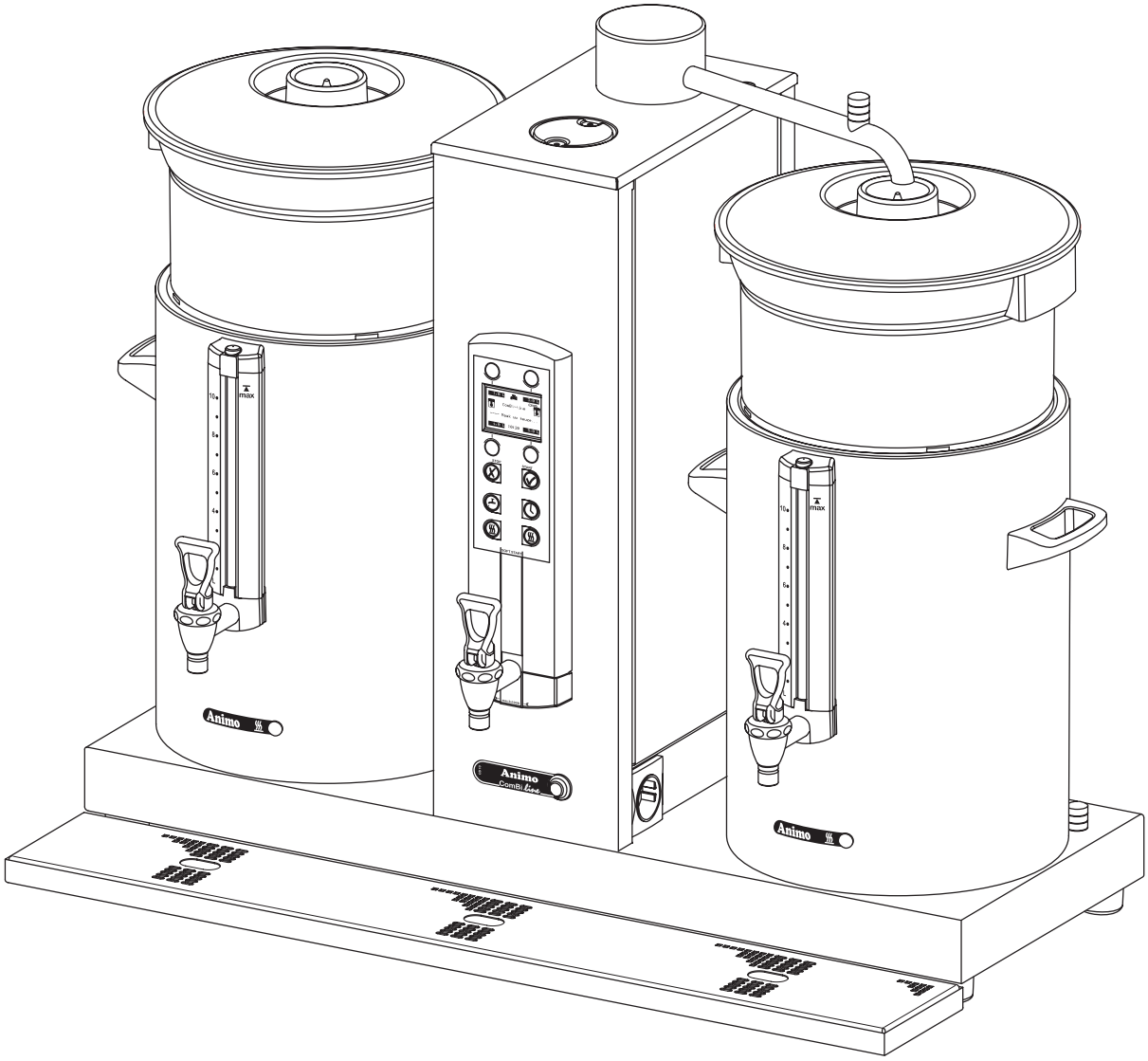
ComBi *line*

CB 1x5W
CB 1x10W
CB 1x20W
CB 2x5W
CB 2x10W
CB 2x20W



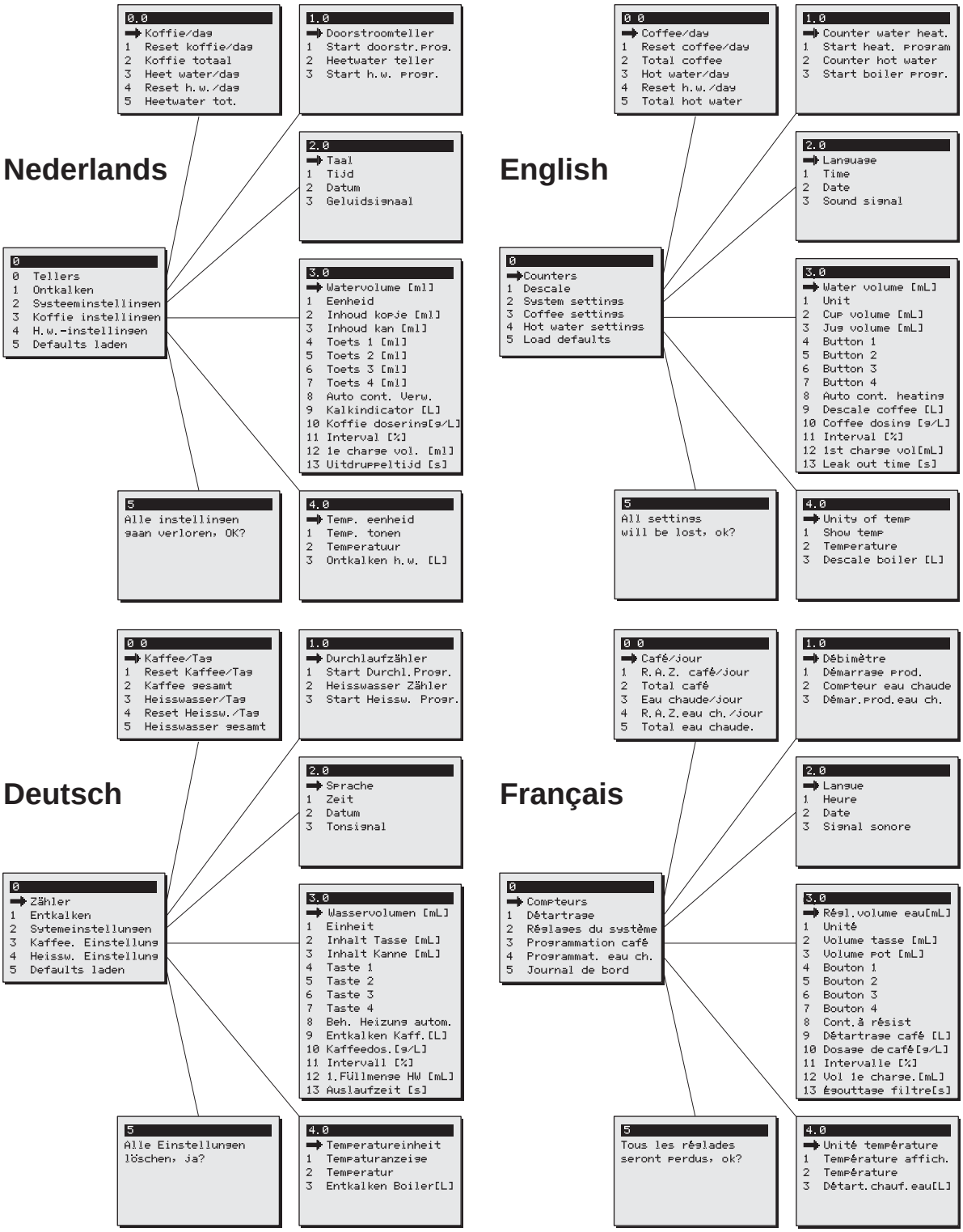
(NL) Gebruiksaanwijzing

(GB) Manual

(D) Betriebsanleitung

(F) Mode d’emploi

Animo



Code nr	PIN code/Geheimzahl					Code nr	PIN code/Geheimzahl				
1	4	2	1	2	2	11	4	2	3	2	2
2	3	3	4	4	3	12	4	3	2	2	2
3	1	4	1	1	3	13	3	2	2	4	4
4	2	4	2	1	2	14	3	3	1	2	4
5	3	3	3	1	3	15	3	4	3	1	2
6	1	4	4	4	1	16	3	4	4	2	4
7	4	1	2	3	1	17	1	4	2	2	4
8	3	4	3	1	4	18	1	3	2	4	4
9	4	2	1	3	4	19	3	3	4	4	1
10	3	3	3	1	4	20	1	4	1	3	4

ComBi-line Buffetmodel
ComBi-line Buffet model
ComBi-line Buffetmodell

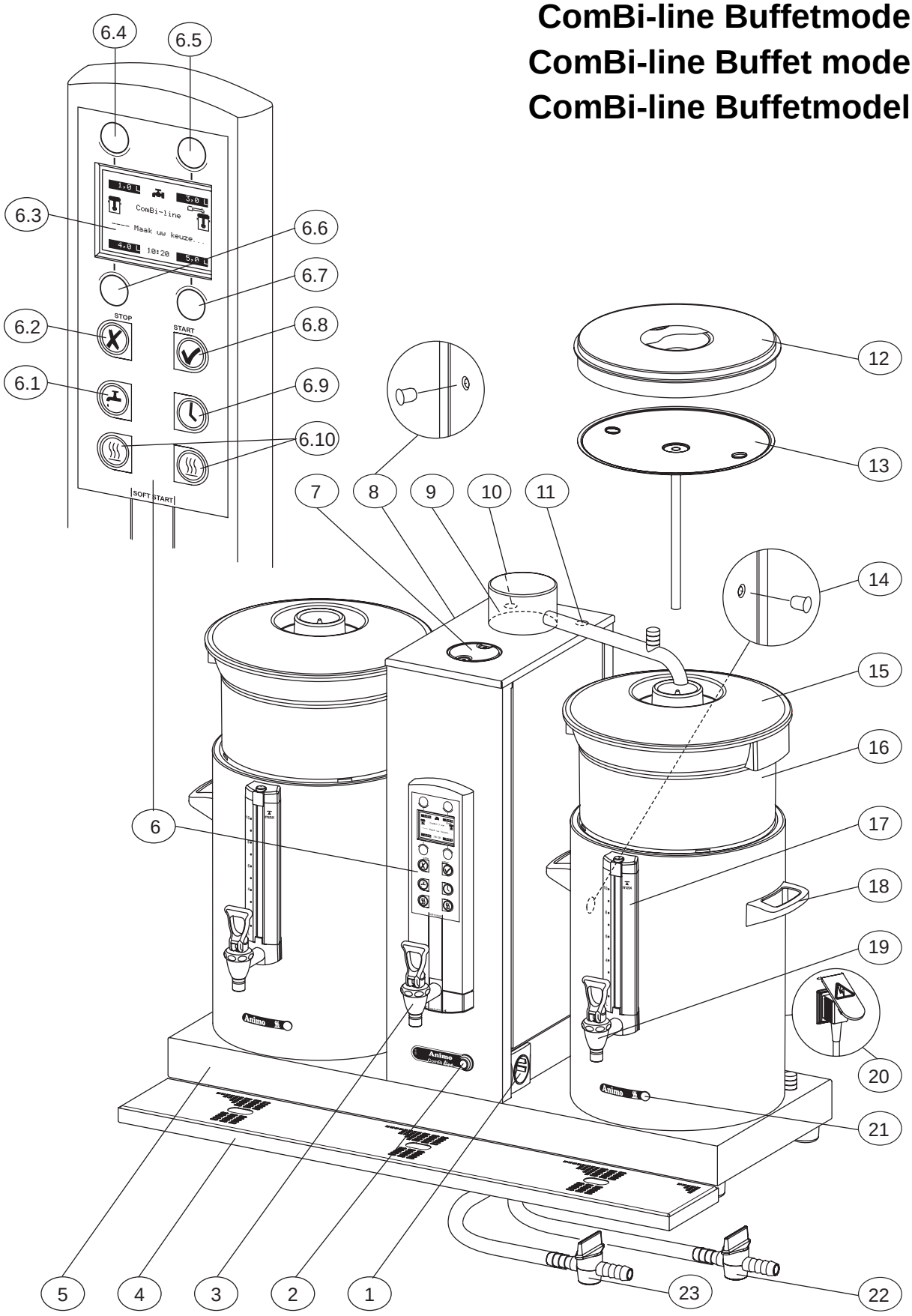


Fig. 1/ Abb. 1

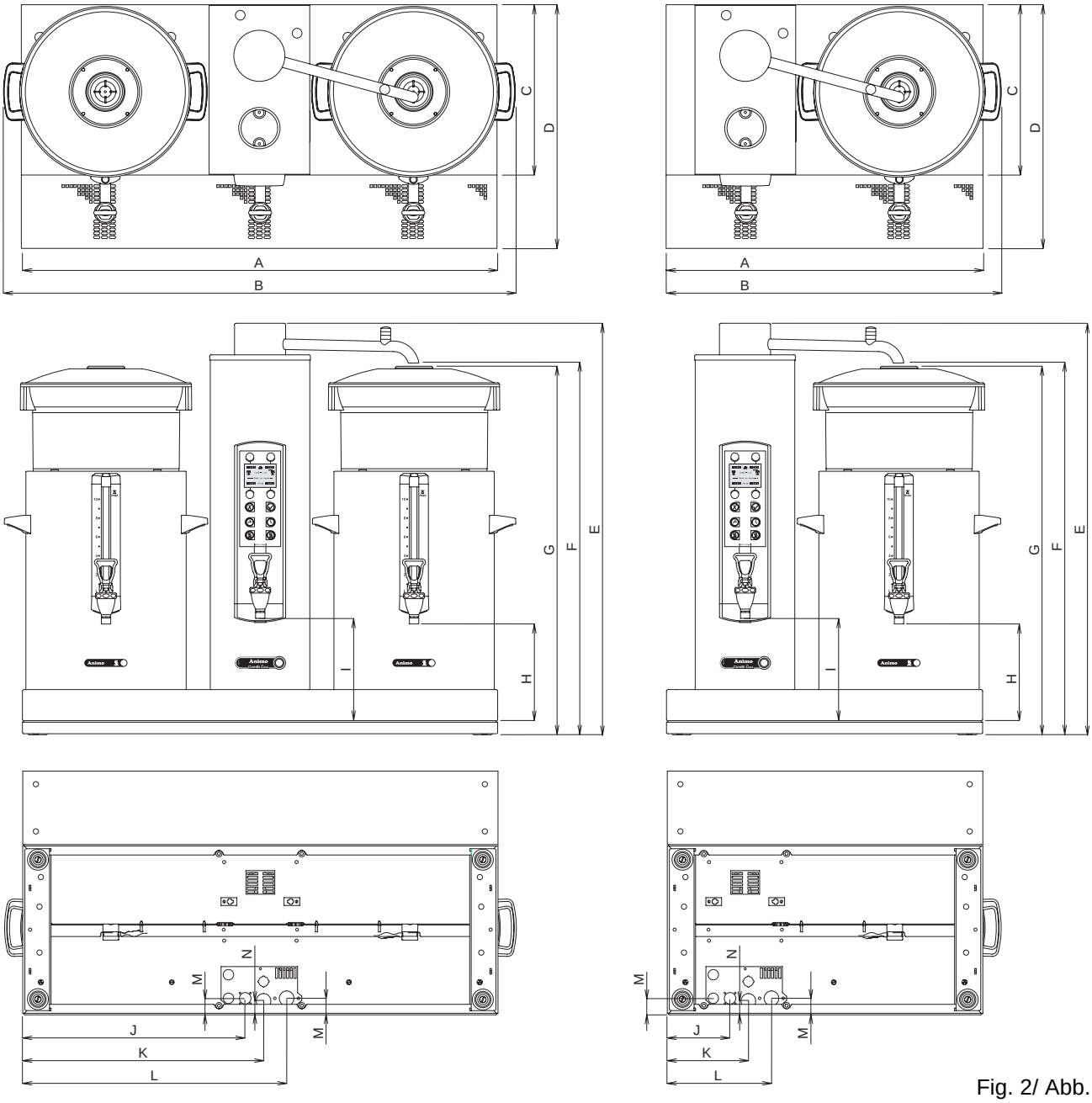


Fig. 2/ Abb. 2

Afmetingen / Dimensions / Maße ComBi-line									
	CB 1x5 L	**CB 1x10 L**	**CB 1x20 L**	**CB 1x5 R**	**CB 1x10 R**	**CB 1x20 R**	**CB 2x5**	**CB 2x10**	**CB 2x20**
A =	530	599	653	530	599	653	770	907	1015
B =	554	634	693	554	634	693	818	977	1095
C =	325	325	360	325	325	360	325	325	360
D =	465	465	500	465	465	500	465	465	500
E =	692	784	886	692	784	886	692	784	886
F =	616	707	808	616	707	808	616	707	808
G =	611	702	803	611	702	803	611	702	803
H =	185	185	185	185	185	185	185	185	185
I =	187	187	289	187	187	289	187	187	289
Volt J =	356	425	479	116	116	116	356	425	479
K =	391	459	513	151	151	151	391	459	513
L =	435	504	558	195	195	195	435	504	558
M =	32	32	67	32	32	67	32	32	67
N =	27	27	62	27	27	62	27	27	62

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Animo reserves the right to change parts at any time without giving prior or direct notification to the customer.
The content of this manual can also be changed without prior notification.

