessories.
- ▶ Remove the accessories supplied in the grounds container and water tank.
- ▶ Keep the original packaging in case the equipment needs to be returned.

Disassembly and disposal



The coffee machine must be disposed of correctly in conformity with local and legal regulations.

- Contact your service partner.

Operation

Check before switching on

- ▶ Before switching on the coffee machine, check whether the following conditions are fulfilled.

Conditions for switching on the coffee machine:

- The stop valve of the water supply (in machines with a mains water supply) is open/the drinking water tank is filled with fresh water.
- The drip tray has been emptied and is correctly inserted/the waste water outlet is correctly routed/the waste water tank is connected.
- The bean hopper(s) is/are filled and the locking mechanism is open.
- The grounds container is empty and inserted correctly.
- The coffee machine is connected to the mains power supply.

Filling and connecting

Coffee beans

CAUTION!
User at risk!



Rotating grinding gauges in the grinder are an injury hazard.
Never reach into the bean hopper while the coffee machine is switched on.

CAUTION!
Risk of machine damage!



Filling the bean hopper with foreign objects can cause jamming or destruction of the grinder.

Never fill the bean hopper with anything other than coffee beans.



- ▶ Unlock bean hopper cover and unlatch using knob.
- ▶ Fill with coffee beans (max. 1,000 g).
- ▶ Replace cover. Twist knob to latch and use key to lock.

Water

Option 1: Mains water supply

CAUTION!
Risk of machine damage!



The machine can suffer damage if the pump runs dry.
Before switching on the machine, make sure that the stop valve of the water supply is open.

- ▶ Open the stop valve on the main water valve.



For reasons relating to insurance law, it is advisable that the stop valve of the water supply be closed at the end of the day.

Option 2: Mains water supply

- ▶ Remove the cover on the drinking water tank.
- ▶ Remove the drinking water tank daily and rinse out thoroughly with fresh water.
- ▶ Fill the drinking water tank with fresh drinking water before using it.
- ▶ Reinsert the drinking water tank.
- ▶ Reattach the cover.

Milk

Option 1: Milk Smart Cooler

- ▶ Open the door.
- ▶ Remove and rinse the milk container.
- ▶ Pour in fresh, pre-cooled milk (3 – 5 °C).
- ▶ Place the milk container into the cooling unit.
- ▶ Hang the hoses into the container.
 - ☑ The hose end must be in contact with the container floor.
- ▶ Close the door.

Option 2: Side cooling unit

- ▶ Open the door.
- ▶ Remove and rinse the milk container.
- ▶ Pour in fresh, pre-cooled milk (3 – 5 °C).
- ▶ Place the milk container into the cooling unit.
- ▶ Hang the hose or hoses into the container.
 - ☑ The hose end must be in contact with the container floor.
- ▶ Close the door.

Option 3: Cup & Cool



Ensure that the filled milk does not touch the closed milk container lid.



- ▶ Open the door.
- ▶ Pull the milk hose adapter out of the cover.
- ▶ Connect the desired milk nozzle (1 mm – 1.7 mm), if not already present, between the hose and the adapter.
- ▶ Remove and rinse the milk container.
- ▶ Pour in fresh, pre-cooled milk (3 – 5 °C).
- ▶ Place the milk container back in the cooling unit.
- ▶ Push the hose adapter back into the cover.
- ▶ Close the door.

Option 4: Cold milk system

- ▶ Open the door.
- ▶ Remove and rinse the milk container.
- ▶ Pour in fresh, pre-cooled milk (3 – 5 °C).
- ▶ Place the milk container into the cooling unit.
- ▶ Hang the hose into the container.
 - ☑ The hose end must be in contact with the container floor.
- ▶ Close the door.

Option 5: Under-counter milk

- ▶ Open the door.
- ▶ Remove and rinse the milk container.
- ▶ Pour in fresh, pre-cooled milk (3 – 5 °C).
- ▶ Place the milk container into the cooling unit.
- ▶ Hang the hose into the container.
 - ☑ The hose end must be in contact with the container floor.
- ▶ Close the door.

CAUTION!
Risk of machine
damage!



Coffee machine powder

Improper use can damage the machine.

Never fill substances other than coffee machine powder into the powder container. The powder containers must be filled with no more than 500 g (Twin container) or 1,000 g (Standard container) of coffee machine powder.

CAUTION!
User at risk!



Moving parts in the powder container are an injury hazard.

Never reach into the powder container(s) while the unit is switched on.

Option 1: Choco

- Pour in the desired choco powder.

Option 2: Topping

- Pour in the desired milk powder.

Option 3: Twin Choco

The powder container for Twin Choco is divided in the centre and has two compartments for two different types of choco powder.

- Pour the desired choco powder into compartments 1 and 2.

Option 4: Twin Topping

The powder container for Twin Topping is divided in the centre and has two compartments for two different types of milk powder.

- Pour the desired milk powders into compartments 1 and 2.

Option 5: Choco topping

The powder container for choco topping is divided in the centre and has two compartments for one type of milk powder and one type of choco powder.



The feed screws for choco powder and milk powder are of different sizes. Label the two container compartments from the outset so that no mix-ups can occur when the powder is topped up.

- Fill compartment 1 with the desired milk powder.
- Fill compartment 2 with the desired choco powder.

Switching on

Starting up coffee machine

CAUTION!
Risk of trapping
fingers!



When the machine is switched on, the automatic beverage outlet will initialise itself. Never reach beneath or behind the beverage outlet when the machine is starting up.

Option 1: With the [On/Off] button

- Switch on the coffee machine with the [⏻] button.
 - ☑ The coffee machine starts the heating process.
 - ☑ If the machine is ready for use, the message is shown in the left of the display.

Option 2: On/Off activated with CHEF card

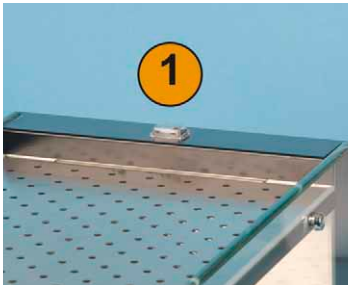
- Insert the CHEF card.
 - ☑ The coffee machine switches on.
 - ☑ The coffee machine starts the heating process.

Select product
12:00 01.04.2012

Optional accessories

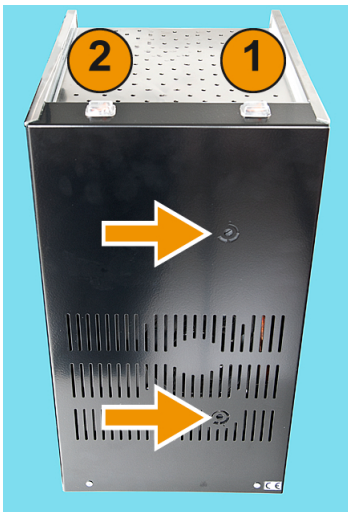
Option 1: Cup warmer

- ▶ Switch on the cup warmer unit via the main switch (1).
 - ☑ The press switch lights up.



Option 2: Cup & Cool

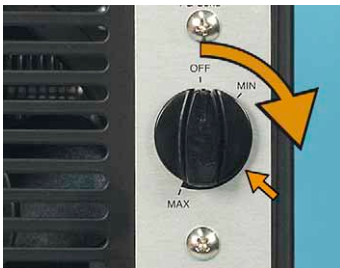
- ▶ Switch on the cup warmer unit via the main switch (1).
 - ☑ The switch lights up.
- ▶ Switch on the cooling unit via the main switch (2).
 - ☑ The press switch lights up.



A detailed description of the setting of the thermostats (see arrow) is contained in the separate operating instructions of the "Cup warmer and Cup & Cool".

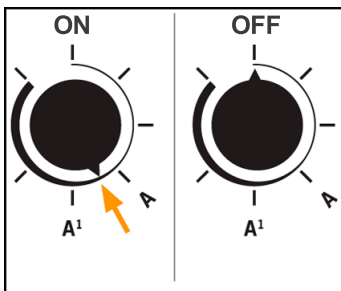
Option 3: Cooling unit for the Milk Smart system

- ▶ Set the temperature switch on the back of the cooling unit, see arrow.
 - ☑ The cooling unit is switched on.



Option 4: Cooling unit for the cold milk system

- ▶ Remove the cooling unit cover.
- ▶ Set the temperature switch of the cooling unit, see arrow.
- ▶ Mount the cooling unit cover again.
 - ☑ The cooling unit is switched on.





Option 5: Under-machine cooling unit

- ▶ Open the door of the under-machine cooling unit.
- ▶ Switch on the press switch, see arrow.
 - ☑ The cooling unit is switched on.
 - ☑ The cooling temperature is preset at the factory.
- ▶ Close the door.

Dispensing

CAUTION!
Hot fluid!



All beverages dispensed from the machine are hot.
Never reach beneath the beverage outlet or into the machine when beverages are being dispensed.

Adjusting outlet height

Hot surfaces can cause burns.
Exercise care when moving the beverage outlet.

CAUTION!
Hot surface!



CAUTION!
Risk of trapping
fingers!



Crushing hazard when moving the beverage outlet.
Grasp beverage outlet and move to desired position from the front side.



- ▶ Place a cup under the beverage outlet.
- ▶ Grasp the beverage outlet from the front and slide it into the correct position (see figure).
- ▶ Press beverage button.
 - ☑ Beverage is dispensed.
- ▶ Remove the cup after the beverage has been dispensed.

Option: Automatic beverage outlet

After the beverage button is pressed, the automatic beverage outlet moves to a predefined position.

- ▶ Place a cup under the automatic beverage outlet.
- ▶ Press beverage button.
 - ☑ Automatic beverage outlet moves into position.
 - ☑ Beverage is dispensed.
 - ☑ Automatic beverage outlet returns to initial position.
- ▶ Once this is complete, remove the cup.

Coffee beverages

- ▶ Place a cup under the beverage outlet.
- ▶ Press the desired beverage button.
 - ☑ The beverage button flashes while the machine is dispensing the beverage.
 - ☑ The beverage name and the dispensing progress are shown in the display.
- ▶ Remove the cup after the beverage has been dispensed.

Beverages with ground coffee



The inlet for ground coffee is located between the bean hoppers.

CAUTION!
Risk of machine
damage!



Incorrect use may damage the machine.
Never put anything into the inlet other than ground coffee or cleaning tablets.

- ▶ Place a cup under the beverage outlet.
- ▶ Open the inlet for ground coffee or press the **[DECAF]** button.
 - ☑ The remaining available beverages are shown on the display.
- ▶ Press the desired beverage button.
- ▶ Add the ground coffee within 15 seconds.
- ▶ Close the inlet for ground coffee.
- ▶ Remove the cup after the beverage has been dispensed.

Hot water

Dispensing of hot water can be preset as follows using the SERVICE card:

- [Hot water] button with the "Start-stop" function.
- [Hot water] button with the "Press and hold" function.
- [Hot water] button with the "Double product" function.
- ▶ Place the cup beneath the hot water outlet.
- ▶ Press or hold the [Hot water] button.
- ▶ Remove the cup after the beverage has been dispensed.

Milk beverages



If the machine is equipped with a milk system, milk beverages can be directly dispensed using the beverage buttons.

