

JDE Barista ONE

Operating instructions

V03 / 02.2018



- Hot water dispensing button
- Bean hopper locking mechanism
- 3 Bean hopper
- 4 Display (touch-sensitive)
- Service doors with multi-function button
- 6 Cleaning tablet inlet
- 7 Power container (optional)
- 8 Cooling unit on/off toggle switch (optional)
- 9 Cooling unit operating elements (optional)
- 10 Brewing unit release
- 11 Drinking water tank
- 12 Disposable foamer head
- Grounds container
- 14 Drip tray with drip grid
- 15 Cup platform can be swivelled
- 16 Beverage outlet
- 17 Hot water outlet
- 18 Mains water supply
- 19 Power connection/main ON/OFF switch
- 20 Waste water outlet



- Button for [Service menu]
 Button opens the service door
 Button ends standby mode
- 2 Status bar
- 3 Display of number of pages
- 4 Beverage fields (programmable)
- 5 Next page(s) of beverages
- 6 [Back] field
- 7 [Beverage size] field
- 8 Coffee options window
- 9 Display of current beverage price
- 10 [Start beverage dispensing] field
- 11 [Roast] coffee option 1 field
- 12 [Roast] coffee option 2 field



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Operating instructions

V03 / 02.2018

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www.schaerer.com Introduction

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 www.schaerer.com

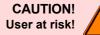
General safety notes

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!



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.
- The machine service area may only be accessed by a qualified service technician.
- 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.
- 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 are supervised or have been instructed about the safe use of the device and understand the potential hazards resulting from said use. Children must not play with the device. Children must also not be allowed to perform cleaning procedures or user service without supervision. This must only be done by persons who have the knowledge of and practical experience with the device, particularly when it comes to service and hygiene.
- 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).

www.schaerer.com General safety notes



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.
- It must be possible to disconnect the device from the mains power supply at all poles. Disconnected connections must be visible from the site of the device at all times, or a lock must be used to ensure they stay disconnected.
- The power cable must only be replaced by qualified service technicians if the mains connection cable is damaged.



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.



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.

General safety notes www.schaerer.com



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).





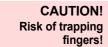
There is a risk of scalding in the area where beverages, hot water and steam are dispensed.

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

CAUTION! Hot surface!



The dispensing points 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.





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.

www.schaerer.com General safety notes

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 °dKH, 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 of 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.

10 BA JDE BARISTA ONE EN V03 | 02.2018 Product description www.schaerer.com

Product description

Intended use

The JDE Barista ONE (JDE BO) and JDE Barista ONE Plus (JDE BO Plus) have 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 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 are supervised or have been instructed about the safe use of the device and understand the potential hazards resulting from said use. Children must not play with the device. Children must also not be allowed to perform cleaning procedures or user service 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.



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).

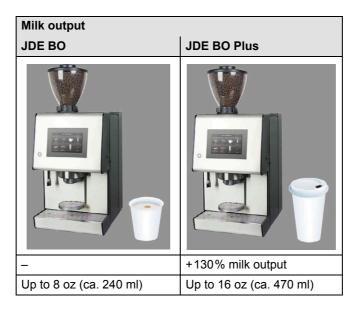
Beverage types and output

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

Beverage output per hour		
Beverage type	JDE BO	JDE BO Plus
Coffee / espresso	Up to 60 cups	Up to 100 cups

Beverages that can be dispensed			
Beverage type	JDE BO	JDE BO Plus	
Espresso	✓	✓	
Americano / coffee	✓	\checkmark	
Cappuccino	Option	Option	
Latte macchiato	Option	Option	
Powder based beverages (choco/milk)	Option	Option	
Hot water	✓	✓	
Small pot 250 ml	✓	✓	
Pot 500 ml	✓	✓	

www.schaerer.com Product description



Scope of delivery and accessories

Quantity	Designation	Article number
1	JDE Barista ONE coffee machine	-
Documentat	ion	
1	Operating instructions	-
1	Delivery quality form	-
General acc	essories	
1	Replacement cartridge 200	072617
1	Adapter for replacement cartridge 200	33.2327.1000
1	Carbonate hardness test (bag with 2 test strips)	067720
1	Multi-tool with opener for service door	072816
1	Molykote grease 111	33.2179.9000
1*	NcFoamer set with orange milk nozzle 1.15 mm (15 pcs.) standard	072926
1*	NcFoamer UM KE set with orange milk nozzle 1.15 mm (15 pcs.) standard	073015
1*	Milk hose clamp UM KE	072831
1	Drain hose 1500 mm	00.0048.0042
1*	Screw plug for drip tray	072904
1*	Armoured hose 1.5m G3/8" – G3/4"	33.2292.1000
1*	Sensor cable for Barista ONE side cooling unit	072902
1*	Waste water valve set	072489
1*	Buffer 20x0.6 Elastomer transpar. 4 pcs. to SCU	074319
1*	Power cable EU 3x1 mm²	063260
	Power cable CH 3x1 mm²	063261
	Power cable UK 3x1 mm²	071919
	Power cable JP-C13 angled 3x2 mm²	069087
Cleaning / C	Cleaning accessories	
1	Cleaning tablets (bottle with 100 pcs.)	065221
1	Cleaning brush	062951

^{* *} Depending on machine version.

Product description www.schaerer.com

Options and optional accessories

Example	Option	Description
	Overview of available options	Optional accessories from the left are: External payment system Additional side cooling unit 8 I Cup dispenser
	Side cooling unit	External cooling unit for machines with Milk Smart. Capacity: 8 I
	Coin changer with external card reader	Payment systems can be installed via an MDB (Multi Drop Bus) interface. An external payment system can be retrofitted.
€£ \$	Payment system interfaces	Commercially available payment systems acc. to the MDB standard can be connected. A payment system can be retrofitted. Possible interfaces: • MDB-S • DIVA2 • DIVA2 Max Connection to dispensing equipment and cash register systems: • Via E protocol • Via CSI protocol

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Example	Option	Description
Example	Cup dispenser	Storage for three different cup sizes. Other cup sizes can be retrofitted at any time. Three containers at the top for sugar, stir sticks and similar. Cup sizes: Diameter 60 – 74 mm Diameter 75 – 82 mm Diameter 83 – 90 mm
3kW = +80mm	Plus	The "Plus" option offers a larger boiler power for greater coffee or coffee/milk output. The construction depth increases by 80 mm. Boiler power 3 kW. This option cannot be retrofitted.
	Second grinder with partition wall in bean hopper	A partition wall for the bean hopper including 2nd grinder can be retrofitted. Left bean hopper compartment capacity: 800 g Right bean hopper compartment capacity: 500 g
	Powder system with twin powder container	Powder system for 1 or 2 powder types Capacity per powder container: 300 g

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Example	Option	Description
	Powder system with powder container	One large powder container can be added to the powder system on the left instead of two small ones. Capacity of large powder container: 600 g
	Cold water mixing valve to powder system	The addition of cold water for instant beverages is standard in machines with a powder system. The mixing valve is optional in machines without a powder system. The mixing valve can be retrofitted in machines without a powder system.
	Brewing accelerator for large beverages	The brewing accelerator permits more efficient beverage dispensing of large volumes of beverages (e.g. Americano) with improved beverage quality.
	Double beverage outlet (Standard with Powerpack option)	Double beverage dispensing is possible for pure coffee beverages. The double beverage outlet cannot be retrofitted and must be selected when the machine is first configured.
A	Standard NcFoamer set (A) for standard milk temperature.	Different milk nozzles should be used depending on the machine equipment level. Machines with an under-machine cooling unit require the NcFoamer with a long hose. See "Operation" – "Filling and connecting" – "Milk" for detailed information on the milk nozzles and colour coding.

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Example	Option	Description
B	Optional NcFoamer set (B) for increased milk temperature.	Machines with an under-machine cooling unit require the NcFoamer with a long hose. The temperature of milk and milk foam is increased by ca. 10°C using these milk nozzles. See "Operation" – "Filling and connecting" – "Milk" for detailed information on the milk nozzles and colour coding.
15cm 15cm	Movable cup platform with reduced cup height	Two cup platforms are available for selection. With the standard cup platform, the height above the cup grid is 15 mm higher. The cup platform with a lower cup height by 15 mm can be retrofitted. The following cup heights are available: Without cup platform 185 mm With cup platform, long 100 mm With cup platform, short 85 mm (option)
	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. The under-counter grounds disposal can be added without modifying the machine. The under-counter grounds disposal is also required together with the "Base with drawer and integrated grounds container" option.
	Waste water outlet	A waste water outlet can be retrofitted.
	Monitored waste water tank	A monitored external waste water tank instead of a waste water outlet.



For detailed information, please contact your sales partner.

Product description www.schaerer.com

Technical data

Nominal power	JDE BO	JDE BO Plus**
	2000-2400 W	2800-3300 W

Operating temperature	Steam boiler	Hot water boiler
Minimum operating temperature (T min.)	115°C	70°C
Maximum operating temperature (T max.)	135°C	98°C

Overpressure	Steam boiler	Hot water boiler
Working overpressure	4 bar	16 bar
Permissible working overpressure (p max)	16 bar	16 bar
Test overpressure	24 bar	24 bar

Capacity		
Water tank	5.2	
Bean hopper 1st grinder	600 g	
Bean hopper 2nd grinder*	600 g	
Special bean hopper for grinder left*	1x 1200 g	
Powder container*	1X 1400 g	
Twin powder container*	2x 700 g	
Grounds container	40 coffee cakes	

External dimensions	JDE BO	JDE BO Plus**
Width	346 mm	346 mm
Height (incl. max. foot height)	570 mm	570 mm
Depth	518 mm	598 mm

Empty weight	JDE BO	JDE BO Plus**
	25 kg	33 kg

Continuous sound pressure level***	JDE BO	JDE BO Plus**	
	<70 dB (A)	<70 dB (A)	

We reserve the right to make technical changes.

- * Option
- ** 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

The serial plate is located on the:

- · Rear of the machine directly underneath the mains connection and main switch.
- Inside the machine directly behind the drinking water tank on the rear machine panel.

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Designation Manufacturer

Schaerer AG, Allmendweg 8 4528 Zuchwil, **Switzerland** Typ Model JDE Barista ONE Plus Nominal pressure main pressure Electrical Ratings 1.6 MPa (16 bar) 0 – 1.0 MPa (0 – 10 bar) 2800-3300W 220-240V~ 50/60Hz

Fuse on-site 1704 217913 Serial No.

In case of a technical problem or warranty claim, state the serial number specified on the serial plate.

Example of a serial plate



The first 2 digits in the serial number inform you about the product year and the second 2 digits state the calendar week.