This manual covers the standard model of the appliance. Animo can therefore not be held liable for any losses arising from the fact that the specifications of the appliance supplied to you deviate from the standard model. Please contact your supplier's service department for information concerning adjustment, maintenance or repairs not covered by this manual.

Although this manual was produced with the greatest possible care, the manufacturer is unable to accept liability for errors in this document or their consequences.

You are advised to carefully read the instructions in this document: they contain important information about safety when installing, using and maintaining the appliance. Keep this document in a safe place so that you can consult it when necessary.

PREFACE

Purpose of this document

This document serves as a manual that enables qualified personnel to safely install, program and maintain the appliance. This document contains information for two sorts of users:

- By **partly qualified personnel** we mean: someone who uses the appliance daily and carries out the daily maintenance.
- By **trained, qualified personnel** we mean: someone who can change the settings in the operator menu (reachable via a PIN), carry out maintenance and resolve small faults.

All of the chapters and paragraphs are numbered. The various illustrations to which the text refers are given in the fold-out sheets or at the back of this booklet or under the particular subjects.

Icons and symbols

NOTICE
General instructions for: IMPORTANT, NOTE or REMARK.

CAUTION !
Warning of possible damage to the appliance, the surroundings or the environment.

WARNING
Warning of possible serious damage to the appliance or physical injury.

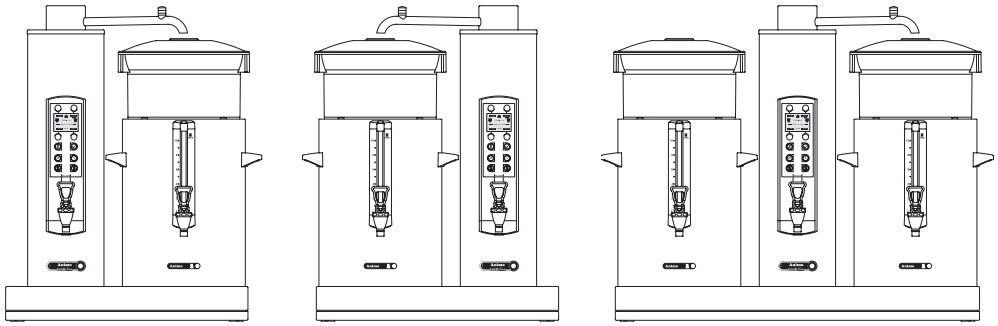
WARNING
Warning of electricity hazard.

Introduction

Congratulations on your purchase of one of our products. We hope that you will enjoy using it.

Models

This manual covers the following coffeemakers of the ComBi-line range:



CB 1x5/10/20W R **CB 1x5/10/20W L** **CB 2x5/10/20W**

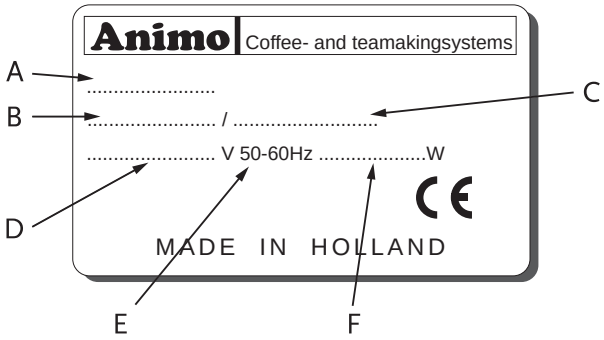
Purpose of the appliance

This machine can only be used for brewing and distributing coffee and/or tea.
The use of the appliance for other purposes is not permitted and may be hazardous.
The manufacturer cannot be held liable for losses caused by using the appliance for purposes other than those indicated here or by incorrect use.

Service and technical support

Please contact your dealer for information not given in this document regarding specific adjustment, maintenance and repairs. Before contacting your dealer you should note the following appliance details, marked with a #. You will find these details on the type plate attached to your appliance.

A - Type #
B - Article number #
C - Machine number #
D - Supply voltage
E - Frequency
F - Output



Guarantee conditions

The guarantee conditions applicable to this appliance form an integral part of the general terms of delivery.

Directives

This appliance meets the requirements of the EMC Directive 89/336/EEC, the Low Voltage Directive 72/23/EEC, and the machine directive 98/37/EEG.

Safety instructions and danger warnings

This appliance meets the mandatory safety regulations. Inexpert use can result in personal injury and material damage. The following warnings and safety instructions must be observed before using the coffee maker.

Instructions for use

Read these instructions for use carefully, before using this appliance. This will protect your safety and prevent damage being caused to the appliance. Perform the various actions in the order given. Always keep this manual close by the appliance.

Installation

- Place the appliance at buffet height and on a firm, level base, in such a way that it can be connected to the water supply and power supply.
- Connect the appliance to an earthed wall socket.
- Position the appliance in such a way that no damage can be caused if it leaks.
- Do not tilt the appliance, always position and move the appliance upright.
- Connect an overflow pipe to the drainage tube.
- Water always remains in the heating system: for this reason the appliance must not be placed in an area where the temperature can fall below freezing point.
- When installing the appliance, always observe the local rules and use approved materials and parts.
- The Installation chapter must again be followed when repositioning the appliance.
- Connect the appliance to the cold water mains.

Use

- Inspect the appliance before using it and check it for damage.
- Never submerge or spray the appliance.
- Do not press the buttons with a sharp object.
- Protect the controls against dirt and grease.
- During use some parts will become very hot.
- Do not position the container on open fire, or hot plate.
- First disconnect the electric cable before transporting the container.
- It is advisable to take the plug out of the socket and close the water tap if the appliance is not going to be used for longer periods of time

Maintenance and troubleshooting

- Observe the descaling intervals indicated by the descaling indicator symbol.
- Overdue maintenance to the heating system can result in high repair costs and annulment of the guarantee.
- Do not leave the appliance unattended when maintenance is being performed.
- When descaling the appliance, it is advisable to wear safety glasses and protective gloves.
- Wash your hands after descaling.
- Have all repairs carried out by a qualified technician.
- The plug must be taken out of the socket if the appliance has to be opened for cleaning or repairs.

The manufacturer cannot be held liable for losses caused as a result of failure to observe these safety instructions.

Safeguards

The appliance is fitted with the following safeguards:

On/off switch (fig. 1-2)
The on/off switch is used to switch the appliance on and off. Remember that the appliance can still be live after being switched off! For this reason you should always remove the plug from the socket to render the appliance voltage-free.

STOP button (fig. 1-6.2)
The coffee making process can be interrupted at any point using the STOP button located on the control panel.

Swivel arm and container detection
This appliance is equipped with a safety device through which it is only possible to start the brewing process if the swivel arm and container are in the correct position. If the swivel arm and/or container are moved out of position during the brewing process, the brewing process is interrupted, a swivel arm and/or container symbol appears in the display and there is a sound signal (2x short). Once the positioning fault has been resolved the brewing process can be restored by pressing the START button.

Dry-boil protection
This appliance is equipped with a dry-boil protection. This protection triggers if the heating elements overheat owing to a fault. Once the fault has been resolved, the dry-boil protection can be reset at the outside of the appliance. The most common cause of the dry-boil protection being triggered is not descaling the heating system in time.

Warning indication display
A technical fault is reported by displaying an error code in the display. The relevant problem can be localised and resolved with the help of this code. In this case see chapter 13-TROUBLESHOOTING.

Appliances and the environment

The packing material
Your new coffee maker has been carefully packaged to protect it against damage.
The packing is not harmful to the environment and consists of the following materials:
- Corrugated cardboard.
- Filler elements made of polyurethane foam <PUR> covered with a polythene film (>PE-HD<).
  The waste processing plant in your municipality will be pleased to inform you where you can dispose of the materials.

Discarding the appliance
No appliance lasts forever. When the time comes to discard your appliance it will usually be possible to return it to your dealer. If this is not the case, ask your municipal council about the alternatives for recycling the materials. All plastic parts have been given standard codes. The parts of the appliance such as the printed circuit board and accompanying parts form electrical and electronic waste. The metal body is made of stainless steel and can be completely dismantled.

1. GENERAL

The ComBi-line 5 W - 20 W is a professional coffee maker, equipped with a continuous flow heater.
The appliance comes with a separate hot water system with a no-drip tap through which it is possible to draw off hot water during the coffee brewing process. This hot water system can be used for the making of tea, hot chocolate, instant soup etc. It is very easy to use. The user can choose from a number of fixed set amounts via a control panel with a graphic display which also offers information about the current process of the appliance. Specific requirements and wishes concerning brewing quantity, hot water temperature, etc. can be accessed and programmed by the operator via a PIN. The operator also has the possibility of reading counters and activating a descaling program.

1.1 A quick look at the appliance

The most important parts of the appliance are shown in the fold-out sheet in this manual.
Keep the fold-out sheet open when reading the instructions.

1.1.1 Most important parts (fig. 1)

1. Socket L/R for container heating
2. ON/OFF switch coffee- and boiler system
3. Hot water tap
4. Drip tray with grid
5. Base plate
6. Control panel
   - 6.1 On/Off button boiler system
   - 6.2 STOP button / Back button (without changing)
   - 6.3 Illuminated display
   - 6.4 Selection button brew volume 1
   - 6.5 Selection button brew volume 2
   - 6.6 Selection button brew volume 3
   - 6.7 Selection button brew volume 4
   - 6.8 START button / Accept button (save)
   - 6.9 Timer button
   - 6.10 On/Off button container heating L/R
7. Vapor escape opening boiler system
8. Dry-boil protection coffee brewing system
9. Swivel arm
10. Descale filling opening coffee brewing system
11. Descale filling opening boiler system
12. Insulated lid
13. Blender - transport disk
14. Dry-boil protection hot water system
15. Water distributor lid
16. Basket filter
17. Integrated gauge glass
18. Handle
19. Coffee tap
20. Socket with splash protection
21. Pilot light
22. Drain hose coffee brewing system
23. Drain hose hot water system

2. TECHNICAL DETAILS

Model	**CB 5W**	**CB 10W**	**CB 20W**
Article number 2 x ..	10615	10655	10695
Article number 1 x .. L	10620	10660	10700
Article number 1 x .. R	10625	10665	10705
Capacity coffee system			
Brew time (water dosing time)	approx. 10 min./5 liter	approx. 10 min./10 liter	approx. 14 min./ 20 liter
Hour capacity (water volume)	30 liter	60 liter	90 liter
Buffer stock 2 x ..	10 liter	20 liter	40 liter
Buffer stock 1 x .. L/R	5 liter	10 liter	20 liter
Filter paper	Ø101/317	Ø152/457	Ø203/533
Capacity hot water system			
Boiler content	approx. 4,2 liter	approx. 5,6 liter	approx. 5,6 liter
Buffer stock hot water	approx. 2,2 liter	approx. 3,6 liter	approx. 3,6 liter
Hour capacity (hot water	approx. 22 liter/hour	approx. 22 liter/hour	approx. 22 liter/hour
Heat up time (15-96°)	approx. 10 min.	approx. 14 min.	approx. 14 min.
Recovery time after max. drain	approx. 5 min.	approx. 5 min.	approx. 5 min.
Containers			
Model	CN5e	CN10e	CN20e
Contents	5 liter	10 liter	20 liter
Contents MAX	5,5 liter	11 liter	22 liter
Electrical connection	1N~ 220-240V	1N~ 220-240V	1N~ 220-240V
Frequency	50-60 Cy	50-60 Cy	50-60 Cy
Power	35W	70W	70W
Electrical system			
Electrical connection	3N~ 380-415V	3N~ 380-415V	3N~ 380-415V
Frequency	50-60 Cy	50-60 Cy	50-60 Cy
Power	5400W	8400W	11400W
Priority selection*	1N~ 230V 3200W		
* Preference switches can only be activated by the service engineer			
Dimensions and weights incl. container(s)/filter(s)			
Dimensions 2 x ..	See fig. 2	See fig. 2	See fig. 2
Weight empty	33 kg	42 kg	53 kg
Weight filled	47 kg	67 kg	99 kg
Transport dim. (l x w x h)	864x495x745 mm	995x495x845 mm	1120x520x1080 mm
Transport weight	44 kg	57 kg	70 kg
1 x .. L/R			
Weight empty	25 kg	30 kg	40 kg
Weight filled	34 kg	46 kg	65 kg
Transport dim. (l x w x h)	864x495x745 mm	995x495x845 mm	1120x520x1080 mm
Transport weight	37 kg	46 kg	53 kg
Water system			
Water hardness	min. 5°dH (min. 9°fH, 0,9 mmol/l)		
Water resistance	⩾15 µ Siemens/cm		
Water connection	swivel 3/4" outer thread		
Min. water pressure	0,02 MPa (0,2 bar)		
Max. water pressure	1 MPa (10 bar)		
Flow pressure	5 l. / min.		
Overflow connection	tube Ø 25 mm		

Technical modifications reserved.

Surrounding conditions

Water always remains in the heating system: for this reason the appliance must not be placed in an area where the temperature can fall below freezing point. The working of this appliance is guaranteed upto a surrounding temperature of 40°C.

Recommended maintenance products

Descaler: Animo scale remover.
Cleaner: Animo coffee fur remover.
See chapter 10 for information on how to order the maintenance products.