CAUTION!
Hot fluid!



- ▶ Place a cup under the beverage outlet.
- ▶ Press the desired beverage button.
- ▶ Remove the cup after the beverage has been dispensed.

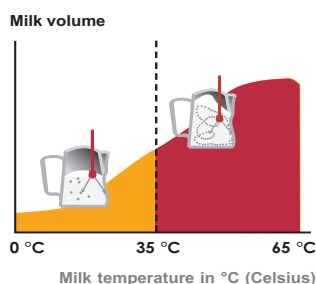
Steam

Option: Normal steam

- ▶ Place the cup/container beneath the steam wand.
 - ☑ The tip of the steam wand must be completely under the surface of the milk.
- ▶ Press the [Steam] button.
- ▶ After steam dispensing is finished, remove the cup/container.
- ▶ Clean the outside of the steam wand with a moist paper towel.
- ▶ Point steam wand at drip grid and briefly press the [Steam] button.
 - ☑ Milk and beverage residues are flushed out of the steam wand.

Option: Powersteam/Autosteam

- ▶ Place the cup/container beneath the steam wand.
 - ☑ The tip of the steam wand must be completely under the surface of the milk.
- ▶ Press the [Steam] button.
- ▶ Aerate the milk by injecting steam beneath the surface.
 - ☑ The milk is heated from 5 °C to 37 °C.
- ▶ Dense milk foam is created by injecting steam on the bottom third of the milk height, rolling and turning clockwise.
 - ☑ The milk is heated from 37 °C to 65 °C.
- ▶ After steam dispensing is finished, remove the cup/container.
- ▶ Clean the outside of the steam wand with a moist paper towel.
- ▶ Point steam wand at drip grid and briefly press the [Steam] button.
 - ☑ Milk and beverage residues are flushed out of the steam wand.





Option: Supersteam/Finesteam

- ▶ Place the cup/container beneath the steam wand.
 - ☑ The tip of the steam wand must be completely under the surface of the milk.
- ▶ Press the [Steam] button.
- ▶ After steam dispensing is finished, remove the cup/container.
- ▶ Point the steam wand at the drip grid and briefly press the [Steam] button.
 - ☑ This removes milk and beverage residues from the steam wand.

Dispensing options

Stopping continuous dispensing



If a beverage is selected mistakenly, the current dispensing process can be stopped.

Option: Stopping continuous dispensing

- ▶ Press the [⊖] button.
 - ☑ The current dispensing process is stopped.

Option: Deleting beverages in the pre-selection

- ▶ Press the [⊖] button.
 - ☑ The pre-selected beverages are deleted.
 - ☑ The current beverage will be fully dispensed.

Pre-selecting beverages



If configured, multiple different beverages can be selected and dispensed consecutively. The coffee machine dispenses the beverages in the order in which they were selected.

While the current beverages are being dispensed, it is possible to select additional beverages that are to be dispensed consecutively.

Select product
pre-selection 1

- ▶ Place a cup under the beverage outlet.
- ▶ Press the desired beverage button(s).
- ▶ Once the first beverage has been dispensed, remove the cup and place the next one under the beverage outlet.

Delete beverages in the pre-selection.

- ▶ Press the [⊖] button.
 - ☑ The pre-selected beverages are deleted.
 - ☑ The current beverage will be fully dispensed.
- ▶ Pressing the [⊖] button again stops the current dispensing process before it is complete.

Double beverage



If configured, two beverages can be dispensed at the same time by pressing the [2x] button.

- ▶ Place cups under the beverage outlet.
- ▶ Press the [2x] button.
- ▶ Press the desired beverage button.
- ▶ Remove cups after the beverages have been dispensed.

Beverages with MONEY card



If internal accounting has been released, beverages can only be purchased using the MONEY card.

- ▶ Place a cup under the beverage outlet.
- ▶ Insert MONEY card.
 - ☑ The available amount appears in the display.
- ▶ Press the desired beverage button.
- ▶ Remove the cup after the beverage has been dispensed.
- ▶ Remove MONEY card.

Emptying

Grounds container



Coffee grounds land in the grounds container. Beverage dispensing is blocked whenever the grounds container is not closed.

CAUTION!

Risk of machine damage!



Operating the automatic beverage outlet manually will damage it.

When removing the grounds container, make sure this does not affect the automatic beverage outlet.

- ▶ Slide manual beverage outlet into highest position.
- ▶ Remove grounds container.
- ▶ Empty grounds container and return to position.
 - ☑ The machine is once again ready for use.

Under-counter grounds disposal

The coffee cakes ejected out of the brewing unit pass via the under-counter grounds disposal cutout into the grounds container underneath.

- ▶ Open the counter door and remove the under-counter grounds container.
- ▶ Empty the under-counter grounds container.
- ▶ Put the under-counter grounds container back in place and close the counter door.



If the container is full, no instruction to empty it will appear on the machine's display. The under-counter grounds container should therefore be checked at regular intervals.

Waste water tank

In coffee machines with an external waste water tank, the tank needs to be emptied regularly, at the latest when the empty instruction appears on the display.

- ▶ Remove and empty the waste water tank.
- ▶ Clean the waste water tank thoroughly with household cleaner and rinse with fresh water.
- ▶ Replace the waste water tank.

Transport conditions

CAUTION!

User at risk!



Improper transporting of the coffee machine can result in injuries.

Observe the general regulations for health and safety.

- ▶ Before moving the coffee machine, it is essential that you detach the drinking water supply, power supply and waste water outlet.
- ▶ Before moving the coffee machine, check the floor for obstacles and uneven areas.

CAUTION!

Risk of machine damage!



Improper transport of the machine could damage the machine.

Adhere to the following instructions when moving machines on a cart:

- For safety reasons, the cart must be pulled and not pushed when moving the coffee machine.
- Only pull on the cart and never on the machine.
- The cart is not intended for transporting cargo.



The manufacturer cannot be held liable for any damage resulting from unintended use of the cart or from failure to follow the operating instructions.

Display messages/instructions

Display message	Cause	What to do
Grounds container missing	- The grounds container was removed (cleaning program, emptying, etc.). - The limit switch is defective.	▶ Insert grounds container. ▶ If the message persists: Contact your service partner.
Emptying grounds container	The grounds container is full.	▶ Empty grounds container.
Cleaning program	Appears when a programmed count of beverages has been dispensed without the machine being cleaned.	▶ Perform daily cleaning (see Cleaning chapter).
Grinder left/right no beans	Appears when the bean hopper is empty or if a coffee bean has become wedged.	▶ Fill bean hopper with coffee beans (max. 1,000 g per hopper) and confirm.
Grinder left/right blocked	An object (such as a stone) has become jammed in the grinder.	▶ Check grinder for blockage and remove remaining beans with vacuum if necessary.
Heating coffee water/hot water/steam	The temperature is 10 °C below the programmed temperature.	▶ Wait until the temperature has been reached. ▶ If the message persists: Contact your service partner.
Filter change	The programmed water volume (litres/month) has passed through the filter.	▶ Contact your service partner.
Service instruction	The programmed number of beverages (cups/month) has been reached. Service is required.	▶ Contact your service partner.
Drinking water tank empty	- Drinking water tank is empty. - The float switch is defective.	▶ Fill drinking water tank and place under the counter. ▶ If the message persists: Contact your service partner.
Waste water tank full?	- Waste water tank is empty. - The float switch is defective.	▶ Empty waste water tank and place under the counter. ▶ If the message persists: Contact your service partner.
Add ground coffee?	[DECAF] button has been pressed in order to dispense a decaffeinated beverage. - The inlet for ground coffee and cleaning tablets has been opened.	▶ Add ground coffee to dispense a decaffeinated beverage. ▶ Close the inlet for ground coffee and cleaning tablets. ▶ If the message persists: Contact your service partner.

Switching off

End of operation

At the end of operation, proceed as follows:

- ▶ Perform daily cleaning (see "Cleaning" chapter).
- ▶ Press the [⏻] button.
 - ☑ The machine switches to "Standby".

<< Stand by >>

Option: Mains water supply

- ▶ Close the main water valve for the drinking water line.

Option: Drinking water and waste water tank

- ▶ Empty and rinse the drinking water tank.
- ▶ Empty and thoroughly clean the waste water tank.

Option: Milk system (option)

- ▶ Remove the milk container.
- ▶ Empty and clean the milk container.

CAUTION!
Risk of machine
damage!



The water pump is running dry. There may be damage to the machine.
Before putting the machine back into operation, open the main water valve and only then switch on the machine.



See also Chapter "Cleaning" - "Daily cleaning".

Lengthy downtimes (more than 1 week)

After downtimes of a week or more, proceed as follows:

- ▶ Perform daily cleaning (see "Cleaning" chapter).
- ▶ Press the [⏻] button.
 - ☑ The machine switches to "Standby".

<< Stand by >>

Option: Mains water supply

- ▶ Close the main water valve for the drinking water line.

Option: Drinking water and waste water tank

- ▶ Empty and rinse the drinking water tank.
- ▶ Empty and thoroughly clean the waste water tank.

Option: Milk system

- ▶ Remove the milk container.
- ▶ Empty and clean the milk container.

CAUTION!
Risk of machine
damage!



The water pump is running dry. There may be damage to the machine.
Before putting the machine back into operation, open the main water valve and only then switch on the machine.



Perform a daily clean before putting the machine back into operation.

Cleaning

Cleaning intervals

Cleaning intervals					
Daily	Weekly	As required	Instruction	Optional	
Automatic cleaning					
x					Cleaning programme
x					Automatic rinsing (if programmed)
x		x			Hot rinsing
x		x		O	Milk hose rinse
x		x		O	Milk system cleaning
Manual cleaning					
x					Foamer head
x		x		O	Steam wand
x					Grounds container
x					Drip tray and drip grid
x					Outer cleaning
x					Brewing compartment
	x	x			Beans /Powder container
x				O	Mixer
x				O	Milk container
x				O	Cooling unit
x				O	Drinking water tank (external)
x				O	Waste water tank (external)

Legend

Daily:	At least once a day, or more often if necessary.
Weekly:	At least once a week, or more often if necessary.
As needed:	As needed (if dirty).
Instruction:	An instruction appears on the display.
Optional:	Depending on machine equipment.



For a better overview of the cleaning steps that are required or that have already been performed, use the cleaning schedule in this chapter.

Cleaning products

CAUTION!
Risk of machine
damage!



Use of incorrect cleaning products may damage the machine.
Use only cleaning products for daily and weekly cleaning that are recommended by Schaerer AG.



Before using a cleaning product, read the information on the packaging and the safety data sheet carefully. If a safety data sheet is not available, please request it from your sales partner.



Cleaning tablets for coffee system

Application	Daily cleaning of the coffee system
Purpose of cleaning	Removal of grease residue in the coffee system
Application interval	Once daily



Cleaning tablets for milk system

Application	Daily cleaning of the milk system
Purpose of cleaning	Removal of milk fat and bacteria from the milk system
Application interval	Once daily

Mandatory cleaning

If a due cleaning procedure is not performed despite an instruction to do so on the display, mandatory cleaning will set in (if programmed) after a certain time. When mandatory cleaning sets in, beverage dispensing is blocked.