Type and model designation

Туре	Model
SCP	JDE Barista ONE
SCPP (SCP with Power Pack)	JDE Barista ONE Plus

EC 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 (SCPP JDE Barista ONE Plus) 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. A quality management system certified by Bureau DEKRA, in accordance with ISO 9001 and 14001, has been used to ensure the proper adherence to the requirements. The manufacturer assumes sole responsibility for issuing this declaration of conformity. The object of the declaration described above fulfils the requirements of directive 2011/65/EC of the European Parliament and Council from June 8, 2011 for limiting the use of certain hazardous substances in electric and electronic devices.

For CE conformity			
Machinery Directive 2006/42/EC	EMC Directive 2014/30/EC		
• EN 60335-1: 2012 +AC +A11	• EN 55014-1: 2006 +A1 +A2		
• EN 60335-2-75: 2004 +A1 + A11 +A2	• EN 55014-2: 1997 +A1 +A2		
+A12	• EN 61000-3-2: 2014		
• EN 62233: 2008	• EN 61000-3-3: 2013		
RoHS Directive 2011/65/EC			

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For compliance with European ordinances

- Ordinance (EC) no. 10/2011
- Ordinance (EC) no. 1935/2004
- Ordinance (EC) no. 2023/2006
- WEEE 2012/19/EC

International (CB)			
Safety	EMC		
• IEC 60335-1: 2006	• CISPR 14-1: 2009		
• IEC 60335-2-75: 2009	CISPR 14-2: 2008		
	• IEC 61000-3-2: 2001		
	• IEC 61000-3-3: 2008		

Installation and commissioning



The machine must be installed in accordance with the applicable federal, state and local electrical and sanitary regulations. This includes an adequate non-return mechanism.

Setting up coffee machine

Location

CAUTION! Risk of machine damage!



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, horizontal and level so that is 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.

Ambient conditions

CAUTION! Risk of machine damage!



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.

Installation and commissioning www.schaerer.com



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.)
- Never operate a device with a damaged power cable. Have a defective power cable or plug replaced immediately by a qualified service technician.
- Schaerer 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.

Power cable



Use of a faulty power cable or one that is not the original cable results in the risk of electric shock and fire.

Use the original power cable.

- The original power cable for your country can be obtained from your service partner.
- Power cables that are plugged in on both sides can be replaced by the customer.
- Permanently connected power cables must be replaced by a service technician.

This device contains a ground connection as a functional earth.

Connection values

JDE BO					
Mains	Connection va	lues		Fuse protection (building side)	Connecting cable, conductor cross-section
*1L, N, PE (CH)	220 – 240 V ~	50/60 Hz	2000-2400 W	10 – 16 A	3 x 1.0 mm ²

JDE BO Plus (option)					
Mains	Connection values		Fuse protection (building side)	Connecting cable, conductor cross-section	
*1L, N, PE (CH)	220 – 240 V ~	50/60 Hz	2800-3300 W	16 A	3 x 1.5 mm²

We reserve the right to make technical changes.

^{*} The values specified here apply to the basic equipment.

Water connection/drain

Conditions

CAUTION! Risk of machine damage!

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 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 °dKHor 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:	1.0 MPa (10 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.

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Installation and commissioning www.schaerer.com

Power supply connection

Option 1: JDE BO to 2 kW

- ▶ Insert the power cable plug into the lower back of the machine.
- ▶ Insert the power plug into the building power socket.
 - ☑ The machine is ready to be switched on.





Option 2: JDE BO Plus with 3 kW

The machine is equipped with a permanent cable connection at the factory. On the building side, the machine is connected to the power socket by means of a country-specific plug or an upstream main switch with a contact opening at all poles of min. 3 mm. If the electrical installation is permanently installed, a support device in accordance with national installation regulations must be installed which separates the device from the mains power supply at all poles. The contact opening width at every pole must exhibit the conditions of overvoltage category III for full separation.

- ▶ Insert the power plug into the building power socket or switch on the upstream main switch.
 - ☑ The machine is switched on.
 - $\ \ \, \square$ The main screen appears, and the machine begins to heat up.
 - ☑ The machine is ready for use as soon as the required temperature is reached.



When the machine is switched on for the first time, display-guided adjustment of the machine configuration follows automatically.

Automatic commissioning program



The commissioning program automatically starts the first time the machine is switched on. It explains all aspects of installation.



See Chapter "Operation" - "Switching on" for a description on how to switch on the coffee machine

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:

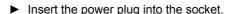
- The stop valve of the water supply (in machines with a mains water supply) is open/the drinking water tank is filled with fresh water.
- The drip tray has been emptied and is correctly inserted/the waste water outlet is correctly routed/the waste water tank is connected.
- The bean hopper(s) is/are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

Switching on

Switching on



Option 1: JDE BO with 2 kW



Switch on the coffee machine using the main switch at the lower back of the machine (next to the power supply connection).

Option 2: JDE BO Plus with 3 kW

All JDE BO Plus machines are equipped with a permanent cable.

▶ Insert the power plug into the socket.



The figure shows the SCP with 2 kW and a removable power cable

Option 3: From standby mode

- ▶ Briefly press the button on the right side of the user panel.
 - ☑ The machine starts from standby mode.
 - $\ \ \, \square$ The main screen appears, and the machine begins to heat up.
 - ☑ The machine is ready for use as soon as the required temperature is reached.





When the machine is switched on for the first time, display-guided adjustment of the machine configuration follows automatically.

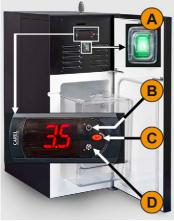
Operation www.schaerer.com



Option: Side cooling unit

Connecting:

- ► Connect side cooling unit with separate mains cable to the rear [A].
- ► Connect level monitoring on the rear [B].



Switching on:

- ▶ Open doors.
- ► Switch toggle switch [A] to position [I].
- ▶ Press and hold button [B] ±3 sec.☑ The device is switched on.

Temperature setting:

- ▶ Press and hold button [C] until the current temperature flashes.
- ▶ Increase the set temperature using the [B] button or reduce using the Setting button [D].
- ▶ Button [C] saves the setting.
- ► Close the door.



Observe the operating instructions for the side cooling unit.



See "Operator control" - "Filling and connecting" - "Milk" - "Option: Additional cooling unit".

Main window touch screen

Overview



Display message

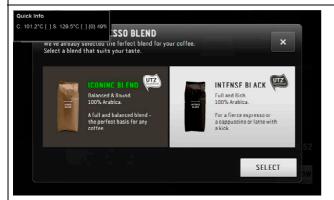
Quick Info C. 101.2°C[]S. 129.5°C[](0) 49% REGULAR LARGE PERSONALISE YOUR COFFEE Extra shot of espresso NO YES EDIT TOTAL CHFO.OD BRFW NOW

Description

Settings display for beverage options.

(Available with "MiniCoffeeKitchen" user interface)

See "Programming" – "Caretaker profile" – "Configuration" - "General" - "User interface".



Display of selection of a roast (beverage option).

(Available with "MiniCoffeeKitchen" user interface)

See "Programming" – "Caretaker profile" – "Configuration" - "General" - "User interface".



Display of payment instruction with active payment system (option).



Display for instruction for selection of mug size and position. (Available with "MiniCoffeeKitchen" user interface)

See "Programming" – "Caretaker profile" – "Configuration" - "General" - "User interface".

Which elements are visible on the display depends on the machine status.

Symbol	Description
Info line SELECT YOUR BEVERAGE(14)	The info line at the very top of the display provides information on:
	Possible actionsPending error messagesMachine status

Operation www.schaerer.com

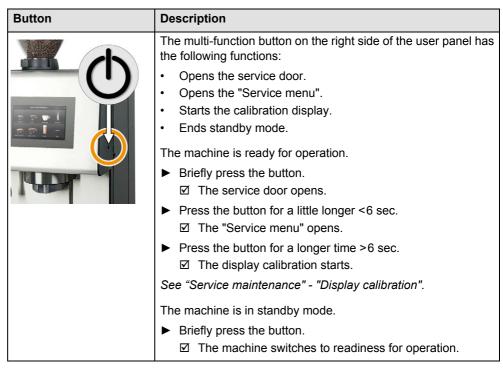
Symbol	Description
Beverage field	The desired beverage can be stored with each beverage field and programmed accordingly.
CAPPUCCING	The respective beverage is dispensed by pressing a beverage field.
	The beverage fields can be named and assigned as desired by a service technician.
Quick information	The "Quickinfo" window at the top of the display can be activated by the operator or service technician via the "Service menu".
C 101 2°C S 129 5°C (0) 495 SELECT YO CSPRESSO COFFEE	The menu provides information about the current boiler temperatures of coffee hot water [C] and steam [S].
Beverage page	The display, e.g. B [1/2] at the top right of the display provides information about the available beverage pages.
Additional beverage pages	The [More] field brings you to the next beverage pages.
MORL	
Back	The [<] field takes you back to the previous page in the beverage selection.
1	
Exit	The [X] field closes the window for beverage options without adopting a setting.
Barista button HOT WATER Steel	The [Barista] field can be used to increase or decrease the coffee strength.
Extra shot of espresso	The [NO-YES] field for selecting the "Extra shot of espresso" beverage option activates/deactivates this option.
NO YES	(Available with "MiniCoffeeKitchen" user interface)
Roast	The [EDIT] field opens the window for a selection of 2 possible coffee roasts.
Bland: Intense black EDIT	(Available with "MiniCoffeeKitchen" user interface)
Confirm roast	The [SELECT] field confirms the coffee roast selection.

Symbol	Description				
Payment ToTAL € 2.20	If a payment system is activated, the instruction for paying displayed amount appears before beverage dispensing.				
1))	The following payment systems are possible: EPS (electronic payment systems such as card reader, batch system) Coin testers/				
	Changers or bill readers				
Beverage size CAPPUCCINO REGULAR LARGE	The [SMALL/REGULAR/LARGE] field makes it possible to switch from standard beverage size "REGULAR" to beverage size "LARGE" with more volume.				
Starting dispensing	(Available with "MiniCoffeeKitchen" user interface) The [START] field starts beverage dispensing with or without				
Starting disperioning	the previously selected beverage options.				
BREW NOW	(Available with "MiniCoffeeKitchen" user interface)				
Time bar dispensing	The "time bar" shown in the display provides information about the status during beverage dispensing.				
Cancel	Questions can generally be cancelled with the [X] field.				
Confirming	Questions can generally be cancelled with the [[] field.				
Service menu	Entrance to the Service menu				
	 Press the [Service menu] field or the press the button on the right side of the machine for ±6 sec. The window for the "Service menu" opens. 				
	The following functions are available for direct selection in the "Service menu":				
	Switch the milk system on/off (only with an active milk system)				
	 Quick info window for switch-on/switch-off. Activate "Standby" mode.				
	Open the service door.				
	All other functions are assigned to a user profile, which can be activated by a service technician.				
	See "Programming" for more information on the available profiles.				
"Service menu" info	The [Info] box is only displayed if there is an error or if it is necessary for the user or a service technician to intervene to ensure the machine remains ready for operation.				
	See "Troubleshooting"				

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Symbol	Description
"Service menu" QRC	The [QRC] field opens an information window for the machine data.
Exit "Service menu"	The [X] field closes the "Service menu" and takes you back to the beverage selection page.
Cancel (cleaning)	The following control fields are available in the "Expert mode cleaning" window: • The [Cancel] field cancels the pending cleaning. However,
	the cleaning process remains pending.
Stop (cleaning)	The [Stop] field interrupts "Expert mode" and starts the standard wizard.
	The [Open] field enables the service door to be unlocked during the preparations for cleaning.
Open (cleaning)	In order for expert mode cleaning to start, the parameter "Expert mode cleaning" must be activated in the "System" – "Cleaning" menu.
	mena.