Recommended coffee and basket filter paper

The best results are achieved by using standard ground coffee. After selecting brewing quantity, the display will advise you how much coffee should be put in the filter. This recommended amount can be set completely according to your preference through the operator menu, see chapter 12.4.8.
Only use the supplied Animo basket filter paper or filter paper of the same measurements and quality.
See chapter 10 for information on how to order usable parts.

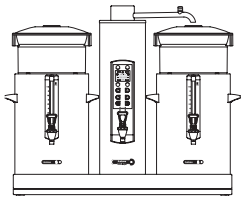
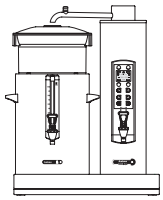
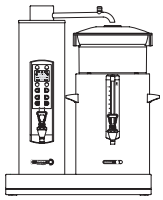
3. INSTALLATION

This appliance may only be positioned and connected by a qualified service engineer.
The following rules must be observed:

- only suitable for indoor use
- not suitable for use in humid areas
- not suitable for areas with explosion hazard

3.1 Unpacking

The machine has been carefully packed to prevent damage being caused to your new appliance.
Remove the packing carefully without using sharp objects. Check if the appliance is complete.
The appliance (tower) will be delivered already mounted on a base plate according to the specifications below.

Model	**CB 2x_W**	**CB 1x_W L**	**CB 1x_W R**
• 1 swivel arm	1	1	1
• 1 drip tray with grid	1	1	1
Carton with basket filter:	2	1	1
• 1 synthetic filter			
• 1 water distributor lid			
• 1 set basket filter paper abt. 25 pcs.			
Carton with container:	2	1	1
• 1 container			
• 1 insulated lid			
• 1 blender /transport disk			
• 1 gauge glass brush			
• 1 sticker sheet coffee/tea			
• 1 electric cable 1,5m			
Accessories:			
• 1 connection hose 1,5m	1	1	1
• 1 descaling funnel	1	1	1
• 1 sachet coffee fur remover	1	1	1
• 1 sachets scale remover	1	1	1
• 1 manual	1	1	1
• 1 set centric shoulders (2x)	2	1	1
• 1 electric cables 0,6m	2	1	1

Please contact your dealer in case parts are missing or damaged.

WARNING ⚠

- Water always remains in the heating system: for this reason the appliance must not be placed in an area where the temperature can fall below freezing point.

3.2 Preparation for positioning

- Place the appliance at buffet height on a firm, level base that can withstand the weight of the machine when filled.
- Make sure that the appliance is level and placed somewhere where it will not cause damage should leakage occur.
- Place the appliance in such a way that the descaler filling opening on the top of the column can be reached.
- The water supply line (G3/4" 15 mm pipe), a discharge for the overflow connection (25 mm hose) and the power connection must be within half a meter of where the machine is positioned.
- The user is responsible for ensuring that these technical installation preparations are executed according to local regulations by qualified engineers.
- The service engineer is only permitted to connect the appliance to the prepared connection points.

3.3 Water connection

Connect the appliance using the water hose to an easily accessible aeration tap that can be closed quickly if problems arise. The minimum water pressure may not be under 0,2 Bar (at 5L/min. flow pressure)

The appliance can only be connected to a cold water outlet.

3.3.1 Water treatment

You are emphatically advised to use a water softener and/or a water filter if the water contains too much chlorine or is too hard (>8°dH). This enhances the quality of the drink and precludes having to descale the appliance too often.

3.4 Water drainage

Connect the overflow connection to the open connection with a drain (syphon) in such a way that the excess water can be drained in case of a malfunction or maintenance.

3.5 Electrical connection

WARNING ⚠

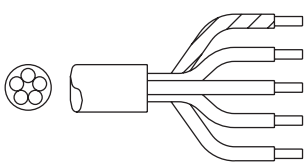
- Supply voltages and frequencies can differ between countries. Check if the appliance is suitable for connection to the local power mains. Check if the details on the type plate correspond.

The earthed wall socket and the fused group with a main switch belong to the electrical installation. No heavy machines that could cause variations in power when being switched on, can be connected to this group.
A machine with power current (three phase) is delivered from the factory without plug. At delivery, the machine must be provided with an electrically suitable plug as advised and provided by the installer.

- (fig. 3) In case of 3N~ 400V (5-core cable).
- (fig. 4) In case of 3~ 230V (4-core cable).
- (fig. 5) In case of 1N~ 230V (3-core cable).

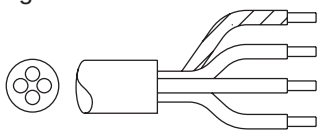
The following points should be observed when wiring a new plug:

1. The green/yellow-coloured wire ("EARTH") should be connected to the terminal which is either marked with the letter "E", the "earth" symbol (⏚), or coloured green or green/yellow.
2. The blue-coloured wire ("NEUTRAL") should be connected to the terminal which is either marked with the letter "N" or coloured black.
3. The brown-coloured wire ("PHASE") should be connected to the terminal which is either marked with the letter "L1, L2 and L3" or coloured red.



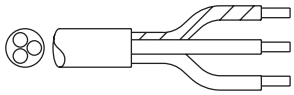
Green/Yellow	-	Earth	(E)
Blue	-	Neutral	(N)
Brown	-	Live	(L1)
Black	-	Live	(L2)
Black	-	Live	(L3)

fig. 3



Green/Yellow	-	Earth	(E)
Brown	-	Live	(L1)
Black	-	Live	(L2)
Black	-	Live	(L3)

fig. 4



Green/Yellow	-	Earth	(E)
Blue	-	Neutral	(N)
Brown	-	Live	(L)

fig. 5

3.6 Connection on a counter

1. Connect the machine at counter level and on a solid flat surface.
2. Before the connections are made, check whether the main voltage corresponds to the voltage indicated on the type plate.
3. Determine the position of the machine on the counter.
4. If necessary, make the transits on the counter for electricity, water and drainage, see fig. 3 for measurements.
5. Mount the supplied centering shoulders on the base plate.
6. Connect the electricity supply, cold water supply and the overflow.
7. Place the drip tray in front of the machine.
8. Place the containers against the centring shoulders, place the coffee blenders into the containers and put the filter units on the containers.
9. Connect the container(s) by using the supplied short (60 cm) connection cable and put the mains plug from the relevant column in the mains socket.
10. Position the swivel arm over the centre of the filter.

The supplier cannot be held liable for any consequences arising from failure during installation of the appliance according to the instructions.

4. FIRST TIME USE

The instructions given in chapter 3-INSTALLATION must be carried out before the new appliance can be put into operation. This appliance may only be used in combination with the supplied coffee container(s) and synthetic filter(s).

- When used for the first time the appliance works according to the standard factory settings.
  The various settings can be altered by trained, authorized personnel. See chapter 11-OPERATOR MENU.
- This chapter will explain the coffee brewing and hot water system process:
  when the appliance is used for the first time.
  when the appliance has not been used for more than 1 week, for example after a holiday period.

4.1 Flushing the flow heater system

1. Open the water tap and check if the swivel connections are not leaking.
2. Put the cable with inlet plug into the back of the container and insert the plug into the socket of the flow water heater (fig. 1-1).
3. Check if the containers are positioned correctly, with a filter unit (still without coffee), and position the swivel arm above the centre of the filter.
4. Switch the appliance on by putting the ON/OFF switch (fig. 1-2) in position I, the display (fig. 1-6.3) lights up and you will hear a beeping sound. Then the display will indicate the standard choices.
5. Press selection button 2 (fig. 1-6.5) and confirm your choice by pressing the START button (fig. 1-6.8).
   The coffee system starts filling and the brewing process starts. In the display appears the text: **BREWING**.

With the STOP button (fig.1-6.2) the brewing process can be interrupted at any moment. When the water supply stops coming out of the swivel arm, you will hear a beeping sound (1x short). In the display appears the text: **LEAKING**. The leaking time is set as standard to approx. 5 minutes, and its ending is indicated by a beeping sound (3x short).

6. Empty the container with the drainage tap (fig. 1-19).
7. Position the swivel arm above the other filter and follow the above procedure once again if the model is equipped with two containers.
8. Once the container is empty the coffee maker is ready for use.

4.2 Flushing the boiler system

- Switch on temperature indication in display — See 12.5.2 Show temperature (menu 4.1)
- Change temperature — See 12.5.3 Temperature (menu 4.2)
- Switch on the continuous heating function 97+ — See 12.5.3.1 Switch on the continuous heating function 97°C+

WARNING ⚠

- The hot water system steam outlet can be found on the top of the tower. Steam can escape through this opening during normal heating and heating with the continuous heating function (97°C+) switched on! Do not touch the moisture outlet. There is a danger of burning.

1. Press the hot water system on/off button (fig. 1-7.1). The hot water system fills itself automatically, and then heats up. A flashing tap symbol appears in the display.
2. The tap symbol stops flashing when the hot water system is hot enough (90°C).
   The hot water system can be switched off at any moment by pressing the on/off button again (fig. 1-6.1).

The tap symbol disappears from the display and the system will no longer refill or heat up.

3. Draw off approx. 2 litres of water using the no-drip tap (fig. 1-3) and throw it away.
   The hot water system fills itself automatically with fresh water.
4. The boiler system is now ready for use.

4.3 First settings operator menu

The following details are set in the operator menu immediately after being used for the first time.
Please note: The default language setting is English.
To gain access to the operator menu see chapter 11.

System settings (menu 2)

2.0	Language	See 12.3.1
2.1	Time	See 12.3.2
2.2	Date	See 12.3.3

Coffee stettings (menu 3)

3.9	Descale indicator	See 12.4.7
3.10	Coffee dosing	See 12.4.8

Hot water settings (menu 4)

4.3	Descale indicator	See 12.5.4

You can study the remaining operator menu settings later.
The appliance is now ready for use.

5. OPERATING PANEL

5.1 Overview control panel buttons

CAUTION ⚠

- Never press de buttons with a sharp object.
- Protect the controls against dirt and grease.

The control panel contains a number of SOFT buttons and a graphic display. After the operator menu has been activated via a PIN, the selection, start and stop buttons have an extra function besides their basic functions.

Selection buttons (4x)

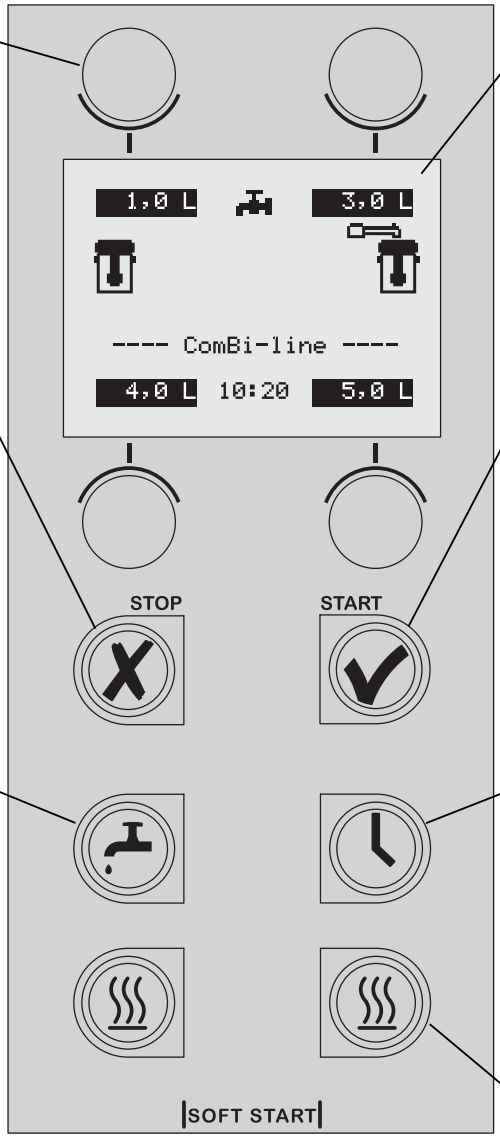
The selection buttons are used to select the standard brewing amount. The chosen amount is confirmed using the display and can be increased or decreased using the same selection buttons, as required.

STOP button

Use the STOP button to cancel a selection or to (emergency) stop a process. An emergency stop results in the process being lost, so it must be executed again. This button can also be used as a cancellation button if the operator menu is activated.

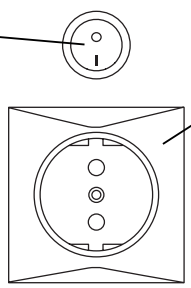
Boiler button

Use the hot water button to switch on the hot water system. After being switched on, a tap symbol appears at the top of the display. The hot water system can be switched off again using the same button.



On/Off-switch

This switch is used to turn the coffee making and hot water systems ON (I) or OFF (0).



Display

The display informs the user about the status of the most important functions of the appliance. The following paragraph informs you about the different pictograms, text and their meanings.

START button

Use the START button to start a brewing process. First choose the brewing amount with one of the selection buttons. This button can also be used as a confirmation button if the operator menu is activated.

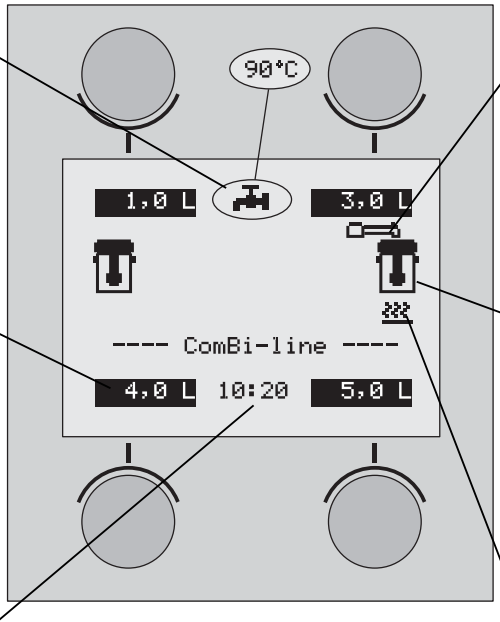
Timer button

Use the timer button to program the brewing process and/or the hot water system for use at a later point of time. §6.1.2.

Container heating buttons (2x)

Use the container heating button to switch the **power sockets** that are on the side of the column ON/OFF. ATTENTION: Only use the power sockets for the container heating, do not connect any other electrical appliances. (Maximum capacity 100W).

5.2 Overview display symbols



Boiler system

The hot water system is switched on. The tap symbol can be replaced by the actual boiler temperature display via the operator menu. §12.5.2.

Brew volume (4x)

Each selection button (4x) displays a pre-programmed brewing amount. The amounts can be set completely as required via the settings menu. §12.4.5.

Clock

Real time indicator

Timer; (flashing)

The timer function is activated.

Scale indicator

One of the systems must be descaled at the first opportunity. Look up 'descaling' in the operator menu.

Swivel arm in position

The swivel arm is in the correct position above a filter. If the swivel arm is moved away the symbol disappears from the display.

Container in position

De coffee container with filter unit is in the correct position. If the container is taken away the symbol disappears from the display.

Container heating

The heating of the coffee container is switched on. If the heating is switched off the symbol disappears from the display.

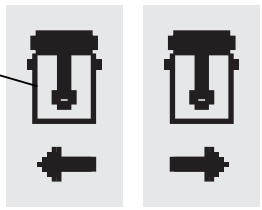
Leaking out

The dripping symbol is displayed if the hot water dosing is stopped and the filter unit is leaking.