Beverages cannot be dispensed again until after the machine has been cleaned.



Mandatory cleaning and the period that elapses before it sets in can only be programmed by the service technician.

Cleaning options

Hot rinsing

CAUTION!
Hot fluid!



- Briefly press [] once
- ☑ Rinse time ±10 seconds.

Milk hose rinse

CAUTION!
Hot fluid!



- Briefly press [] twice
- ☑ Milk hose flushing starts (for duration, see display).

Automatic switch-off rinsing function

CAUTION!
Hot fluid!



Scalding hazard due to hot water.

Never reach beneath the beverage outlet or into the machine when beverages are being dispensed.

Before the machine is switched off, a hot rinsing cycle is performed. A warning message appears on the display beforehand.



Automatic switch off rinsing can only be set up by a service technician.

Flush coffee

The flush coffee is dispensed immediately after cleaning. The flush coffee is not drinkable.



This setting is useful for 24-hour operation. It avoids a "Water flow error" when the first coffee is dispensed after cleaning.



The flush coffee can only be set up by a service technician and is based on the espresso recipe.

Steam rinse

CAUTION!
Hot fluid!



**Scalding hazard due to hot water dispensed by the steam outlet.
Never reach beneath the steam outlet or into the machine when beverages are being dispensed.**

The steam flush is performed during the cleaning program and flushes the steam boiler with hot water.



The steam flush can only be set up by a service technician.

Daily cleaning

Schaerer Coffee Art Plus with Milk Smart



See also "Safety instructions" and "Cleaning" in the operating instructions.

CAUTION!
User at risk!



In the beverage dispensing area, there is a danger of scalding due to hot water and steam. Never reach under the dispensers while dispensing or cleaning.

SCAplus Cup & Cool



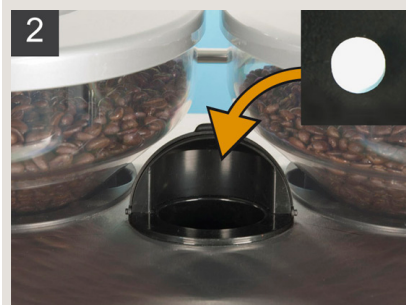
SCAplus Milk Smart Cooler



- ▶ Press - button approx. 4 sec.
- ☑ Display: "Cleaning programme / empty gr. container".
- ▶ Pull out the grounds container within 5 sec seconds and clean it.
- ▶ Clean brewing chamber with a brush.
- ▶ Insert the grounds container.

Option: Powder system

- ☑ Display: "Check if mixer is in place".
- ▶ - Press the button.



- ☑ "Cleaning programme / insert tablet" appears on the display.

▶ Open inlet for ground coffee.

Option 1: Without lid monitor

- ▶ Insert cleaning tablet
- ▶ - Press the button.

Option 2: With lid monitor

- ▶ Insert cleaning tablets within 15 sec.
- ▶ Close decaf inlet.



1000ml

Option 1: Without milk supply / deactivated milk system

- ▶ Continue with step 6.

Option 2: With milk supply

- ☑ Display: "Cleaning programme / cleaning agent".
- ▶ Fill a mixture of 50 ml Schaerer cleaning agent and 1000 ml water in the cleaning container.



Option 1: Milk Smart

- ▶ Place hoses in the cleaning container (the end of the hose must touch the bottom of the container).
- ▶ - Press the button.

Option 2: Milk Smart Cooler / Cup & Cool

- ▶ Open doors.
- ▶ Pull the hose off of the cover.
- ▶ Clean milk container (A).
- ▶ Mount lid and hose on the cleaning container.
- ▶ Put cleaning container inside (B).
- ▶ - Press the button.



- ☑ Cleaning is running (see display for duration).
- ☑ "Cleaning programme / rinsing water" appears on the display.

- ▶ Rinse the cleaning container and fill with 1000 ml fresh water.

Option 1: Milk Smart

- ▶ Repeat step 4.
- ☑ Cleaning is running.

Option 2: Milk Smart Cooler / Cup & Cool

- ▶ Remount lid and hose on cleaning container.
- ▶ Replace cleaning container.
- ▶ - Press the button.
- ☑ Cleaning is running (see display for duration).

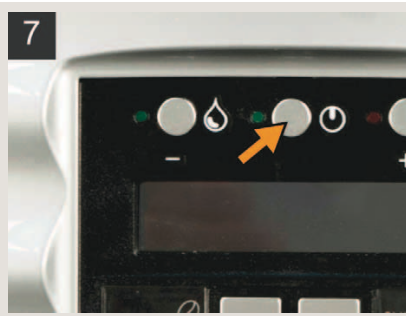


Option 1: Without steam; or boiler rinse not active

- ▶ Continue with step 7.

Option 2: With steam and active boiler rinse

- ☑ "Cleaning programme / hot rinsing" appears on the display.
- ▶ Place a container (ca. 1 l capacity) under the steam wand.
- ▶ - Press the button.
- ☑ Rinsing / cleaning is running (see display for duration).

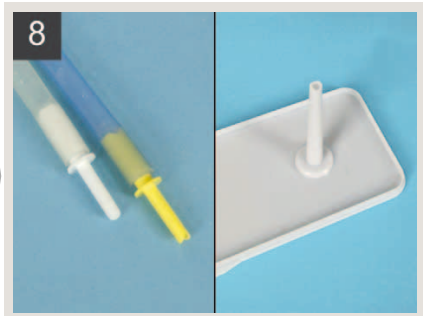


Option 1: "Automatic switching off after cleaning" deactivated

- ☑ Continue with step 8.

Option 2: "Automatic switching off after cleaning" activated

- ☑ The machine switches automatically to "Stand by".
- ▶ Begin operating machine with the - button.



- ☑ "Remove rinsing water" appears on the display.

- ▶ Rinse out cleaning container.

Option 1: Milk Smart

- ▶ Clean the outside of the milk hoses with a damp cloth.
- ▶ - Press the button.

Option 2: Milk Smart Cooler

- ▶ Clean lid and pipe thoroughly with a damp cloth.
- ▶ Mount the hose and cover onto the milk container.
- ▶ Put the milk container inside.
- ▶ - Press the button.



Following use of milk beverages or if the milk system is deactivated:

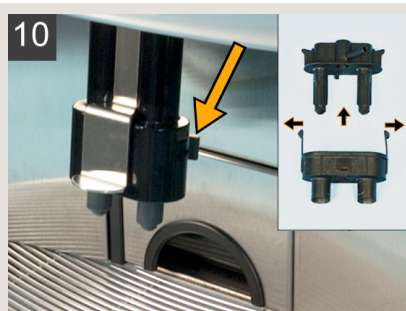
- ☑ Display: Milk system on / off.

Option 1: Milk system on

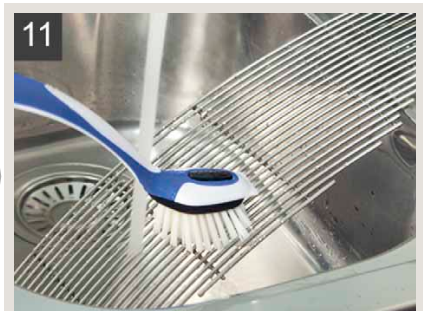
- ▶ - Press the button.

Option 2: Milk system off

- ▶ - Press the button.
- ☑ Automatic cleaning complete.



- ▶ Remove foamer head from holder (press lock to the right).
- ▶ Pull hose off foamer head.
- ▶ Disassemble foamer head and clean under warm, flowing water.
- ▶ Remove residue with a brush.
- ▶ Reassemble and install the foamer head (it will "click" upon engaging in place).
- ▶ Reattach the hose to the foamer head (do not forget the spring).



- ▶ Clean the drip grid under warm, running water.
- ▶ Clean the drip tray with a moist cloth.

Option: Machine with steam

- ▶ Wipe the steam wand daily with a moist, clean cloth.
- ▶ Press the steam button briefly $\pm$ 5 times to remove milk remains.

CAUTION!
User at risk!



Improper handling of beans, water, milk, powder or other coffee ingredients can lead to health problems!
Observe HACCP hygiene regulations!



See also "Safety instructions" - "HACCP hygiene regulations" in the operating instructions.

Schaerer Coffee Art Plus with cold milk system



See also "Safety notes" and "Cleaning" in the operating instructions.

CAUTION!
User at risk!

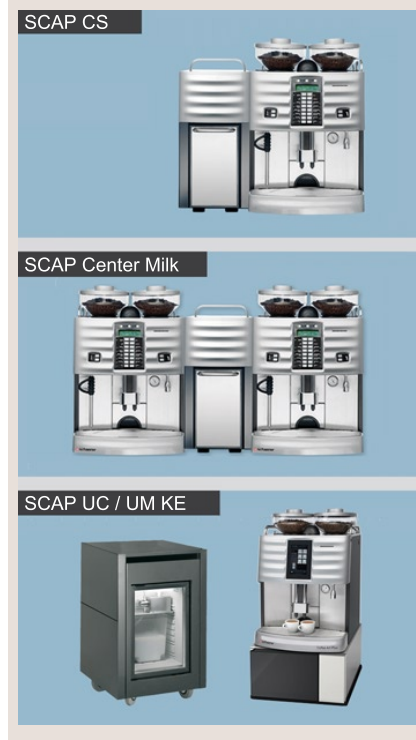


There is a risk of scalding in the beverage, hot water and steam dispensing areas.
Never reach underneath the dispensing units during dispensing or cleaning operations.

CAUTION!
Risk of machine
damage!



The misuse of cleaning products may damage the machine.
You must never under any circumstances insert Milkpure tablets into the manual inlet.



- ▶ Press [💧] button for ca. 4 sec.
- ☑ Display: "Cleaning programme/Empty grounds container".
- ▶ Pull out the grounds container within 5 second clean it.
- ▶ Clean brewing chamber with a brush.
- ▶ Insert the grounds container.

Option: Powder system

- ☑ Display: "Ensure that the mixer has been inserted".
- ▶ Press [💧] button.



- ☑ Display: "Cleaning programme/Insert tablets".

- ▶ Open the manual inlet.

Option 1: With lid monitor

- ▶ Insert the cleaning tablets for the coffee system within 15 sec.

Option 2: Without lid monitor

- ▶ Insert the cleaning tablets for the coffee system.
- ▶ Press [💧] button.
- ▶ Close the inlet.



Option 1: Without steam; without boiler rinse

- ▶ Continue with step 4.

Option 2: With steam; with boiler rinse

- ☑ Display: "Cleaning programme/Hot rinsing".
- ▶ Place a container (with a capacity of ca. 1 l) under the steam wand.
- ▶ Press [☺] button.
- ☑ Hot rinsing running.



Option 1: Deactivated milk system

- ☑ Cleaning started (see display for duration).
- ▶ Continue with step 7.

Option 2: Activated milk system

- ☑ Display: "Cleaning programme/Cleaning products".
- ▶ Open cooling unit doors.
- ▶ Remove the milk container.



