

# Schaerer Coffee Joy

## **Operating instructions**

V01 / 02.2011









Schaerer Ltd. P.O. Box Allmendweg 8 CH-4528 Zuchwil info@schaerer.com www.schaerer.com

Original operating instructions BASCJ\_en

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# Schaerer Coffee Joy

### **Operating instructions**

V01 / 02.2011

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Schaerer Ltd., P.O. Box, Allmendweg 8, CH-4528 Zuchwil

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### Welcome

#### 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 correct operation and the 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:



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

The measures described to prevent this danger must be adhered to.



A generally dangerous situation that may result in injury. The measures described to prevent this danger must be adhered to.

The measures described to prevent this danger must be adhered to.

A situation that may result in damage to the machine.











A dangerous situation that may result in scalding injuries. The danger arises at the dispensing locations. In the following description, this danger is only indicated by the symbol.

The measures described to prevent this danger must be adhered to.

A dangerous situation that may result in scalding injuries. The danger arises at the dispensing locations. In the following description, this danger is only indicated by the symbol.

The measures described to prevent this danger must be adhered to.



The measures described to prevent this danger must be adhered to.

A dangerous situation that may result in crushing injuries. In the following description, this danger is only indicated by the symbol.

The measures described to prevent this danger must be adhered to.

### **Product description**

#### Intended use

Schaerer Coffee Joy has been designed to dispense coffee or milk beverages in different versions – in cups or coffee pots. The device can also dispense hot water. The unit is designed for private and commercial use. The unit may be placed in self-service areas if attended to by trained personnel.



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.



Improper handling of the coffee machine can result in damage. Schaerer Coffee Joy may not under any circumstances be used to heat up or dispense any liquids other than coffee, hot water (for beverages or cleaning) or milk (cooled, pasteurised, homogenised, UHT).

#### Beverage types and output

Depending on the machine model and options, the following beverages can be prepared (beverage output is specified in cups per hour/day):

Espresso (50 – 60 ml)	±50 cups
Café creme (120 ml)	±40 cups
Milk beverages	±30 cups
Hot water	±7.5 l

#### Scope of delivery and accessories

Quantity	Designation	Article number
1	Schaerer Coffee Joy coffee machine	
Documentat	ion	
1	Operating instructions (EN)	022440
1	Weekly Cleaning Reference Card (EN)	022480
1	Delivery Quality Form	-
General acc	essories	
1	Milk nozzle, black (diameter: 1.3)	33.2415.1000
1	Milk nozzle, brown (diameter: 1.5)	33.2415.2000
1	Grease for sealing rings (tube)	33.2179.9000
1	Milk hose with milk nozzle, brown, for cooled milk	33.2427.7000
1	Steam nozzle	33.2397.7000
1	Multitool	33.2415.1000
Cleaning/cleaning accessories		
1	"Milkpure" cleaner	071531
1	Cleaning tablets (blister with 10 tablets)	062867
1	Cleaning brushes (set of 5)	33.2393.1000
1	Carbonate hardness tester (pouch with 2 test strips)	067720

Example	Option	Description
	Additional cooling unit	External cooling unit for machines with Milk Smart. Capacity: 2 I
	Add-on bean hopper	Additional mountable bean hopper for grea- ter bean capacity. Capacity: 400 g
	Water filter for internal drinking water tank	The water filter can be installed in the internal drinking water tank. Capacity: 200 I

### **Options and optional accessories**



For detailed information, please contact your sales partner.

Maximum operating temperature (T max.)

#### **Technical data**

Nominal power *	1700 – 2300 W	
Operating temperature	Steam boiler	Hot water boiler
Minimum operating temperature (T min.):	130°C	86°C

130°C

Overpressure	Steam boiler	Hot water boiler
Working overpressure	2.5 bar	16 bar
Permissible working overpressure (p max):	16 bar	16 bar
Test overpressure	24 bar	24 bar

Water tank capacity	2.21
Bean hopper capacity	250 g
Grounds container capacity	15 – 20 coffee ground cakes

External dimensions	
Width	305 mm
Height	400 mm
Depth	443 mm

Empty weight	15 kg

102°C

#### Permanent noise level\*\*

We reserve the right to make technical changes.

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

<70 dB (A)

\*\* 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

The serial plate is located behind the drip tray on the left side

▶ In the event of a fault or warranty claim, specify the information on the serial plate.

#### **Declaration of conformity**

#### Manufacturer's address

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

#### **Applied standards**

The following harmonised standards have been applied:

EN 60335-1 EN 60335-2-15	Specifically applied Standars
• 60335-1:2002	• 55014-1:2006
• 60335-1 /A1:2004	• 55014-1 /A1:2009
• 60335-1 /A2:2006	• 55014-2:1997
• 60335-2-15:2002	• 55014-2 /A1:2001
• 60335-2-15 /A1:2005	• 55014-2 /A2:2008
	• 62233:2008
	• 61000-3-2:2006
	• 61000-6-3:2008

The stated manufacturer declares herewith that this machine complies with all relevant stipulations of the specified EU directives. In case of any modifications of the units that have not been approved by Schaerer, this declaration is rendered invalid.

Туре	VAR	Mod.	Serial-No.	Prod. Date
03.0430	001	PR	000100	02.2011
1/N/P	E - 50/60	Hz	220 - 240 V	max. 1.7 - 2.3 kW
	permissible 1.6 M PA (16 bar)			
o sch	naer	er	Made in Germany	×(f
produced by wmf consumer electric GmbH			一して	

### Installation and commissioning

#### Setting up the coffee machine

#### Location



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

- The installation surface must be stable and level so that is does not become deformed under the weight of the coffee machine.
- Do not set up the coffee machine on hot surfaces or close to ovens.
- Set up the coffee machine in such a way that it can be monitored by trained personnel at any time.
- Route the necessary supply connections to 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 beans.
  - Leave a clearance of ±35 cm on the left side.
  - Leave a clearance of min. 15 cm from the rear of the machine to the wall (air circulation).
  - Leave a clearance of min. 250 mm above the machine (needed to remove the brewing unit for cleaning and maintenance).
- · Comply with all applicable local kitchen regulations.

#### **Ambient conditions**



The location where the coffee machine is set up must provide the ambient conditions specified below. If these conditions are not ensured, 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
- The 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 electrical power supply must be connected in accordance with the applicable regulations (VDE 0100) and the regulations of the country of installation. Type of power cable at least H 07 RN-F. The voltage specified on the serial plate must match the supply voltage at the installation location.



#### Danger of electric shock!

The following instructions absolutely must be complied with:

- 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.
- Never operate a device with a damaged power cord. Have a defective power cord or plug replaced immediately by a qualified service technician.
- Schaerer AG recommends against using an extension cable. If, despite this, an extension

cable is used (minimum cross-section: 1.5 mm<sup>2</sup>), observe the manufacturer data for the cable (operating instructions) and the locally applicable regulations.

- Route the power cord in such a way that it does not present a tripping hazard. Do not pull
  the cord over corners or sharp edges, pinch it between objects or allow it to hang loosely
  in the open. Do not position the cord over hot objects, and protect the cord from exposure
  to oil and aggressive cleaning products.
- Never lift or pull the device by the power cord. Never pull the plug out of the socket by its cord. Never touch the power cord or plug with wet hands. Never insert a wet plug into a power socket.

