

## 6. MAINTENANCE

### 6.1 Daily rinsing program

After 1 day the display shows RINSE.

This message will disappear again after the rinsing program is executed.

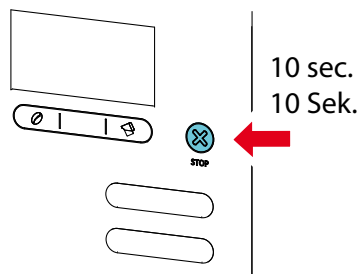


1. a) Activate the rinsing program [1a] and follow the instructions in the display.  
b) The rinsing program can also be activated by pressing the STOP button for 10 sec. [1b].
2. Confirm with the V-key [2] to start the rinsing.  
The brewer and mixer unit are rinsed with clean water.

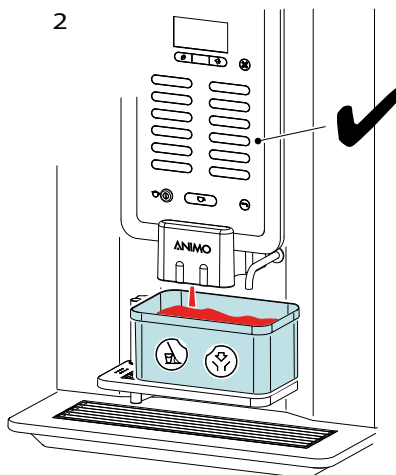
1a



1b



2



In the **Service menu / 2.16 Cleaning management / Rinsing mandatory** (yes / no), the user can even be obliged to carry out the rinsing program. If the rinsing program is not activated the machine blocks.



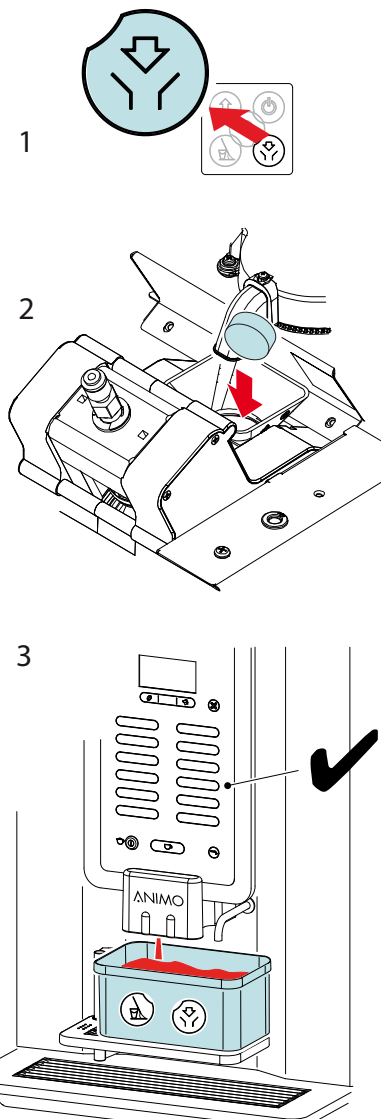
### 6.2 Weekly cleaning program

After 7 days appears the display shows CLEANING. This message will disappear again after the cleaning program is executed.



1. Activate the cleaning program [1] and follow the instructions in the display.
2. The cleaning program for the espresso brew unit is started. By adding the coffee cleaner tablet [2] the brew unit will be cleaned from coffee oils.
3. Confirm with the V-key [3] when the coffee cleaner tablet is added in the brewer chamber.
4. After the cleaning cycle the rinsing program start automatically and rinses the brewer (and mixer) with clean water.

In the **Service menu / 2.16 Cleaning management / Cleaning mandatory** (yes / no), the user can even be obliged to carry out the cleaning program. If the cleaning program is not activated the machine blocks.



## 6.3 Periodic maintenance

### 6.3.1 Service boiler

During installation of the machine the boilers service moment has been set. See service menu item **2.6**

#### Service boiler / 2.6.1 Service moment

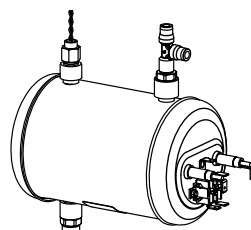
During use, the drinks are counted. When the boiler service moment is reached the text [ *Service Boiler* ] will appear in the display.



#### 1/ Descale Boiler

Reaching the service boiler time is an indication that the boiler need descaled. Follow the instructions in section **6.5 Descaling**.