- ▶ Insert milkpure tablets into the cleaning container. Dosage:

- Single-chamber cleaning container: 1 tablet
- Dual-chamber cleaning container: 1 tablet per chamber.
- Single-chamber cleaning container for Center Milk: 2 tablets



- ▶ Insert cleaning container (1).
- ▶ Place hose/hoses in the container (2).
- ▶ Press [☕] button.
 - ☑ Cleaning is running (see display for duration).



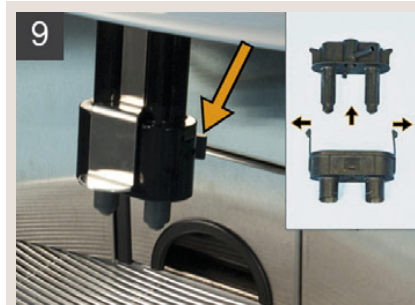
Option 1: "Automatic switching off after cleaning" deactivated

- ☑ Continue with step 8.
- Option 2: "Automatic switching off after cleaning" activated**
 - ☑ The machine switches automatically to "Stand by".
- ▶ Start up the machine by pressing [☕] button.



- ☑ Display: "Remove cleaning agent" (only in case of milk cleaning).
 - ▶ Remove and rinse the cleaning container.
 - ▶ Clean outside of hose with a damp cloth.
 - ▶ Press [☕] button.
- Following use of milk beverages or if the milk system is deactivated:

- ☑ Display: Milk system on/off
- Option 1: Milk system on**
 - ▶ Press [☕] button.
- Option 2: Milk system off**
 - ▶ Press [⊖] button.
 - ☑ Automatic cleaning finishes.



- ▶ Remove foamer head from holder (press lock to the right).
- ▶ Pull hose off foamer head.
- ▶ Disassemble foamer head and clean part under warm running water.
- ▶ Remove residues with brush.
- ▶ Reassemble and reinsert the foamer head (you will hear a "click" when it locks into place).
- ▶ Reattach the hose to the foamer head (do not forget the spring).



Option: Machine with steam

- ▶ Wipe the steam wand daily with a damp, clean cloth.
- ▶ Press the steam button ±5 times briefly to remove any milk residue



- ▶ Clean the drip grid under warm, running water.
- ▶ Clean the drip tray with a damp cloth.
- ▶ Clean the outer surfaces of the machine with a damp cloth.

CAUTION!
User at risk!



Improper handling of beans, water, milk, powder or other coffee ingredients can lead to health problems!
Observe hygiene regulations as specified by HACCP.



See also "Safety instructions" - "HACCP hygiene regulations" in the operating instructions.

Schaerer Coffee Art Plus



See also "Safety instructions" and "Cleaning" in the operating instructions.

CAUTION!
User at risk!



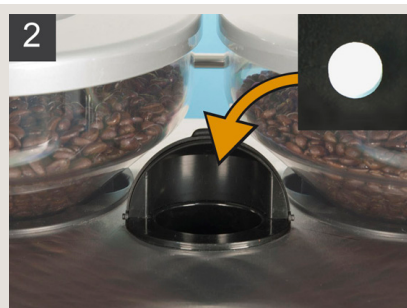
In the beverage dispensing area, there is a danger of scalding due to hot water and steam. Never reach under the dispensers while dispensing or cleaning.



- ▶ Press - button approx. 4 sec.
- ☑ Display: "Cleaning programme / empty gr. container".
- ▶ Pull out the grounds container within five seconds and clean it.
- ▶ Clean brewing chamber with a brush.
- ▶ Insert the grounds container.

Option: Powder system

- ☑ Display: "Check if mixer is in place".
- ▶ - Press the button.



- ☑ "Cleaning programme / insert tablet" appears on the display.
- ▶ Open inlet for ground coffee.

Option 1: Without lid monitor

- ▶ Insert cleaning tablet
- ▶ - Press the button.

Option 2: With lid monitor

- ▶ Drop in cleaning tablet within 15 sec.
- ▶ Close decaf inlet.



Option 1: Without steam; deactivated boiler rinse

- ▶ Continue with step 4.

Option 2: With steam and active boiler rinse

- ☑ Display: "Cleaning programme / hot rinsing".
- ▶ Place a container (ca. 1 l capacity) under the steam wand.
- ▶ - Press the button.



- ☑ Rinsing/cleaning is running.

See display for duration.

- ☑ Display: "Select product".
- ▶ Remove the foamer head from the holder (press the lever at the right rear).
- ▶ Pull hose off foamer head.



- ▶ Disassemble foamer head and clean under warm, flowing water.
- ▶ Remove residue with a brush.
- ▶ Reassemble and install the foamer head (it will "click" upon engaging in place).
- ▶ Reattach the hose to the foamer head (do not forget the spring).



Option 1: Without steam

- ▶ Continue with step 7.

Option 2: With steam

- ▶ Press the steam button briefly $\pm$ 5 times to remove milk remains.
- ▶ Wipe the steam wand using a clean, moist cloth.



- ▶ Clean the drip grid under warm, running water.
- ▶ Clean the drip tray with a moist cloth.
- ▶ Reinsert the drip grid.



- ▶ Clean the outer surfaces of the machine with a moist cloth.

CAUTION!
User at risk!



Improper handling of beans, water, milk, powder or other coffee ingredients can lead to health problems!
Observe HACCP hygiene regulations!



See also "Safety instructions" - "HACCP hygiene regulations" in the operating instructions.

Milk container

CAUTION!
User at risk!



There is a danger of contamination of the milk and milk container due to milk deposits and bacteria.

Clean the milk container and cover every time before filling.

- ▶ Thoroughly rinse the milk container with fresh water several times.
- ▶ Carefully clean the milk container cover with fresh water.
- ▶ Dry with a clean cloth.

Drinking water tank

CAUTION!
User at risk!



There is a contamination danger for the drinking water tank due to deposits and bacteria.

Rinse the drinking water tank daily; do not use cleaning products.

- ▶ Thoroughly rinse the drinking water tank with fresh water several times.
- ▶ Dry with a clean cloth.

Grounds container

CAUTION!
User at risk!



Coffee grounds in the grounds container can quickly lead to mould formation. The spread of mould spores in the machine results in the danger of contamination of the coffee.

Therefore, clean the grounds container daily.

- ▶ Thoroughly clean the grounds container with water and a household cleaning product.
- ▶ Rinse with clear water and dry with a clean cloth.

CAUTION!
User at risk!



External waste water tank

There is a danger of contamination for the waste water tank due to deposits and bacteria.

Rinse and clean the waste water tank and cover every day.

- ▶ Thoroughly rinse the waste water tank with fresh water several times.
- ▶ Thoroughly clean the cover of the waste water tank with fresh water.
- ▶ Dry with a clean cloth.

Side cooling unit

CAUTION!
User at risk!



There is a risk of contamination of the milk and cooling unit due to milk deposits and bacteria.

Clean the cooling unit daily.

- ▶ Take the milk container out of the cooling unit.
- ▶ Wipe out the inside of the cooling unit with fresh water and a fresh, unused cloth.
- ▶ Place the milk container back into the cooling unit.



See also "Safety notes" - "Hygiene rules" - "Milk".

Manual weekly cleaning

Schaerer Coffee Art Plus with powder system



See also "Safety notes" and "Cleaning" in the operating instructions.

CAUTION!
User at risk!



There is a risk of scalding in the beverage, hot water and steam dispensing areas.
Never reach underneath the dispensing units during dispensing or cleaning operations.

CAUTION!
Hot fluid!



Risk of scalding when powder-based beverages are being dispensed or when the hose is disconnected from the mixer.

Before you disconnect the hose from the mixer, pull out the grounds drawer.

CAUTION!
Risk of machine damage!



The misuse of cleaning products may damage the machine.
You must never under any circumstances insert Milkpure tablets into the manual inlet.

Powder system cleaning

1



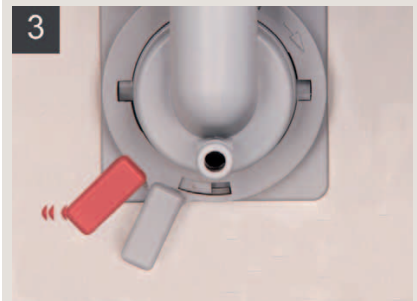
The Powder system needs to be cleaned at least once a week.

2



- ▶ Push cover up and remove.
- ▶ Remove beverage hose on outlet mixing cup.
- ▶ Pull out the grounds drawer.
- ☑ Beverage output is blocked.

3



- ▶ Turn lever under outlet mixing bowl anticlockwise.
- ▶ Pull outlet mixing bowl forward.
- ▶ Remove beverage hose from machine.

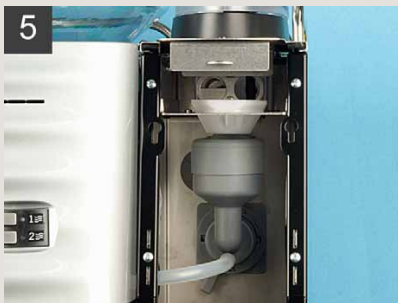
4



- ▶ Disassemble mixing bowl into two parts (see figure).
- ▶ Clean parts and beverage hose under warm running water.

Do not mount the parts before they are dry.

5



- ▶ Remount the mixing bowl in reverse.
- ▶ Remount the hoses (don't forget spring).
- ▶ Place a collection bowl under the mixer again.
- ▶ Reattach the cover.
- ▶ The grounds drawer can now be pushed in again.

6

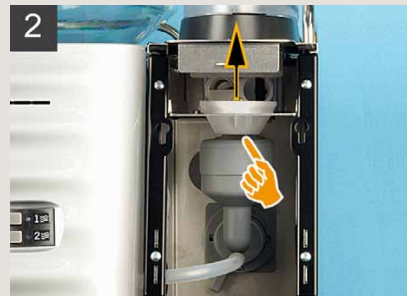


- ▶ Start automatic cleaning programme.
- ▶ Follow the description on the display.

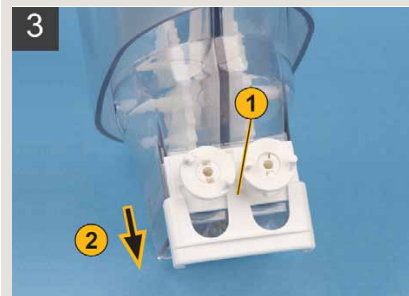
Powder system cleaning as needed



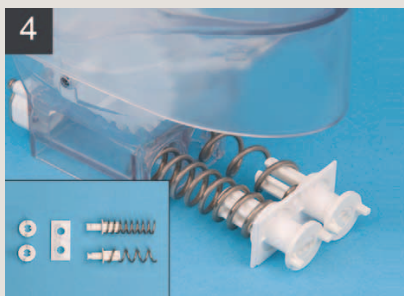
- Open lock.
- Remove powder container.
- Discard the remaining powder.



- Remove and clean funnel above the mixer.
- Remove stubborn residue with a cleaning brush.
- Reattach the funnel.



- Lift cover in the centre (1) and push down (2).



- Pull augers out.
- Clean the powder container and parts under warm, running water.

Do not mount the parts before they are dry.

- Remount augers in reverse order.
- Push augers into the powder container.
- Reattach the cover.
- Replace powder container.
- Close lock.

CAUTION!
User at risk!