#### **Power requirements**

Model		Pov	ver rating	Fuse (instal- lation site)	Connecting cable con- ductor cross- section	
Standard					10 – 16 A	1.5 mm²
England, Ireland	220		50/60 Hz	2000 – 2200 W	13 A	1.5 mm²
Australia, New Zealand, China	220 – 240 V	CA			15 A	1 mm²
Denmark					10 A	1 mm²
USA	120 V	CA	50/60 Hz	1700 W	15 A	AWG14
Japan	120 V	2 CA	50/60 Hz	2000 W	15 A	2.5 mm <sup>2</sup>

#### Installation

#### Unpacking the 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 sent back.

#### Connecting the milk supply

- Mounting the milk hose on the beverage outlet (see figure).
- Select a suitable milk nozzle (brown = for cooled milk; transparent = for uncooled milk) and insert at the lower end of the milk hose.
- Insert the beverage outlet into the holder.
- ▶ Remove the grounds container out of the coffee machine.
- Move the beverage outlet to the lowest position.



Clamp the milk hose in the provided guide.



See "Operation" - "Fill and connect" - "Milk" for filling milk.

If an external cooling unit is used: install the cooling unit as described in the operating instructions and route the milk hose from the coffee machine to the external cooling unit.

#### **Commissioning program**

When the coffee machine is started for the first time, the commissioning program is executed automatically. It goes through the initial settings step by step. A detailed description of all steps follows.

- ▶ Press the () button.
  - $\ensuremath{\boxdot}$  The coffee machine switches on and the commissioning program begins.
- ► Follow the instructions on the touch screen.

Display / display text	Parameter description	Setting range	Notes
language: English	<ul> <li>Select the required language with + and</li> <li>Confirm by touching P.</li> <li>☑ "Initial setup of your Coffee Joy" appears on the display in the selected language.</li> </ul>	German English French Dutch Swedish Danish Norwegian Russian Italian Spanish Japanese	The presetting is "English".
Time hh:mm	<ul> <li>To set the current time:</li> <li>Set the hours with ↓ and</li> <li>Confirm by touching P.</li> <li>Set the minutes with ↓ and</li> <li>Confirm by touching P.</li> <li>M The next step appears.</li> </ul>	hh = hours mm = minutes	-
Date dd:mm:yyyy	<ul> <li>Set the current date:</li> <li>Set the day with + and</li> <li>Confirm by touching P.</li> <li>Set the month with + and</li> <li>Confirm by touching P.</li> <li>Set the year with + and</li> <li>Confirm by touching P.</li> <li>Mathematical Set of the set of</li></ul>	dd = day mm = month yy = year	_
Switching off time: 30 min	<ul> <li>The switching off time is defined in this step. After a beverage is dispensed, if the defined time elapses without another beverage being dispensed, the machines switches off automatically.</li> <li>▶ Set the minutes with + and</li> <li>▶ Confirm by touching P.</li> <li>☑ The next step appears.</li> </ul>	0 min 5 – 180 min	If set to "0 min", the machine does not switch off automatically.

Display / display text	Parameter description	Setting range	Notes
Water hardness: 13 – 16	<ul> <li>To set the water hardness:</li> <li>▶ Perform the water hardness test.</li> <li>See "Service and maintenance" - "Determine the water hardness".</li> <li>▶ Set the water hardness with + and</li> <li>▶ Confirm by touching P.</li> <li>☑ The next step appears.</li> </ul>	0 - 4 5 - 8 9 - 12 13 - 16 >16	_
Water filter: no	<ul> <li>To set the use of a water filter:</li> <li>▶ Set the use with + and</li> <li>▶ Confirm by touching P</li> <li>Option 1: Input "no"</li> <li>☑ The next step appears.</li> </ul>	yes / no	If "Yes" is set, a filter rin- se is then executed au- tomatically.
	<ul> <li>Option 2: If "yes" is set, the filter rinse is executed automatically.</li> <li>Place a container with a capacity of ca. 3 I under the hot water outlet.</li> <li>Fill the drinking water container completely.</li> <li>☑ After the filter rinse cycle is completed, the next step is displayed.</li> </ul>		
The machine heats up       The coffee machine begins heating up.         After heating, the coffee system is rinsed.         ▶ Place a container under the beverage outlet.         ☑ The rinse cycle takes ca. 40 sec.		-	The coffee system rinse cleans and warms up all pipes.
A test brewing is performed at the end of the commissioning program. The <b>P</b> button flashes. Place a suitable container below the beverage outlet. Press the <b>P</b> button. The test brewing starts. Pour away the test beverage; do not drink it.		_	
Your selection please			All settings that were made now can be changed later. See "Programming".

#### **Deinstallation and disposal**



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

• Contact 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 drinking water tank is filled.
- The bean hopper is filled.
- The coffee grounds container is empty and inserted correctly.
- The coffee machine is correctly connected to the line supply.

#### Filling and connecting

#### Coffee beans

Danger of injury from rotating grinding discs. Never reach into the bean hopper while the coffee machine is switched on.



**CAUTION!** 

User at risk!

Filling foreign bodies into the hopper can lead to clogging or destruction of the grinder. Never fill anything other than beans into the bean hopper.

- Open the bean hopper lid (see figure).
- ▶ Fill in beans (max. 250 g).
- ► Close the lid again.



Water

- Remove and empty the drinking water tank.
- Rinse the drinking water tank thoroughly with fresh water (min. 1x daily).
- Fill with fresh drinking water and reinsert.

#### Milk

#### **Option 1: Milk Smart**



No more than 40 cm should be between the milk package and the beverage outlet.

- ► Have fresh, pre-cooled milk (3 5°C) ready.
- ► Hang the hose or hoses into the milk.

 $\ensuremath{\boxtimes}$  The hose end must be in contact with the container floor.



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

#### **Option 2: Additional cooling unit**

• Open the door.

- ► Remove and rinse the milk container.
- ► Fill 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.

#### Switching on

- Press the () button.
  - ☑ The coffee machine switches on and the greeting message appears on the display.
- ▶ Place a container under the beverage outlet.
  - $\square$  The coffee machine begins heating up.
  - ☑ After heating up, the coffee machine performs a coffee system rinse (duration: ca. 40 sec).

#### **Option: Additional cooling unit**

- ► Connect the additional cooling unit to the line supply.
- Set the rocker switch on the rear of the additional cooling unit to "COLD".
   Image: The additional cooling unit switches on.



See "Operation" - "Fill and connect" - "Milk" - "Option: additional cooling unit".

#### Dispensing

#### Preheating cups

A storage area for cups is located on top of the coffee machine. When the machine is switched on, the storage area is heated and the cups are prewarmed.

- ▶ Place the cups on the storage area.
  - ☑ The cups are pre-warmed when the coffee machine is switched on.

#### Adjusting outlets

Hot surfaces can cause burns.





Exercise care when moving the beverage outlet.

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

i) ′

Adjustable height = 70 – 135 mm.

#### Beverages

The machine is ready to dispense a beverage when the beverage symbol appears.

- Place a cup under the beverage outlet.
- Adjust the height of the beverage outlet to the cup size.
- Press the required beverage button.
  - Only the symbol of the selected beverage appears; dispensing of the beverage begins.The beverage name appears on the display.
- Remove the cup after the beverage has been dispensed.

See "Dispensing options" - "Stop dispensing" to stop dispensing of the beverage.

#### Beverages with ground coffee



**CAUTION!** 

Hot fluid!



**CAUTION!** 

Hot fluid!

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

- Open the inlet lid (see figure).
  - ☑ The "insert coff. grounds" instruction appears.
- ► Fill ground coffee (max. 15 g).
- Close the inlet lid.
  - ☑ The "select beverage" instruction appears.
- Press the required beverage button.
  - Only the symbol of the selected beverage appears; dispensing of the beverage begins.The beverage name appears on the display.
- Remove the cup after the beverage has been dispensed.



See "Dispensing options" - "Stop dispensing" to stop dispensing of the beverage.

#### Hot water

Three different dosing variants are available for dispensing hot water:



The service technician can deactivate unrequired dosing variants or adjust the dosing quantity of the "dosed" variant.