1

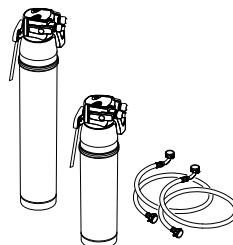


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#### 2/ Replace water filter

If a water filter is used (advice), this is the signal to replace the filter.

2



Reset after descaling or water filter change the service boiler signal service in the service menu:

#### 2.6 Service boiler

##### 2.6.02 Reset Service counter

### 6.3.2 Service brewer

The service moment brewer is factory set. See service menu item **2.13 Other Settings / 2.13.2 Service brewer**

During use the brewer movements are counted. When the service brewer moment is reached the text [ *Service brewer* ] will appear in the display.

Achieving the service brewer moment indicates that the brewer needs servicing.



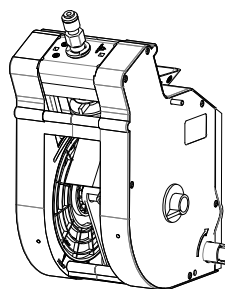
#### 1/ Espresso group

After 25,000 cycles the filter and seals must be replaced. See chapter 6.6

Requirements; replacement kit 25K

After 50,000 cycles a complete inspection of the espresso group is recommended and any worn parts must be replaced.

1



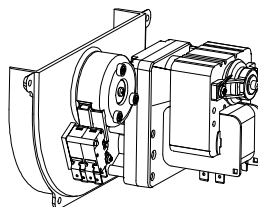
#### 2/ Drive unit

Service life 2 years or 50,000 cycles

After 25,000 cycles, check the operation of the drive unit and clean it.

After 50,000 cycles, check the whole drive unit and replace as necessary.

2



**i** After the brewer maintenance reset the service brewer signal in the service menu:

#### 2.13 Other settings

##### 2.13.04 Reset Service brewer

## 6.4 Service contracts

### Preface

Preventive maintenance will extend the service life of the machine and reduce the chance of malfunctions. Read the (safety) instructions carefully in the user manual, service manual and on the cleaning agents to be used before carrying out maintenance.

The instructions for use, service manuals and software updates are available on the Extranet part of [www.animo.eu](http://www.animo.eu). If you do not yet access to this, report this via our site for your personal login code.

### Water filter

We strongly recommend using a water softener and/or a water filter if the mains water supply is too chlorinated or too hard. This increases the quality of the drink and prevents you having to descale the machine too often.

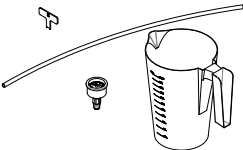

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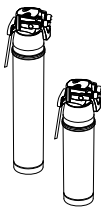

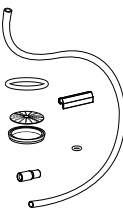


### Brewer unit

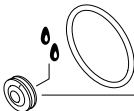


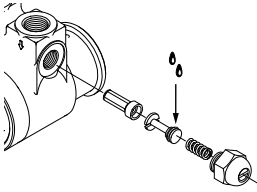
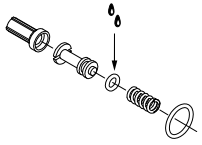
In some cases, use is made of an exchange brewer during maintenance. The exchanged brewer can then be reconditioned in the workshop and used again for later maintenance.




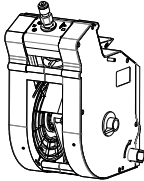
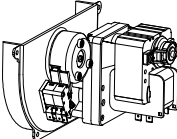
## 6.4.1 Servicing

With an estimated output of < 25,000 cups/year, maintenance once a year.  
With an estimated output of > 25,000 cups/year, maintenance every 6 months.

Activities	Time	Consumables	Art.no.	OptiBean	
				2	3
<b>Boiler 1-2</b>	45 min.				
<b>Descale</b> - Descale the boiler system by starting the descaling program <b>2.15 Descale</b> - Reset the <b>2.6 Service boiler</b> signal in the service menu  - Use the boiler service kit and Animo descaling agent.			1001365		
			00009 (can) / 49007 (sachet)		