5.3 Overview error reporting symbols

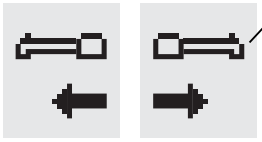
Container position failure

This symbol appears in the display if the coffee container gets out of position during a brewing process. The arrow shows on which side the problem occurs.



Swivel arm not in position

This symbol appears in the display if the swivel arm gets out of position during a making process. The arrow shows on which side the problem occurs.



Swivel arm not in position

for new brewing process

This symbol appears in the display if a brewing process is started and there is (still) no swivel arm in position above the filter unit.

Press START button

This symbol appears after the swivel arm and/or container fault has been resolved. For your own safety the start button must always be pressed again. If this report is responded to within 10 minutes the brewing process will restart and be completed.

If the START button is pressed only after 10 minutes, a cross symbol with a flashing clock appears in order to indicate that the brewing process can no longer be restored and should be considered lost.

6. DAILY USE

This chapter describes the daily use of the appliance by **partly qualified personnel**. When the machine is used for the first time, it works in accordance with the standard factory settings. The different settings can be changed later **by trained, qualified personnel**. See chapter 11-The operator menu for more details.

WARNING ⚠

- Inspect the appliance before using it and check it for damage.
- Never submerge or spray the appliance.
- Do not press the buttons with a sharp object.
- Protect the controls against dirt and grease.
- During use some parts will become very hot.
- Do not position the container on open fire or on a hotplate.
- First disconnect the electric cable before transporting the container.
- It is advisable to take the plug out of the socket and close the water tap if the appliance is not going to be used for longer periods of time.

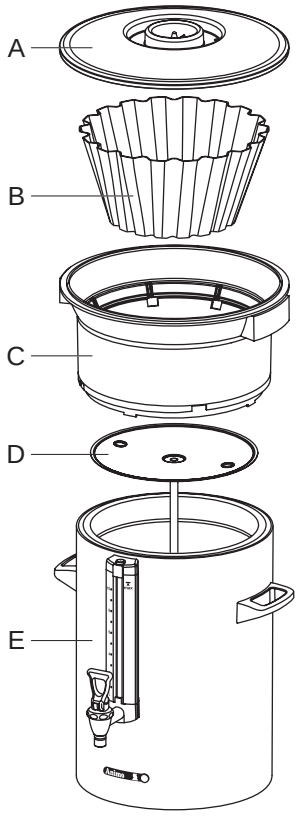
Preparations

- Put the cables with inlet plug into the back of the container (fig. 1.20) and insert the plug into the socket of the flow water heater (fig. 1-1).
- The inner pot of the container must always be fresh and clean.
- Place the coffee blender into the container. The blender guarantees a uniform quality of the coffee, which makes stirring the coffee (with loss of time, temperature and aroma) unnecessary.
  The temperature of the coffee is kept at a temperature of 80-85°C. The storage time of the coffee is determined by the blend of coffee and is usually 1 à 1,5 hours.

Basic rules for brewing coffee

- Use regular ground coffee (±50 gram/liter)
- Keep the inner pot, filter unit and the mixer clean.
- Tip: always keep the basket filter paper in the original packing!
  This means the paper keeps its original (basket) shape.
  This prevents the paper from collapsing or not fitting in the filter.

figure 6
A - Filter lid with water distributor
B - Basket filter paper
C - Basket filter
D - Blender
E - Insulated lid
F - Container



Container + accessories coffee Fig. 6

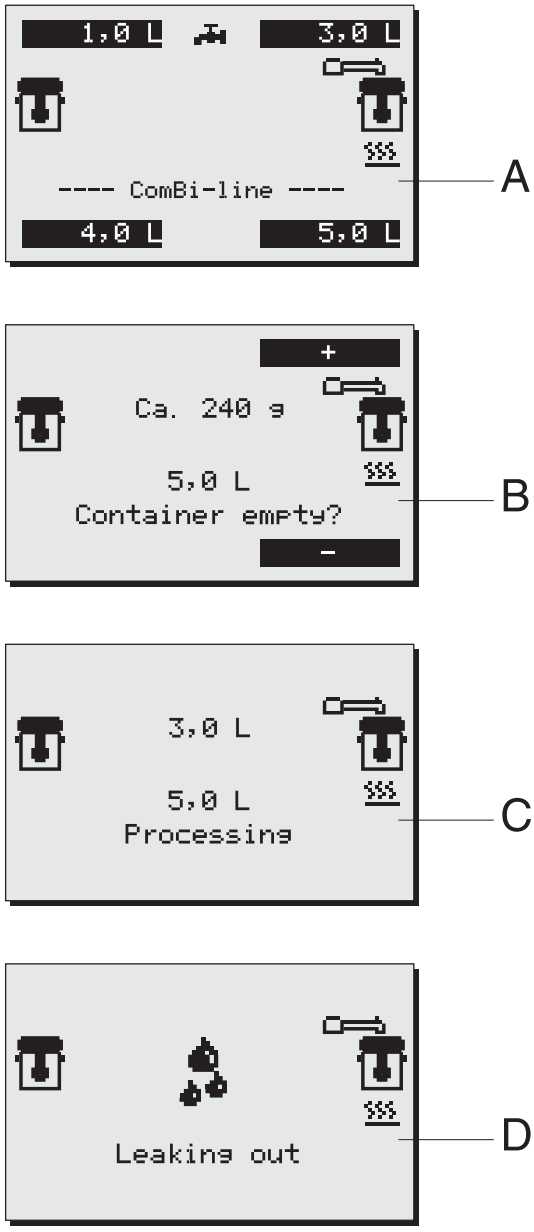
6.1 Brewing coffee

1. Switch on the appliance by putting the ON/OFF switch (fig. 1-2) in position I, the display (fig. 7A) lights up and you will hear a beeping sound (1x short). Then the display indicates the standard brewing amounts.
2. Select one of the four brewing amounts.
3. The selected brewing amount including a recommended coffee dosage appears in the display (fig. 7B).
   Tip: If you do not want the selected brewing amount, you can increase/decrease it with the + or - button.
   The recommended coffee dosage changes accordingly.
4. Place a basket filter paper in the basket filter and fill it with the recommended brewing amount of coffee (standard ground). Spread the coffee evenly in the filter and then put the filter lid on.
5. Place the filter unit on the container and position the swivel arm above the centre of the filter.
6. Press the START button (fig. 1-6.8 to start the brewing process. In the display (fig. 7C) appears the text: **Processing**. The container heating switches on automatically, the heating should be switched off manually (fig. 1-6.10) if the container is empty.
   During the coffee brewing process, the display shows the selected brewing amount (fig. 7C below) and the amount of water already gone through the filter (fig. 7C above).
7. When the water supply stops coming out of the swivel arm you will hear a beeping sound (1x short). In the display (fig. 7D) appears the text: **Leaking out**. The leak out time is set as standard to approx. 5 minutes, and its ending is indicated by a beeping sound (3x short).
8. Remove the synthetic filter after it has been used and put the insulated lid on the container.
9. Clean the synthetic filter.

After the brewing process you can draw off a cup of coffee by using the no-drip tap on the container.

Tip:

- If the swivel arm and/or the container are moved out of position before and/or during the brewing process, the brewing process will stop, a swivel arm and/or container symbol will appear in the display and you will hear a beeping signal (2x short). Once the positioning fault has been resolved the brewing process can be restored by pressing the START button. See 5.3 overview error reporting symbols.
- The brewing process can be interrupted at any moment with the STOP button (fig. 1-6.2).
  The brewing process should then be considered as lost.
- Prepare another brewing process by getting the second synthetic filter ready if required. Once the water supply has stopped coming from the swivel arm, you can position the swivel arm above the other filter and start a new brewing process immediately. The dripping symbol from the 1st container will then disappear.



Brewing coffee Fig. 7

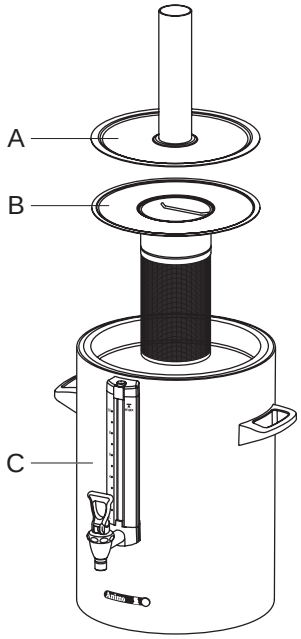
6.1.1 Brewing tea

For the preparation of tea you can follow the same steps as the ones described for the coffee brewing process.
However, instead of using a coffee making unit, you should use a tea filter and disk (optional).

1. Put the tea, loose or in bags, in the tea filter, approximately 6 grams per liter.
2. Insert the tea filter into the disk (fig. 8B) already placed in the container.
3. Place the filling pipe (fig. 8A) on the tea filter. Then position the swivel arm over the pipe.
4. Select the brewing quantity and start the brewing process.
5. Remove the pipe and the tea filter after the tea has been made. ATTENTION: the filling pipe and filter are HOT!
6. After brewing put the insulated lid on the container to avoid loss of temperature and taste.
7. Clean the tea filter immediately after use.

Tip:

- The optimum extraction time is minimally 4 minutes and maximally 15 minutes. After more than 15 minutes the flavor of the tea deteriorates.



Container + accessories tea Fig. 8

Figure 8
A - Filling pipe
B - Tea filter with disk
C - Container with lid

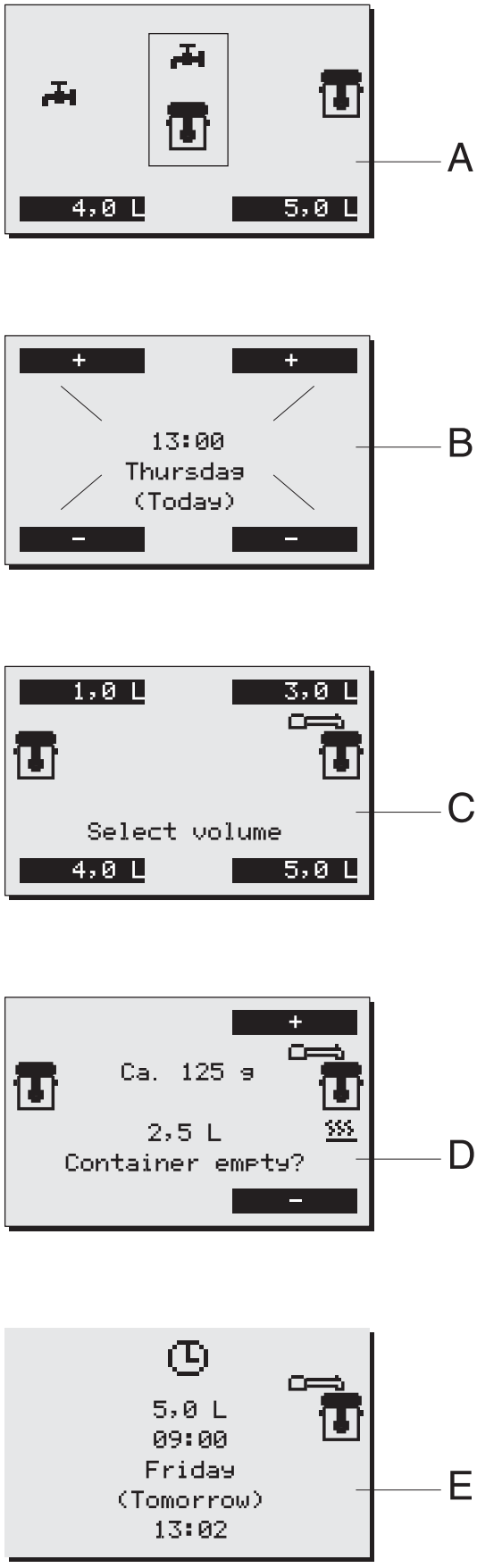
6.1.2 Timer function

The appliance comes with a built-in timer clock as standard. You can use this to start a coffee brewing process and/or hot water system at a certain time.

1. Press the timer button (fig.. 1-6.9). The following possible settings (fig. 9A) appear in the display.
2. Select the system you want to switch on automatically. Use the selection arrows for this. Tap = hot water system. Container = coffee brewing system. Confirm your selection with the START button ✔ .
3. Set the required start time (day/hour/min) with the left and right selection buttons (fig. 9B) and confirm your setting with the START button ✔ . The day automatically moves to the next day when the hour setting goes past 24:00. Confirm your choice with the START button ✔ .
4. Select the required brewing quantity (fig. 9C) and confirm your choice with the START button ✔ (fig. 9D) appears in the display.
5. Place a basket filter paper in the basket filter and fill it with the recommended brewing amount of coffee (standard ground) as shown in the display. Spread the coffee evenly in the filter and put the filter lid on. Then place the filter unit on the container, and position the swivel arm above the centre of the filter.
   Tip: check if the container is empty. Confirm your choice with the START button ✔ .
6. Explanation of the display (fig. 9E):
   Clock symbol (flashing): timer clock is activated
   The brewing quantity, start time and day are displayed.
   Swivel arm/container symbol: The coffee maker is ready.
   Tap symbol: The hot water system is ready.
7. The appliance may NOT be switched off!

Tip

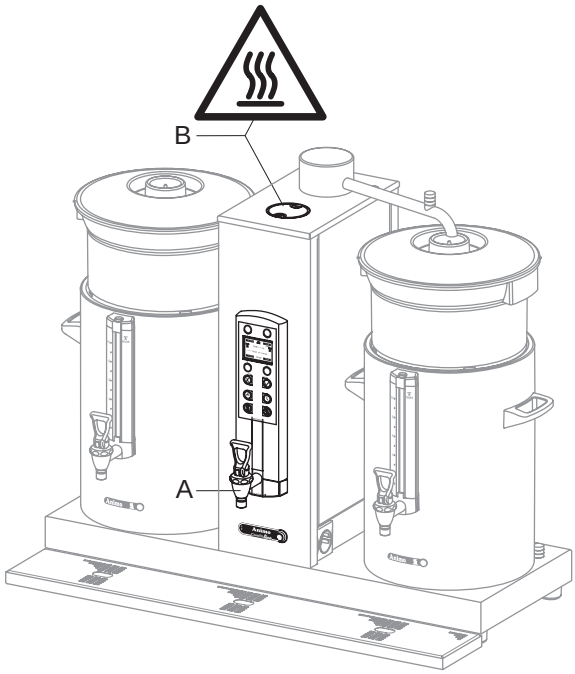
- The timer clock function can only be cancelled by pressing the STOP button ✘ .
- The container heating switches on automatically 5 minutes before the set time (pre-heating).
- The coffee brewing process and hot water system is switched off during an activated timer clock function. The container heating can be used normally, for example, to keep the coffee on the left warm, while on the right the coffee brewing process is pre-programmed.
- The timer can be programmed a maximum of 6 days in advance. This enables you to bridge a long weekend easily.
- The swivel arm and container safety devices remain active. If the swivel arm moves out of position, for example, it is detected immediately and a warning symbol appears in the display followed by a beeping sound (2x short). Once the swivel arm is moved back to the correct position, the timer clock is active again.



Timer display Fig. 9

6.2 Draining off hot water

The appliance comes with a separate hot water system with a no-drip tap (fig. 10A) through which it is possible to draw off hot water during the coffee brewing process.