Improper handling of beans, water, milk, powder or other coffee ingredients can lead to health problems!

Observe hygiene regulations as specified by HACCP.



See also "Safety instructions" - "HACCP hygiene regulations" in the operating instructions.

Bean hopper

Old coffee bean oil can have a negative effect on the taste of the coffee.

CAUTION!
User at risk!



Rotating grinding gauges in the grinder are an injury hazard.
Never reach into the bean hopper while the coffee machine is switched on.

CAUTION!
Risk of machine damage!



Scratches on bean hoppers.
Do not use abrasive cleaning products.

- Latch bean hopper using knob.



- ▶ Pull slider forwards.
 - ☑ Opening leading to machine is locked.
- ▶ Remove bean hopper.
- ▶ Remove remaining coffee beans from machine and bean hopper.
- ▶ Rinse bean hopper thoroughly under running water and wipe clean using a soft cloth.
- ▶ Dry the cover and hopper with a clean cloth.
- ▶ Reattach the bean hopper.
- ▶ Push the slider backwards.
 - ☑ Opening leading to machine is unlocked.
- ▶ Refill the beans.

Defrosting cooling unit (Option)

Option: Defrosting the side cooling unit

CAUTION!
Risk of machine
damage!



**The surface of the cooling unit's interior may get damaged.
Never remove the ice layer with pointed or sharp objects; always let it defrost.**

- ▶ Switch off the additional side cooling unit or pull out the mains plug.
- ▶ Open the front door and leave it open.
- ▶ Wipe up the condensation water incurred with an absorbent cloth.
- ▶ Repeat the procedure until the ice layer has melted completely.
- ▶ Close the front door and switch the device on again or reinsert the mains plug.

As needed

Drip tray

CAUTION!
Risk of machine
damage!



**High temperatures may lead to damage.
Never clean the drip tray in the dishwasher.**



- ▶ Thoroughly clean the drip tray and the drip grid with water and a household cleaning product.
- ▶ Rinse with clear water and dry with a clean cloth.

Cup & Cool



The cleaning procedure for Cup & Cool is described in the separate operating instructions "Cup Warmer/Cup & Cool".

Cup warmer



The cleaning for the cup warmer is described in the separate operating instructions "Cup warmer / Cup & Cool".

HACCP cleaning concept

Cleaning requirements and conditions

When installation, maintenance, care and cleaning are performed properly, Schaerer AG coffee machines satisfy the conditions of HACCP requirements.

CAUTION!
Risk of machine
damage!



If the coffee machine is not cared for and cleaned properly, the dispensing of milk beverages will become a health hazard in terms of food hygiene.

Note and adhere to the following instructions:

- Wear safety gloves during cleaning.
- Wash your hands thoroughly before and after cleaning.
- Clean the coffee machine daily after beverage supply has ended.
- Clean the milk container every time before filling and after you have finished dispensing beverages for the day.
- Never pour cleaning products into the milk container.
- Never pour cleaning products into the drinking water tank (internal/external).
- Never mix cleaning products.
- Store cleaning products separately from coffee, milk and coffee machine powder.
- Do not use any abrasive products, brushes or cleaning tools made of metal.
- Do not touch parts that come into contact with beverages after cleaning.
- Read and follow the dosing and safety notes specified on the cleaning product.
- For daily and weekly cleaning, proceed as described in the operating instructions and on the cleaning cards.



For a better overview of the cleaning steps that are required or that have already been performed, use the cleaning schedule in this chapter.

Service and maintenance

Maintenance

The coffee machine requires regular maintenance. The maintenance schedule depends on multiple factors, especially the degree to which the machine is used.

When maintenance is due, the machine indicates this on the display. The machine can continue to be operated normally.

► Notify your service partner that maintenance is due.

CAUTION!
Risk of machine
damage!



Failure to perform required maintenance in due time may lead to wear and mean that reliable operation is no longer assured. Inform the service partner as soon as possible after the maintenance message appears.

Option 1: Schaerer Coffee Art Plus:

After 55,000 beverages have been served.

Option 2: Other general maintenance intervals:

Safety valves: every 12 months.

Boilers (steam boilers, flow heaters): every 72 months.

CAUTION!
Risk of machine
damage!



The manufacturer will assume liability under warranty in respect of any claims only and exclusively if the prescribed maintenance intervals are observed.

External water filter



The external water filter must be replaced by an authorised service partner/service technician after the programmed number of litres is reached.



The "Water quality" supplementary instructions include information on recording the water values and using filter equipment. The supplementary instructions can be requested from Schaerer AG or downloaded directly from the MediaCentre on the website (<http://www.schaerer.com/member>).

Programming



To access the programming level, proceed as follows.

- ▶ Insert the CHEF card into the card reader.
 - ☑ The programming level is shown on the display.

The following menus are available

- Read out counters
- Product buttons
- System settings
- Machine timer

Navigation

Symbol	Description
	• Page forward and back in the programming. • Set parameters.
	• Opens the programming of the machine. • "OK" to confirm new or existing settings and continue to the next menu item.
	Beverage button

Setting examples

Setting numerical values

Parameter	Description
	▶ Insert the CHEF card into the card reader. ☑ The programming level opens.
Product buttons	▶ Press [] to access the beverage buttons/product buttons parameter.
Product buttons	▶ Press [] to access the adjustment range.
Selecting product	▶ Press the required beverage button to access the corresponding adjustment range.
Water volume	▶ Press [] to access the water volume parameter.
Water volume	▶ Press [] to access the adjustment range.
Water volume < 40 ml >	▶ Press []/[] to set the value.
Water volume 40 ml	▶ Press [] to confirm.
	▶ Pull the CHEF card out of the card reader. ▶ Press [] to confirm the restart. ☑ The machine restarts and the setting is accepted.

Preset adjustment range

Parameter	Description
Timer on Yes	► Press [1] to access the adjustment range.
Timer on < No >	► Press [+]/[-] to set the value.
Timer on No	► Press [1] to confirm.

Reading out counters**Daily counter**

Parameter	Parameter description	Adjustment range	Note
Dispensed products (all) XXX	All dispensed beverages are displayed.	-	-
Brewed beverages XXX	All brewed beverages are displayed.	-	-
Coffee products XXX	Dispensed coffee products are displayed.	-	-
Cappuccino/Latte XXX	Dispensed cappuccino and latte products are displayed.	-	-
Milk/Foam XXX	Dispensed milk and foam products are displayed.	-	-
Decaffeinated XXX	Dispensed decaffeinated products (DECAF) are displayed.	-	-
Double products (2 x) XXX	Dispensed double beverages are displayed.	-	-
Hot water XXX	Dispensed hot water beverages are displayed.	-	-
Cold water XXX	Dispensed cold water beverages are displayed.	-	-
Steam products XXX	Dispensed steam products are displayed.	-	-
Hot chocolate XXX	Dispensed hot chocolate products are displayed.	-	Shown only if the machine is equipped with a powder system.
Chociatto XXX	Dispensed Chociatto products are displayed.	-	Shown only if the machine is equipped with a powder system.
Cup warmer XXX	Steam cup warmer - number of activations is displayed.	-	-
Products (buttons) XXX	The number of products dispensed using the selected button is displayed.	-	Counter per button DECAF beverages dispensed (decaffeinated) Dispensed credit products Dispensed token products

Parameter	Parameter description	Adjustment range	Note
Credit statistics XXX	The credit statistics are displayed.	-	-
Token statistics XXX	The token statistics are displayed.	-	-
Erasing daily counters Execute with "ON"	To erase the counters: ► Press the [ⓘ] button. To not delete the counters: ► Press the [⊖] button.	-	The deleted data cannot be restored.

Machine counter



The machine counter cannot be deleted.

Parameter	Parameter description	Adjustment range	Note
Dispensed products (all) XXX	All dispensed beverages are displayed.	-	-
Coffee products XXX	Dispensed coffee products are displayed.	-	-
Cappuccino/Latte XXX	Dispensed cappuccino and latte products are displayed.	-	-
Milk/Foam XXX	Dispensed milk and foam products are displayed.	-	-
Decaffeinated XXX	Dispensed decaffeinated products (DECAF) are displayed.	-	-
Double products (2 x) XXX	Dispensed double products are displayed.	-	-
Hot water XXX	Dispensed hot water beverages are displayed.	-	-
Cold water XXX	Dispensed cold water beverages are displayed.	-	-
Steam products XXX	Dispensed steam products are displayed.	-	-
Hot chocolate XXX	Dispensed hot chocolate products are displayed.	-	Shown only if the machine is equipped with a powder system.
Chociatto XXX	Dispensed chociatto products are displayed.	-	Shown only if the machine is equipped with a powder system.
Cup warmer XXX	Steam cup warmer - number of activations is displayed.	-	-
Amount of cleaning instances XXX	The number of cleaning operations performed is displayed.	-	-
Brewing piston strokes XXX	The number of brewing piston strokes is displayed.	-	-
Grind quantity (total) XX.X kg	The grind quantity (of both grinders) is displayed.	-	-

Parameter	Parameter description	Adjustment range	Note
Water pump time [h] XX.X	The operating time of the water pump is displayed in hours.	-	-
Water volume XX litres	The water volume is displayed.	-	-

Service counter



The service counter cannot be deleted.

Parameter	Parameter description	Adjustment range	Note
Brewing piston strokes XXX	All brewing piston strokes are displayed.	-	-
Motor piston strokes XXX	All brew motor movements are displayed.	-	-
Grinder time l [h] X.XX	The grinding time of the left grinder is displayed.	-	-
Grinder time r [h] X.XX	The grinding time of the right grinder is displayed.	-	-
Air pump time [h] X.XX	The running time of the air pump is displayed.	-	-
Mixer motor time X.XX	The running time of the mixer motor is displayed.	-	-
Flavour pump 1 time X.XX	The running time of the 1st flavour pump is shown.	-	-
Flavour pump 2 time X.XX	The running time of the 2nd flavour pump is shown.	-	-
Flavour pump 3 time X.XX	The running time of the 3rd flavour pump is shown.	-	-
Flavour pump 4 time X.XX	The running time of the 4th flavour pump is shown.	-	-
Coffee relay XXXX	All switching operations of the coffee relay are displayed.	-	-
Hot water relay 1 XXXX	All switching operations of the hot water relay 1 are displayed.	-	-
Hot water relay 2 XXXX	All switching operations of the hot water relay 2 are displayed.	-	-
Steam relay 1 XXXX	All switching operations of the steam relay 1 are displayed.	-	-
Steam relay 2 XXXX	All switching operations of the steam relay 2 are displayed.	-	-
Grind quantity G-right XXX.X kg	The grind quantity of the right grinder is displayed.	-	-
Grind quantity G-left XXX.X kg	The grind quantity of the left grinder is displayed.	-	-

Parameter	Parameter description	Adjustment range	Note
Flavour hose 1 time X.XX	The running time of the 1st flavour hose is shown.	-	-
Flavour hose 2 time X.XX	The running time of the 2nd flavour hose is shown.	-	-
Flavour hose 3 time X.XX	The running time of the 3rd flavour hose is shown.	-	-
Flavour hose 4 time X.XX	The running time of the 4th flavour hose is shown.	-	-
Water pump time [h] XXX	The operating time of the water pump is displayed in hours.	-	-
Last filter change > dd.mm.yyyy <	The date of the last filter change is displayed.	-	-
Last service > dd.mm.yyyy <	The date of the last service is displayed.	-	-

Cleaning statistics



The cleaning statistics cannot be deleted.