Activities		Time	Consumables	Art.no.	OptiBean	
					2	3
Boiler 2-2		10 min				
<b>Change filter cartridge</b> - In case a water filter is installed , replace the cartridge for a new one. - Reset the <b>2.6 Service boiler</b> signal in the service menu						
Grinder		10 min.				
Empty the grinder. Fill with two caps of cofee grinder cleaner, hold a drip try under the outlet and run the grinder until it is empty.				1000151		
Brewer		20 min.				
Clean the brewer Check for correct operation.						
Build in the replacement kit 25,000 cups Reset the service brewer signal in the service menu. <b>2.13 Additional settings / 2.13.4 Reset service brewer</b>				Standard brewer 1004917	1x	1x
				XL brewer 1004918	1x	1x
Carry out cleaning procedure using cleaning tablets.				1001397		
Mixer(s)		10 min.				
Check the motor shaft for dirt and wear. Replace mixer in case it runs heavy or raw.						
Replace mixer blade.				1003569	1x	1x

Activities		Time	Consumables	Art.no.	OptiBean	
					2	3
Replace the shaft seal and O-ring in the green mixer mounting ring. Lubricate the inside shaft seal with food grade grease.				1000742	1x	1x
				1003572	1x	1x
Lubricate mixer house water inlet with food grade grease.						
Clean the mixer components with Animo cleaning agent				00008 (bus) / 49009 (sachet)		
Espresso pump (Yearly)		5 min.				
Yearly lubricate O-ring with food grade grease.					1x	1x
or install a new bypass valve. Fitts on brass and stainless steel pump.				1004217	1x	1x
Checking (general)						
Check the complete machine operation. Check parts for damage/wear and/ or leaks.						
Cleaning (general)						
Clean the espresso group brewer and mixer unit for weekly cleaning. Complete machine, inside and out.						

Activities	Time	Consumables	Art.no.	OptiBean	
				2	3
Dispensing valves (2 Yearly)	20 min.				
Dispensing valves			1000699	4x	4x
Safety valves (2 Yearly)	10 min.				
Overpressure valves 3 bar			1000734	1x	1x
Overpressure valves 12 bar			1000735	1x	1x
Mixer (2 Yearly)	1 min.				
Mixer motor			1003567	1x	1x
Brewer unit (2 Yearly)	5 min.				
Brewer unit reversed standard 37mm			1004572	1x	1x
Brewer unit reversed XL 44mm			1004798	1x	1x
Drive unit (2 Yearly)	5 min.				
Drive unit 230Vac			1004573	1x	1x



**WARNING**

- During maintenance activities, remain with the machine.
- When de-scaling, always follow the instructions for the de-scaling agent used.
- It is advisable to wear safety glasses and protective gloves when de-scaling.
- After de-scaling, let the machine complete at least three cycles.
- Wash your hands thoroughly after de-scaling.
- The machine must never be immersed in or sprayed with water.

**WARNING**

- Pressurised hot water! Do not remove components like valves, couplings, plugs and hoses before depressurise the boiler system.

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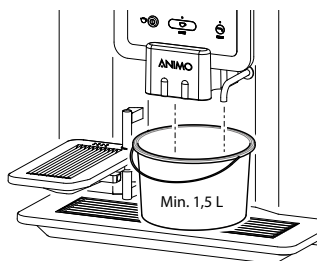
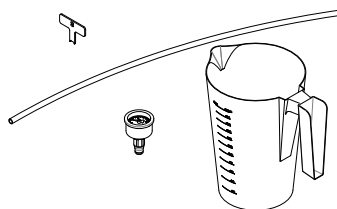
**6.5 De-scaling instructions**

Animo supplies a descaling agent in the following quantities:

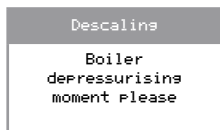
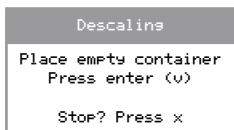
- Descaling agent 48x 50 g sachets art. no. 49007
- Descaling agent 1 kg can art. no. 00009

Time required, agents and tools:

- Time: approx. 45 min.
- Animo Descaling Agent
- Drip tray of approx. 1.5 L
- Crosshead screwdriver
- Service kit [art. no. 1001365]  
(measurement beaker, hose, manometer)

**Descaling**

1. Start the descaling programme. **Service menu / 2.15 Descale** and follow the instructions on the display.
2. Close the door and place an empty bucket under both outlets.