Hot water system Fig. 10

WARNING ⚠

- The hot water system steam outlet can be found on the top of the column (fig. 10B). Steam can escape through this opening during normal heating and during heating with the continuous heating function (97°C+) switched on! Do not touch the moisture outlet. There is a risk of burning.

1. Press the hot water system on/off button (fig. 11B). The hot water system fills automatically, before heating up. A flashing tap symbol appears in the display (fig. 11A).
2. The tap symbol stops flashing when the hot water system is hot enough.
3. The hot water system is now ready for use.

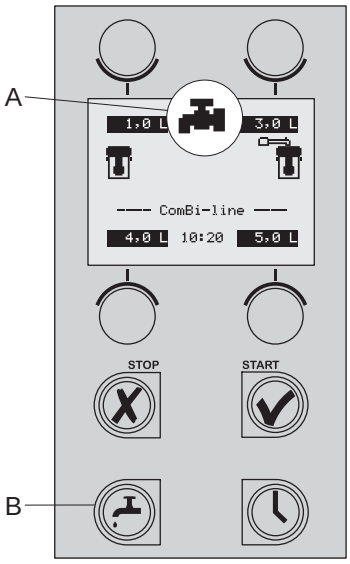
Tip:

- The hot water temperature is set to 90°C as standard.
- The hot water system can be switched off at any moment by pressing the on/off button again (fig. 11B). The tap symbol disappears on the display and the system will no longer refill or heat up.
- If a large amount of hot water is drawn off the boiler fills and heats in charges of approx. 0.75 litres. This means you have (some) hot water again in a short time.

Activating temperature display see 12.5.2
Changing temperature setting see 12.5.3

Tip:

Have you not used the appliance for more than 1 week? If so, use the appliance as described in chapter 4-First time use. After carrying out these actions the whole hot water system has been refreshed. This all contributes to the provision of good quality coffee and/or hot water.



Operating hot water system Fig. 11

7. MAINTENANCE

Chapter 7.1 describes the daily cleaning activities of the appliance that can be carried out **by partly qualified personnel.** Chapter 7.2 describes the periodic descaling activities of the appliance that can only be carried out **by trained, qualified personnel**.

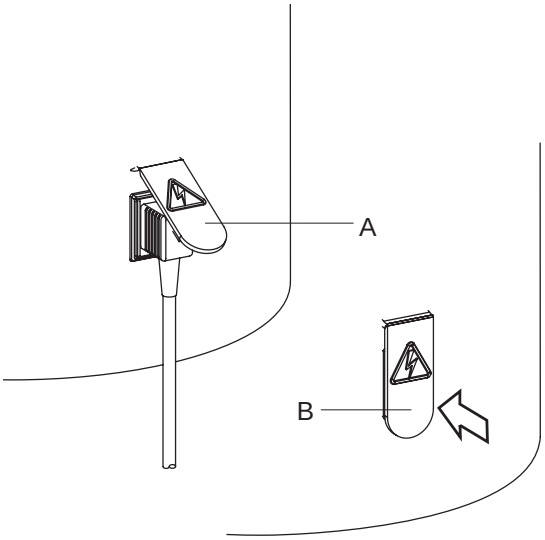
7.1 Cleaning

WARNING ⚠

- Do not leave the appliance unattended when maintenance is being performed.
- Never submerge or spray the appliance.
- The plug must be taken out of the socket if the appliance has to be opened for cleaning or repairs.
- Always follow the manufacturer instructions when using the scale remover.
- When descaling the appliance, it is advisable to wear safety glasses and protective gloves.
- Wash your hands after descaling.

7.1.1 Cleaning general

- The outside of the container can be cleaned with a wet cloth, then wiped dry. Never use any abrasives, as these can cause scratches and dull spots.
- Always take the connection lead out of the multiple socket during cleaning and maintenance activities and close it off with the splash protector (fig. 12B).
  An opened splash protector (fig. 12A) protects the socket connection from moisture running in from above. A closed splash protector protects the multiple socket from dirt and moisture.
- Attention! Do not place the container type CNe (electrical execution) in the dish washer or sink.
- The container type CNi (insulated execution) is allowed to be cleaned in the dish washer or sink, because of its IP 65 construction.
- Do not leave the filter and the blender on a container which is not in use. Place the lid obilique on the container, otherwise a stale taste may be the result.
- Always leave some clean water (2 cups) in the container, This stops the washers from drying out.



Electrical connection container Fig. 12

7.1.2 Cleaning daily

- Rinse the inner pot of the container after use with hot water, or use if necessary Animo coffee fur remover. Empty the container with the no-drip tap.
- The filter, water distributor lid, blender and drip tray can be washed normally and rinsed clean. The filter and water distributor lid are allowed to be cleaned in the dishwasher.
- Despite daily cleaning coffee deposits can still remain in the inner pot and the gauge glass, see chapter 7.1.3 until 7.1.5.

7.1.3 Cleaning weekly

A sachet of coffee fur remover is supplied with the machine.
Use is extremely simple.

Removal of coffee deposits from the inner pot.

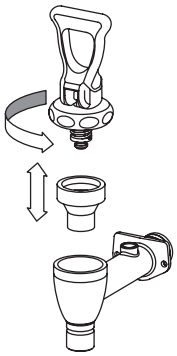
1. Fill half of the container with warm water and dissolve a sachet of coffee fur remover in it.
2. Let the solution work for 15 to 30 minutes, then empty the container.
3. Rinse the container thoroughly with hot water a few times.

Removal of coffee deposits from the other parts.

1. Take a bowl filled with abt. 5 liter warm water and dissolve the coffee fur remover solvent from the sachet in it.
2. Put the parts that need to be cleaned in the bowl and soak them for 15 to 30 minutes.
3. Rinse several times with warm water. Repeat treatment if the result is insufficient.
4. Scatter coffee fur remover on very filthy spots and clean with a wet brush.

7.1.4 Cleaning the tap

1. Unscrew the top of the tap by turning it to the left.
2. Pull the silicon sealer vertically away from the screw top.
3. Put the parts to be cleaned in this solution and let it work for 15 to 30 minutes.
4. Then rinse off several times with warm water and put back together in reverse order, repeat if the results are insufficient.



Cleaning tap Fig. 13

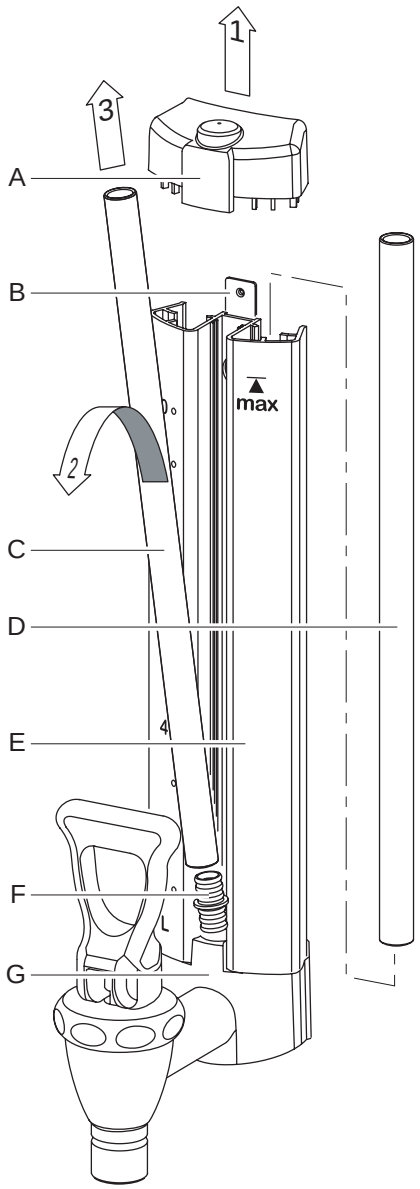
7.1.5 Cleaning the gauge glass

WARNING ⚠

- Risk of burning! Empty the container before you remove the gauge glass for cleaning.
- Always treat the gauge glass with the necessary caution. Take the glass out of the protector with the help of a dry cloth and hold the gauge glass firmly with the cloth as you clean it with the gauge glass brush.

1. Empty the container, remove the filter and the coffee blender.
2. Take the gauge glass lid (fig. 14A) off by pulling it vertically up from the protector profile.
3. Take a dry cloth, and use it to take the top of the gauge glass (fig. 14C) from the recess and pull the gauge glass carefully diagonally up out of and loose from the tap connection.
4. Remove the bottom tulle (fig. 14F) from the gauge glass and clean the gauge glass with the help of the supplied gauge glass brush. (careful fragile!)
5. Moisten the gauge glass ends + tulle and put the tulle back in the glass and push the gauge glass into the tap connection with the tulle (fig. 14G).
6. Always put the gauge glass lid (fig. 14A) vertically on the protector profile, push the top tulle with the index finger (in the middle of the gauge glass lid).
   Please note: make sure that the gauge glass lid stays firmly pushed against the container wall when placing it. Only then the gauge glass will stay well. (The lip in the gauge glass lid (fig. 14A) must be behind the holding plate (fig. 14B).

Tip: On the inside of the gauge glass protector is a spare gauge glass (fig. 14D). The assembly of the gauge glass system is much easier if you moisten the gauge glass ends and tulles well.



Cleaning gauge glass Fig. 14

figure 14
A - Gauge glass lid
B - Holding plate
C - Gauge glass
D - Extra gauge glass
E - Protector profile
F - Lower tulle
G - Tap cap

7.2 Periodic descaling activities

This chapter describes the periodic descaling activities of the machine that can only be executed by **trained, qualified personnel**.

WARNING ⚠

- Observe the descaling intervals indicated by the descaling indicator symbol.
- Overdue maintenance to the heating system can result in high repair costs and annulment of the guarantee.
- Always follow the manufacturer instructions when using the scale remover.
- Do not leave the appliance unattended when maintenance is being performed.
- When descaling the appliance, it is advisable to wear safety glasses and protective gloves.
- Wash your hands after descaling.

7.2.1 Descaling the coffee maker

After entering the Operator PIN you have access to the descaling menu where you can start the descaling program for the coffee maker. Follow the descaling procedure as described in chapter 12.2.2 of the operator menu.

7.2.2 Descaling the hot water system

After entering the Operator PIN you have access to the descaling menu where you can start the descaling program for the hot water system. Follow the descaling procedure as described in chapter 12.2.4 of the operator menu.

8. TEMPERATURE PROTECTION

There are two temperature protections in the unit that can be accessed from the outside.
These can be found at the left and right side of the appliance (fig. 1-8 & 1-14). The protection at the left (fig. 1-8) belongs to the flow water heater, the right one (fig. 1-14) belongs to the hot water system. These protections switch off the corresponding parts when the temperatures rise too high. The most common cause for switching off is scale that has not been removed in time. If the temperature protection operates proceed as follows:

1. Let the unit cool down.
2. Unscrew the black protection cover.
3. Push the button that now appears and replace the black cover tightly.

When the protection was triggered due to scale formation, then proceed according to section 7.2.
When scale formation was not the cause, then contact your dealer.

9. TRANSPORT

If the machine has to be transported, the water reservoirs must be emptied.

1. Switch the appliance off and remove the plug from the wall socket.
2. Remove the plugs from the containers and remove the containers.
3. Close the water outlet tap and disconnect the supply and overflow hoses.
4. Take the drain hose tap (fig. 1-22) out of the underside of the base plate, to drain the flow heater system completely, then close it off again. (Attention: the water can still be hot!).
5. Take the drain hose tap (fig. 1-23) out of the underside of the base plate, to drain the hot water reservoir completely, then close it off again. (Attention: the water can still be hot!).
6. The unit is now ready for (upright) transportation.
7. Proceed with section 3-INSTALLATION to reinstall the appliance.

10. CONSUMER ARTICLES AND ACCESSORIES

See the list below for the consumer articles and accessories available for the appliance. You can order these parts at your dealer, stating the details of the appliance given on the type plate, a description of the item, article number and quantity.

Consumer articles and accessories

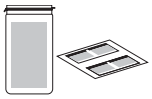
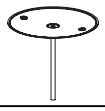
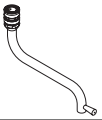
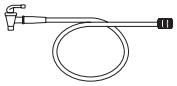
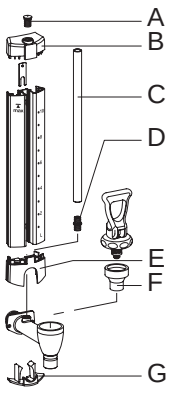
	Description		Art.No.
	**Coffee fur remover**	per box (100 sachets of 10 gram)	49009
		per can of 1Kg	00008
	Scale remover	per box (48 sachets of 50 gram)	49007
		per can of 1Kg	00009
	**Combi filter**	Container CN5e	99238
		Container CN10e	99239
		Container CN20e	99240
	**Coffee blender**	Container CN5e	56004
		Container CN10e	96001
		Container CN20e	56010
	**Basket filter paper**	101/317 - container CN5e	01115
		152/457 - container CN10e	01116
		203/533 - container CN20e	01117
	**Tea filter with disk**	Container CN5e	57003
		Container CN10e	57005
		Container CN20e	57011
	**Filling pipe**	Container CN5e	17018
		Container CN10e	17019
		Container CN20e	17020
	**S-swivelarm**	With *"Click it"* connection for use on no-drip tap ComBi-line.	99497
	**Container tube**		99499
	**Gauge glass brush**		08094
	**A - Upper tulle**		04280
	B - Upper gauge glass cap		07954
	C - Gauge glass 5 litre		12884
	Gauge glass 10 litre		12885
	Gauge glass 20 litre		12886
	D - Lower tulle		04279
	E - Tap cap		07953
	F - Seat cup		04034
	G - Under part gauge glass cap		07967
	Cable + plug 1,5m		03072
	Cable + plug 0,6m		03071

TABLE OF CONTENTS

11. THE OPERATOR MENU

This chapter describes how the different settings can be changed by trained, qualified personnel. To gain access to the operator menu, read below. Once in the operator menu the control panel has the following functions:

Button △ selection arrow ➡ up

Button ▽ selection arrow ➡ down

Button ⊗ back (without saving changes)

Button ✓ accept (activate)

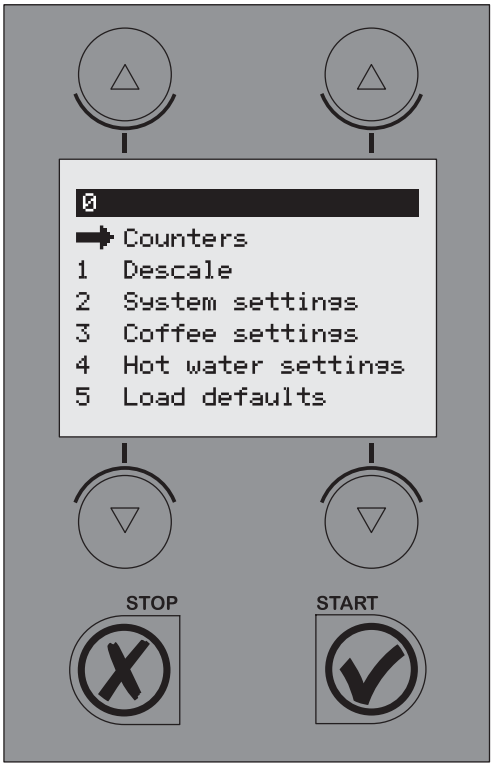
11.1 Menu functions

You have the possibility of changing settings and have access to a number of maintenance functions via the operator menu. It is possible to select the following functions:

Menu	Explanation of Operator menu	
0	Counters	see 12.1
1	Descaling	see 12.2
2	System settings	see 12.3
3	Coffee settings	see 12.4
4	Hot water settings	see 12.5
5	Load defaults	see 12.6

How do you get access to the operator menu?