Multi-function button on right side of the user panel:



Opening the machine's service door

Option 1: With "Service menu"



▶ Press the [Service menu] field on the touch screen (see figure).☑ The Service menu appears.



- ▶ Press the [Open service door] field.
 - ☑ The service door opens.

Option 2: With button on the right of the user panel

Machine is ready for operation:

- $\blacktriangleright\,$ Briefly press the button (on the right of the user panel).
 - \square The service door opens.

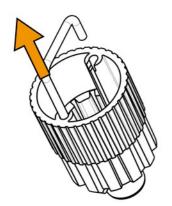
Machine is in "Standby" mode:

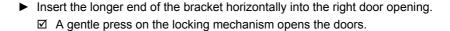
- ▶ Briefly press the button (on the right of the user panel).
 - ☑ The machine switches to readiness for operation.
- ▶ Briefly press the button (on the right of the user panel) again.

Option 3: With the Multi-tool

Machine is switched off:

► Remove bracket from Multi-tool.







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Marked operating elements

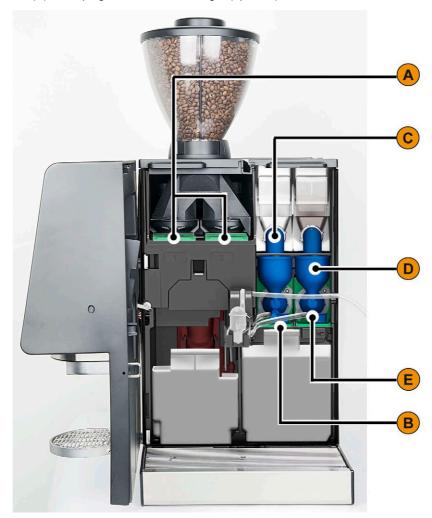
Operable machine elements are highlighted in colour.

Green operating elements:

- (A) Bean hopper slider including locking mechanism left/right (optional).
- (B) Powder system outlet closing device (optional)

Blue machine elements can be adjusted for filling and removed for cleaning:

- (C) Powder outlet bracket left/right (optional).
- (D) Mixing cup left/right (optional)
- (E) Hose plug-in connection left/right (optional)



Filling and connecting



When refilling, take special care that the max. filling level is selected so that the content does not touch the container cover.

Coffee beans



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





Filling the hopper with foreign objects can lead to clogging or destruction of the grind-

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



Ensure that the refilled beans do not touch the closed bean hopper lid.



The bean hopper is closed with locking mechanism [A] and can then be removed from the machine



Option 1: Bean hopper without partition wall

- ▶ Remove the cover from the bean hopper.
- ▶ Pour in coffee beans (max. 1300 g).
- ► Reattach the bean hopper cover.



Option 2: Large bean hopper

- Remove the cover from the bean hopper.
- ▶ Pour in coffee beans with roast 1, e.g. "Coffee créma" on the left (max. 800 g).
- ▶ Pour in coffee beans with roast 2, e.g. "Espresso" on the right (max. 500 g).
- Reattach the bean hopper cover.

Water

▶ Open the machine service door.



See "Main window touch screen" - "Open service door".

Option 1: Internal/external drinking water tank

- ▶ Rinse out the drinking water tank thoroughly with fresh water every day.
- Clean the cover of the drinking water tank with fresh water.
- ► Fill the drinking water tank with fresh drinking water before using it.
- ► Reinsert the drinking water tank.



Ensure that the filled drinking water does not touch the closed drinking water tank cover.

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Option 2: Mains water supply



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.

Coffee machine powder (Option)





Danger of injury on the rotating dosing screws! Never reach into the powder container while the device is switched on.





Danger of blockage due to filling with impermissible powder! Never fill anything other than powder for automatic operation into the powder container.



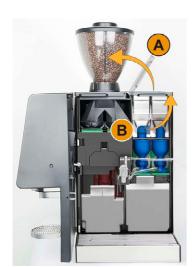
Ensure that the filled choco powder does not touch the closed powder container lid.

▶ Open the machine service door.



See "Main window touch screen" - "Open service door".

- ▶ Open the machine cover [A] by lifting up.
- ► Turn the powder outlet elbow [B] up by 90°.
 - ☑ This prevents powder spilling into the machine.
- ▶ Raise the powder container slightly at the front and take it out of the machine.



Option 1: Choco

- ▶ Pour in the desired choco powder.
 - ☑ Small powder container max. 300 g.
 - ☑ Large powder container max. 600 g.
- ► Reinsert the powder container into the machine.
- ► Turn the powder outlet elbow back to the outlet position.

Option 2: Topping

- ▶ Pour in the desired milk powder.
 - ☑ Small powder container max. 300 g.
 - ☑ Large powder container max. 600 g.
- ► Reinsert the powder container into the machine.
- ▶ Turn the powder outlet elbow back to the outlet position.
- ► Close the machine cover again.

► Close the service door.

Milk (Option)

An NcFoamer set (disposable foamer head, complete) consists of the following parts:

- · Disposable foamer head
- · Milk hose
- · Milk nozzle (restrictor) with colour coding



The milk temperature reached during beverage dispensing is set using different NcFoamer sets. The steam boiler target temperature is 130 °C. This should be set accordingly by the service technician.

Depending on the machine equipment and the steam nozzle, the NcFoamer Sets given below are available:

	are available.					
Overview of NcFoamer colour code		Steam boiler power				
		JDE BO 1.35 kW	JDE BO Plus 3 kW			
	Steam nozzle number code	1	3			
	Steam nozzle tip diameter	Ø 1.38 mm	Ø 2.32 mm			
	Steam nozzle article number	072611	073084			
Equipment for standard milk temperat	ure (*)					
	NcFoamer set standard 575 mm	Orange	Blue			
	(spare parts package w/ 50 pcs.)	Ø 1.15 mm 072708	Ø 1.45 mm 072469			
	NcFoamer Set UC*** 750 mm	Orange	Blue			
	(spare parts package w/ 50 pcs.)	Ø 1.15 mm 073014	Ø 1.45 mm 072468			
Equipment for increased milk temperature (**)						
	NcFoamer set standard 575 mm	Yellow	Violet			
	(spare parts package w/ 50 pcs.)	Ø 1.05 mm 072998	Ø 1.35 mm 072467			
	NcFoamer Set UC*** 750 mm	Yellow	Violet			
	(spare parts package w/ 50 pcs.)	Ø 1.05 mm 073047	Ø 1.35 mm 072466			
(*) Temperature information with ca. 5	°C pre-chilled milk					

- (*) Temperature information with ca. 5°C pre-chilled milk.
- Milk dispensing temperature of ca. 49°C
- External milk foam temperature of ca. 59°C
- (**) Temperature information with ca. 5°C pre-chilled milk.
- Milk dispensing temperature of ca. 59°C
- External milk foam temperature of ca. 69°C
- (***) UC = Under-counter milk
- ► Open the service door



See "Main window touch screen" - "Open service door".

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▶ Remove the milk hose from the guide.



- ▶ Swivel the NcFoamer 90° to the right and remove forwards away from the steam nozzle.
- ▶ Position the new NcFoamer on the steam nozzle. Note the colour code (see description above).
- ▶ Swivel the new NcFoamer 90° to the left and engage in position.
- ▶ Guide the milk hose with milk nozzle to the right out of the machine.
- ► Close the service door

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. ☑ The hose end must be in contact with the container floor.



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

Option 2: Side cooling unit



Check the cooling temperature of 3 – 5°C regularly.



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



- ▶ Open the door.
- Check the cooling temperature shown on the display.
- Remove and rinse the milk container.
- ▶ Pour in fresh, pre-cooled milk (3 5°C).





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

- ▶ 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: Under-machine cooling unit

- ▶ Open the door.
- ▶ Remove and rinse the milk container.
- ► Pour in fresh, pre-cooled milk (3 5°C).

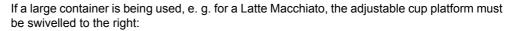


Ensure that the filled milk does not touch the closed milk container lid.

- ▶ 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.

Dispensing

Adjusting the cup platform



- Grasp the cup platform, swivel it to the right.
- Place the cup on the cup platform on the drip tray.



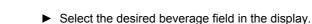
Beverages



The [<] field at the top left of the display leads back to the beverage selection page without making a selecting or dispensing.



The dispensing steps for the selected beverage are dependent on the selected user interface.



- ☑ The beverage is dispensed immediately (with Barista ONE user interface).
- ☑ The progress of the beverage dispensing is shown on the display.



☑ The window for selecting beverage options opens (with MiniCoffeeKitchen user interface).

Option 1: Beverage with options

- ► Select beverage options such as [SMALL/REGULAR/LARGE] or [Extra shot of Espresso].
 - ☑ The extra price for the additional option is directly displayed.



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Option 2: Selecting coffee roast

- ► Select the [EDIT] field.
 - $\ oxdot$ The window for selecting the coffee roast opens.
- ► Select the desired roast by tapping on it.
- ► Confirm the selection with the [SELECT] field.
 - ☑ The window closes and returns to the beverage options.
- ▶ Start the beverage dispensing process using the [START] field.

Option 3: Payment (with active payment system)

- ▶ Pay for beverage in line with the available options.
 - ☑ The window for selecting the coffee roast opens.
 - ☑ The window for selecting the cup size opens.

Option 4: Cup size selection

▶ Select the cup sizes shown in the display, e.g. (S) and place cup under the beverage outlet.







- Select the [OK] field.
 - ☑ The selected beverage, possibly set with an additional option, is dispensed.
 - ☑ The progress of the beverage dispensing is shown on the display.
- ▶ Remove the cup after the beverage has been dispensed.

Double beverages (Option)



Dispensing double beverages is possible for pure coffee beverages.

When dispensing double beverages, position the cups or glasses properly under the beverage outlet:

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- ▶ Move the cup platform into place.
- ▶ Place the cups on the platform and position them under the beverage outlet.
- Press the desired beverage field.
 - $\ \ \, \square$ The progress of the beverage dispensing is shown on the display.
- Remove the cups after the beverage is dispensed.

Hot water

Option 1: Hot water via a beverage field

CAUTION! Hot fluid! ▶ Place a cup/glass under the beverage outlet.