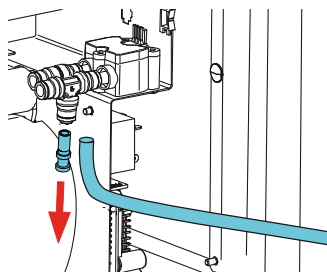
3. Prepare 2 litre de-scaler solution. Read the warnings and instructions for the Animo de-scaling agent first.

- Remove the back and connect the suction tube to the tee of the flow meter (remove plug).

### Descaling

Place suction tube  
in descaler solution

Press enter (<v>)



- The first acid solution (approx. 1 litre) is pumped into the boiler and heated. A soaking period of 300 sec. follows\*.

### Descaling

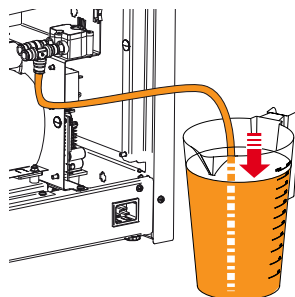
Pumping solution  
through system  
Moment Please

### Descaling

boiler temperature  
is increased (<...>°C)

### Descaling

Moment Please  
Soaking: 300 sec.



- Then for 12 seconds the second acid solution (approx. 1 litre) is pumped through each of the dispensing valves. The fresh acid solution is now heated in the boiler again and a soaking period of 600 seconds follows\*.

### Descaling

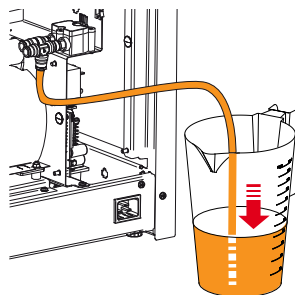
Pumping solution  
through system  
Moment Please

### Descaling

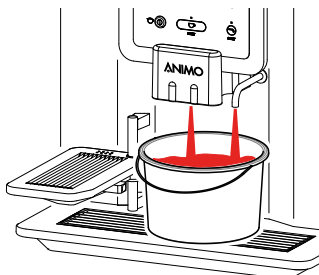
boiler temperature  
is increased (<...>°C)

### Descaling

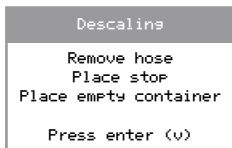
Moment Please  
Soaking: 600 sec.



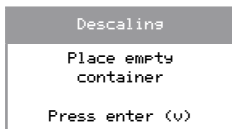
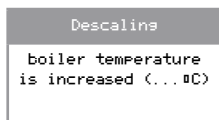
\* soaking periods can be skipped by pressing the x-button.



7. After the soaking interval, the suction hose must be removed and the plug refitted.



8. The boiler is flushed (6 times\*) with fresh water.  
In between, empty and secure the drip tray.



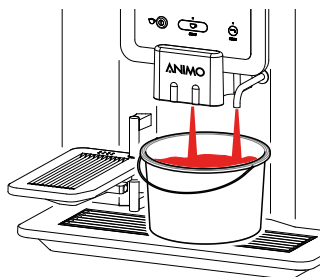
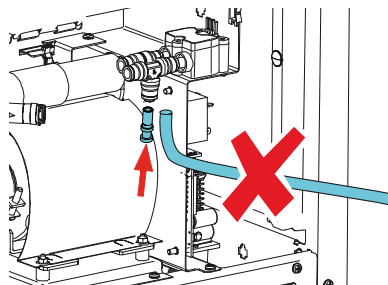
9. Reset after descaling the service boiler signal in the service menu:

## 2.6 Service boiler

### 2.6.02 Reset Service counter

10. The machine is now ready for use again.

**i** Always check if no de-scaler solution stayed behind in the heating system. Draw some hot water and mix some coffee milk through it. If the milk curdle, additional flushing of the heating system is required.

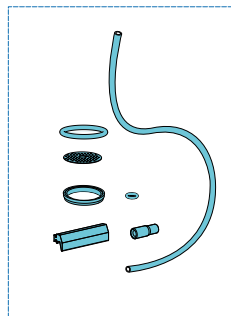


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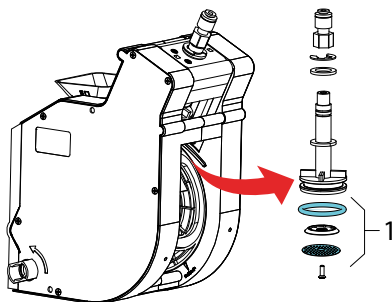
### 6.6 Maintenance espresso group

#### 6.6.1 Brewer replacement kit 25K

- After 25,000 cycles the filters and seals must be replaced. The display shows [ *Service brewer* ].