1. Switch the appliance off (0)
2. Hold the START button (fig. 1-6.8) and switch on (I) the ON / OFF switch (fig. 1-2).
3. Release the START button when the display lights up. In the display appears: Operator menu. Press any button.
4. Press any button. In the display appears: **Enter PIN:** _ _ _ _ _
5. Look up the associated 5 digit PIN and enter it using the numbered buttons in the display (fig. 1- 6.4 to 1-6.7). Please note: the code number is produced at random, so the PIN is always different!
6. After entering the PIN the Operator menu will light up in the display.



Operator menu Fig. 15

Code no.	PIN				
1	4	2	1	2	2
2	3	3	4	4	3
3	1	4	1	1	3
4	2	4	2	1	2
5	3	3	3	1	3
6	1	4	4	4	1
7	4	1	2	3	1
8	3	4	3	1	4
9	4	2	1	3	4
10	3	3	3	1	4
11	4	2	3	2	2
12	4	3	2	2	2
13	3	2	2	4	4
14	3	3	1	2	4
15	3	4	3	1	2
16	3	4	4	2	4
17	1	4	2	2	4
18	1	3	2	4	4
19	3	3	4	4	1
20	1	4	1	3	4

PIN table operator menu

How can you go through the menu and activate a function?
1. Move the arrow ➡ to the required menu item using the selection buttons ▲ ▼ .
2. You activate the required menu by using the START button ✔ .
3. By pressing the STOP button ✘ you go back to the previous screen without saving the changes made.

How can you confirm a change?
You confirm a change by pressing the START button ✔ . You will hear a short beeping sound.

How can you close the operator menu?
1. Press the STOP button ✘ until the user menu reappears.
2. Check if the changed settings are as required. If the settings are not as required, follow the procedure again.

While you are in the settings menu the appliance will not fill or heat up.

12. SETTINGS STEP BY STEP

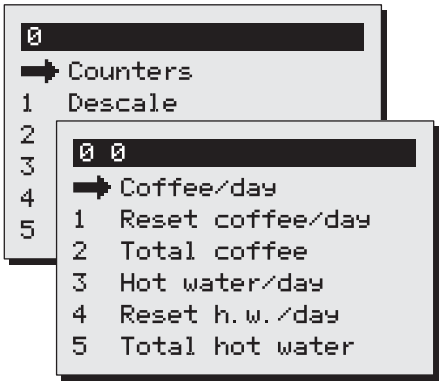
12.1 Counters (Menu 0)

PIN ➡ Counters ➡ then select counter item

An overview of all counter functions follows in the display. At the top of the display is a navigation bar on which the selected menu item number is shown.

Menu	Explanation of Counter items
0.0	Daily counter of coffee made in litres
0.1	Reset daily counter of coffee made
0.2	Total counter of coffee made in litres
0.3	Daily counter of used hot water in litres
0.4	Reset daily counter of used hot water
0.5	Total counter of used hot water in litres

1. Select the required counter, and confirm with the START button ✔ .
2. Read the counter reading or reset the counter as required.



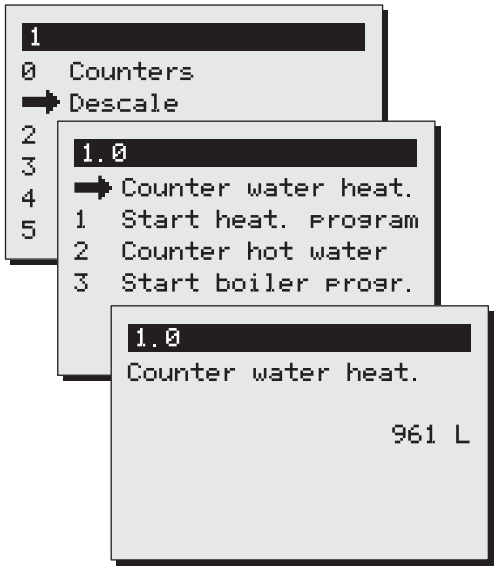
Counter menu Fig. 16

12.2 Descaling (Menu 1)

PIN ➡ Descaling ➡ then select function

An overview of all descaling functions follows in the display. At the top of the display is a navigation bar on which the selected menu function number is shown.

Menu	Explanation of Descaling items:	
1.0	Flow counter	see 12.2.1
1.1	Start flow counter program	see 12.2.2
1.2	Hot water counter	see 12.2.3
1.3	Start hot water program	see 12.2.4



Descaling menu Fig. 17

12.2.1. Flow counter (menu 1.0)

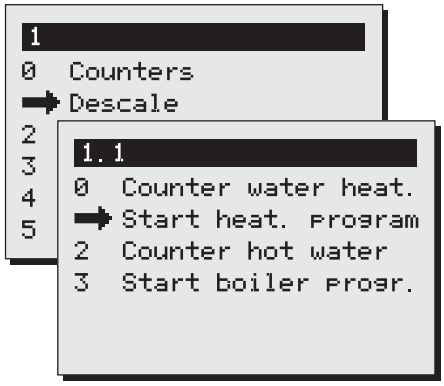
After activating the flow counter you can read how many litres away from a descaling signal the coffee maker is. Example: The diagram opposite indicates that the coffee making part (flow system) is still 961 litres away from a descaling signal. The counters are automatically reset after the relevant descaling program has been run.

WARNING ⚠

- Respect the descaling intervals indicated by the descale indicator symbol.
- Delaying maintenance of the heating system can lead to high repair costs and can invalidate the guarantee.
- When descaling, always pay attention to the directions on the scale remover.
- Keep up with the maintenance requirements for the appliance
- It is advisable to wear safety glasses and protective gloves when descaling.
- Wash your hands thoroughly after descaling.
- All repairs should be carried out by a trained, competent service engineer.
- The plug must always be pulled out of the power socket whenever the appliance has to be opened for repairs and other (cleaning) purposes.

12.2.2 Starting the coffee maker descaling program (Menu 1.1)

This is where you start the descaling program for the coffee maker.

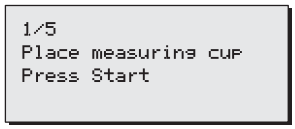


Start descaling program coffee maker Fig. 18

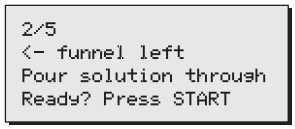
Preparation

- Move the swivel arm above an empty container and synthetic filter.
- Brew the smalles brewing amount (without coffee) once. The advantage of this is that the element is well preheated, so that descaling is better and takes less time.
- Carefully read the caution notice and the directions on the sachet Animo scale remover.
- Dissolve 2 sachets of 50 gram Animo scale remover into 2 litre of warm water (60°C). Stir the solution thoroughly so that the powder is completely dissolved.
- Remove the filter and place a plastic container under the outlet of the swivel arm to collect the scale remover.
- Follow the instructions shown on the display and confirm each action with ✔ .

Stopping the program?
The program can be cancelled at any time until the solution is poured in. Once the solution has been poured in, the program must always be completed. In case of an emergency stop, the STOP button ✘ can always be used. The program will then stop, but not be finished.

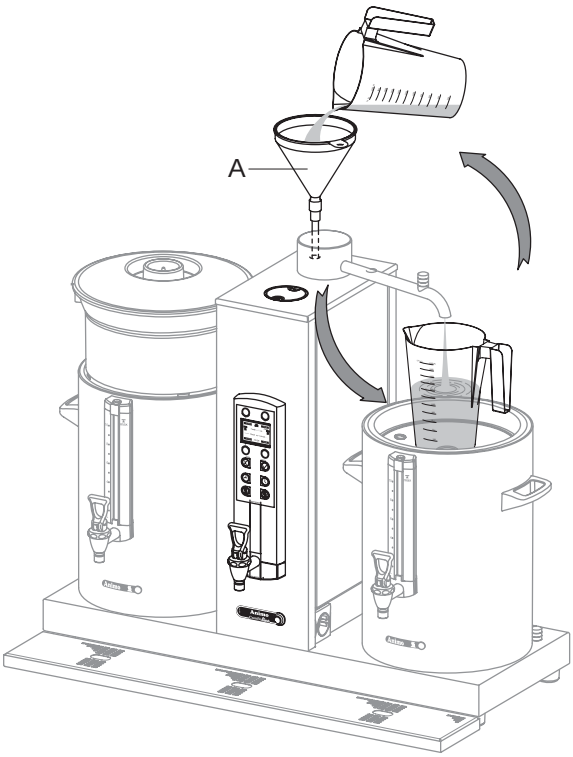


Display: *1/5 Place measuring cup. Press start* ✔ .
Once the container is empty press the START button ✔ .



Display: *2/5 <- funnel left. Pour solution through. Ready? Press start* ✔ .

- Remove the cap from the descaling opening left of the swivel arm (fig. 1-10).
- Insert the descaling funnel (fig. 19A) into the descaling opening. Push the funnel downward as far as possible.
- Slowly pour the scale remover into the funnel. The scale remover will enter the boiler element by the supply pipe and will come out of the swivel arm as foam.
- The descaling solution can be poured into the funnel a second time after it has been collected in the plastic container. As long as the scale remover comes out of the swivel arm foamingly, there are scales deposits in the appliance. Repeat the procedure described above with a new solution until no more foam comes out of the swivel arm.
- Press the *START button* ✔ to continue the programm.



Descaling procedure Fig. 19

Display: *2/5 Place filter. Press Start* ✔ *.*

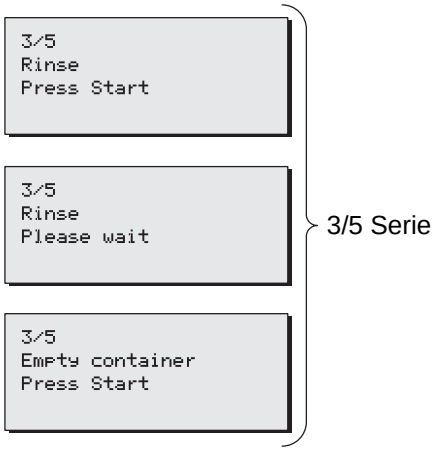
The program is now ready to flush the system 3 times, so that the remaining scale remover can be removed from the heating system.
Remove the funnel and replace the cap.
Remove the plastic container with the collected scale remover and replace the filter.

Display: *3/5 Rinse. Press Start* ✔ .
Press the START button ✔ to start the 1st rins cycle.

Display: *3/5 Rinse. Please wait.*

The coffee maker will heat up.
The container will be filled with 2 litres.
There will be 3 beeping signals after the 1st rinsing cycle

Display: *3/5 Empty container. Press Start* ✔ .
Once the container is empty press the START button ✔ .

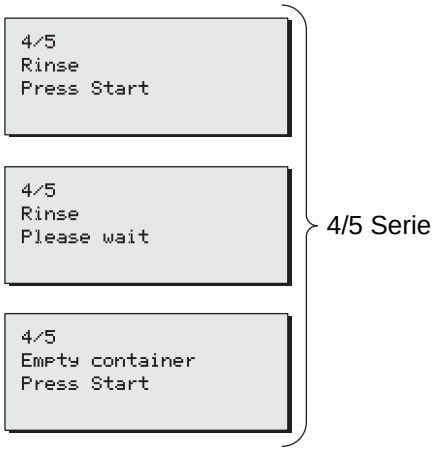


Display: *4/5 Rinse. Press Start* ✔ .
Press the START button ✔ to start the 2nd rinsing cycle.

Display: *4/5 Rinse. Please wait.*

The coffee maker will heat up.
The container will be filled with 2 litres.
There will be 2 beeping signals after the 2nd rinsing cycle.

Display: *4/5 Empty container. Press Start* ✔ .
Once the container is empty press the START button ✔ .

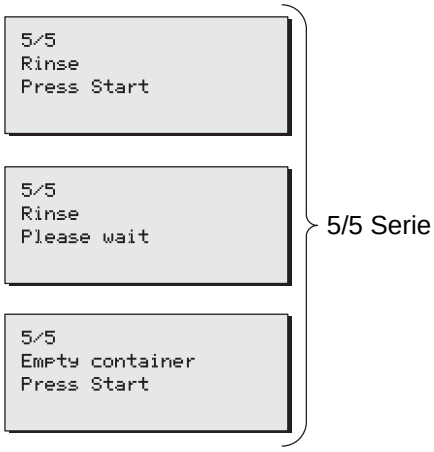


Display: *5/5 Rinse. Press Start* ✔ .
Press the START button ✔ to start the 3rd rinsing cycle.

Display: 5/5 *Rinse. Please wait.*

The coffee maker will heat up.
The container will be filled with 2 litres.
There will be 3 beeping signals after the 3rd rinsing cycle.

Display: *5/5 Empty container. Press Start* ✔ .
Once the container is empty press the START button ✔ .



The descaling program is now complete and the descaling menu will reappear in the display. The flow counter will automatically be reset to the starting value. Exit the menu by pressing the STOP button twice, or select another menu function.

12.2.3 Hot water counter (menu 1.2)

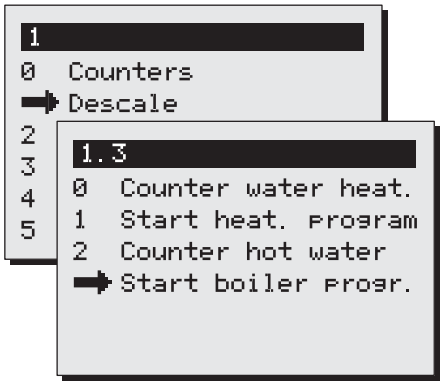
After activating the hot water counter 1.2 you can read how many litres away from a hot water signal the coffee maker is.

12.2.4 Start descaling program for hot water system (Menu 1.3)

This is where you start the descaling program for the hot water system.

Preparation

- Read the warnings and user guide on the sachets of the Animo scale remover first.
- Dissolve 2 x 50g sachets of Animo scale remover in 1 litre of warm water (60°C). Stir the solution thoroughly so that the powder is completely dissolved.
- Follow the instructions shown on the display and confirm each action with ✔ .



Start descaling program hot water system Fig. 20

WARNING ⚠

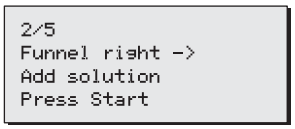
- The hot water system must be drained completely empty a number of times during the descaling procedure. Use the drainage hose from under the foot plate for this (fig. 1-23). If necessary turn the furthest away closing tap open carefully and let water run in to one bucket. **Careful; the water is hot!**

Display: *1/5 Empt boiler. Press Start.*

Empty the boiler with the hot water drainage tap (fig. 1-3). Drain the remaining water off with the drainage hose (fig. 1-23), the boiler is now completely empty. Once the boiler is empty press the START button ✔ . (if a double beeping signal sounds the boiler is not completely empty).

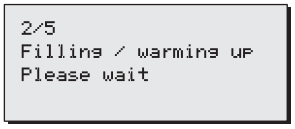
Display: *2/5 Funnel right -> Add solution. Press Start.*

Remove the cap from the opening on the right, next to the swivel arm (fig. 1-11). Place the supplied funnel in the opening and pour the descaling solution slowly in the funnel. Once all the descaling solution has been poured, press the START button ✔ .