Parameter	Parameter description	Adjustment range	Note
Cleaning X/X > dd.mm.yyyy hh:mm <	All cleaning cycles on the machine are displayed.	-	-

Error statistics



The error statistics cannot be deleted.

Parameter	Parameter description	Adjustment range	Note
Heating up hot water > dd.mm.yyyy hh:mm <	All faults registered on the machine are displayed (including date and time).	-	-

Beverage buttons

Beverage without milk (e.g. espresso)

Parameter	Parameter description	Adjustment range	Note
Selecting product > Press button <	Select the required beverage button.	-	-
Counted products	Shows the number of dispensed beverages.	-	For information only
Prod. preselection	Beverage preselection active/inactive. The beverages are dispensed one after another in the previously programmed order.	Yes/No	For information only
Dispensing mode	Shows the dispensing mode.	Double product Normal	For information only

Parameter	Parameter description	Adjustment range	Note
Outlet switchover	Shows the outlet switchover.	Yes/No	For information only
Pump pressure	Shows the pump pressure.	Yes/No	For information only
Beverage outlet pos.	Shows the position of the automatic beverage outlet.	0 - 99	For information only
Product test	Dispense test product.	-	-
Select grinder	Shows the selected grinder.	Left Right Left and right	For information only
Grind quantity 9.0 g	Quantity of coffee powder.	4.0 – 16.0 g	Default: 9.0 g (Max.: 14.0 g.; depends on grinding level.)
Strokes per button	Shows the number of strokes per button.	-	For information only
Water volume 40 ml	Volume of coffee water.	1 – 600 ml	Default: Espresso 40 ml, coffee 60 ml
Bypass sequence	Affects brewing accelerator. Defines when additional water (bypass water) is dispensed.	Without brewing accelerator. With coffee Before/after coffee	Shown only if the machine is fitted with the brewing accelerator option.
Bypass water 0.0 sec	Bypass water volume.	0.0 – 30.0 sec	Default: 0.0 sec Shown only if the machine is fitted with the brewing accelerator option.
Compression pressure	Shows the compression pressure level.	Level 1 – 5	For information only
Pre-brewing	Shows whether pre-brewing is active or inactive.	-	For information only
Chamber opening	Shows how long the chamber is open.	-	For information only
2 x grind quantity 14.0 g	Quantity of coffee powder.	4.0 – 16.0 g	14.0 g (Max.: 14.0 g; depends on grinding level). Shown only if "Double product" is programmed in the dispensing mode menu.
2 x compression pressure	Shows the double product compression pressure level.	Level 1 – 5	For information only
2 x chamber opening	Shows how long the chamber is open in the case of a double product.	-	For information only

Beverages with milk (e.g. cappuccino)

Parameter	Parameter description	Adjustment range	Note
Selecting product > Press button <	Select the required beverage button.	-	-
Counted products	Shows the number of dispensed beverages.	-	For information only
Outlet variant	Shows how the product is dispensed. E.g. milk before coffee	Milk before coffee Milk after coffee Milk at the same time	For information only

Parameter	Parameter description	Adjustment range	Note
Prod. preselection	Beverage preselection active/inactive. The beverages are dispensed one after another in the previously programmed order.	Yes/No	For information only
Dispensing mode	Shows the dispensing mode.	Double product Normal	For information only
Outlet switchover	Shows the outlet switchover.	Yes/No	For information only
Pump pressure	Shows the pump pressure.	Yes/No	For information only
Beverage outlet pos.	Shows the position of the automatic beverage outlet.	0 - 99	For information only
Product test	Dispense test product.	-	-
Select grinder	Shows the selected grinder.	Left Right Left and right	For information only
Grind quantity 9.0 g	Quantity of coffee powder.	4.0 – 16.0 g	Default: 9.0 g (Max.: 14.0 g.; depends on grinding level.)
Strokes per button	Shows the number of strokes per button.	-	For information only
Water volume 40 ml	Volume of coffee water.	10 – 600 ml	Default: Espresso 40 ml, coffee 60 ml
Bypass sequence	Affects brewing accelerator. Defines when additional water (bypass water) is dispensed.	Without brewing accelerator. With coffee Before/after coffee	Shown only if the machine is fitted with the brewing accelerator option.
Bypass water 0.0 sec	Bypass water volume.	0.0 – 30.0 sec	Default: 0.0 sec Shown only if the machine is fitted with the brewing accelerator option.
Compression pressure	Shows the compression pressure level.	Level 1 – 5	For information only
Pre-brewing	Shows whether pre-brewing is active or inactive.	-	For information only
Chamber opening	Shows how long the chamber is open.	-	For information only
2 x grind quantity 14.0 g	Quantity of coffee powder.	4.0 – 16.0 g	14.0 g (Max.: 14.0 g; depends on grinding level). Shown only if "Double product" is programmed in the dispensing mode menu.
2 x compression pressure	Shows the double product compression pressure level.	Level 1 – 5	For information only
2 x chamber opening	Shows how long the chamber is open in the case of a double product.	-	For information only
Cold milk time 0.0 sec	Duration of cold milk dispensing.	0.0 – 40.0 sec	Standard: 0.0 sec Available only for machines with cold milk system or under-counter milk system.
Hot milk time 0.0 sec	Duration of hot milk dispensing.	0.0 – 40.0 sec	Default: 0.0 sec Available only for machines with milk system.

Parameter	Parameter description	Adjustment range	Note
Milk idle period 0.0 sec	Duration of idle period after milk dispensing.	-	For information only
Foam time 10.0 sec	Duration of milk foam output.	0.0 – 40.0 sec	Default: 10.0 sec Available only for machines with milk system.
Foam type Hot	Shows which foam type is active.	Hot/Cold	Default: Hot Available only for machines with cold milk system or under-counter milk system.
Foam pump 70%	Speed of pump.	45 - 100%	Default: 70% Available only for machines with cold milk system or under-counter milk system.
Foam idle period 0.0 sec	Duration of idle period after milk foam output.	0.0 – 20.0 sec	Default: 0.0 sec Available only for machines with cold milk system or under-counter milk system.

Milk

Parameter	Parameter description	Adjustment range	Note
Selecting product > Press button <	Select the required beverage button.	-	-
Counted products	Shows the number of dispensed beverages.	-	For information only
Dispensing mode	Shows the dispensing mode.	Single product Double product Press/Hold Start/stop	For information only
Outlet switchover	Shows the outlet switchover.	Yes/No	For information only
Pump pressure	Shows the pump pressure.	Yes/No	For information only
Outlet position	Shows the position of the automatic beverage outlet.	0 - 99	For information only
Product test	Dispense test product.	-	-
Cold milk time 0.0 sec	Duration of cold milk dispensing.	0.0 – 40.0 sec	Available only for machines with cold milk system or under-counter milk system.
Hot milk time 15.0 sec	Duration of hot milk dispensing.	0.0 – 40.0 sec	Default: 15.0 sec Available only for machines with milk system.
Hot milk pump	Shows pump speed.	45 – 100%	For information only

Milk foam

Parameter	Parameter description	Adjustment range	Note
Selecting product > Press button <	Select the required beverage button.	-	-
Counted products	Shows the number of dispensed beverages.	-	For information only

Parameter	Parameter description	Adjustment range	Note
Dispensing mode	Shows the dispensing mode.	Single product Double product Press/Hold Start/Stop	For information only
Outlet switchover	Shows the outlet switchover.	Yes/No	For information only
Pump pressure	Shows the pump pressure.	Yes/No	For information only
Beverage outlet pos.	Shows the position of the automatic beverage outlet.	0 - 99	For information only
Product test	Dispense test product.	-	-
Foam time 10.0 sec	Duration of milk foam output.	0.0 – 40.0 sec	Default: 10.0 sec
Foam type Hot	Shows which foam type is active.	Hot/Cold	Default: Hot Available only for machines with cold milk system or under-counter milk system.
Foam pump	Shows pump speed.	45 – 100 %	For information only

Hot chocolate with powder system (option)

Parameter	Parameter description	Adjustment range	Note
Selecting product > Press button <	Select the required beverage button.	-	-
Counted products	Shows the number of dispensed beverages.	-	For information only
Outlet variant	Shows how the product is dispensed, e.g. milk before coffee	Milk before coffee Milk after coffee Milk at the same time	For information only
Prod. preselection	Beverage preselection active/inactive. The beverages are dispensed one after another in the previously defined order.	Yes/No	For information only
Dispensing mode	Shows the dispensing mode.	Double product Normal	For information only
Outlet switchover	Shows the outlet switchover.	Yes/No	For information only
Pump pressure	Shows the pump pressure.	Yes/No	For information only
Beverage outlet pos.	Shows the position of the automatic beverage outlet.	0 - 99	For information only
Product test	Dispense test product.	-	-
Cold milk time 0.0 sec	Duration of cold milk dispensing.	0.0 – 40.0 sec	Default: 0.0 sec Available only for machines with cold milk system or under-counter milk system.
Hot milk time 0.0 sec	Duration of hot milk dispensing.	0.0 – 40.0 sec	Default: 0.0 sec Available only for machines with milk system.
Milk idle period 0.0 sec	Duration of idle period after milk dispensing.	-	For information only
Foam time 0.0 sec	Duration of milk foam output.	0.0 – 40.0 sec	Default: 0.0 sec Available only for machines with milk system.

Parameter	Parameter description	Adjustment range	Note
Choco volume 100 ml	Volume of choco water.	40 – 999 ml	Default: 100 ml
Flush water quantity 20 ml	Quantity of flush water.	20 – 50 ml	Default: 20 ml
Powder quantity 50%	Quantity of powder.	20 – 100%	Default: 50%

Chociatto with powder system (option)

Parameter	Parameter description	Adjustment range	Note
Selecting product > Press button <	Select the required beverage button.	-	-
Counted products	Shows the number of dispensed beverages.	-	For information only
Outlet variant	Shows how the product is dispensed. E.g. milk before coffee	Milk before Milk after Milk at the same time	For information only
Prod. preselection	Beverage preselection active/inactive. The beverages are dispensed one after another in the previously defined order.	Yes/No	For information only
Dispensing mode	Shows the dispensing mode.	Double product Normal	For information only
Outlet switchover	Shows the outlet switchover.	Yes/No	For information only
Pump pressure	Shows the pump pressure.	Yes/No	For information only
Beverage outlet pos.	Shows the position of the automatic beverage outlet.	0 - 99	For information only
Product test	Dispense test product.	-	-
Choco quantity 100 ml	Volume of choco water.	40 – 999 ml	Default: 100 ml
Flush water quantity 20 ml	Quantity of flush water.	20 – 50 ml	Default: 20 ml
Powder quantity 50%	Quantity of powder.	20 – 100%	Default: 50%
Select grinder	Shows the selected grinder.	Left Right Left and right	For information only
Grind quantity 9.0 g	Quantity of coffee powder.	4.0 – 16.0 g	Default: 9.0 g (Max.: 14.0 g.; depends on grinding level.)
Strokes per button	Shows the number of strokes per button.	-	For information only
Water volume 40 ml	Volume of coffee water.	1 – 600 ml	Default: 40 ml,
Bypass sequence	Affects brewing accelerator. Defines when additional water (bypass water) is dispensed.	Without brewing accelerator. With coffee Before/after coffee	Shown only if the machine is fitted with the brewing accelerator option.