- Place a cup under the hot water outlet.
- Adjust the height of the beverage outlet to the cup size.

#### **Option 1: Dosed**

- ▶ Press the III button.
  - The set quantity is dispensed.

#### **Option 2: Freeflow**

Press and hold the button.
 Dispensing takes place while the button is pressed.

#### **Option 3: Start/stop**

Press the iii button.

- Hot water is dispensed.
- Stop dispensing by pressing the



If dispensing is not stopped manually by pressing the **|||** button, dispensing ends automatically after a defined time period. This can be defined by the service technician.

#### Hot milk

Hot milk and milk foam are dispensed using the same button.

- Place a cup under the beverage outlet.
- Move the beverage outlet to the highest position.

Air is always added to the milk unless the outlet is in the highest position.

- Press the button (middle button).

Hot milk is dispensed.

Stop dispensing by pressing the 🗂 button again.



If dispensing is not stopped manually by pressing the 👖 button, dispensing ends automatically after a defined time period. This can be defined by the service technician.

### Milk foam

Hot milk and milk foam are dispensed using the same button.

- Place a cup under the beverage outlet.
- Adjust the height of the beverage outlet to the cup size.
- **CAUTION!** Hot fluid!

**CAUTION!** 

Hot fluid!



#### Dispensing options

#### Stopping continuous dispensing

The dispensing of beverages and hot water can be stopped at any time.

▶ Press the *C* button. ☑ The current dispensing process is stopped.

#### Selecting the coffee strength

Before dispensing, the coffee strength can be selected. The following strengths are available:

- Strong (ca. 15% stronger than the setting of the particular beverage)
- Normal (setting of the particular beverage)
- Mild (ca. 15% milder than the particular beverage)

If no preselection of the strength is made, the coffee strength is automatically set to "normal". The selected strength always applies only to the next beverage.

- Use the + button and the button to select the beverage strength.
- Place a cup under the beverage outlet.
- Adjust the height of the beverage outlet to the cup size.
- Request the desired beverage.
  - ☑ The beverage is dispensed.
  - ☑ The beverage name and strength are shown in the display

#### **Double beverage**

Two beverages can be dispensed at the same time. This only applies to espresso, café creme and cappuccino.

- Place two cups under the beverage outlet.
- Adjust the height of the beverage outlet to the cup size.



- Press the required beverage button for ca. 3 sec.
- ☑ Only the symbol of the selected beverage appears; dispensing of the beverage begins. ☑ The display shows "2x beverage name".
  - BASCJ EN V01 | 02.2011

Press and hold the n button. Dispensing takes place while the button is pressed.

Remove the cups after the beverage has been dispensed.

See "Dispensing options" - "Stop dispensing" to stop dispensing of the beverage.

#### Emptying

#### Grounds container

The grounds container must be emptied regularly, at the latest when the instruction to do so appears on the display.

Remove and empty the grounds container.

Dispensing of beverages is blocked while the grounds container is not in place.

- Reinsert the grounds container.
  - ☑ "grounds. cont. empty?" appears on the display.
- Confirm with the P button.



If the request is accidentally confirmed with "No" after the grounds container is emptied, the display instruction to empty the container persists. The grounds container must be removed and inserted again, and the instruction then reappears.

#### Drip tray

The drip tray should be emptied regularly, at the latest when the floater appears.



Carefully pull out the drip tray.

- Empty the drip tray and reinsert it.
- Check that it is seated correctly; an improperly inserted drip tray can result in water leaks.

#### Transport conditions

- Before moving the coffee machine, disconnect the drinking water supply, the power supply and the dirty water outlet.
- Before moving the coffee machine, check the floor for obstacles and uneven areas. ►



Improper transport of the machine may result in machine damage. 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**

The machine displays messages if intervention by a user or service technician is needed to ensure operating readiness of the machine. There are two different categories of messages:

- Note
- Fault

Messages are usually instructions, such as the instruction to fill the drinking water tank.

Perform the task as described in the following table.

If the display message persists, a malfunction may exist.



See "Troubleshooting" - "Malfunction with display message".

Display message	Cause	What to do
empty grounds cont.	The grounds container is full.	<ul> <li>Remove and empty the grounds container.</li> <li>Dispensing of beverages is blocked while the grounds container is not in place.</li> <li>Reinsert the grounds container.</li> <li>"grounds. cont. empty?" appears on the display.</li> <li>Confirm with the P button.</li> </ul>
beverage sel. locked refill water tank	The drinking water tank is empty. Beverages cannot be dispensed.	<ul> <li>Remove the drinking water tank and fill it with fresh drinking water.</li> <li>Reinsert the drinking water tank.</li> </ul>
refill beans confirm beverage	There are not enough beans in the grinder. The grinder stops and beverage dispensing is interrupted.	<ul> <li>Open the bean hopper lid (see figure).</li> <li>Fill in beans (max. 250 g).</li> <li>Close the lid again.</li> <li>Press the beverage button again.</li> <li>Dispensing of the previously selected beverage is completed.</li> </ul>
insert coff. grounds Select a beverage	The lid of the ground coffee inlet is open. Beverages cannot be dispensed.	<ul> <li>Option 1: Requesting a beverage with ground coffee</li> <li>Fill ground coffee (max. 15 g).</li> <li>Close the inlet lid.</li> <li>☑ The "select beverage" instruction appears.</li> <li>Press the required beverage button.</li> <li>☑ Dispensing begins.</li> <li>Option 2: Stopping dispensing of the beverage</li> <li>Close the inlet lid.</li> <li>Stop dispensing with the ℂ button.</li> </ul>
Change water filter	The water filter in the drinking water tank must be changed.	<ul> <li>Change the water filter.</li> <li>See "Service and maintenance" - "Change the water filter".</li> </ul>
tank lid missing?	The lid of the drinking water tank is not in place. Beverages cannot be dispensed.	<ul> <li>Correctly place the lid on the drinking water tank.</li> <li>Slide the drinking water tank into the machine.</li> </ul>
beverage sel. locked lid open	The brewing unit lid is open or was not closed correctly. Beverages cannot be dispensed.	<ul> <li>Correctly close the brewing unit lid.</li> </ul>
Clean display	The operating panel is dirty. The buttons no longer react.	<ul> <li>Press and old the  button for 5 sec.</li> <li>The machine switches off.</li> <li>Clean the display with a moist cloth.</li> <li>Press the  button.</li> <li>The machine switches back on.</li> </ul>

#### Switching off

#### End of operation

- ► Perform the daily cleaning routine.
- ▶ Press and hold the () button for 5 sec.
  - ☑ If beverages with milk were prepared, an instruction to rinse the milk system appears on the display.
- ► Follow the instructions on the display.
  - $\ensuremath{\boxtimes}$  After the milk system is rinsed, the coffee system is rinsed automatically.

See also "Cleaning".

- ☑ After this the machine switches off.
- Empty the drinking water container, clean it and reinstall it.
- Empty the grounds container, clean it and reinstall it.



Failure to do so will result in a loss of warranty coverage in the event of damages.

#### Lengthy downtimes (more than 1 week)



During extended downtimes, such as during holidays, the machine must be taken out of operation.

Perform all steps described in the chapter entitled "End of operation".

If the machine will be exposed to subzero temperatures, the boilers must be emptied first.

Please contact your service partner.



The boilers can be destroyed by freezing water as it expands. In rooms where the temperature can fall below zero, the boilers must be emptied.



When taking the device back into service, run the daily cleaning first.