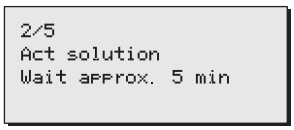


Display: *2/5 Filling / heating up. Please wait.*

The boiler fills and heats up, the descaling solution is distributed. When the boiler has reached a certain temperature a beeping signal sounds.



Display: *2/5 Act solution. Wait approx. 5 min.*

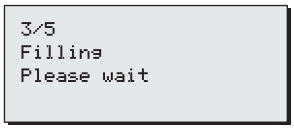


It now takes about 5 minutes for the descaling solution to take effect on the limescale. When the waiting period is over, 3 beeping signals will sound. The program is now ready to be rinsed through 3 times so that the residue from the descaling solution can be removed from the boiler.

Display: *2/5 Empty boiler. Press Start.*

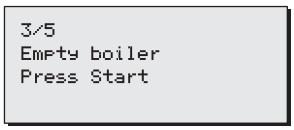
Empty the boiler with the hot water drainage tap (fig. 1-3). Drain the remaining water off with the drainage hose (fig. 1-23).The boiler is now completely empty.
Press the START button ✔ to start the 1st rinsing cycle.
If a double beeping signal sounds the boiler is not completely empty.

Display: *3/5 Filling. Please wait.*



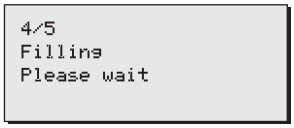
The boiler is filled completely, without heating up.
There will be 3 beeping signals after the 1st rinsing cycle.

Display: *3/5 Empty boiler. Press Start.*



Empty the boiler with the hot water drainage tap (fig. 1-3). Drain the remaining water off with the drainage hose (fig. 1-23).The boiler is now completely empty.
Press the START button ✔ to start the 2nd rinsing cycle.

Display: *4/5 Filling. Please wait.*

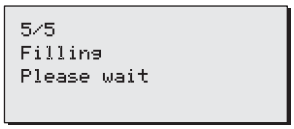


The boiler is filled completely, without heating up.
There will be 3 beeping signals after the 2nd rinsing cycle

Display: *4/5 Empty boiler. Press Start.*

Empty the boiler with the hot water drainage tap (fig. 1-3). Drain the remaining water off with the drainage hose (fig. 1-23).The boiler is now completely empty.
Press the START button ✔ to start the 3rd rinsing cycle.

Display: *5/5 Filling. Please wait.*



The boiler is filled completely, without heating up. There will be 3 beeping signals after the 3rd (and final) rinsing cycle

Display: 5*/5 Empty boiler. Press Start.*

Empty the boiler with the hot water drainage tap (fig. 1-3). Drain the remaining water off with the drainage hose (fig. 1-23).The boiler is now completely empty.
Press the START button ✔ to start the 3rd rinsing cycle.

The descaling program is now complete and the descaling menu will reappear in the display. The flow counter will automatically be reset to the starting value. Exit the menu by pressing the stop button twice, or select another menu function.

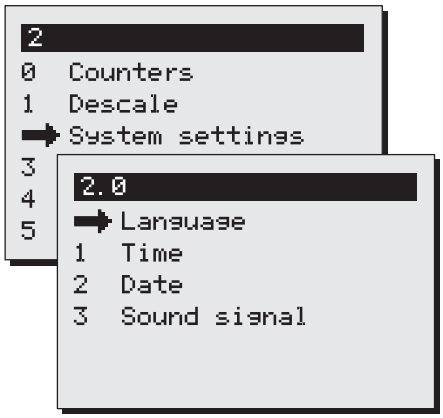
The hot water system is completely empty after the descaling, bring the system back into use by switching on the hot water button on the control panel.

12.3 System settings (Menu 2)

PIN ➡ System settings ➡ then select function

An overview of all system settings follows in the display.
At the top of the display is a navigation bar on which the selected menu function number is shown.

Menu	Explanation of System settings items:	
2.0	Language	see 12.3.1
2.1	Time	see 12.3.2
2.2	Date	see 12.3.3
2.3	Sound signal	see 12.3.4

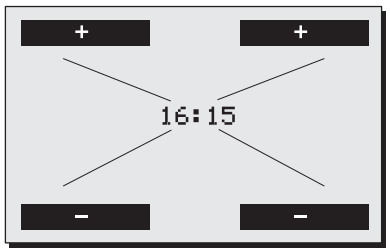


12.3.1 Language (Menu 2.0)

Before using the appliance you must first set the desired language. To select languages see fig. 21. The default language setting is English. Select the required language, and confirm your changes with the START button ✔ .
Tip!: If Menu 5 Load defaults is activated, the altered language choices will remain unchanged.

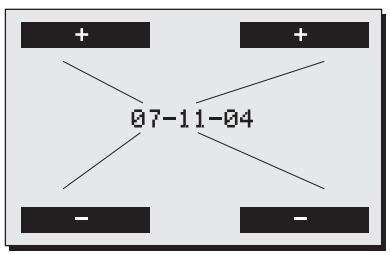
12.3.2 Time (Menu 2.1)

Before using the appliance you must first set the time.
See fig. 21. Use the left selection button to set the hour
Use the right selection button to set the minutes.
Confirm your changes with the START button ✔ .



12.3.3 Date (Menu 2.2)

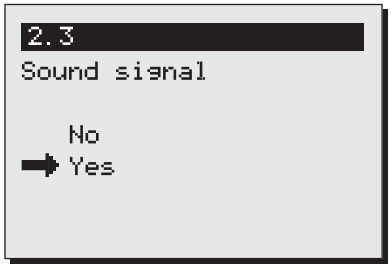
Before using the appliance you must first set the date.
See fig. 21. Use the left selection button to set the day
Use the right selection button to set the month.
The year count changes automatically every 12 months.
Confirm your changes with the START button ✔ .



Systemsettings Fig. 21
Language / Time / Date

12.3.4 Sound signal (Menu 2.3)

When in use the appliance makes different sound signals. You can switch the sound signals off if desired. See fig. 22. Select the required choice and confirm your changes with the START button ✔ .



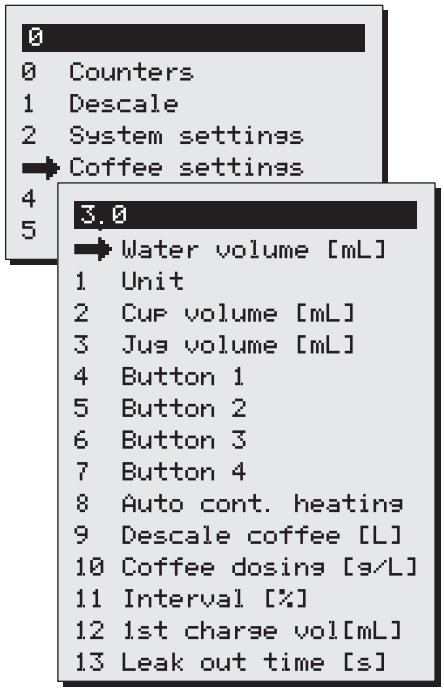
System settings sound signal Fig. 22

12.4 Coffee settings (Menu 3)

PIN ➡ Coffee settings ➡ then select function

An overview of all coffee settings follows in the display. At the top of the display is a navigation bar on which the selected menu function number is shown.

Menu	Explanation of coffee settings items:	
3.0	Water volume	see 12.4.1
3.1	Unit	see 12.4.2
3.2	Cup volume	see 12.4.3
3.3	Mug volume	see 12.4.4
3.4	Button 1	see 12.4.5
3.5	Button 2	
3.6	Button 3	
3.7	Button 4	
3.8	Auto container heating	see 12.4.6
3.9	Descale indicator	see 12.4.7
3.10	Coffee dosage	see 12.4.8
3.11	Interval	see 12.4.9
3.12	1st charge volume	see 12.4.10
3.13	Leak out time	see 12.4.11

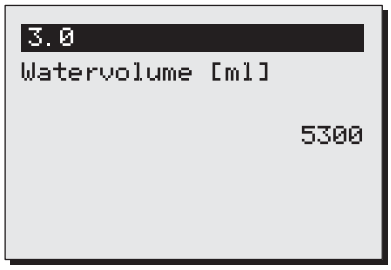


Coffee settings Fig. 23

12.4.1 Water volume (Menu 3.0)

WARNING ⚠

- The container will overflow if too large an amount is set.
- The manufacturer accepts no responsibility for the consequences of changed settings.



Change volume of water Fig. 24

During use, it can occur that the quantity of water in the container is not as required. This depends on the amount of coffee and the size of coffee ground used. The amount of water that comes out of the swivel arm is set to 6% - 10% extra water as standard. Table 1 shows the settings scope.

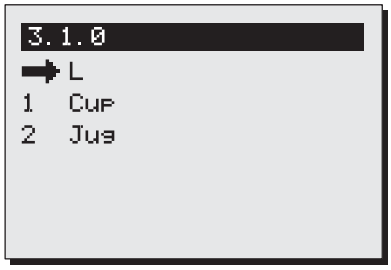
Model	Factory-settings	Settings
CB 5W	5.300 ml	4.800-5.800 ml
CB 10W	10.800 ml	9.800-11.800 ml
CB 20W	22.000 ml	20.000-24.000 ml

Table 1. *Water volume*

Increase or decrease the water volume [ml] with the selection buttons above and below the display.
Confirm the changes made with START button ✔ or go back without making any changes by pressing the STOP button ✘ .

12.4.2 Unit (Menu 3.1)

You can change the unit in which the selection buttons are shown in the display with this function.The unit can be set as Litres (standard), Jug or Cup.



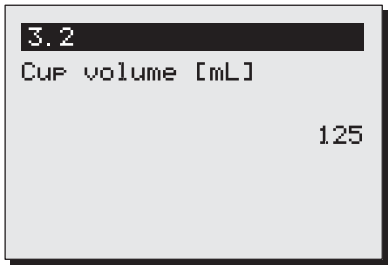
Unit Fig. 25

Select the required unit and confirm your changes with the START button ✔ or go back without saving any changes using the STOP button ✘ .

Please note: The counter menu continues to be displayed in litres.

12.4.3 Cup volume (Menu 3.2)

You can change the volume of the cup with this function.
The cup volume is set to 125 ml as standard
The settings scope is between 100 and 500 ml (1 ml steps).



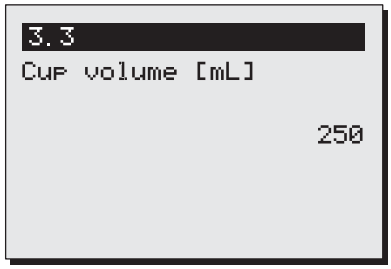
Change cup volume Fig. 26

Set the required cup volume and confirm your changes with the START button ✔ or go back without saving any changes by pressing the STOP button ✘ .

12.4.4 Jug volume (Menu 3.3)

You can change the volume of the jug with this function.
The jug volume is set to 250 ml as standard
The settings scope is between 200 and 2500 ml (1 ml steps).

Set the required jug volume and confirm your changes with the START button ✔ or go back without saving any changes by pressing the STOP button ✘ .



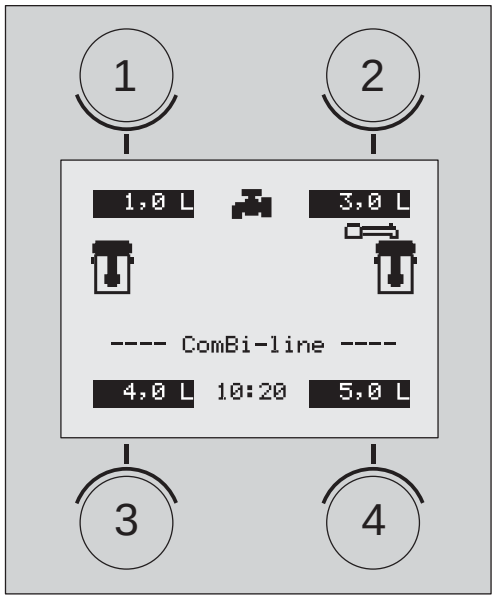
Change cup volume Fig. 27

12.4.5 Changing the selection buttons (menu 3.4 until 3.7)

You can set each selection button as required with this function. The four selection buttons (fig. 28) are set in the factory as shown in the overview below (Table 2).
With the help of **Buttons 1 to 4** (menu 3.4 to 3.7), the choice can be set within the scope with associated step size indicated in the table below.

Model	Factory settings	Settings scope	Step
CB 5W	1-3-4-5 litre	1- 5 litre	0,5 l
CB 10W	2,5-5-7,5-10	2- 10 litre	0,5 l
CB 20W	5-10-15-20	4- 20 litre	1 l

Table 2. *Selection buttons unit litres*



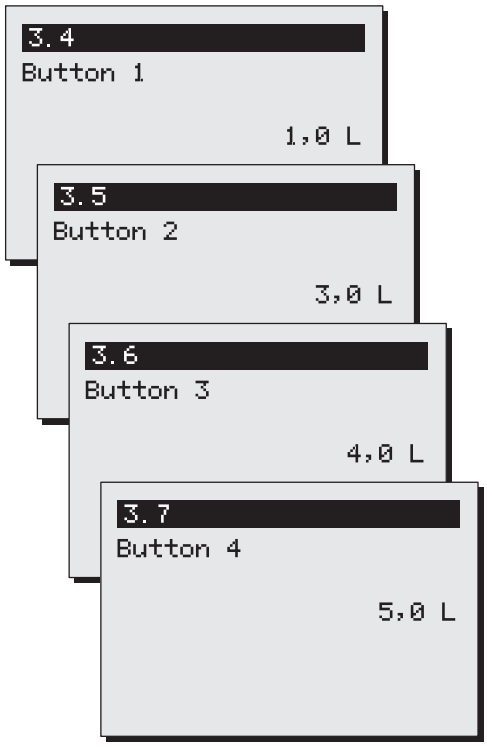
Changing the Selection Fig. 28

Set the required amount for button 1 and confirm your changes with the START button ✔ or go back without saving any changes by pressing the STOP button ✘ . Repeat this for buttons 2 to 4.

Have you changed the unit of Litres to Cup or Jug?
The litre setting is automatically calculated by the relevant litre setting divided by the cup or jug volume. The four selection buttons then automatically have the settings as shown in the following overview (Table 3 + 4) Each selection button within the settings scope and associated step size can be set with the help of the menu buttons 3.4 to 3.7.

Model	Factory settings	Settings scope cup = 125 ml	Step
CB 5W	8-24-32-40	8- 40 cups	1 cup
CB 10W	20-40-60-80	16-80 cups	1 cup
CB 20W	40-80-120-160	32-160 cups	5 cup

Table 3. *Selection buttons unit cups*



Button 1, 2, 3 and 4 Fig. 29

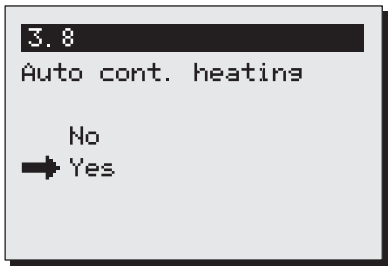
Model	Factory settings	Settings scope jugs = 250 ml	Step
CB 5W	4-12-16-20	4-20 jugs	1 jug
CB 10W	10-20-30-40	8-40 jugs	1 jug
CB 20W	20-40-60-80	16-80 jugs	1 jug

Table 4. *Selection buttons unit jugs*

12.4.6 Switching on the container heating automatically (menu 3.8)

When starting a coffee making process the appliance automatically switches the right container heating on.
The container heater then stays switched on and must always be switched off manually. You can switch this function off if required. See fig. 30.