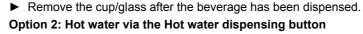
▶ Press [Hot water] beverage field (see figure).



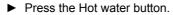
 $\ oxdot$ The progress of the beverage dispensing is shown on the display.



See also "Operation" - "Dispensing" - "Beverages".







☑ Hot water is dispensed in the configured quantity.





The dispensing mode for the Hot water button can be configured in different ways by a service technician.

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See "Operation" - "Dispensing options" - "Dispensing mode".

Hot milk (Option)

CAUTION! Hot fluid!



▶ Place a cup under the beverage outlet.



- ▶ Press the [Hot Milk] beverage field (see figure).☑ The progress of the beverage dispensing is shown on the display.
- ▶ Remove the cup after the beverage has been dispensed.



See "Dispensing options" - "Stop dispensing" to stop dispensing of the beverage and "Dispensing options" - "Dispensing mode" chapter for possible dispensing variants.

Milk foam (Option)

CAUTION! Hot fluid!



▶ Place a cup under the beverage outlet.



- Press [Milk foam] beverage field (see figure).
 The progress of the beverage dispensing is shown on the display.
- ▶ Remove the cup after the beverage has been dispensed.



See "Dispensing options" - "Stop dispensing" to stop dispensing of the beverage and "Dispensing options" - "Dispensing mode" chapter for possible dispensing variants.

Dispensing options



Dispensing options are not available in the standard self-service interface. The functions listed in the following are active in the "Operated" mode.

Dispensing mode

The mode for the hot water dispensing button can be configured.

The following dispensing modes are available in accordance with the beverage configuration:

- Dosed = dispensing carried out in pre-defined quantity after the hot water dispensing button is pressed.
- Press and hold = dispensing carried out while the hot water dispensing button is pressed.
- Start/stop = dispensing carried out by tapping the hot water dispensing button. Dispensing stops when the button is pressed again.

Emptying

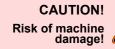
Grounds container

▶ Open the machine service door.

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See "Main window touch screen" - "Open service door".





High temperatures may lead to damage. Never clean the grounds container in the dishwasher.

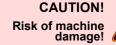


Option 1: Grounds container

The grounds container must be emptied as soon as the instruction to do so appears on the display, however, at least once daily.

- ► Remove and empty the grounds container.
 - ☑ Dispensing of beverages is disabled while the grounds container is not in place.
- ► Reinsert the grounds container.
- Close the service door.

Option 2: Under-counter grounds disposal (option)





The optional under-counter grounds disposal is not monitored. There is a risk of over-filling.

Check the container more frequently depending on machine usage.



▶ Check the container under the under-counter grounds disposal and empty if necessary.

Waste water



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



The message "Empty drip tray" appears on the display.

- ▶ Pull out the drip tray.
- ► Empty the drip tray, rinse it and reinsert it.

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Waste water tank (Option)

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.

Standby

The coffee machine can be switched to standby mode to save power:



- ▶ Press the [Service menu] field on the touch screen (see figure).☑ The "Service menu" appears.
- Press the [Standby] field.
- ☑ The machine switches to standby.

To take the coffee machine out of standby:

- ▶ Press the switch on the right side of the user panel.
 - ☑ An automatic system rinsing cycle is run after the steam boiler has reached its operating temperature (only with the "Start-up flush" system parameter active).
 - ☑ The main screen appears and the machine is ready for use.

Switching off

End of operation

- ► Clean the machine.
- ▶ Empty the drinking water container, clean it and reinstall it.
- ▶ Empty the grounds container, clean it and reinstall it.

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After automatic cleaning, the machine can be shut down directly from the cleaning programme.

➤ Switch off the coffee machine using the main switch at the lower back of the machine.
☐ The machine is de-energised.



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

Lengthy downtimes (more than 1 week)



During extended periods of disuse, such as during company holidays, the coffee machine and the associated accessories must be taken out of service.

► Carry out all the steps described in the "End of operation" chapter.

If the machine will be exposed to freezing subzero temperatures, the boiler must be drained beforehand:

▶ Please contact your service partner.



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



Clean before putting the machine back into operation.

Cleaning www.schaerer.com

Cleaning

Cleaning intervals

Clea	aning	inte	rvals				
Every 2 days, display-led, automatic	Every 2 days, manual	Every time before filling	Before switching on	Before switching off	As instructed	As needed	
Auto	omat	ic cle	anin	g			
Х					Х		Automatic machine cleaning
			Х				Switch on rinsing
				Х			Switch-off rinsing
	nual	clean	ing				
Х					Х		Empty and clean the grounds container
		Х					Rinse out drinking water tank
Х					Х	Х	Empty and clean the drip tray
						Х	Clean bean hoppers
						Х	Rinse brewing unit
	Х					Х	Clean touch screen
	Х .			. ,		Х	Clean outer surfaces of coffee machine
Opt		acce	essor	ies/o	ption	IS	Data N. F. and Changella Const. Land.
	Х						Replace NcFoamer (disposable foamer head, complete)
						Х	Rinse powder container
Х	Х						Rinse mixing cup
	Х						Rinse milk container (Always clean together with an NcFoamer change)
	Χ						Clean interior of side cooling unit
	Χ					Х	Clean outer surfaces of side cooling unit
						Х	Rinse waste water tank
Leg	end						
Every 2nd day Display-led, automatic			-led,	au-	Execution every 2nd day Display-led automatic machine cleaning with manual cleaning steps		
Every 2 days, manual				nual			Execution every 2nd day Manual machine cleaning without display message
Every time before filling: Every time the c				filling	g:		Every time the container is refilled
Before switching off:				off:			Automatically when the coffee machine is switched off
As instructed:							An instruction appears on the display.
As needed:							If cleaning is obviously necessary



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Failure to observe the recommended cleaning intervals and instructions will lead to the build-up of milk and bacteria. This creates a danger of contamination of the milk and NcFoamer.

The machine cleaning process should be carried out at least once every 2 days.

Automatic switch on/off rinsing

CAUTION! Hot fluid!



The switch on/off rinsing must be activated by the service technician. If this is the case, the switch on rinsing is run automatically after the machine is switched on, and the switch off rinsing before the machine is switched off.



The automatic switch on/off rinsing takes ca. 20 sec.

Every time before filling

Internal drinking water tank

CAUTION! User at risk!



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

Clean the drinking water tank every time before filling it.

CAUTION! Risk of machine damage!



High temperatures may lead to damage. Never clean the drinking water tank in the dishwasher.

- ► Thoroughly rinse the drinking water tank with fresh water several times.
- ▶ Clean the cover of the drinking water tank thoroughly with fresh water.
- Wipe with a clean, unused cloth.
- ► Fill the drinking water tank back up with fresh water.
- ► Fit the drinking water tank into the machine.



See "Cleaning" – "Weekly manual cleaning", for machines with an optional mains water supply.

Initiating automatic machine cleaning

The cleaning programme is started from the touch screen. On the touch screen, the user is guided through all required actions.



Option 1: In "Operated" mode

- ► Press the [Service menu] field on the touch screen (see figure).
 - ☑ The "Service menu" appears.

Option 2: In self-service mode

- ► Press button the right side <6 sec.
 - ☑ The "Service menu" appears.



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▶ Press the [Start cleaning] field (see figure).

- Cleaning begins.
- ☑ Guidance is provided for all necessary steps on the touch screen.



- Briefly press the button on the right of the user panel. ☑ The service door opens.
- Select the field in the display to continue.

Automatic cleaning every 2 days

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.

For this reason, clean the grounds container after the instruction or once every 2 days.

CAUTION! Risk of machine damage! High temperatures may lead to damage.

Never clean the grounds container in the dishwasher.

- ▶ Remove the grounds container from the machine and empty it.
- Thoroughly clean the grounds container with water.
- Clean the machine chamber with a brush.
- ► Reinsert the grounds container.



Wait for the cleaning programme instruction on the display to insert the grounds container into the machine.

Drip tray



High temperatures may lead to damage. Never clean the drip tray in the dishwasher. www.schaerer.com Cleaning

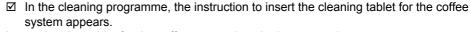


- ▶ Remove the drip tray from the machine.
- ► Thoroughly clean the drip tray and the drip grid with water and a household cleaning product.
- Rinse with clear water and dry with a clean cloth.
- ► Reinsert the drip tray.

Coffee system cleaning tablets



The cleaning tablet for the coffee system is inserted during the cleaning programme.



- Insert cleaning tablet for the coffee system into the insert opening.
- Select the field in the cleaning programme.
- Observe further display messages in the cleaning programme.



Changing the NcFoamer (Option)



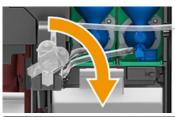
See also "Safety notes" - "Hygiene rules" - "Milk" and in the "Operation" chapter — "Filling and connecting" — "Milk" for more information on the NcFoamer.

The "NcFoamer" is a disposable set made up of a foamer head, milk hose and milk nozzle.

▶ Open the machine service door, if not already open.



See "Main window touch screen" - "Open service door".





- ➤ Turn the disposable foamer head 90° clockwise (1) and pull forward (2) together with the hose and milk nozzle.
 - ☑ In the cleaning programme, there is an instruction to remove the mixing cup (if installed in the powder system).
 - $\ \ \, \square$ The instruction to insert the new NcFoamers is shown on the display.

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The date for the next replacement of the NcFoamer is displayed in this cleaning step.





There is a danger of contamination of the milk and NcFoamer due to milk deposits and bacteria. A used NcFoamer cannot be adequately cleaned.

Always use an unused NcFoamer straight out of the packaging.

- ▶ Insert the new NcFoamer with the milk hose and milk nozzle.
- ► Turn the disposable foamer head 90° to the left until it engages.
 - ☑ A prompt as to whether or not the NcFoamer has been replaced appears on the display during the cleaning programme.
- ► Confirm the question with , provided that an unused NcFoamer that has only just been removed from its packaging has been inserted.
 - $\ensuremath{\square}$ Follow the instruction on the display during the cleaning programme.





Powder system mixing bowl (Option)

CAUTION!
Risk of machine damage!

High temperatures may lead to damage.

Do not clean components of the powder system in the dishwater.



See also "Safety notes" - "Hygiene rules" - "Automatic machine powder/instant powder (option)".



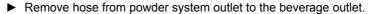
If there is no powder system installed, the following cleaning steps are left out of the cleaning programme.



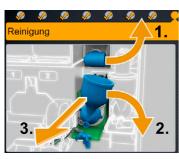
Option 1: Left powder system

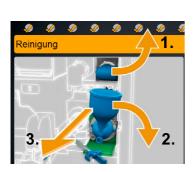
- ▶ Remove hose from powder system outlet to the beverage outlet.
- Turn the powder outlet elbow (1) 90° upwards.
- ▶ Pull out the powder system outlet with green closing device.
- ► Turn the mixing cup (2) 90° to the right and pull forwards.
- Disassemble and clean the mixing cup.
- Select the field in the cleaning programme.
- Reattach the mixing cup in reverse order.
- Select the in the cleaning programme.