### Cleaning

#### **Cleaning intervals**

Clea	aning	inter	vals		
Daily	Weekly	When switching on	When switching off	As instructed	
Coff	ee m	achir	ne		
		х	х		Coffee system rinse
			х		Rinse the milk system
	х				Clean the milk system
	х				Clean the coffee machine (cleaning programme)
	х				Clean the brewing unit
х					Rinse the drinking water tank with fresh water
х				Х	Empty and clean the grounds container
х				Х	Empty and clean the drip tray
	х				Cleaning the bean hopper
	х				Clean the outer surfaces of the coffee machine
Opti	onal	acce	ssorie	es/op	tions
х					Cleaning of the milk container
х					Cleaning of the interior of the additional cooling unit
	х				Cleaning of the outer surfaces of the additional cooling unit

#### Legend

Daily:	At least once a day or more often if necessary.
Weekly:	At least once a week or more often if necessary.
When switching on:	Automatically when the coffee machine is switched on.
When switching off:	Automatically when the coffee machine is switched off.
As instructed:	An instruction appears on the display.



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

#### Mandatory cleaning

If a pending cleaning procedure is not performed although it is requested on the display, mandatory cleaning will set in (if programmed) after a certain time. When mandatory cleaning sets in, dispensing of beverages 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.

#### **Daily cleaning**

#### Coffee system rinse

The coffee system rinse is automatically performed every time the coffee machine is switched on and off. User actions are not required.

#### Milk system rinse

The milk system rinse is automatically performed every time the coffee machine is switched off. The following steps need to be performed:

- Place a container under the beverage outlet.
- Move the beverage outlet to the highest position.
- Insert the milk hose with the milk nozzle in the hot water outlet and turn it clockwise all the way.

It The milk system rinse begins.

► After the milk system rinse, wipe off the outside of the milk hose with a moist cloth.

#### The milk system rinse can also be performed at any time as needed:

- Press the button.
  - ☑ The cleaning menu appears.
- ► Leaf to the "milk system rinsing" menu with the + button.
- ▶ Press the P button.
- ▶ Perform all steps as described above.

#### 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.

#### Drip tray

- 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.

#### Internal drinking water tank



There is a danger of contamination of 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.

#### Milk container



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

Clean the milk container daily.

- ▶ Mix 5 ml of Daypure cleaning product with 500 ml of warm water in a container.
- ▶ Clean the milk container using the prepared cleaning solution.
- ▶ Rinse with clear water and dry with a clean cloth.

#### Weekly cleaning

#### Weekly Cleaning Reference Card

### Weekly cleaning Schaerer Coffee Joy

### 🖶 schaerer



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



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

During dispensing or cleaning, never reach under the dispensing positions.

#### Machine cleaning (cleaning programme)



- Press the S button.
- The "Maintenance program" menu appears.
- ► Leaf through the menu to "Machine cleaning" using ↓ and →.
- ► Confirm by touching P.
- Image: The cleaning programme starts.



- Empty the drip tray.
- Fill the drinking water tank.
- Place a container (min. 3 l) under the beverage outlet.



- Place a cleaning tablet into the inlet (see figure).
- Close the inlet lid and confirm with P.
   Cleaning starts.
- ☑ The remaining cleaning duration appears on the display.

#### Milk system cleaning (manual)



After the machine cleaning programme is finished, the instruction for manual milk system cleaning appears on the display.

- Slide the beverage outlet to the highest position.
- Press the release on the back of the beverage outlet and pull the foamer head down and off.



- Remove the grounds container and release the milk hose out of the guide.
- Take out the steam nozzle located in the beverage outlet at the top.



- Disassemble all parts (see figure).
- Immerse all parts in a solution of 500 ml of hot water and 25 ml of "Milkpure" cleaning product for ±30 min.
- Wash all parts under luke warm, running water.



- Clean the outlets of the foamer head and the steam nozzle with a brush.
- Let the parts dry fully.
- Reassemble all parts.
- Insert the steam nozzle in the beverage outlet.
- Attach the foamer head.



- Clamp the milk hose into the provided guide.
- Insert the grounds container.

Þ

#### **Cleaning the brewing unit (manual)**



Remove the lid over the brewing unit.



- Pull back the release of the brewing unit.
- Pull the brewing unit out of the machine.



- brewing unit anticlockwise until the ejector is located in the front position.
- Clean the brewing unit under flowing water.
- Let the brewing unit dry fully before reinstalling it in the machine.
- Place the lid on the brewing chamber.



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

Observe all hygiene regulations according to HACCP.



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

Schaerer Ltd. P.O. Box Allmendweg 8 CH-4528 Zuchwil info@schaerer.com www.schaerer.com Schaerer Coffee Joy | Version 01 | 02.2011 QRCSCJ\_w\_en

N° 022481

#### Bean hopper

Old bean grease in the bean hopper can have a negative impact on the coffee quality.



Danger of injury from rotating grinding discs in the grinder. Never reach into the bean hopper while the coffee machine is switched on.

- ▶ Wipe the inside of the bean hopper with a moist cloth.
- ▶ Dry with a clean cloth.

#### Outer surfaces of the coffee machine

- Switch off the machine before cleaning the outer surfaces.
- Spray commercially available glass cleaner onto a paper towel.
- ► Use it to clean the user panel of the coffee machine.
- Clean the remaining outer surfaces of the coffee machine with a moist cloth.



#### **Optional accessories (Option)**

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 out of the cooling unit.
- Thoroughly clean the interior of the cooling unit with water and a household cleaning product.
- Place the milk back into the cooling unit.

#### Warm-up rinse

The warm-up rinse rinses and warms the coffee machine pipes. If a beverage has not been dispensed for some time, a warm-up rinse can be performed before the next beverage is dispensed. This guarantees that the beverage has an optimal temperature.

- Press the button.
  - $\ensuremath{\boxdot}$  The cleaning menu appears.
- Leaf to the "warm up rinsing" menu with the + button.
- Press the P button.
   A warm-up rinse is performed.

#### HACCP Cleaning Concept

#### **Cleaning regulations**

When installed, maintained, cared for and cleaned properly, Schaerer AG coffee machines fulfil HACCP regulations.



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 dispensing has ended.
- Never put cleaning products in the milk container.
- Never put cleaning products in 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 instructions 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.

#### **Cleaning schedule**



"Cleaning" regarding the use of cleaning products.

- ► Copy the HACCP Cleaning Concept and store/post it in the vicinity of the machine.
- Record each cleaning with the time and a signature.

Year:

🗌 Januar	у
🗌 July	

February
August

March September April October 🗌 May November

🗌 June

December

	Machine cleanings	Machine cleanings (time and signature):								
Date		Perform daily!		Perfor	Signature					
Date	Daily machine cleaning	Milk container (option)	Cleaning of cooler (option)	Weekly machine cleaning	Defrosting of cooler (option)	Signature				
1.										
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										
11.										
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31.										

#### **Cleaning products**



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

Weekly c	leaning
----------	---------

Schaerer cleaning tablets

Milkpure milk system liquid cleaner

#### **Cleaning tablet**



Before using the cleaning tablet, carefully read the information on the packaging and the "HEALTH & SAFETY DATA SHEET". If a HEALTH & SAFETY DATA SHEET is not present, please request it from the sales partner.

Info	rm	ati	or
			•••

Γ

Information		
Application	Weekly cleaning of the coffee system	
Purpose of cleaning	Removal of grease residue in the coffee system	
Application interval	once a week	
State and odour	See the "HEALTH & SAFETY DATA SHEET".	

#### Milkpure



Before using the cleaning product, carefully read the information on the packaging and the "HEALTH & SAFETY DATA SHEET". If a HEALTH & SAFETY DATA SHEET is not present, please request it from the sales partner.

Information		
Application	Weekly cleaning of the milk system	
Purpose of cleaning	Removal of lime scale deposits and milk stone from the milk system and steam nozzle.	
Application interval	Once a week	
State and odour	See the "HEALTH & SAFETY DATA SHEET".	