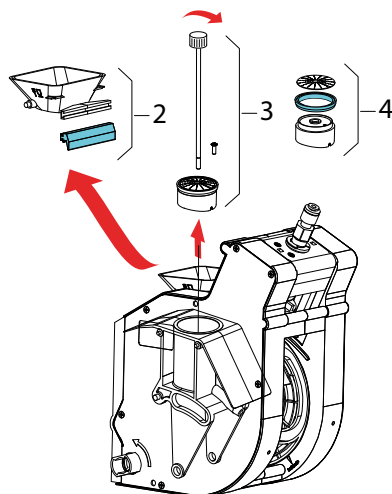


Brewer reversed replacement kit 25K	Brewer	
	Standard	XL
Art. No.	1004917	1004918
O-ring big	1x	1x
Wiper	1x	1x
Filter 150 µm	1x	1x
Teflon ring	1x	1x
O-ring small	1x	1x
Dispensing hose	1x	1x



- After 50,000 cycles a complete inspection of the espresso group is recommended and any worn parts must be replaced.

1. Re-place the O-ring + filter [1] onto the upper piston (leave the piston in place).
2. Remove the funnel [2] by pulling it backward from the housing, place a new wiper.
3. Unscrew the brewer filter with a small croshead screw driver. Use the brewer fixation pin (as a corkscrew) to pull out the lower piston.
4. Wait until point 8 before place a new Teflon ring [4] .



5. To place a new O-ring [8] first unscrew bold [5].
6. Pull out piston-rod [6].
7. Unscrew the two screws which hold the lower flange [7].
8. Place a new O-ring [8] and replace all parts in reversed order.
9. Place a new brewer outlet hose [9].



Always place the outlet hose according the drawing below

10. After the brewer maintenance reset the service brewer signal in the service menu:

#### 2.13 Other settings

##### 2.13.04 Reset Service brewer

#### New brewer installed?

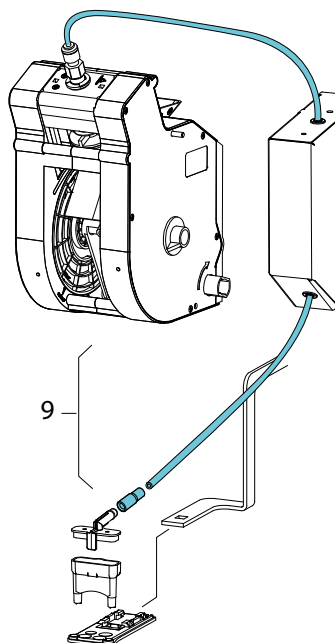
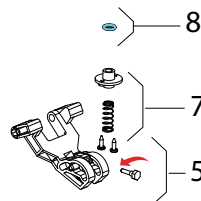
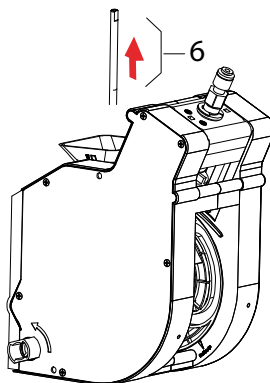
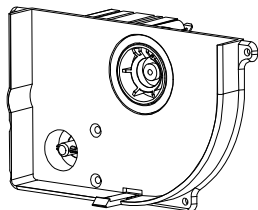
After a new brewer was installed reset the cycle counter in the service menu:

#### 2.13 Other settings

##### 2.13.02 Reset Cycle counter)

#### 6.6.2 Drive unit

- Clean out potential coffee dust from the drive unit.



### 6.7 Check / set the pump pressure

#### **WARNING**

- Pressurised hot water! Do not remove components like valves, couplings, plugs and hoses before depressurising the boiler system.