- Turn the powder outlet elbow (1) 90° upwards.
- Pull out the powder system outlet with green slider device.
- ► Turn the mixing cup (2) 90° to the right and pull forwards.
- Disassemble and clean the mixing cup.
- Select the field in the cleaning programme.
- ► Reattach the mixing cup in reverse order.
- Select the field in the cleaning programme.





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Manual cleaning every 2 days

Milk container (Option)

CAUTION! User at risk!



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

Clean milk container and cover together with every NcFoamer change.

CAUTION! Risk of machine damage!



High temperatures may lead to damage.

Never clean the milk container in the dishwasher.

- ▶ Dispose of the remaining milk from the milk container.
- ▶ Clean the milk container with fresh water and commercially available cleaning products.
- Clean milk container with a clean, unused cloth.
- ▶ Place the milk container back into the cooling unit.

Internal drinking water tank with mains water supply

CAUTION! User at risk!



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

Also clean the drinking water tank with a mains water supply on a weekly basis.

CAUTION! Risk of machine damage!



High temperatures may lead to damage.

Never clean the drinking water tank in the dishwasher.

- ► Thoroughly rinse the drinking water tank with fresh water several times.
- ► Clean the cover of the drinking water tank thoroughly with fresh water.
- ▶ Wipe with a clean, unused cloth.
- ▶ Fit the fresh water tank in the machine.

Interior of the side cooling unit (Option)

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 weekly.

- ▶ 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".

Touch screen

CAUTION! Risk of machine damage!



The touch screen can suffer damage from improper handling.

Never press the touch screen using force, strong pressure or pointed objects. Do not use abrasive cleaning products. Never spray glass cleaning products directly onto the touch screen.



Option 1: In "Operated" mode

▶ Press the [Service menu] field on the touch screen (see figure).☑ The "Service menu" appears.

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Option 2: In self-service mode

- ► Button on right side ±6 sec.
 - ☑ The "Service menu" appears.
- ► Select the [Touch cleaning] field.
 - $\ \ \, \square$ The display remains insensitive to touch for 30 sec.
- Spray a commercially available glass cleaner onto a paper towel.
- Clean the touch screen.
- ▶ If necessary, select the [Touch cleaning] field again.
 - ☑ After 30 sec, the display is again ready for use.

Outer surfaces of the coffee machine



Option 1: In "Operated" mode

▶ Press the [Service menu] field on the touch screen (see figure).☑ The "Service menu" appears.

Option 2: In self-service mode

- ▶ Button on right side ±6 sec.
 - ☑ The "Service menu" appears.
- ► Press the [Standby] field.
 - $\ \ \, \square$ The machine switches to standby.
- ▶ Clean the outer surfaces of the coffee machine with a moist cloth.
- ▶ Briefly press the button on the right side.
 - ☑ The main screen appears and the machine is ready for use.

As needed

Brewing unit





Coffee residue in the brewing unit can quickly lead to the formation of mould. The spread of mould spores in the machine results in the danger of contamination of the coffee.

Check the brewing unit occasionally, depending on the operating times, and clean as described when required.

CAUTION! Risk of machine damage!



High temperatures may lead to damage. Never clean the brewing unit in the dishwasher.

► Open the service door



See "Main window touch screen" - "Open service door".

- ► Remove the grounds container.
- Remove the drip tray.

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▶ Pull the locking mechanism (A) forwards and hold.☑ This unlocks the brewing unit.

▶ Pull the unlocked brewing unit down while swinging it forward out of the machine.



► Turn the spindle of the brewing unit all the way anti-clockwise using the multi-tool.
 ☑ The scraper (B) is in the scraper position.



- ▶ Remove any ground coffee residue with a dry brush.
- ▶ To clean, slightly lift the drop-in slide (C) away from the brewing sieve.
- ▶ Clean the brewing sieve under warm running water if necessary.
- Clean the brewing unit under warm running water if necessary.
- Allow the brewing unit to dry fully.
- ▶ Lightly grease the O-ring on the brewing sieve with Molykote 111 (33.2179.9000).
- Turn the spindle clockwise to the stop using the multi-tool.
- ► Turn the spindle a 1/4 turn back anti-clockwise from the stop.
- Insert the brewing unit into the machine in reverse order.
- ► Reinsert the grounds container.
- Reinsert the drip tray.

Bean hopper



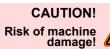
Old coffee bean oil in the bean hopper can have a negative impact on the coffee quality.

Never reach into the bean hopper while the coffee machine is switched on.





Rotating grinding gauges in the grinder are an injury hazard.



High temperatures may lead to damage. Never clean the bean hopper in the dishwasher.

- ► Clean the bean hopper with a moist cloth.
- ► Clean the bean hopper lid with a moist cloth
- ▶ Dry the cover and hopper with a clean cloth.

Powder container (Option)



Never clean the powder containers in a dishwasher. High temperatures may lead to damage.

Clean the powder containers only with a damp cloth.

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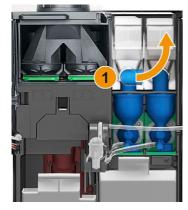
See also "Safety notes" - "Hygiene rules" - "Automatic machine powder/instant powder (option)".

▶ Open the machine service door.

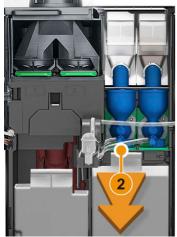


See "Main window touch screen" - "Open service door".

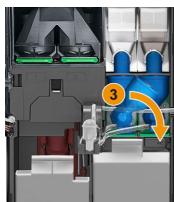
- ▶ Open the machine lid.
- ► Turn the powder outlet elbow (1) 90° upwards.
- Remove the hoses to the powder containers.

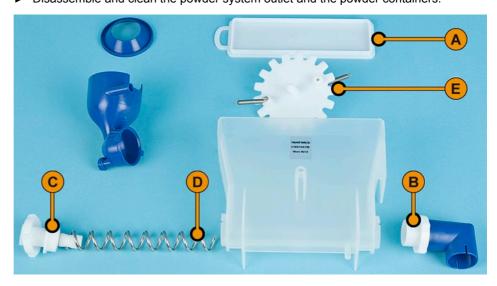


- ▶ Remove hose (2) from powder system outlet to the beverage outlet.
- ▶ Pull out the powder system outlet with green slider device.



- ➤ Turn the mixing cup (3) 90° to the right and pull forwards.
- ▶ Raise the powder container slightly at the front and lift it out.
- ▶ Disassemble and clean the powder system outlet and the powder containers.



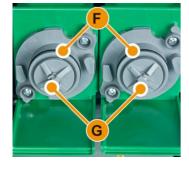


- ▶ Lift off cover (A) and drain the powder container.
- Release the right cap nut (B) and remove with the powder outlet elbow.

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▶ Release the left cap nut (C) and pull out together with the dosing screw (D).

- ► Carefully press the two side walls slightly apart and pull the loosening wheel (E) out of the quides.
- Carefully clean all of the parts with fresh water.
- Clean O-rings (F) and the impeller (G) with a moist cloth.
- Let the parts dry fully.
- Reassemble the powder container and the powder system outlet in reverse order and insert in the machine.
- Close the machine lid.
- Close the service door again.



Waste water tank (Option)

Rinse the waste water tank out thoroughly with hot water as required.

- ▶ Switch off the machine.
- Remove the waste water hose from the waste water tank.
- Drain the waste water tank and clean with fresh water and commercially available cleaning products.
- ▶ Insert the waste water hose back into the waste water tank.
- Switch the machine back to 'ready for use'.



Mandatory cleaning

Mandatory cleaning is in direct correlation with the time entered for the cleaning instructions. Mandatory cleaning is carried out 2 hours after cleaning instructions shown on the display. 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 configured by the service technician.

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.

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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 every two days after beverage dispensing 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.

Cleaning products



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



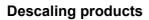
Before using a cleaning product, read the information on the packaging and the safety data sheet carefully. If a safety data sheet is not available, please request it from your sales partner.

Coffeepure tabs



Information					
Application	Coffee system cleaning				
Purpose of cleaning	Removal of grease residue in the coffee system				
Application interval	Every other day				

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Information				
Application	Descaling the boiler and line system			
Purpose of cleaning	Removal of lime scale deposits in the coffee machine			
Application interval	As instructed by the coffee machine			

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Service and maintenance

Descaling

Have the following items ready before descaling the machine:

- 2 bottles (0.75 I) of liquid decalcifier
- Container for placing under the machine (5 I)

The descaling procedure is performed in three stages and is display-guided.

- Cooling
- Descaling
- Rinsing
- ► Select the [Caretaker] service menu (PIN entry).
- ➤ Select the [Settings] menu.
- ▶ Select the [Start descaling] field in the [Service] menu.
 - ☑ The next steps in the descaling procedure are shown on the display.
 - ☑ The descaling process can be started or cancelled here.

Water filter (Option)

Installing the water filter for the internal drinking water tank (Option)



The supplied water filter is only suitable for installation in the machine's internal drinking water tank.

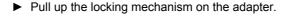
Prior to installation of the supplied water filter in the internal drinking water tank, a water test must be performed to determine whether use of the water filter is necessary. In addition, the water value must be entered when the machine is first put into service.



See "Determining the water hardness" in this chapter.



- ▶ Remove the water outlet screen installed in the water tank.
- Open the water filter box.
 - ☑ The water filter adapter is located on top, and the filter cartridge is packaged separately underneath it.







▶ Attach the adapter to the water outlet connector from above and push down the locking mechanism.

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▶ Unpack the filter cartridge and place it in water (for ca. 15 min).
 ☑ Tiny bubbles will rise from the cartridge.

▶ When there are no more bubbles, remove the filter cartridge from the water.



► Attach the filter cartridge to the adapter.

Changing the water filter for the internal drinking water tank (Option)

An instruction appears on the display when the filter needs to be replaced.



► Take the old filter cartridge out of the adapter.



- Unpack the new filter cartridge and place it in water (for ca. 15 min).
 Tiny bubbles will rise from the cartridge.
- ▶ When there are no more bubbles, remove the filter cartridge from the water and attach it to the adapter.
- ▶ Slide the drinking water tank back into the machine.



- Replacement cartridges can be ordered from Schaerer AG. The required article number is contained in the machine-specific spare parts catalogue.
- Exchange must be done using the display-guided instructions. The machine otherwise does not recognise the exchange.
- For correct calculation of the descaling 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 also "Caretaker Profile" "System" "Maintenance" for the setting of the water hardness, which is performed by the service technician.
- See "Caretaker Profile" "System" "Water supply source" for a setting with water filter.

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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).

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.

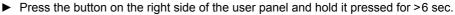
▶ Notify your service partner that maintenance is due.