#### Descaler



Before using the descaler, carefully read the information on the packaging and the "HEALTH & SAFETY DATA SHEET". If a HEALTH & SAFETY DATA SHEET is not present, please request it from the sales partner.

Information		
Application	Boiler and pipe system decalcification	
Purpose of cleaning	Removal of lime scale deposits in the coffee machine	
Application interval	As instructed by the coffee machine	
State and odour	See the "HEALTH & SAFETY DATA SHEET".	

### Service and maintenance

#### **Decalcification**

When the machine needs to be decalcified, a corresponding request appears on the display.

The decalcification interval depends on the following factors:

Danger of poisoning from ingesting or inhaling the decalcifier.

- Water hardness
- Water flow rate
- Use of a water filter

CAUTION! User at risk!

damage!

**Risk of machine** 

CAUTION! A Household deca

Household decalcifiers can destroy the coffee machine. For decalcification, use Schaerer decalcifiers only. Liability cannot be accepted for damage resulting from the use of other decalcifiers.

Do not drink or inhale the decalcifier or the rinse water output during the decalcification

The decalcification message on the display can be delayed by pressing the - button. However, dispensing of beverages will be blocked after another 50 brewings. After that, the decalcification process must be carried out.

- Slide the beverage outlet to the highest position.
- Press the release on the back of the beverage outlet and pull the foamer head down and off.
- ► Detach the milk hose from the milk foamer.
- Press the button.
   The cleaning menu appears on the display.
- ▶ Use the ⊣ button and → button to navigate to the "machine descaling" menu item.
- ► Confirm the selection with the P button.
- Empty the drip tray.
- ► Take the drinking water tank out of the machine.
- Remove the water filter (if present).
- ▶ Pour a full bottle of Schaerer decalcifier (750 ml) into the drinking water tank.
- Fill the drinking water tank all the way with water.
- Slide the drinking water tank back into the machine.
- Place a large container (min. 3 l) under the beverage and hot water outlet.
- ▶ Start the decalcification process with the P button.
  - The decalcification process begins.
  - $\ensuremath{\boxtimes}$  The remaining decalcification time is shown on the display.

After approx. 30 min, the request to empty the drinking water tank appears on the display.

- Empty the drinking water tank and rinse it thoroughly
- Confirm the display request with the P button.
- ► Fill the drinking water tank with fresh water and slide it back into the machine.
- ► Confirm the display request with the P button.
  - $\ensuremath{\boxdot}$  The decalcification process is continued.
  - ☑ The remaining decalcification time is shown on the display.



Recommendation: After the decalcification process is completed, dispense a test beverage and pour it away.



#### Adjusting the grinding fineness

The grinding fineness is influenced by wear on the grinder disk. To ensure a constant grinding quality, the grinding fineness needs to be adjusted when required.



Danger of injury from rotating grinding discs in the grinder. Never reach into the bean hopper while the coffee machine is switched on.



If the grind level is set while the grinder is idle, the grinder can be set too firmly and may not start as a result.

The grinder must always be running while it is being adjusted.

- ► Open the cover of the bean hopper.
- ▶ Place the multitool onto the grind level adjuster (see figure).
- ▶ Press the beverage button (e.g. espresso) and wait for the grinder to start running.

#### **Option 1: Finer setting of grind level**

Press the multitool down and turn anticlockwise.

#### **Option 2: Coarser setting of grind level**

Press the multitool down and turn clockwise.

#### Water filter (Option)

Open the water filter box.

tridge is found beneath it.

Pull up the locking mechanism on the adapter.

#### Installing the water filter for the internal drinking water tank



Read the previous chapter entitled "Water quality".

Remove the water outlet screen installed in the water tank.

The "Filter for the internal drinking water tank" initial installation set can be obtained from Schaerer AG if the water quality is insufficient (order number: 071398).



The water filter is only suitable for installation in the internal drinking water tank of the machine.

☑ The water filter adapter is located at the top, and the separately packaged filter car-

- 1000



► Attach the adapter to the water outlet connector and push down the locking mechanism.



▶ Unpack the filter cartridge and mount it on the adapter.

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For correct calculation of the decalcification time, the hardness of the water (determined by the water hardness test) and the use of a filter must be entered in the coffee machine programming.



See "Programming" - "Basis settings".

#### Changing the water filter for the internal drinking water tank

When the filter needs to be changed, a corresponding prompt appears on the display.



► Take the drinking water tank out of the machine.

- Take the old filter cartridge out of the adapter.
- Unpack the new filter cartridge and mount it on the adapter.
- Slide the drinking water tank back into the machine.



*The replacement cartridges can be ordered from Schaerer AG as a 6-piece set (order number: 071397).* 

#### Maintenance

The coffee machine does not require 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.



Failure to perform a required maintenance in due time may lead to wear and reliable operation is no longer assured.

Inform the service partner as soon as possible after the maintenance message appears.

### Programming

#### Navigation

Symbol	Description
С	<ul> <li>Cancel the procedure.</li> <li>Leave the programming.</li> <li>"No" in response to requests.</li> </ul>
0	Opens the cleaning menu of the machine.
P	<ul> <li>Opens the programming of the machine.</li> <li>"OK" to confirm new or existing settings and continue to the next menu item.</li> <li>"Yes" in response to requests.</li> </ul>
÷	<ul><li>Navigate forward in the programming.</li><li>Set parameters.</li></ul>
-	<ul><li>Navigate back in the programming.</li><li>Set parameters.</li></ul>

#### **Overview**



- ► Press the ℙ button.
  - ☑ The programming opens.
- ▶ Navigate using + button and button.

The programming contains the following menus:

- cup size
- beverage settings
- basic settings
- counters
- system information



The menus and menu items are described below in this chapter.

#### cup size (beverage volume)

The total cup volume of the various beverages can be adjusted in the "cup size" menu.



The ingredients of the beverages are adjusted to the new cup volume without affecting the composition and quality.

- Navigate to the "cup size" menu in the programming.
- ▶ Press the P button.
- Select the beverage you wish to set.
  - ☑ The "cup volume" menu appears.

Display/ display text	Parameter description	Setting range	Notes
Cup volume: 100%	<ul> <li>Set the cup volume using the + button and</li> <li>button.</li> </ul>	50 – 150%	-
	<ul> <li>A test beverage can be dispensed by pressing the selected beverage button.</li> <li>▶ Press the ℙ button to exit the setting.</li> </ul>		

#### beverage settings

Various beverage parameters can be set in the "beverage settings" menu.

- ▶ Navigate to the "beverage settings" menu in the programming.
- ▶ Press the P button.
- Select the beverage you wish to set.
   The first menu item appears.