1. Activate the shut down menu in the service menu **2.14 Installation / Shut down** and following the instructions on the display.
2. For just releasing the pressure in the boiler it is not necessary to disconnect the supply hose. Press enter (v)

Shut down  
remove  
supply hose  
press enter (v)  
stop? press x

Shut down  
boiler  
depressurising  
moment Please

Shut down  
remove  
drain plug  
press enter (v)  
stop? press x

3. Stop the process, the boiler is now depressurised.
4. Remove the rear wall. Take the drain hose out of the holder and remove the plug (press the metal ring in to unlock the plug).
5. Connect the manometer to the boiler inlet using the 8 mm hose.
6. Activate the menu

#### 2.7 Hardware test

##### 2.7.02 Calibration water system

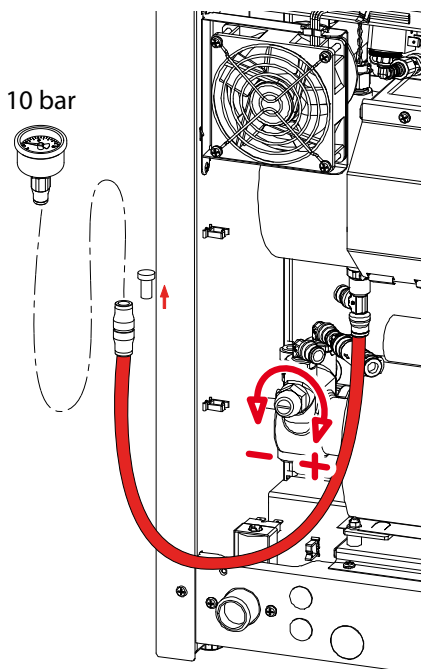
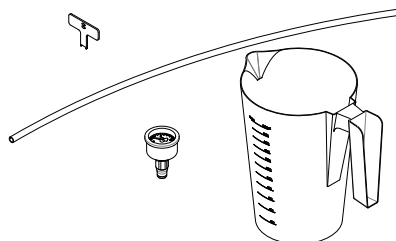
##### Pump **TEST**

7. Start the pump by pressing the **Test button** (recipe key 11) on the front panel.
8. Set the correct espresso pressure (10 bar) with the adjustment screw on the pump housing. Anti-clockwise: less pressure / Clockwise: more pressure.

To stop the measurement; press any button

Required equipment and tools:

- Crosshead screwdriver
- Service kit [1001365]  
(measuring cup, hose, manometer)



## 7. TRANSPORT / SHUT DOWN



### WARNING

- Pressurised hot water! Do not remove components like valves, couplings, plugs and hoses before depressurise the boiler system.
- The drain hose becomes HOT!!
- After the boiler has been emptied the pump starts to pump out water from the tubing!

Required equipment and tools:

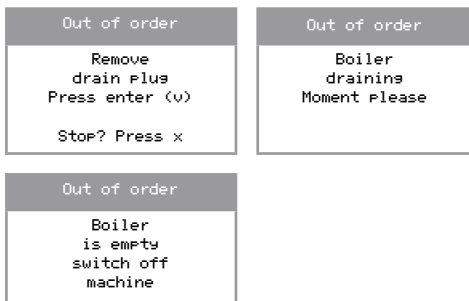
- Crosshead screwdriver
- Tray of approx. 1.5 L

1. Activate the shut down menu in the service menu  
**2.14 Installation / Shut down** and following the instructions on the display.

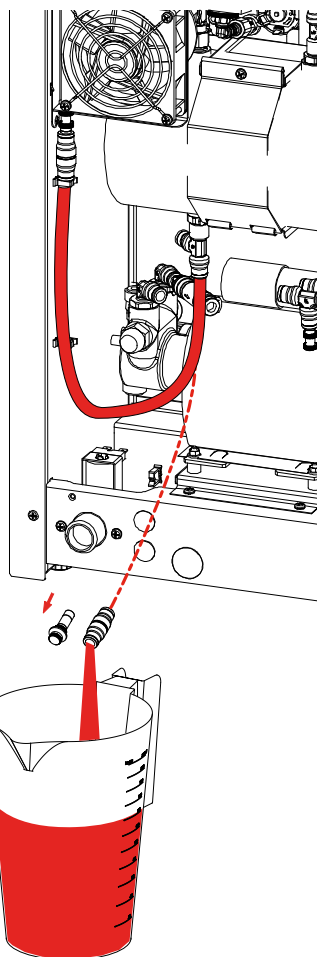
2. Close the water supply tap and remove the water supply hose.



3. There is now no pressure in the boiler. The shut down menu can be cancelled if necessary. Follow the menu to empty the complete water system.
4. Remove the rear wall, remove the drain hose from the rear plate and remove the drainage plug. Let the boiler drain into an empty tray (approx. 1.5 litres).



5. The software now knows the water system is empty. If the unit is reinstalled the commissioning menu will automatically be activated.



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