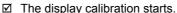


Failure to perform required maintenance in due time may lead to wear and mean that reliable operation is no longer assured.

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

Calibration display





☑ The warning "Do not touch display until white screen with cross-hairs appears" is displayed and the machine carries out a restart.





- ☑ After the restart, the white screen with the cross-hairs appears.
- ► Touch the cross-hairs that appear successively on the screen (9 x) with your finger.
- At the end (when no more cross-hairs are displayed), touch the screen with your finger again.
 - ☑ Calibration has been completed.
 - ☑ The machine switches to readiness for operation.

Service routine

The due date of a service routine depends on the number of cycles (number of beverages dispensed) or the time period (months) over which the machine has been operated.

JDE BO service routine				
	Number of cycles	Months		
Service 1	15,000	12		
Service 2	30,000	24		

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Programming

Overview

The following predefined profiles for the end user are available in the "Service menu".

- · Caretaker profile
- · Bookkeeper profile
- · Bookkeeper reduced profile
- Operator profile
- · Chef de Service profile
- Quality manager profile

The profiles can be enabled by a service technician. He/She also assigns an access code for each profile.



The profiles and functions are subsequently described in this chapter.

Navigation

Symbol	Description
	Touching this field opens the "Service menu".
	Stop / cancel a procedure
	Confirm
	Continue / start
	Back to previous window
	Save settings that have been made

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Symbol	Description
	Delete / set a value to zero
	Cancel beverage dispensing
	Touching this field opens the control dial:
	➤ Set the desired value by moving the dial up and down.
	► Confirm the value you have set by pressing the tick.
	Enables / disables a function
	On / Off
	Opens a selection field.
07.08.2015	Arrow fields for setting values.
	➤ Select value.
	Set the required value to the selected value using the up or down arrow fields.
	Opens the folder for the Media Data. Upload images or icons to the beverage fields from USB stick.
×	Closes the window for selecting media files.

USB port

► Open the machine service door.



See "Operation" – "Touch screen main window" - "Open service door".



A software update should only be run by a service partner or qualified service staff.

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In the JDE BO, software updates or backups are performed using a USB stick. The USB port is located on the inside of the service door.

- Open the left cover on the service door, see figure.
 - ☑ The USB interface is now visible.
- Insert formatted and correctly configured USB stick.
- Close service doors and run software update.

Caretaker profile

The "caretaker" is the first contact person if there is a technical malfunction. He or she possesses solid technical knowledge and works regularly with the coffee machine.

The following main menus are contained in the "Service Menu" [Settings] in the [Caretaker] profile:

- System
- · Configuration
- · Service
- Info

The following functions are available in the "Service Menu" in the [Caretaker] profile:

- · Switch the milk system on/off
- · Switch on self-service mode
- Switch on quick info. (current boiler temperatures at the bottom right of the display)
- Settings
- Standby
- · Open service door



The contents of the main menus are subsequently described in this chapter.

System

"Maintenance" menu item					
Display text	Description	Setting range	Notes		
Last service	After a service is performed, the current date must be set in this parameter: ▶ Press the date field. ☑ The current date is set automatically. ▶ Save the setting. ☑ The service instruction disappears from the display. ☑ The service counter is reset.	Date of the last service / current date	_		

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"Water supply" menu item					
Display text	Description	Setting range	Notes		
Water supply	Aquachange switching	Mains water supply /			
	Option 1: Switch from drinking water tank to mains water supply.	Int. drinking wa- ter tank			
	Open service door and remove drinking water tank.				
	 Screw in Aquachange screw with a screwdriver (size 3). 				
	Put the drinking water tank back in place and shut the service door.		Aquachange screw		
	Set the water supply source to "Fixed main water supply".				
	Option 2: Switch from fixed mains water supply to drinking water tank.				
	Open service door and remove drinking water tank.				
	Unscrew in Aquachange screw with a screwdriver (size 3).				
	Put the drinking water tank back in place and shut the service door.				
	Set the water supply source to "Int. drink- ing water tank".				
Waste water system	This is specified for the first time during commissioning.	Waste water outlet /	(option)		
	 If the value changes, this parameter needs to be adjusted. 	oddot?	The machine requires an optional waste water outlet.		
	► If the unit is equipped with a waste water outlet or a waste water tank, remove the	Waste water	(option)		
	closing plug in the drip tray.	tank /	The machine requires an optional external waste		
	See also "Options and optional accessories"		water tank.		
		Drip tray	(standard)		
			The drip tray is closed with a closing plug.		
Water filter	Defines the water filter used.	No filter	The system differentiates		
	The selected water connection determines the selection options for the water filter.	External filter Internal filter	between the mains water supply and a drinking water tank.		

"Grinder/brewing unit" menu item					
Display text	Description	Setting range	Notes		
Name of left bean hopper	You can create any name you like.	A – Z	Recommended setting:		
News of sight has a because	A max. of 24 characters can be entered.	0 – 9	Name by coffee type, e.g. Espresso, Decaf, etc.		
Name of right bean hopper	If one of the bean hoppers is empty, both the side (left/right) and the assigned name are displayed in the message indicating it is empty.				
DECAF source	This parameter specifies which grinder is to	None	-		
	be accessed for a DECAF beverage (select by pressing the [DECAF] pre-selection field +	Left grinder			
	any beverage field).	Right grinder			

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"Grinder/brewing unit" menu item					
Display text	Description	Setting range	Notes		
Change over grinder if the other grinder is empty or blocked	An activated parameter changes over automatically to the second grinder with an empty message or blockage. Switching over to the second grinder means that this grinder remains assigned to the beverage recipe until the next empty message or blockage.	Inactive / Active	This parameter is automatically activated if the [Same] setting has been selected for the "Coffee mix in both bean hoppers" parameter.		
Grounds container capacity	Here you can set how many coffee cakes the grounds container can contain before the instruction to empty the grounds container appears. ▶ Press the Settings field. ☑ The scroll wheel appears. ▶ Set the desired value. ▶ Confirm by pressing the checkmark.	10 – 40 (internal grounds container) 10 – 175 (grounds container under counter)	Recommended setting: Internal grounds container: 36 Base with grounds container: 100 Under-counter grounds container: up to 175		
Grounds container position	Selection of the grounds container used.	Under-counter grounds contai- ner Internal grounds contai- ner	In order to be able to set more than 40 coffee cakes when using a base with a grounds drawer, you have to select "Under-counter grounds container".		

"Cleaning" menu item					
Display text	Description	Setting range	Notes		
Profi mode cleaning	Starts the profi cleaning automatically when cleaning is initiated. All preparation steps are listed. These steps can still be acknowledged as an option. After all steps have been carried out and the service doors are closed again, the cleaning can be started via the active	Inactive/Active	If cleaning is cancelled with the cleaning instructions remain. Cleaning operations can also be cancelled by switching off or due to a power failure. A cancelled cleaning operation can be completed by restarting the cleaning.		

"Hardware configuration"					
Display text	Description	Setting range	Notes		
Mains supply voltage	With this parameter, you specify whether the machine is a 100 V, 120 V or 230 V (default). This is necessary in order to configure the heat regulation to suit the different hot water boilers. This setting is performed by a service technician.	230 V (216244) 100 V (95105) 120 V (114126)	_		
Right grinder	-	Inactive/Active	Autom. hardware detection.		
Left mixer	Activates the left mixer when no milk system with milk pump is active.	Inactive/Active	The parameter is deactivated with machines with milk pump.		
Left instant ingredient motor	Activates the left instant powder motor when no milk system with milk pump is active.	Inactive/Active	The parameter is deactivated with machines with milk pump.		

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"Hardware configuration"			
Display text	Description	Setting range	Notes
Left powder system valve	Activates the left powder system valve if a left powder system is installed.	Inactive/Active	-
Milk pump *	Activates the milk pump if no left powder system is active.	Inactive/Active	(*) The function is not currently available.
	Machine configurations with the left powder system are displayed with an error message in the machine configurations if the "milk pump" parameter is active.		The components for the "Left mixer" powder sy- stem are all deactivated.
Milk system squeeze valve *	Activates the squeeze valve if no left powder system is active.	Inactive/Active	(*) The function is not currently available.
			See "Milk pump" note.
Milk system flushing valve *	Activates the flushing valve if no left powder system is active.	Inactive/Active	(*) The function is not currently available.
			See "Milk pump" note.
Cold water mixing valve	The cold water mixing valve is activated automatically when using a powder system.	Inactive/Active	Autom. hardware detection.
	The beverage temperature is regulated by the cold water mixing valve.		

Configuration

"General" menu item			
Display text	Description	Setting range	Notes
Main language	 Changing the display language ▶ Open selection menu using the [>] field. ☑ The options menu appears. ▶ Select the desired language. 	All provided languages	_
User interface	The beverage dispensing steps are taken according to the selected user interface. Option 1: Barista ONE Dispensing steps with [Barista ONE] user interface: Beverage selection Payment instruction Dispensing unit display Option 2: MiniCoffeeKitchen Dispensing steps with [MiniCoffeeKitchen] user interface: Beverage selection Beverage selection Beverage option selection Payment instruction Cup size/position selection Dispensing unit display	Barista ONE MiniCoffeeKit- chen	
Brand (trademark)	Selection of a desired brand. Café Noir PIAZZA DORO DE	Various brands No brand	The selected logo appears on the display of the screensaver and in Standby mode. See also "Screensaver" parameter.

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"General" menu item			
Display text	Description	Setting range	Notes
Text only beverage fields	If this setting has been activated, the beverage fields will only display text and no symbols. Example of text only beverage field Espresso	Off/on	No function!
Beverage field symbol	Two different symbol sets are available. ▶ Open selection menu using the [>] field. ☑ The options menu appears. ▶ Select the desired symbol set. Example: set 1 Example: set 2 Example: set 2	Set 1 (black/ white) Set 2 (colour)	No function!
Temperature unit	 The temperature unit can be changed here. ▶ Open selection menu using the [>] field. ☑ The options menu appears. ▶ Select the desired unit. 	Celsius Fahrenheit	_
Screen saver waiting time [s]	The screen saver appears after the selected time. If 0 is selected, no screen saver appears. Set the desired value. Under "Service" - "Upload pictures" you can upload pictures that are displayed as screen savers.	0 – 60	Picture requirements: Size = 250 kB Format = jpg, png, gif Pixels = 800 x 480
Screensaver	Select the image for the screensaver. You can use the media manager to load your own images into the machine.	Default User-defined images	A screensaver image with adapted logo appears according to the selected logo. Also see the "Brand (trademark)" parameter. See "Service" -> "Media Manager"

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"General" menu item			
Display text	Description	Setting range	Notes
Screensaver PIN	Configuration of a PIN (personal identification number) The ready for use state becomes active from the screensaver mode when this PIN is	[0000]	-
	entered.		
	Option 1: Screensaver without PIN		
	 Tap on display with displayed screensaver. The machine is immediately ready for operation again. 		
	Option 2: Screensaver with PIN		
	Tap on display with displayed screensaver.The window with number keypad		
	opens.Enter the configured PIN number and confirm.		
	☑ The machine is ready for operation again.		
Beverage colour, tab 1-5	Background colour of tab level.	Standard	No function!
	The tab levels are shaded in the selected colour.	Red, green, blue, yellow	
	The "Standard" selection causes the tab level to be shaded black.		
Higher sensitivity of beverage fields	Shorter response time when a beverage field is pressed.	Inactive/Active	_
Display mouse pointer	When activated, the position is displayed with a small Swiss cross as a mouse pointer when you touch the touch screen.	Inactive/Active	-
	Beverage selection example		
Barista field visible	When activated, the coffee strength can be adjusted before beverage selection. HOT WATER	Inactive/Active	Increases or decreases the coffee quantity by 15%.