The menu contains:

- water volume
- strength
- milk volume
- rest period (for latte macchiato)
- sequence (dispensing sequence of milk and coffee, e.g. for cappuccino)
- pre brew

Menu item (display text)	Description	Setting range	Notes
Water volume: 35 ml	This menu item can be used to adjust the water content of a beverage.	20 – 300 ml	Factory setting: Espresso: 35 ml
	<ul> <li>Set the water volume using the + button and - button.</li> </ul>		Café creme: 140 ml
	A test beverage can be dispensed by pressing the selected beverage button.		
	► Press the ℙ button to exit the setting.		
Strength: 100%	The coffee strength can be adjusted for every beverage. This setting changes the grinding time in the grinder and thus the quantity of ground coffee.	50 – 150%	The coffee strength can also be adjusted for each individual bevera- ge that is dispensed.
	► Set the coffee strength using the + button and - button.		See "Operation" - "Se- lecting the coffee
	A test beverage can be dispensed by pressing the selected beverage button.		strength".
	<ul> <li>Press the P button to exit the setting.</li> </ul>		
Milk volume: 9 sec	This menu item can be used to set the dispen- sing duration of the milk and thus the milk quan- tity.	2 – 60 sec	Factory setting: Cappuccino: 9 sec Latte macchiato: 19 sec
	<ul> <li>Set the milk volume using the + button and</li> <li>button.</li> </ul>		
	A test beverage can be dispensed by pressing the selected beverage button.		
	<ul> <li>Press the P button to exit the setting.</li> </ul>		

Menu item (display text)	Description	Setting range	Notes
Rest period: 15 sec	The rest period is a pause between the milk out- put and the coffee output.	2 – 60 sec	When dispensing latte macchiato, the rest peri-
	<ul> <li>Set the duration of the rest period using the + button and - button.</li> </ul>		od allows time for the milk to settle. This re-
	A test beverage can be dispensed by pressing the selected beverage button.		sults in the pronounced layering typical of this beverage.
	► Press the P button to exit the setting.		Recommendation: 15 sec
sequence: milk-coffee	This menu item can be used to set the dispen- sing sequence of the milk and coffee.	milk-coffee milk+coffee	-
	<ul> <li>Set the sequence using the <sup>1</sup>/<sub>+</sub> button and</li> <li>button.</li> </ul>	coffee-milk	
	A test beverage can be dispensed by pressing the selected beverage button.		
	<ul> <li>Press the P button to exit the setting.</li> </ul>		
Pre brew: 9 sec	<ul> <li>This menu can be used to switch pre-brewing on or off.</li> <li>During pre-brewing, the ground coffee is moistened with water to let it swell. This enables a uniform and more thorough extraction. The brewing process is lengthened slightly.</li> </ul>	2 – 60 sec	Recommendation: Activate pre-brewing for espresso, cappuccino and latte macchiato.
	► Switch pre-brewing on or off using the button and button.		
	A test beverage can be dispensed by pressing the selected beverage button.		
	<ul> <li>Press the P button to exit the setting.</li> </ul>		

#### basic settings

Various machine parameters can be set in the "basic settings" menu.

- ▶ Navigate to the "basic settings" menu in the programming.
- ▶ Press the P button.
  - $\square$  The first menu item appears.

The menu contains:

- language
- time
- date
- date/time (display)
- switch-on/off time
- water hardness
- water filter
- sound
- brewing temperature
- factory setting
- · display contrast

Menu item (display text)	Description	Setting range	Notes	
Language: German	<ul> <li>Set the language using the + button and - button.</li> <li>Press the P button to exit the setting.</li> </ul>	German, English, Dutch, Spanish, French, Italian, Danish, Swedish, Nor- wegian	_	
Time: hh/mm/ss	<ul> <li>Set the hours using the + button and - button.</li> <li>Press the P button.</li> <li>Set the minutes using the + button and - button.</li> <li>Press the P button.</li> <li>Set the seconds using the + button and - button.</li> <li>Press the P button to exit the setting.</li> </ul>	hh: 00 – 23 mm: 00 – 59 ss: 00 – 59	_	
Date: dd/mm/yy	<ul> <li>Set the day using the + button and - button.</li> <li>Press the P button.</li> <li>Set the month using the + button and - button.</li> <li>Press the P button.</li> <li>Set the year using the + button and - button.</li> <li>Press the P button to exit the setting.</li> </ul>	dd: 01 – 31 mm: 01 – 12 yy: 2000 – 2099	If a non-existent date is entered (e.g. 31.06.2011), the date returns to its initial value after the setting is exi- ted.	
Date/time: on	<ul> <li>This menu item can be used to switch the date and time display on and off.</li> <li>Switch the display on and off using the ↓ button and — button.</li> <li>Press the P button to exit the setting.</li> </ul>	On/off	_	
Switch-on time: on	<ul> <li>This menu item can be used to set the coffee machine to switch on automatically at a certain time.</li> <li>▶ Switch the switch-on time on or off using the</li></ul>	On/off	Recommendation: Set the machine to swit- ch on 10 min before it needs to be ready for operation. The machine will then be warm and ready to dispense be- verages by the time it needs to be operational.	
Menu item (display text)	i item (display text) Description		Notes	
---------------------------	--	--	---	--
Switch-off time: 30 min	<ul> <li>The switch-off time setting is used to switch off the machine after a certain period elapses during which no beverage was dispensed.</li> <li>Set the switch-off time using the → button and → button.</li> <li>Press the P button to exit the setting. The machine needs to be switched on again to dispense the next beverage.</li> <li>CAUTION! Risk of machine damage!</li> <li>If the machine is switched off automatically via the switch-off time, a milk system rinse is not performed. If the machine remains switched off for an extended period, the milk residue in the milk hose will produce germs and mould.</li> <li>If the machine is to be switched off for an extended period, a milk system rinse must be performed.</li> </ul>	0 (= off) 5 – 112 min	Automatic switching off of the machine during extended periods of di- suse saves power.	
Water hardness: 5-8	<ul> <li>This menu item can be used to set the hardness of the water being used in the coffee machine.</li> <li>▶ Set the water hardness using the + button and - button.</li> <li>▶ Press the P button to exit the setting.</li> </ul>	0-4 5-8 9-12 13-16 > 16	-8 -12 3-16 during the commission- ing program. See "Installation and commissioning" - "Com	
Water filter: yes	<ul> <li>This menu item can be used to set the use of a water filter.</li> <li>▶ Set the use of a water filter to "Yes" or "No" using the + button and - button.</li> <li>▶ Press the P button to exit the setting.</li> </ul>	yes/no	This parameter is set during the commission- ing program. See "Installation and commissioning" - "Com- missioning program" for further information.	
Sound: on	<ul> <li>This menu item can be used to switch the acoustic signal for navigation in the programming and for beverage dispensing on and off.</li> <li>► Switch the acoustic signal on or off using the → button and → button.</li> <li>► Press the P button to exit the setting.</li> </ul>		-	
Brewing temperature: 92°C	<ul> <li>This menu item can be used to set the brewing water temperature.</li> <li>▶ Set the temperature using the + button and - button.</li> <li>▶ Press the P button to exit the setting.</li> </ul>	emperature. the temperature using the 手 button and button.		
Factory setting	<ul> <li>Activating the factory setting resets all programming settings to the factory setting.</li> <li>▶ Set the factory setting to "yes" or "no" using the ⊕ button and — button.</li> <li>▶ Press the ℙ button to exit the setting.</li> <li>☑ The "yes" setting resets all settings to the factory settings.</li> </ul>	yes/no	-	

Menu item (display text)	Description	Setting range	Notes
Display contrast	<ul> <li>This menu item can be used to set the display contrast.</li> <li>▶ Set the contrast using the + button and - button.</li> <li>☑ The contrast changes simultaneously.</li> <li>▶ Press the p button to exit the setting.</li> </ul>	lighter + softer / darker + shar- per	-

## counters

In the "counters" menu, the dispensing counter for all beverages can be viewed and cleared.

- ► Navigate to the "counters" menu in the programming.
- ▶ Press the P button.
- Select the beverage you wish to set.
   The first menu item appears.

### The menu contains:

- Counter, Espresso
- Counter, Café Creme
- Counter, Cappuccino
- Counter, Latte Macchiato
- Counter, mug of milk
- Counter, Hot Water
- Counter, 2x espresso
- Counter, 2x café creme
- Counter, 2x cappuccino
- total counter
- reset all counters

Menu item (display text)	Description	Setting range	Notes
Espresso: 23	<ul> <li>All beverage counters are listed in the "counters" menu.</li> <li>Navigate through the counters using the - ↓ button and → button.</li> </ul>	Espresso Café Creme Cappuccino Latte Macchiato mug of milk Hot Water 2x Espresso 2x Café Creme 2x Cappuccino	-
total counter: 50	<ul> <li>The total count of all dispensed beverages is displayed after the individual counters.</li> <li>▶ Navigate further using the ⊣button.</li> </ul>	-	-
reset all counters	<ul> <li>The request to reset all counters appears at the end.</li> <li>▶ Press the P button for "Yes" to reset all counters.</li> <li>or</li> <li>▶ Press the C button for "No" to retain all counter values.</li> </ul>	yes/no	_

# system information

The "system information" menu contains information on the machine.