Parameter	Parameter description	Adjustment range	Note
Bypass water 0.0 sec	Bypass water volume.	0.0 – 30.0 sec	Default: 0.0 sec Shown only if the machine is fitted with the brewing accelerator option.
Compression pressure	Shows the compression pressure level.	Level 1 – 5	For information only
Pre-brewing	Shows whether pre-brewing is active or inactive.	-	For information only
Chamber opening	Shows how long the chamber is open.	-	For information only
2 x grind quantity 14.0 g	Quantity of coffee powder.	4.0 – 16.0 g	14.0 g (Max.: 14.0 g; depends on grinding level). Shown only if "Double product" is programmed in the dispensing mode menu.
2 x compression pressure	Shows the double product compression pressure level.	Level 1 – 5	For information only
2 x chamber opening	Shows how long the chamber is open in the case of a double product.	-	For information only
Cold milk time 4.0 sec	Duration of cold milk dispensing.	0.0 – 40.0 sec	Default: 4.0 sec Available only for machines with cold milk system or under-counter milk system.
Hot milk time 0.0 sec	Duration of hot milk dispensing.	0.0 – 40.0 sec	Default: 0.0 sec
Milk idle period 0.0 sec	Duration of idle period after milk dispensing.	-	For information only
Foam time 8.0 sec	Duration of milk foam output.	0.0 – 40.0 sec	Default: 8.0 sec Available only for machines with milk system.
Foam type Hot	Shows which foam type is active.	Hot/Cold	Default: Hot Available only for machines with cold milk system or under-counter milk system.
Foam pump	Shows pump speed.	45 – 100 %	For information only
Foam idle period 0.0 sec	Duration of idle period after foam dispensing.	-	For information only

Hot water

Parameter	Parameter description	Adjustment range	Note
Selecting products > Press button <	Select the required beverage button.	-	-
Counted products	Shows the number of dispensed beverages.	-	For information only
Dispensing mode	Shows the dispensing mode.	Start/Stop Press/Hold Portion control	For information only
Outlet switchover	Shows the outlet switchover.	Yes/No	For information only
Pump pressure	Shows the pump pressure.	Yes/No	For information only

Parameter	Parameter description	Adjustment range	Note
Beverage outlet pos.	Shows the position of the automatic beverage outlet.	0 - 99	For information only
Product test	Dispense test product.	-	-
Water volume 15.0 sec	Duration of hot water dispensing	0.1 – 99.9 sec	Default: 15.0 sec

Steam (option)

Parameter	Parameter description	Adjustment range	Note
Selecting product > Press button <	Select the required beverage button.	-	-
Counted products	Shows the number of dispensed beverages.	-	For information only
Dispensing mode	Shows the dispensing mode.	Start/Stop Press/Hold Portion control	For information only
Outlet switchover	Shows the outlet switchover.	Yes/No	For information only
Pump pressure	Shows the pump pressure.	Yes/No	For information only
Beverage outlet pos.	Shows the position of the automatic beverage outlet.	0 - 99	For information only
Dosing time 30.0 sec	Duration of steam output.	0.0 – 99.9 sec	Standard: 30.0 sec
Steam with sensor	Sensor yes/no	Yes/No	For information only Available only with Supersteam and Autosteam.
Stop temperature	Steam outlet stops when this temperature is reached.	Yes/No	For information only Available only with Supersteam and Autosteam.
Foam consistency	Defines the foam consistency.	0 - 20	Available only with Supersteam.

System setting

Parameter	Parameter description	Adjustment range	Notes
Machine number > yy.ww.xxx'xxx <	The machine number is displayed.	-	-
Customer number xx	The customer number is displayed.	-	-
Language German	Set the display language.	English / German / French / Dutch / Portuguese / Polish / Spanish / Japanese / Danish	-
24h time format Yes	Set the time display format.	Yes/No	Default: Yes
Setting time > hh:mm <	Set the time.	00:00 – 23:59	-

Parameter	Parameter description	Adjustment range	Notes
Setting date > dd.mm.yyyy <	Set the date.	-	-
Daylight-saving time No	Set automatic time switchover.	Europe (EU) / North America / no	-
Eco mode	Activate Eco mode. If this is activated, the temperature in the boilers will be gradually reduced 20 min after the last beverage is dispensed.	Yes/No	-
Turbo mode	Activate Turbo mode. If this is activated, the grinding process for the next beverage will be started as soon as the first one is finished. The brewing unit is closed so that the coffee remains as fresh as possible.	Yes/No	The typical application area for this is self-service.
Sel. Turbo product	A product must be selected for Turbo mode. This then forms the basis for all other products dispensed in Turbo mode.	A programmed product.	Only visible if Turbo mode is activated.
Turbo mode dispose	Defines how long the pre-ground coffee remains in the brewing unit. The coffee powder will lose its aroma and taste over time. The coffee should be disposed of after around 30 min.	0 – 999 min	Only visible if Turbo mode is activated.

Machine timer

Parameter	Parameter description	Adjustment range	Note
Machine timer > Monday <	Select the day to be set.	Monday – Sunday	-
Auto switching on Yes	Allow or block automatic switching on.	Yes/No	-
Auto switching on at > 00:00 <	Set required switching on time.	00:00 – 23:59	Caution: Shown only when "Auto switching on" is set to "Yes".
Auto switch-off Yes	Allow or block automatic shut-down.	Yes/No	-
Timer off at > 00:00 <	Set required switching off time.	00:00 – 23:59	Caution: Shown only when "Auto switching off" is set to "Yes".

Cleaning instructions

Parameter	Parameter description	Adjustment range	Note
Cleaning instructions > hh:mm <	Defines a time for the cleaning instructions.	00:00 – 23:59	-

"Stand-by" functions

Introduction to the "Stand-by" functions

- ▶ Press the [1] button.
 - ☑ The machine switches to "Stand-by".
- ▶ Press [GT] for +/- 4 seconds.
 - ☑ The programming level is shown on the display.

The following menus are available

- Brewing time per beverage
- Cleaning statistics
- Set clock
- Set date
- Error statistics
- Software version
- Machine and installation number
- Show brewing time

Brewing time per beverage

Parameter	Parameter description	Adjustment range	Note
Show brewing time No/Yes	Set whether the brewing time is shown on the display.	No/Yes Default: No	See "Examples of settings - Selecting the preset adjustment range".

Cleaning statistics

Parameter	Parameter description	Adjustment range	Notes
Cleaning X/X > dd.mm.yyyy hh:mm <	-	-	See the "Reading out counters - Cleaning statistics" chapter.

Setting clock

Parameter	Parameter description	Adjustment range	Note
Set clock > hh:mm <	Set the current time.	00:00 – 23:59	See "Examples of settings" - "Setting numerical value".

Setting date

Parameter	Parameter description	Adjustment range	Note
Set date > dd.mm.yyyy <	Sets the current date.	-	See "Examples of settings" - "Setting numerical value".

Error statistics

Parameter	Parameter description	Adjustment range	Note
Brewing unit time out > dd.mm.yyyy hh:mm <	-	-	See "Reading counters": - "Error statistics".

Software version

Parameter	Parameter description	Adjustment range	Note
Coffee art 5:xxx	The software version of the machine is displayed.	-	-

Machine and installation number

Parameter	Parameter description	Adjustment range	Note
Mach. 0.00.000'000 Install. 2	The machine and installation numbers are displayed.	-	-

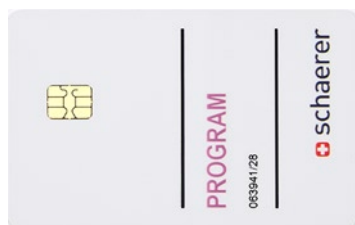
Showing brewing time

Parameter	Parameter description	Adjustment range	Note
Show brewing time No/Yes	Set whether the brewing time is shown on the display.	No/Yes Default: No	See "Examples of settings - Selecting the preset adjustment range".

Programming — PROGRAM card (option)



Payment using the MONEY card must be allowed and programmed by a qualified service technician.



The following menus are available:

- Beverage prices
- Load MONEY card amount
- Erase MONEY card
- Show turnover data
- Switch off accounting system

Beverage prices



Repeat the process for all beverages.

Parameter	Parameter description	Adjustment range	Note
Selecting product > Press button <	Select the required beverage button.	-	-
Article number 0	Define the article number of the selected product.	-	-
Art. no. Decaffeinated 0	Define the article number for DECAF of the selected product.	-	CCI/CSI only
Art. no. 2 x 0	Define the article number for double products of the selected product.	-	CCI/CSI only
Art. no. 2 x/Cof. 0	Define the article number for DECAF double products of the selected product.	-	CCI/CSI only
Token 00:00	Define the number of tokens required to dispense the selected product.	-	Only when "EMP channel 6 token" is programmed to "Yes".
Price 00:00	Define the price of the selected product.	-	Only for coin testers. This amount is deducted from the inserted MONEY card.

Loading MONEY amount

Parameter	Parameter description	Adjustment range	Note
Removing card	Remove the PROGRAM card.	-	-
Inserting MONEY card PROGRAM card to quit	Insert the MONEY A or MONEY B card.	-	-
Loading MONEY amount > xxx.xx <	Set and load the amount.	-	-
Card inserted/remove Credit: xxx	Remove the MONEY card when "Remove card" appears on the display.	-	-
Inserting MONEY card PROGRAM card to quit	Repeat the above process for every other required MONEY card. Quit using the PROGRAM card.	-	-

Deleting MONEY amount

Parameter	Parameter description	Adjustment range	Note
Removing card	Remove the PROGRAM card.	-	-
Inserting MONEY card Remove PROGRAM	Insert the MONEY A or MONEY B card.	-	The amount on the MONEY card is erased.
Card erased Remove	Remove the MONEY card when "Card erased" appears on the display.	-	-
Inserting MONEY card Remove PROGRAM	Repeat the above process for every other required MONEY card. Quit using the PROGRAM card.	-	-

Showing turnover data

Parameter	Parameter description	Adjustment range	Note
Coin tester (total) xxxx.xx	The money counter total is displayed.	-	-
Coin tester (erasable) xxxx.xx	Erase counter or continue without erasing counter.	-	-
Token (total) xxxx.xx	The token counter total is displayed.	-	-
Token (erasable) xxxx.xx	Erase counter or continue without erasing counter.	-	-
CCI/CSI (total) xxxx.xx	The CCI/CSI counter total is displayed.	-	-
CCI/CSI (erasable) xxxx.xx	Erase counter or continue without erasing counter.	-	-
MONEY (total) xxxx.xx	The MONEY counter total is displayed.	-	-
MONEY (erasable) xxxx.xx	Erase counter or continue without erasing counter.	-	-

Parameter	Parameter description	Adjustment range	Note
Master (total) xxxx.xx	The MASTER counter total is displayed.	-	-
Master (erasable) xxxx.xx	Erase counter or continue without erasing counter.	-	-

Switching off payment system

Parameter	Parameter description	Adjustment range	Note
Switch off accounting system No	Allow or block payment system.	Yes/No	-

Troubleshooting

General troubleshooting procedure:

- ▶ Switch the coffee machine off and, after several seconds, on again.
 - ☑ In most cases, the fault will be eliminated automatically.
- ▶ Repeat the steps that led to the fault.