"Beverage parameters" menu item			
Adjustment options	Description	Setting range	Notes
Tabs 1 to 5	Rename beverage tabs: ► Hold down the tab for 5 sec. ☑ The keyboard appears. ► Enter the desired name and confirm with ☑ .	All letters and numbers	_

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"Beverage parameters" menu item			
Adjustment options	Description	Setting range	Notes
Change programmed beverages	Different parameters of the preset beverages can be changed under this menu item. There are various parameters depending on the beverage. Only a reduced range of settings is available for these parameters. Access to the range of settings is restricted to service technicians.	All letters and numbers	Pretreatment level steps: 1: Quick-brew coffee, maximum chamber opening, compression pressure low 2: Chamber opening medium, compression pressure medium
	Coffee beverage only Grind qty grinder Strokes per button Pretreatment level Water volume Bypass water (service technician) Brewing accelerator water sequence (service technician) With milk (powdered or fresh milk) Dosing time [s] hot milk Dosing time [s] cold milk * (service technician) Dosing time [s] milk foam Milk powder flush water volume Milk powder volume Powder foam water volume Powder foam powder volume	Depends on beverage Depends on beverage	3: Compression pressure low 4 (standard): Compression pressure medium 5: Compression pressure high 6: Pre-brewing (1 ml/1 g), pre-brewing time 2 sec, compression pressure high 7: Pre-brewing (1 ml/1 g), pre-brewing time 2 sec, compression pressure high, wet pressing (*) Possible with the "Fresh milk system with milk pump".
	With powder Water volume [ml] Powder quantity [%] Temperature (water)	Depends on beverage	
	With cold water Dosing time [s]	Depends on beverage	
	Settings are made using the slider or dial controls: ▶ Set the slider/dial control to the desired value.		Slider control Dial control

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"Self-service mode" menu item			
Display text	Description	Setting range	Notes
Self-service mode active	 ▶ Deactivate/activate self-service mode. ▶ Save the change with the field. ☑ The device restarts. 	Inactive/Active	Beverage supply via the DECAF field is switched off in self-service mode.

"Time/Date/Timer operation" menu item			
Display text	Description	Setting range	Notes
Date	Setting the date:	DD/MM/YYYY	-
	► Press on the days.		
	► Set number using the arrow fields.		
	► Press on the months.		
	► Set number using the arrow fields.		
	► Press on the years.		
	► Set number using the arrow fields.		
Time	Setting the time:	hh:mm	_
	► Press on the hours.		
	► Set number using the arrow fields.		
	► Press on the minutes.		
	► Set number using the arrow fields.		
Date / time format	Setting the formats for the date and time:	12 h / 24 h	_
	► Open selection menu using the [>] field.		
	☑ The options menu appears.		
	► Select the desired format.		
Daylight saving time	Setting to take into account the time change due to summer time:	No daylight sa- ving time	_
	► Open selection menu using the [>] field.	EU daylight sa-	
	☑ The options menu appears.	ving time	
	➤ Select the desired time format.	USA daylight saving time	
Power Save timer operation (0 means deactivated) [hours]	If the set time expires without a beverage being dispensed, the machine switches off.	0.0 - 24.0 h	Time can be set in increments of half an hour.
	➤ Set the desired period of time.		Setting "0" = no switch-off
Timer Monday to Sunday	Here, the automatic switching on and off of	On / Off	_
	the machine can be specified for each day of the week:	hh:mm	
	Activate the switching on and off of the daily timer with the slider.		
	Set the switch-on and -off times using the arrow fields.		

"Accounting system" menu item			
Display text	Description	Setting range	Notes
Accounting system on/off	Activate/deactivate accounting system. Once the accounting system is switched on, beverages can only be obtained through a payment system.	Inactive/Active	_
	Prices are stored in the beverage parameters by the service technician.		

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Service

Display text	Description	Setting range	Notes
Calibrate display	Calibrating display: During calibration, a cross appears on different positions of the display. Click on the cross when it appears on the display until the calibration is completed.	-	It is advisable to calibrate the display if users have problems with the touch screen. For example, this is the case if no reaction is triggered when a field is pressed.
Calibrate grinder	Grinder calibration is display-guided.▶ Follow the instructions on the touch screen.	_	_
Create backup	The current status of the settings can be saved on a USB memory stick with this function. ► Insert USB stick. ► Press the [Create backup] field. ☑ The current status has been saved on the memory stick.	Configuration and counter statuses	The following default folder structure is created on the stick if not already present: USB STICK (F:) Bautostart SCP PowerSection Prime_vx.xx.scp Backup
Media Manager (Images, videos, icons)	The pictures or videos must be saved on a USB stick with the default folder structure. To do this, create a further folder, "Media," in the "Schaerer" directory. ▶ Save the desired pictures or videos to the "Media" folder on the USB stick. ▶ Insert USB stick into panel. ▶ Press the [Media manager] field. ☑ The "Media" folder is called up automatically (A) (if not, navigate manually). ▶ Select image or video (B) and confirm with [Upload] field (C). ☑ The picture or video is stored on the machine. Media Manager (pictures, movies, loons) □ Cafe-creme jpg □ Cappuccino jpg □ Caramet-Everest jpg □ Cherry-Lady jpg □ Crusoe-Mint jpg □ Cherry-Lady jpg		Picture requirements: Size = max. 250 KB Format = jpg, png, gif Pixels = 800 x 480 Video requirements: Size = max. 20 MB Format = MPG2 Please contact Schaerer for further information on video conversion and detailed requirements.

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Display text	Description	Setting range	Notes
Beverage selection symbol	In addition to the set selection in the "Configuration" – "General" – "Beverage field icon" menu, separate icons can be assigned to every beverage as a beverage field.	_	No function!
	Save the required images to the USB stick in the "Media" folder.		
	► Insert USB stick into panel.		
	► Select the [Beverage icon selection] field.		
	The window (A) with configured beverages is opened.		
	Latte Macchiato Latte dark Coffee		
	➤ Select the relevant folder for the bever-		
	age. ☑ The window for the icon selection opens.		
	Image management:		
	B) Loaded images for the beverage.		
	C) Images available from USB stick. External pictures Cafe-creme.jpg Cappuccino.jpg Caramet-Everest.jpg Chilly-Chilli.jpg Clove-Honey.jpg Crusoe-Mint.jpg		
	Select new image from USB stick.The window closes and returns to		
	window (A). ☑ The beverage field is then displayed with the new image.		
	 Select field [
	► The field (D) goes back to the window with the configured beverages.		
Start descaling	The descaling procedure is display-guided.	_	The descaling progress of
	► Have 2 bottles (0.75 I) of liquid decalcifier ready.		the individual stages is reported in %.
	Have a container (5 l) ready for placing underneath.		See also "Service and maintenance" - "Descaling".
	Descaling is performed in three stages:		
	Cooling		
	DescalingRinsing		
	- Killolily		

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Display text	Description	Setting range	Notes
Change the water filter	Starts the wizard for changing the water filter. Follow the instructions on the touch screen.	_	_
Generate EVA DTS file	 ► Insert USB stick into the panel. ► Press [Generate EVA DTS file] field. ☑ A current EVA DTS file is generated and saved to the stick. 	-	Export the audit data (sales and money flow journals). EVA = European Vending Association DTS = Data Transfer Protocol

Info

Display text	Description	Setting range	Notes
Show versions	The following information can be obtained here: Touch panel software version Power section software version Database version Accounting version Version Qt Version Qt license	_	When reporting a fault, please pass this information on to the service technician.
Service counter	The counter values of all machine components can be read off here.	-	_
Machine/temporary counters	Overview of all counter values of beverages and beverage dispensing operations. The machine and temporary counters can only be deleted in total: Press the Xfield.	_	There is a difference between user counters and overall counters. User counters can be deleted. It is thus possible to allow counters to run for a specific time. The total counters cannot be deleted.
Cleaning statistics	The date and time of the various cleanings can be read off here.	-	_
Service, descaler and filter change info	The date of the last and next service, descaling or filter change can be read out here. The next service can also be specified in terms of the number of dispensed beverages.	-	-

Bookkeeper profile

The "Bookkeeper" can set prices and read out sales, counters and statistics.

The following main menus are contained in the "Service menu" [Settings] in the [Bookkeeper] profile:

- Configuration
- Info

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In the [Bookkeeper] profile, the following functions are available for direct selection in the "Service menu":

- · Switch the milk system on/off
- · Switch on quick info.
- Settings
- Standby
- · Open service door



The contents of the main menus are subsequently described in this chapter.

"Configuration" main menu			
"Accounting" menu	Description	Setting range	Notes
Accounting On/Off	► Activate/deactivate accounting. Once accounting is switched on, beverages can only be obtained through an accounting system.	inactive/active	_
	Prices are stored in the beverage parameters by the service technician.		

"Info" main menu			
Parameter	Description	Setting range	Notes
Machine/temporary counters	Overview of all counter values of beverages and beverage dispensing operations. The machine and temporary counters can only be deleted in total: Press the Xfield.	_	There is a difference between user counters and overall counters. User counters can be deleted. It is thus possible to allow counters to run for a specific time. The total counters cannot be deleted.

Bookkeeper reduced profile

The "Bookkeeper reduced" can read out counters and statistics.

The "Info" main menu is contained in the [Settings] "Service Menu" in the [Bookkeeper reduced] profile.

The following functions are available in the "Service Menu" in the [Bookkeeper reduced] profile:

- · Switch the milk system on/off
- · Switch on quick info.
- Set-up
- Standby
- · Open service door



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"Info" main menu				
Parameter	Description	Setting range	Notes	
Machine/temporary counters	Overview of all counter values of beverages and beverage dispensing operations. The machine and temporary counters can only be deleted in total: Press the Xfield.		There is a difference between user counters and overall counters. User counters can be deleted. It is thus possible to allow counters to run for a specific time. The total counters cannot be deleted.	

Operator profile

The "Operator" has limited access to service functions.