- ► Navigate to the "system information" menu in the programming.
- Press the P button.
   The first menu item appears.

The menu contains the following information:

- Software version and date
- Machine name and version
- Fabrication number
- Production date

# 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

Messages are displayed if intervention by a user or service technician is needed to ensure operating readiness of the machine. There are two different causes for display messages:

- Note
- Fault



See "Operation" - "Display messages" for notes.

The following table describes display messages pertaining to faults as well as the steps needed to eliminate these.

Display message	Cause	What to do
place brewer	The brewing unit is not inserted.	Insert the brewing unit.
Brewer position switch	The brewing unit is not correctly inserted.	Check that the brewing unit is correctly seated.
	The brewing unit is stiff.	<ul> <li>Remove the brewing unit.</li> </ul>
		There are two nozzles with black sealing rings on the inside of the machine.
		<ul> <li>Grease the sealing rings with grease from the ac- cessories.</li> </ul>
		Put the brewing unit back in place.

Display message	Cause	What to do		
Clear flow stopped	There is too much air in the pipes.	<ul> <li>Dispense a cup of hot water.</li> <li>Inis bleeds the pipes.</li> </ul>		
	The water filter or the associated sieve	<ul> <li>Clean the sieve of the water filter.</li> </ul>		
	is clogged.	If this does not eliminate the problem:		
		<ul> <li>Change the water filter.</li> </ul>		
	The non-return valve at the outlet of the drinking water tank is contaminated.	Clean the outlet and the non-return valve with one of the small brushes in the accessories.		
	The brewing unit is clogged.	<ul> <li>Remove and clean the brewing unit.</li> </ul>		
		See "Cleaning" - "Weekly cleaning".		
	The grind level is too fine. The fine cof-	Set the grind level to a coarser setting.		
	fee powder contaminates the pipes.	See "Service and maintenance" - "Finer setting o grind level".		
		<ul> <li>Remove and clean the brewing unit.</li> </ul>		
		See "Cleaning" - "Weekly cleaning".		
Cleaning halted	The brewing screen is clogged.	<ul> <li>Clean the brewing screen.</li> </ul>		
Clear flow stopped		"Cleaning" - "Weekly cleaning".		
EEPROM error	System error	Switch the machine off and back on.		
motor driver error	System error	<ul> <li>Switch the machine off and back on.</li> </ul>		
grinder blocked	The grinder is blocked.	<ul> <li>Switch off the machine and disconnect the power plug.</li> </ul>		
		Stir the coffee beans in the bean hopper using a spoon.		
		If the error persists:		
		<ul> <li>Switch off the machine and disconnect the power plug.</li> </ul>		
		<ul> <li>Extract the beans, check the grinder and remove any blockages.</li> </ul>		
Temperature sensor steam	Overheating	Switch off the machine and let it cool for some time.		
Temperature sensor water	Overheating	<ul> <li>Switch off the machine and let it cool for some time.</li> </ul>		

# Faults without display message

Fault description	Cause	What to do
No milk foam or milk output al- though there is milk in the con-	The milk hose is kinked at some loca- tion, preventing milk from flowing.	Check the milk hose and reroute if necessary.
tainer.	The foamer head is clogged.	<ul> <li>Take the foamer head out of the beverage outlet and clean it.</li> </ul>
		See "Cleaning" - "Weekly cleaning".
No milk foam, only warm milk.	Blockage in milk system.	<ul> <li>Clean the milk system.</li> </ul>
		See "Cleaning" - "Weekly cleaning".
The milk or milk foam is too cold.	Wrong milk nozzle.	The scope of delivery contains two different milk noz- zles.
		<ul> <li>Change the milk nozzle.</li> </ul>

Fault description	Cause	What to do		
The milk is too hot, its quantity is too low or the milk foam has	The milk in the milk container is too	► Only use pre-cooled milk (3 – 5°C).		
bubbles.	warm.	<ul> <li>Cool the milk constantly during use.</li> </ul>		
	Wrong milk nozzle.	The scope of delivery contains two different milk noz- zles.		
		<ul> <li>Change the milk nozzle.</li> </ul>		
The water tank is difficult to slide in place.	The O-ring on the water outlet connector must be greased.	<ul> <li>Grease the O-ring with grease from the accesso- ries.</li> </ul>		
The brewing unit is difficult to	The brewing unit is stiff.	<ul> <li>Remove the brewing unit.</li> </ul>		
pull out and slide back in.		There are two nozzles with black sealing rings on the inside of the machine.		
		<ul> <li>Grease the sealing rings with grease from the accessories.</li> </ul>		
		Put the brewing unit back in place.		
The pump makes loud noises.	There is too much air in the pipes.	<ul> <li>Dispense a cup of hot water.</li> </ul>		
		Image: This bleeds the pipes.		
The coffee has no crema.	The coffee is no longer fresh.	<ul> <li>Replace the beans.</li> </ul>		
	The grind level is too coarse.	<ul> <li>Set the grind level to a finer setting.</li> </ul>		
		See "Cleaning" - "Weekly cleaning".		
The brewing unit cannot be re- inserted.	The brewing unit is in the wrong posi- tion.	While inserting the brewing unit, readjust it using the multitool until it can be reinserted.		
The brewing unit cannot be pulled out.	The brewing unit is in the wrong position.	<ul> <li>Readjust the brewing unit using the multitool until it can be pulled out.</li> </ul>		
Internal/external cooling unit does not cool.	The cooling unit is not switched on or is switched on incorrectly.	Set the rocker switch on the rear of the cooling unit to "COLD".		

# Water quality

A cup of coffee consists of 99 percent water. Therefore, the water has a significant effect on the coffee's taste. To obtain an excellent cup of coffee, you need excellent water.

The water is important not only to the taste of the coffee but also to the coffee machine itself. Poor water quality can lead to permanent machine damage.

Therefore, close attention needs to be paid to the water quality in order to obtain high quality coffee and protect the coffee machine.

## Water values

CAUTION! Risk of machine damage!



It is imperative that the specified values be complied with. Otherwise, Schaerer AG shall not accept liability.

The following water values are a precondition for the correct operation of the coffee machine:

- 4 6°dKH (German carbonate hardness)
- 7 8°dGH (German total hardness)
- pH value 6.5 7 (pH-neutral)
- Chlorine content max. 100 mg per litre

Water is referred to as hard or soft depending on its composition. The hardness of water is referred to as its total hardness.

The total hardness is differentiated into carbonate hardness (temporary hardness) and noncarbonate hardness (permanent hardness). In terms of the water hardness, the concentration of bicarbonate anions (HCO3-) is of special significance. The concentration of bicarbonate ions or the equivalent quantity of alkaline earth metal ions is referred to as carbonate hardness.

International conversion table (factors apply to total hardness and carbonate hardness)						
Unit ° dH ° eH ° fH ppm mmol/l						mmol/l
German hardness	1°dH	1	1.253	1.78	17.8	0.1783
English hardness	1°eH	0.798	1	1.43	14.3	0.142
French hardness	1°fH	0.560	0.702	1	10	0.1
Part(s) per million (USA)	1 ppm	0.056	0.07	0.1	1	0.01
Millimole per litre	1 mmol/l	5.6	7.02	10	100	1



pH scale

If the water values do not correspond to the above-mentioned specifications, the water must be prepared accordingly (decalcification/enrichment with minerals).