Select the required choice and confirm your changes with the START button ✔ or go back without saving any changes by pressing the STOP button ✘ .

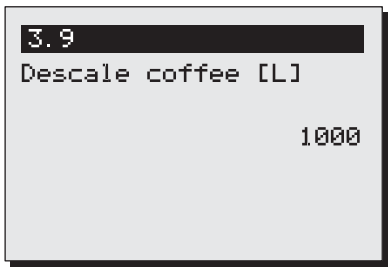


Auto container verwarming Fig. 30

12.4.7 Coffee making descale indicator settings (menu 3.9)

Before you start using the appliance you must first set the descale indicator.

- The default descale indicator is set to 1000 litres (average water hardness) and has a scope of 0 to 9999 litres in steps of 100
- Use the table 5 below and select the relevant water hardness in the left column (°D). On the right you can read after how many litres (recommended) the system must be descaled.
- Once the set amount of litres has been reached a spanner symbol will appear in the display. The appliance will continue to work normally so that descaling can be done at a more suitable time.
- In the Descaling menu 1.0 you can see how many litres away from a descale indicator signal the system still is.



Coffee making descale indicator settings Fig. 31

Water quality	Hardness				Descale indicator litres
	°D	°F	mmol/l	mgCaCo3/l	
Very hard	18-30	32-55	3,2-5,3	321-536	250
Hard	12-18	22-32	2,2-3,2	214-321	500
Average	8-12	15-22	1,4-2,2	268-214	1000*
Soft	4-8	7-15	0,7-1,4	72-268	1500
Very soft	0-4	0-7	0-0,7	0-72	2000

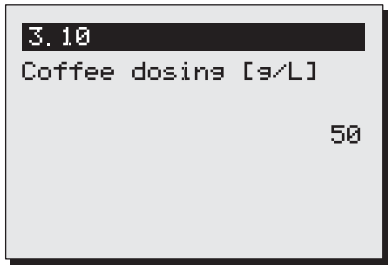
Table 5. *Water hardness* * Standard settings

Set the required number of litres and confirm your changes with the START button ✔ or go back without making any changes using the STOP button ✘ .

- Contact your local water company if you are unsure about the hardness of your tap-water.

12.4.8 Coffee dosage (menu 3.10)

When an amount is selected, the recommended amount of ground coffee (grams) that should be put in the filter unit in order to make the selected amount of coffee appears in the display.The amount of coffee is set to 50 grams/litre as standard and can be set from 0 to 100 grams in steps of 1 gram.



Coffee dosage settings Fig. 32

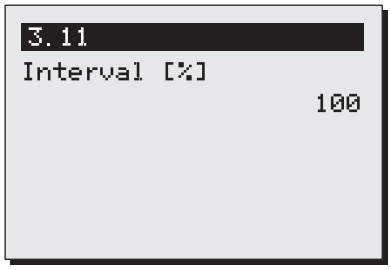
Set your coffee dosage and confirm your changes with the START button ✔ or go back without saving any changes by pressing the STOP button ✘ .

Tip: If the coffee dosage advice is not desired you can switch it off by setting the grams/litre value to 0.

Please note: When setting larger amounts of coffee a negative correction factor is applied to the calculation. This means that the coffee dosage advice is lower than the result of the calculation 'brewing quantity x coffee dosage'.

12.4.9 Interval (menu 3.11)

Using very finely ground coffee or very soft water will result in the water running through the coffee filter more slowly. Pausing the hot water pouring after the 1st charge volume (half way through the making process) for periodic intervals (that can be set) can prevent the coffee filter from overflowing.



Interval Fig. 33

Interval Settings

- The interval is set to 100% as standard. The brewing process can then run smoothly.
- The interval can be set from 100% to 50% in steps of 5%. After a setting has been made the controller calculates the time out interval itself (see table 6).
- If the hot water pouring switches to the interval mode after the 1st charge, the water supply and pausing will continue until the required volume has been reached.
- The interval setting and the 1st charge volume can only be determined by trial and error by keeping an eye on the filtering process during the coffee making.

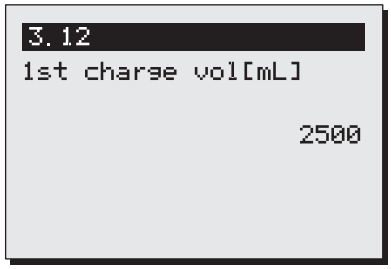
Set the required number of litres and confirm your changes with the START button ✔ or go back without saving any changes by pressing the STOP button ✘ .

Interval	Water pouring time	Interval-time (pause)
100%	Continue	0 sec
95%	45 sec	4,5 sec
90%	45 sec	9 sec
85%	45 sec	13,5 sec
80%	45 sec	18 sec
75%	45 sec	22,5 sec
70%	45 sec	27 sec
65%	45 sec	31.5 sec
60%	45 sec	36 sec
55%	45 sec	40.5 sec
50%	45 sec	45 sec

Table 6. *Interval overview*

12.4.10 1st charge (menu 3.12)

The 1st charge volume can be increased if it is only found out later in practise that the filtering process threatens to overflow



1e charge volume (CB5W) Fig. 34

Setting the 1st charge volume

- The 1st charge volume only becomes active if the interval is set at 95% or less.
- The 1st charge volume is set for half way through the brewing process as standard.
- The 1st charge volume can be set according to the following overview (Table 7).

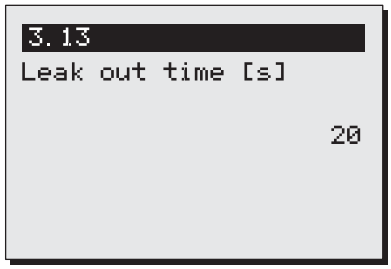
Set the desired 1st charge volume and confirm your changes with the START button ✔ or go back without making any changes using the STOP button ✘ .

Model	Standard 1st charge	Settings scope	Step
CB 5W	2.500 ml	2500 - 4500 ml	250
CB 10W	5.000 ml	5000 - 9000 ml	250
CB 20W	10.000 ml	8000 - 18.000 ml	250

Table 7. *1st charge volume settings scope*

12.4.11 Leak out time (menu 3.13)

The leak out time starts once the hot water distribution is stopped. The leak out time through the filter can vary depending on the type, size and/or amount of coffee.



Leak out time Fig. 35

Leak out time settings

- If no leak out time is required the time can be set to 0. There will then be no dripping symbol in the display followed by a sound signal.

Set the required leak out time and confirm your changes with the START button ✔ or go back without saving any changes by pressing the STOP button ✘ .

Model	Standard leak out time	Settings scope	Step
CB 5W	240 sec	0 - 900	10
CB 10W	300 sec	0 - 900	10
CB 20W	360 sec	0 - 900	10

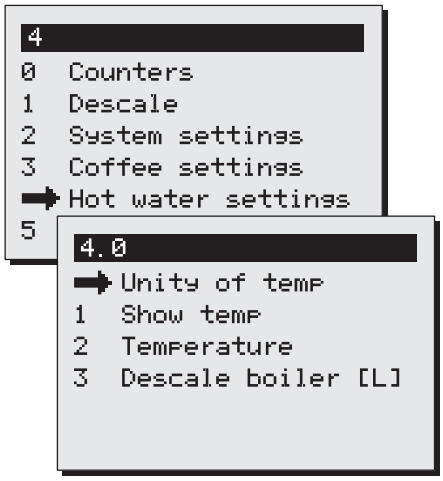
Tabel 8. *Leak out time*

12.5 Hot water settings (Menu 4)

PIN ➡ Hot water settings ➡ then select function

An overview of all hot water settings follows in the display. At the top of the display is a navigation bar on which the selected menu function number is shown.

Menu	Explanation of hot water settings items	
4.0	Temperature unit	see 12.5.1
4.1	Show temperatures	see 12.5.2
4.2	Temperature boiler	see 12.5.3
4.3	Descale indicator	see 12.5.4

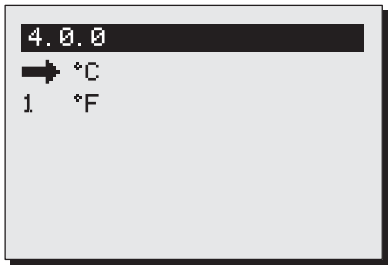


System settings menu Fig. 36

12.5.1 Temperature unit (menu 4.0)

You can change the unit of the temperature from degrees Celsius (°C) to degrees Fahrenheit (°F) with this function.

Select the required choice and confirm your changes with the START button ✔ or go back without saving any changes by pressing the STOP button ✘ .

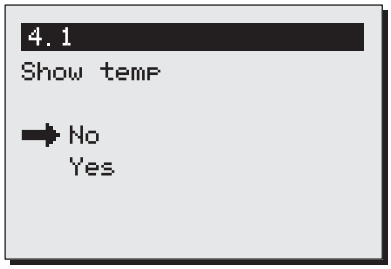


Set temperature unit Fig. 37

12.5.2 Show temperature (menu 4.1)

You can replace the tap symbol with the actual hot water temperature with this function. The display is set to show the tap symbol as standard.

Select the required choice and confirm your changes with the START button ✔ or go back without saving any changes by pressing the STOP button ✘ .

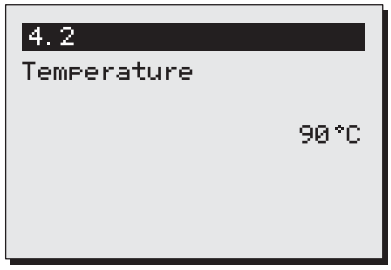


Show temperature Fig. 38

12.5.3 Temperature (menu 4.2)

You can change the water temperature of the hot water system with this function.
The temperature is set at 90°C as standard.
The settings scope is 60-97°C (in steps of 1°C).

Set the required temperature and confirm your changes with the START button ✔ or go back without saving any changes by pressing the STOP button ✘ .



Show temperature settings Fig. 39

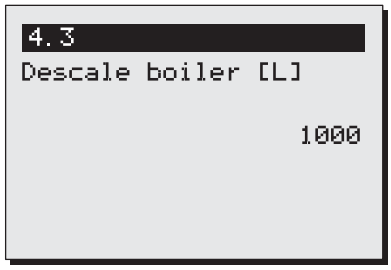
12.5.3.1 Switching on the continuous heating function 97°C+

As well as the 97°C setting there is also an extra 97°C+ setting. With this setting the boiler keeps on heating for a while* after reaching 97°C in order to make better water for tea. The continuous heating function only works when hot water has been drawn off and more fresh water has been added. (* CB5W 50 sec. , CB10-20W 100 sec.).

12.5.4 Hot water system descale indicator settings (menu 4.3)

Before you start using the appliance you must first set the descale indicator.

- The default descale indicator is set to 1000 litres (average water hardness) and has a scope of 0 to 9999 litres in steps of 100
- Use the table 5 below and select the relevant water hardness for you. In the right column you can read after how many litres (recommended) the system must be descaled.
- Once the set amount of litres has been reached a spanner symbol will appear in the display. The appliance will continue to work normally so that descaling can be done at a more suitable time.
- In the Descaling menu 1.0 you can see how many litres away from a descale indicator signal the system still is. See 12.2.3.



Hot water system descale indicator settings *Fig. 40*

Water quality	Hardness				Descale indicator litres
	°D	°F	mmol/l	mgCaCo3/l	
Very hard	18-30	32-55	3,2-5,3	321-536	250
Hard	12-18	22-32	2,2-3,2	214-321	500
Average	8-12	15-22	1,4-2,2	268-214	1000*
Soft	4-8	7-15	0,7-1,4	72-268	1500
Very soft	0-4	0-7	0-0,7	0-72	2000

Table 5. *Water hardness* * Standard settings

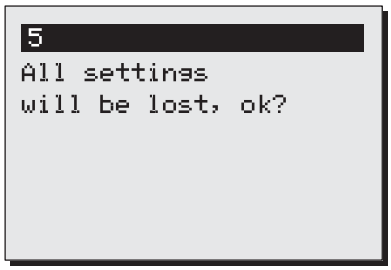
Set the required number of litres and confirm your changes with the START button ✔ or go back without making any changes using the STOP button ✘ .

- Contact your local water company if you are unsure about the hardness of your tap-water.

12.6 Load defaults (menu 5)

You can restore all the default settings except for the language setting with this function. Please note: All settings that you have changed in the operator menu will be lost.

Press the START button ✔ to load the default settings or go back without making any changes by pressing the STOP button ✘ .



Load defaults Fig. 41

13. TROUBLESHOOTING

WARNING ⚠

- Have all repairs to the electrical system performed by a qualified service technician.

If your appliance is not functioning correctly, use the troubleshooting guide below to see whether you can resolve the problem yourself. If not, please contact your dealer.

Error message Display	Possible cause	Action
C2 (coffee)	Coffee maker doesn't work. Dry-boil protection switched off.	Reset dry-boil protection coffee making unit (fig. 1-8). Check to see if the coffee maker needs to be descaled, and descale if necessary.
C3 (coffee) I	Coffee maker doesn't fill any more.	Check the water pressure, turn the water supply taps completely open, check if the connecting hose is fastened. Problem solved, error message disappears.
C3 (coffee) II	Coffee maker fills too slowly.	Check the water pressure, turn the water supply taps completely open, check if the connecting hose is fastened.
C4 (coffee)	Water inlet valve doesn't close properly.	Call the service engineer or dealer.
C7 (coffee)	Minimum electrode fault.	Call the service engineer or dealer.
C8 (coffee)	Error C3 changes to C8 after 10 minutes. The inlet valve is closed for safety. Please note: this also happens when the max level is reached!	Restore water supply and restart the coffee making process.
C9 (coffee)	Problems with registering the volume of water.	Call the service engineer or dealer.
B0 (boiler)	Hot water system temperature sensor problem.	Call the service engineer or dealer.
B1 (boiler)	Hot water system temperature sensor problem.	Call the service engineer or dealer.
B2 (boiler)	Hot water system doesn't heat up. Dry heating safety switched off.	Reset dry boil protection hot water system (fig. 1-14). Check to see if the hot water system needs to be descaled, and descale if necessary.
	Hot water system heats up longer than usual (keeps heating).	Possibly because of limescale forming on the boiler wall. Check to see if the hot water system needs to be descaled, and descale if necessary.
B3 (boiler)	Coffee maker fills too slowly.	Check the water pressure, turn the water supply taps completely open, check if the connecting hose is fastened. Restart the hot water system.

Error message Display	Possible cause	Action
B7 (boiler)	Minimum electrode fault.	Call the service engineer or dealer.
B8 (boiler)	Error C3 changes to C8 after approx. 10 minutes. The inlet valve is closed for safety.	Check the water pressure, turn the water supply taps completely open, check the connecting hose is fastened. Restart the hot water system.
	Max. electrode is not reached. After approx. 10 minutes the inlet valve closes.	

Error message Display	Possible cause	Action
E0	Problem taking the temperature of hot water system.	Call the service engineer or dealer.
E1	Problem taking the temperature of hot water system.	Call the service engineer or dealer.

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