The following main menus are contained in the "Service menu" [Settings] in the [Machine operator] profile:

- System
- Service

In the [Operator] profile, the following functions are available for direct selection in the "Service menu":

- Start rinsing
- · Switch the milk system on/off
- Switch on quick info. (current boiler temperatures at the bottom right of the display)
- Settings
- · Start cleaning
- Standby
- Touch screen cleaning (30 sec)
- · Cleaning statistics
- Open service door



"System" main menu				
Parameter	Description	Setting range	Notes	
Maintenance	Last filter change.Date entry of last filter change.► Highlight day, month and year in sequence.	-	The parameter is displayed if an external filter is used.	
	Set the required value using the up or down arrow fields.			

"Service" main menu			
Parameter	Description	Setting range	Notes
Beverage selection symbol	See "Programming" – "Caretaker profile" – "Beverage selection icon".	-	_

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"Service" main menu			
Parameter	Description	Setting range	Notes
Change water filter (internal)	 Changing the filter is display-guided. ▶ Have the filter cartridge ready. ▶ Place the filter cartridge into water for 15 min. ▶ Follow the display instructions. 	_	The parameter is displayed if an internal filter is used.
Start descaling	 The descaling procedure is display-guided. ▶ Have 2 bottles (0.75 I) of liquid descaler ready. ▶ Have a container (5 I) ready for placing underneath. Descaling is performed in three stages: Cooling Descaling Rinsing 	_	The descaling progress of the individual stages is reported in %. See also "Service and maintenance" - "Descaling".

Restaurant manager profile

The Restaurant manager has access to the beverage parameters, the self-service mode and the setting in the "Accounting" menu.

The [Restaurant manager] profile contains the following main menus:

- Configuration
- Info

In the [Restaurant manager] profile, the following functions are available for direct selection in the "Service menu":

- · Switch on milk system
- · Switch on self-service mode
- · Switch on quick info
- Settings
- Standby
- · Open service door



"Configuration" main menu			
"Beverage parameters" menu	Description	Setting range	Notes
Tabs 1 to 5	See "Programming" – "Caretaker profile" – "Change programmed beverages".	All letters and numbers	Up to 24 characters can be entered.
Change programmed beverages	See "Programming" – "Caretaker profile" – "Change programmed beverages".	All available beverages	The available beverage types depend on the existing options.

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"Configuration" main menu			
"Self-service mode" menu	Description	Setting range	Notes
Self-service mode active	 ▶ Deactivate/activate self-service mode. ▶ Save the change with the field. ☑ The device restarts. 	Inactive/active	Beverage dispensing via the DECAF field is swit- ched off in self-service mo- de.

"Configuration" main menu			
"Accounting" menu	Description	Setting range	Notes
Accounting On/Off	See "Programming" – "Bookkeeper Profile".	Inactive/active	_

"Info" main menu			
Parameter	Description	Setting range	Notes
Machine/temporary counters	Overview of all counter values of beverages and beverage dispensing operations. The machine and temporary counters can only be deleted in total: Press the Xfield.	_	There is a difference between user counters and overall counters. User counters can be deleted. It is thus possible to allow counters to run for a specific time. The total counters cannot be deleted.
Cleaning statistics	The date and time of the various cleanings can be read off here.	_	_

Quality manager profile

The "Quality manager" can read out counters and statistics.

The "Info" main menu is contained in the "Service menu" [Settings] in the [Quality manager] profile.

The [Quality manager] profile contains the following main menus:

- System
- Info

The following functions are available in the "Service Menu" in the [Quality manager] profile:

- Switch the milk system on/off
- Switch on quick info.
- Settings
- Standby
- Open service door



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"System" main menu			
"Cleaning" menu	Description	Setting range	Notes
Profi mode cleaning	Starts the profi cleaning automatically when cleaning is initiated. All preparation steps are listed. These steps can still be acknowledged as an option. After all steps have been carried out and the service doors are closed again, the cleaning can be started via the active	Inactive/active	If cleaning is cancelled with the cleaning prompt remains. Cleaning operations can also be cancelled by switching off or power failure. A cancelled cleaning operation can be completed by restarting the cleaning.

"Info" main menu			
Parameter	Description	Setting range	Notes
Machine/temporary counters	Overview of all counter values of beverages and beverage dispensing operations. The machine and temporary counters can only be deleted in total: Press the Xfield.	_	There is a difference between user counters and overall counters. User counters can be deleted. It is thus possible to allow counters to run for a specific time. The total counters cannot be deleted.
Cleaning statistics	The date and time of the various cleanings can be read off here.	-	_

www.schaerer.com Troubleshooting

Troubleshooting

"Smart Info" window

The [Info] field is displayed if a malfunction exists or intervention by a user or service technician is needed to ensure operating readiness of the machine. For instance, if the drinking water tank must be refilled.

If such a case occurs, the [Info] field appears on the main screen.



Depending on the cause, beverage dispensing is disabled until the required measure has been carried out.



▶ Press the [Info] field (see figure).☑ The "Smart Info" window opens (see figure).

Carry out the measures described.

If the display message persists, a malfunction may exist.

► Contact your service partner (see www.schaerer.com).

Grounds container removed
Description The grounds container is removed

Troubleshooting Open the service door and insert / check grounds container

1/1



See also "Troubleshooting" - "Faults with display message".

Faults with display message

The most important fault messages are described below. Contact your service partner if the fault persists after all of the troubleshooting measures have been tried.

Display message	Cause	What to do
Milk level low	The container for fresh milk is virtually empty.	► Top up the container for the fresh milk as and
(Small reserve amount still available)		when.
Milk empty	The container for the fresh milk is empty.	► Remove the container for the fresh milk.
		► Thoroughly clean the container.
		► Fill the container with fresh milk pre-cooled at ±5°C and insert it back into the machine.
Empty the drip tray.	The drip tray is full.	► Empty the drip tray.
		► Clean the drip tray and reinsert it.
Drip tray missing	The drip tray is not correctly inserted or is missing.	► Insert the drip tray and check for correct seating.

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Display message	Cause	What to do
Left grinder overloaded/bloc- ked Right grinder overloaded/bloc- ked	An excessively high current value (>8 A) has been measured over a defined period. The machine attempts to start grinding 5 times, after which the following message appears: "Left/right grinder overloaded". If another beverage is requested in this state and the problems remain, the message changes to "Left grinder overloaded/blocked" or "Right grinder overloaded/blocked". Beverage dispensing is disabled.	 Open the door. Switch off the machine. Check the grinder for blockages and remove any foreign bodies. Restart the machine. If the fault appears again, contact your service partner.
Hot water boiler excess temperature	The water supply has been interrupted.	Check the level of the drinking water tank or the condition of the mains water supply.
	The brewing unit is blocked.	► Check and clean the brewing unit.
	The machine has overheated.	Disconnect the machine from the power supply and let it cool off.
	The SSR is defective.	► Contact your service partner.
	The Klixon has triggered.	
Steam boiler excess temperature	The water supply has been interrupted.	Check the level of the drinking water tank or the condition of the mains water supply.
	Blockage in the steam system	Check and clean the beverage outlet and steam system.
	The machine has overheated.	Disconnect the machine from the power supply and let it cool off.
	The SSR is defective.	Contact your service partner.
	The Klixon has triggered.	
Hot water temperature too low Steam boiler temperature too low	Error while heating	Disconnect the machine from the power supply.Connect the machine again and switch it on.
Hot water boiler heating time out Steam boiler heating time out	Although the heating is switched on, the set temperature was not reached within 5 minutes.	Contact your service partner.
NTC hot water boiler short NTC steam boiler short	The main board does not detect a resistance. A maximum temperature (approx. 150°C) is measured. Beverage dispensing is disabled.	➤ Contact your service partner.
NTC hot water boiler open NTC steam boiler open	The temperature sensor is not connected. A minimum temperature is measured.	► Contact your service partner.
Brewing unit excess current	Excess current was detected on the brewing unit motor.	Contact your service partner.
Brewing unit idle current	Even when the brewing unit is not running, it must consume a minimal amount of current. If it does not, there is a fault. This may be due to the brewing unit, the power board or the wiring.	 Check the brewing unit for blockages. If the fault persists, contact your service partner.

www.schaerer.com Troubleshooting

Display message	Cause	What to do
Brewing unit time out	The brewing unit does not have a press switch for the "home position". The position of the brewing cylinder is detected by measuring the current value. The following peak values are detected: upper and lower position The following time out is defined: If no	Contact your service partner.
	current peak is detected within 10 seconds after a brewer movement, the "brewing unit timeout" is displayed.	
Water flow error	While a coffee product is being dispensed, the flow meter performs fewer than the defined number of minimum rotations. It is likely there is a blockage or partial blockage somewhere in the water system.	 Check the level of the drinking water tank or the condition of the mains water supply. Check the internal or external drinking water tank (saturation of the filter reduces the water flow).
		Check whether the upper plunger is blocked or partially congested.
		► Check the grinding setting.
		If the grinding setting is too fine, this can inhibit or completely block the water flow.
		► If the fault persists, contact your service partner.
Steam boiler supply error	The level sensor detected a low level in the steam boiler. An attempt was made to fill the boiler. However, no water was detected by the level probe within 60 sec. Filling is aborted. The dispensing of beverages that re-	► Contact your service partner.
	quire steam is disabled.	
Modbus processing error	Communication error between the	Contact your service partner.
Modbus comm error	power unit and TouchPanel.	
Accounting system is initialising.	Status message only	_
Accounting system is online	Status message only	-
Accounting system is offline	Status message only	_
Unable to start database	Serious error/internal error	► Disconnect the machine from the power supply.
Wrong database version	Error at software start-up	Connect the machine again and switch it on.
Unable to start user interface		► Reinstall the software.
General error message in control process		► Contact your service partner.
Unable to start control process		
Control process has been un- expectedly shut down		
Unable to initialize control process		
Unable to set up communication with control process		
Communication interrupted by control process		

Precautionary measures www.schaerer.com

Precautionary measures

Cleaning products

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	

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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 °dKHor 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





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





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" principle).
- · Use before the expiry date.
- Always reclose packages after opening to ensure that the contents remain fresh and are protected from contamination.

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Precautionary measures www.schaerer.com



Automatic machine powder/instant powder

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.

www.schaerer.com Liability

Liability

Operator responsibilities

The operator is responsible for ensuring that regular maintenance and inspection of the safety devices are carried out by a Jacobs Douwe Egberts service partner, its representatives or other authorised persons.

Jacobs Douwe Egberts must be notified in writing of any defects within 30 days. Hidden defects must be reported within 12 months from installation (work report, handover certificate), but at the latest 18 months after the device left the factory.

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 24 months
- Boilers (steam boilers, continuous flow heaters): every 72 months

These measures are carried out within the framework of maintenance by your service partner.

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 Schaerer AG spare parts.
- Use of cleaning products that are not recommended by Schaerer 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 Schaerer AG apply.