The service partner can provide detailed information on filter options and versions and can install this equipment at your location.

# Determining the water hardness

A water hardness test must be performed to determine whether a water filter is needed. If the water values are poor, trouble-free operation of the machine cannot be ensured.

The water values must also be entered when the machine is taken into service and can be readily adjusted in the machine menu. On the basis of the entered values, the machine calculates the time to the next filter change (if a filter is in use) and the time to the next decalcification routine.

Check whether a house filter system is already connected upstream from the machine.

In most water, the carbonate hardness is markedly lower than the total hardness. This is a good indicator for determining whether the water is straight from the mains or if it first passed through a house filter system.

#### Option 1: Requesting information from the drinking water supplier

Ask the local drinking water supplier for information on the water hardness (total hardness) of the drinking water.

#### **Option 2: Performing a test**

- Determine the water hardness using the test strips included in the scope of delivery.
- Dip the test strip into the tap water for ca. 1 sec.
- Remove the test strip and wait for ca. 1 min.
   The test strips changes colour.
- Compare the water analysis result with the "Total hardness" table in the "Water values" chapter.
- Install a water filter if the test result is poor.

See "Filter equipment" in this chapter or, for machines that are operated with drinking water, see the chapter entitled "Service and maintenance" - "Installing a water filter for the internal drinking water tank".

## Filter technology

To protect the coffee machines and the coffee quality against hard or soft water, filters are used. Filters are essential for the care and maintenance of the machine, not to mention for hygiene, and for the best quality of coffee.

Even when using a filter, it is still necessary to measure the water values once a year. Water is a living element and therefore changes frequently.



The service partner can provide detailed information on filter options and versions and can install this equipment at your location.





# Safety notes

Maximum safety is one of Schaerer AG's most important product features. 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.

## **User at risk!**

DANGER! Risk of electrocution!

Improper handling of electrical devices can result in electric shock. The following instructions absolutely must be complied with:

- Work on electrical systems may only be performed by skilled electricians.
- The device must be connected to a fused electrical network (we recommend passing the connection through a fault current 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 correspond to the data 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 may only be replaced by qualified service technicians.



#### Improper handling of the coffee machine can lead to light injuries. The following instructions absolutely must be complied with:

- This device is not intended to be operated by persons (including children) with limited physical, sensory or mental capabilities or a lack of experience and/or knowledge unless they are supervised by a person responsible for their safety or obtain instructions from this person on how to operate the device.
- Supervise children to ensure that they do not play with the device.
- The coffee machine must be installed so that there are no impediments to care and maintenance.
- In both self-service and full-service applications, trained personnel must supervise the machine in order to ensure that the care instructions are observed and the personnel is available for questions regarding use.
- Fill the bean hopper with beans only, the powder container with coffee machine powder only and the manual inlet with ground coffee only (or cleaning tablets during cleaning).

There is a risk of scalding in the dispensing area of beverages, hot water and steam. During dispensing or cleaning, never reach under the dispensing positions.

The dispensing positions 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 when the coffee machine has cooled down.



CAUTION!

CAUTION!

Hot surface!

Hot fluid!

There is a risk of trapping fingers or hands when handling moving components. While the coffee machine is switched on, never reach into the bean or powder containers or into the opening of the brewing unit.

# **Risk from cleaning products**

#### Application



#### Danger of poisoning from swallowing cleaning products. The following instructions absolutely must be complied with:

- 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 put cleaning products in the milk container.
- · Never put cleaning products in the drinking water tank (internal/external).
- Only use the cleaning and decalcification products for their intended purpose (see labels).
- 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 the cleaning products, carefully read the information on the packaging and the "HEALTH & SAFETY DATA SHEET". If not available, the HEALTH & SAFETY DATA SHEET can be obtained from the sales partner (see the cleaning product packaging).

#### Storage

The following instructions absolutely must be complied with:

- · Store them in a place that is inaccessible to children and unauthorised persons.
- · Protect cleaning products from heat, light and moisture.
- · Store them in a separate location from acids.
- Store them in the original packaging only.
- Store cleaning products for daily and weekly use separately.
- · Do not store them together with foodstuffs or other edibles.

#### Disposal

If recycling is not possible, cleaning products and their containers must be disposed of according to the information on the "HEALTH & SAFETY DATA SHEET", all well as all local rules and regulations.

#### **Emergency information**

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

Swiss Toxicology Information Centre		
International calls:	+41 44 251 51 51	
Call from Switzerland	145	
Internet	www.toxi.ch	



See "HEALTH & SAFETY DATA SHEET".

Important for the physician to know:

If possible, show the information on the packaging or the "HEALTH & SAFETY DATA SHEET" to the treating physician.

# Risk of damage to the machine



Improper handling of the coffee machine can lead to damage or contamination. The following instructions absolutely must be complied with:

- For water with a carbonate hardness above 5°dKH, install a calcium filter, as otherwise the coffee machine can be damaged due to calcification.
- For insurance law reasons, always ensure that after closing for the day, the main water valve (coffee machine with mains water supply) is closed and the electrical main switch is switched off or the mains plug is unplugged.
- All relevant guidelines on low voltage 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 recommend routing the water supply connection via a water stop 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 (frost, humidity etc.).
- Faults may be remedied by a qualified service technician only.
- 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.
- · When using caramelised coffee (flavoured coffee), clean the brewing unit twice daily.
- Fill the bean hopper with beans only, the powder container with coffee machine powder only and the manual inlet with ground coffee only (or cleaning tablets during cleaning).
- If the coffee machine and/or accessories are transported at temperatures below 10°C, the coffee machine and/or accessories must be stored for three hours at room temperature before the coffee machine and/or accessories are connected to the mains and switched on. Failure to observe this precaution can result in a danger of short-circuit or damage to electrical components.
- Always use the new hose set (drinking water/dirty water hose) provided with the machine. Never use old hose sets.

## Hygiene guidelines (HACCP)

#### Water



Improper handling of water can lead to health problems. The following instructions absolutely must be complied with:

- 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 4-6°dKH (German carbonate hardness) or 7-10°fKH (French carbonate hardness).
- The total hardness must always be higher than the carbonate hardness.
- The minimum carbonate hardness is 4°dKH or 7°fKH.
- Maximum chlorine content of 100 mg per litre.
- pH value between 6.5 7 (pH neutral).

Machines with drinking water tank (internal & external)

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

## Coffee



### Improper handling of coffee can lead to health problems. The following instructions absolutely must be complied with:

- Check the packaging for damage before opening.
- Do not add more beans than will be needed for one day.
- · Close the bean hopper lid immediately after filling.
- · Store coffee in a cool, dry and dark location.
- 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



### Improper handling of milk can lead to health problems. The following instructions absolutely must be complied with:

- · 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.
- Use milk directly from the original packaging.
- Never refill 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 location.
- · Store milk 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.

# Liability

### **Operator responsibilities**

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

Complaints about material defects must be reported to Schaerer AG in writing within 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 always be replaced!

The following intervals apply:

- Safety valves: every 12 months.
- Boilers (steam boilers, flow heaters) every 72 months.

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

## Warranty and liability

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:

- Non-intended use of the machine.
- Improper installation, 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.
- Operating the device when it is not in perfect condition.
- · Repairs carried out improperly.
- Use of spare parts that are not original Schaerer AG spare parts.
- Use of cleaning products that are not recommended by Schaerer AG.
- Catastrophic incidents due to foreign objects, accident, vandalism or force majeure.
- Penetrating the device with any type of object or opening the housing.

The manufacturer only accepts liability or honours warranty claims provided that all specified maintenance and service intervals have been kept and that only original spare parts supplied by the manufacturer or by a supplier authorised by the manufacturer have been used.

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