If the fault occurs again:

- ▶ Find the fault in the following tables.
- ▶ Perform the described troubleshooting steps.

If the fault persists:

- ▶ Contact your service partner and describe the fault.



If a fault occurs that is not described in this chapter, please contact your service partner immediately.

Faults with display message

Display message	Cause	What to do
Grinder left/right overloaded	• Left/right grinder is overloaded. • Grinder left/right blocked.	▶ Check grinder for foreign objects. ▶ Press the [⊖] button. ▶ If the message persists: Contact your service partner.
Grinder current fault	• PC board defect. • Electronics defect.	▶ Contact your service partner.
Brewing unit current fault	• PC board defect. • Electronics defect.	▶ Contact your service partner.
Over current brew motor	• Brewing unit is drawing too much current (over 4 A). • Brewing unit is jammed.	▶ Contact your service partner.
Water flow error	• No water connection. • Pump defect. (pump pressure < 7.5 bar) • Brewing unit is blocked. • Water system is blocked. • Grind level is too fine. • PC board and flow meter are improperly connected. • Electrical problem (e.g. PC board).?	▶ Open the stopcock and press the beverage field again. ▶ Check the brewing unit. ▶ Check the grinder balance. ▶ If the message persists: Contact your service partner.
Crit. coffee temp.	• Electrical problem between the sensor and PC board. • Temperature sensor defect.	▶ Contact your service partner.
Crit. hot water temp.	• Electrical problem between the sensor and PC board. • Temperature sensor defect.	▶ Contact your service partner.
Crit. steam temp.	• Electrical problem between the sensor and PC board. • Temperature sensor defect.	▶ Contact your service partner.
Timeout coffee heater	The set temperature of the coffee boiler was not reached within 4 minutes of the unit switching on.	▶ Switch the machine off and back on. ▶ If the message persists: Contact your service partner.

Display message	Cause	What to do
Hot water heater timeout	The set temperature of the hot water boiler was not reached within 4 minutes of the unit switching on.	► Switch the machine off and back on. ► If the message persists: Contact your service partner.
Steam heater timeout	The set temperature of the steam boiler was not reached within 4 minutes of the unit switching on.	► Switch the machine off and back on. ► If the message persists: Contact your service partner.
Coffee sensor defect	• Electrical problem between the sensor and PC board. • Temperature sensor defect.	► Contact your service partner.
Hot water sensor defect	• Electrical problem between the sensor and PC board. • Temperature sensor defect.	► Contact your service partner.
Steam sensor defect	• Electrical problem between the sensor and PC board. • Temperature sensor defect.	► Contact your service partner.
Brewing unit timeout	The brewing unit motor does not run.	► Contact your service partner.
Timeout steam supply	The level in the steam boiler was not reached.	► Contact your service partner.
Milk system disabled	The steam temperature has fallen to 115 °C.	► Wait until the temperature has been reached again. ► Switch the machine off and back on. ► Contact your service partner.
Initialising	• The software and processor are being restarted. • The brewing unit moves to the initial position.	► Switch the machine off and back on. ► Contact your service partner.

Faults without display message

No milk	• Milk container empty. • Milk system blocked. • The milk system was incorrectly disabled.	► Check whether the milk container is filled. ► Perform the daily cleaning routine. ► If the fault persists: Contact your service partner.
No milk foam	• Milk container empty. • Milk system blocked. • The milk system was incorrectly disabled.	► Check whether the milk container is filled. ► Perform the daily cleaning routine. ► If the fault persists: Contact your service partner.

Safety notes

Maximum safety is one of the most important features of Schaerer AG products. The effectiveness of the safety devices is guaranteed only if the following instructions are observed to prevent injuries and health hazards:

- Read the User Manual carefully before using the device.
- Do not touch hot machine parts.
- Do not use the coffee machine if it is not working properly or is damaged.
- Under no circumstances may the installed safety devices be modified.

Danger from cleaning products

CAUTION!
User at risk!



Application

Danger of poisoning from ingesting cleaning products.
Please adhere to the following points:

- Store cleaning products away from children and unauthorised persons.
- Do not swallow the cleaning products.
- Never mix cleaning products with other chemicals or acids.
- Never pour cleaning products into the milk container.
- Never pour cleaning products into the drinking water tank (internal/external).
- Only use the cleaning and descaling products for their intended purpose (see label).
- Do not eat or drink while handling cleaning products.
- Ensure that the area is well ventilated when handling cleaning products.
- Wear safety gloves when handling cleaning products.
- Wash your hands thoroughly after handling cleaning products.



Before using cleaning products, read the information on the package label carefully. If not available, the HEALTH & SAFETY DATA SHEET can be obtained from the sales partner (see the cleaning product packaging).

Storage

Please adhere to the following points:

- Store in a place that is inaccessible to children and unauthorised persons.
- Protect cleaning products from heat, light and moisture.
- Store in a separate location from acids.
- Only store in the original packaging.
- Store cleaning products separate from each other.
- Do not store together with foodstuffs or other edibles.
- Local regulations regarding the storage of chemicals (cleaning products) apply.

Disposal

If recycling is not possible, cleaning products and their containers must be disposed of according to local and legal regulations.

Emergency information

Obtain the phone number of the emergency information service (toxicological information centre) from the cleaning product manufacturer (see cleaning product label). If your country does not have this type of institution, please see the following table:

Swiss Toxicological Information Centre	
International calls	+41 44 251 51 51
Calls from Switzerland	145
Internet	www.toxi.ch

Hygiene regulations

Water

CAUTION!
User at risk!



Improper handling of water can cause health problems.
Please adhere to the following points:

- The water must be uncontaminated.
- Do not connect the machine to pure reverse osmosis water or other aggressive types of water.
- The carbonate hardness must not exceed 5-6 °dKH (German carbonate hardness) or 8.9-10.7 °fKH (French carbonate hardness).
- The total hardness must always be higher than the carbonate hardness.
- The minimum carbonate hardness is 5 °dKH or 8.9 °fKH.
- Maximum chlorine content of 100 mg per litre.
- pH value between 6.5 and 7 (pH neutral).

For machines with drinking water tank (internal & external):

- Fill the drinking water tank with fresh water daily.
- Rinse the drinking water tank thoroughly before filling.

Coffee

CAUTION!
User at risk!



Improper handling of coffee can cause health problems.
Please adhere to the following points:

- Check the packaging for damage before opening.
- Do not add more coffee beans than will be needed for one day.
- Close the bean hopper lid immediately after filling.
- Store coffee in a cool, dry, dark place.
- Store coffee separately from cleaning products.
- Use the oldest products first ("first in, first out" principle).
- Use before the expiry date.
- Always reclose packages after opening to ensure that the contents remain fresh and are protected from contamination.

Milk

CAUTION!
User at risk!



Improper handling of milk can cause health problems.
Please adhere to the following points:

- Do not use unpasteurised or raw milk.
- Only use pasteurised milk or milk heated at ultra-high temperatures.
- Only use homogenised milk.
- Use pre-cooled milk at a temperature between 3–5°C.
- When working with milk, wear protective gloves.
- Use milk directly from the original packaging.
- Never add additional milk. Always clean the container thoroughly before filling.
- Check the packaging for damage before opening.
- Do not add more milk than will be needed for one day.
- Close the milk container lid and cooling unit (internal/external) immediately after filling.
- Store milk in a cool, dry (max. 7°C) and dark place.
- Store milk separately from cleaning products.
- Use the oldest products first ("first in, first out").
- Use before the expiry date.
- Always reclose packages after opening to ensure that the contents remain fresh and are protected from contamination.

Milk concentrate

CAUTION!
User at risk!



Improper handling of milk can cause health problems.
Please adhere to the following points:

- Use milk concentrate from the original packaging.
- Never refill milk concentrate. Always clean the container thoroughly before filling.
- Check the packaging for damage before opening.
- Do not fill the machine with more milk concentrate than will be needed for one day.
- Close the milk concentrate container lid and cooling unit (internal/external) immediately after filling.
- Store milk concentrate in a cool, dry and dark location.
- Store milk concentrate separately from cleaning products.
- Use the oldest products first ("first in, first out").
- Use before the expiry date.
- Always reclose packages after opening to ensure that the contents remain fresh and are protected from contamination.

Automatic machine powder/instant powder

CAUTION!
User at risk!



Improper use of automatic machine powder can be hazardous to health.
Please adhere to the following points:

- Check the packaging for damage before opening.
- Do not fill the machine with more automatic machine powder than will be needed for one day.
- Close the powder container lid immediately after filling.
- Store the automatic machine powder in a cool, dry, dark place.
- Store the coffee machine powder separately from cleaning products.
- Use the oldest products first ("first-in-first-out").
- Use before the expiry date.
- Always reclose packages after opening to ensure that the contents remain fresh and are protected from contamination.

Liability

Operator responsibilities

The operator must ensure that the machine undergoes regular maintenance and that the safety devices are checked regularly by a Schaefer AG service partner, a representative thereof, or other authorised persons.

Schaefer AG must be notified in writing of any defects with 30 days. For hidden defects, this period is extended to 12 months from the date of installation (work report, handover report), but no longer than 18 months after the product leaves the factory in Zuchwil.

Safety-relevant parts such as safety valves, safety thermostats, boilers etc. must not be repaired in any circumstances. They must be replaced.

The following intervals apply:

- Safety valves: every 12 months.
- Boilers (steam boilers, continuous flow heaters): every 60 months.

These measures are performed by a Schaefer AG service technician or your service partner as part of the maintenance routine.

Warranty and liability claims

No responsibility will be taken for warranty or liability claims in the event of personal injury or material damage as a result of one or more of the following causes:

- Improper use of the device.
- Improper mounting, commissioning, operation, cleaning and maintenance of the device and the associated optional devices.
- Failure to observe maintenance intervals.
- Operating the unit with defective safety devices or safety and protective equipment that is not properly installed or is not functional.
- Failure to observe the safety notes in the operating instructions pertaining to storage, installation, commissioning, operation and maintenance of the machine.
- Operation of the machine when it is not in good working condition.
- Repairs that have not been carried out properly.
- Use of spare parts that are not original Schaefer AG spare parts.
- Use of cleaning products that are not recommended by Schaefer AG.
- Catastrophic incidents due to foreign objects, accidents, vandalism or force majeure.
- Penetrating the device with any type of object or opening the housing.

The manufacturer shall only and exclusively accept liability or honour liability claims if the specified maintenance and service intervals are adhered to and if original spare parts were used that were ordered from the manufacturer or another authorised supplier.



The "General Terms and Conditions" of Schaefer AG apply.