

Operating instructions Cleaning machine for air regulators and breathing masks PG 8063



To avoid the risk of accidents or damage to the appliance, it is **essential** to read these instructions before it is installed and used for the first time.

en-GB



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Notes about these instructions

Important warnings

 Information which is important for safety is highlighted in a thick framed box with a warning symbol. This alerts you to the potential danger of injury to people or damage to property. Read these warning notes carefully and observe the procedural instructions and codes of practice they describe.

Notes

Information of particular importance that must be observed is highlighted in a thick framed box.

Additional information and comments

Additional information and comments are contained in a simple frame.

Operating steps

Operating steps are indicated by a black square bullet point.

Example:

- Select an option using the arrow buttons and save your choice with *OK*.

Display

Certain functions are shown in display messages using the same font as that used for the function itself in the display.

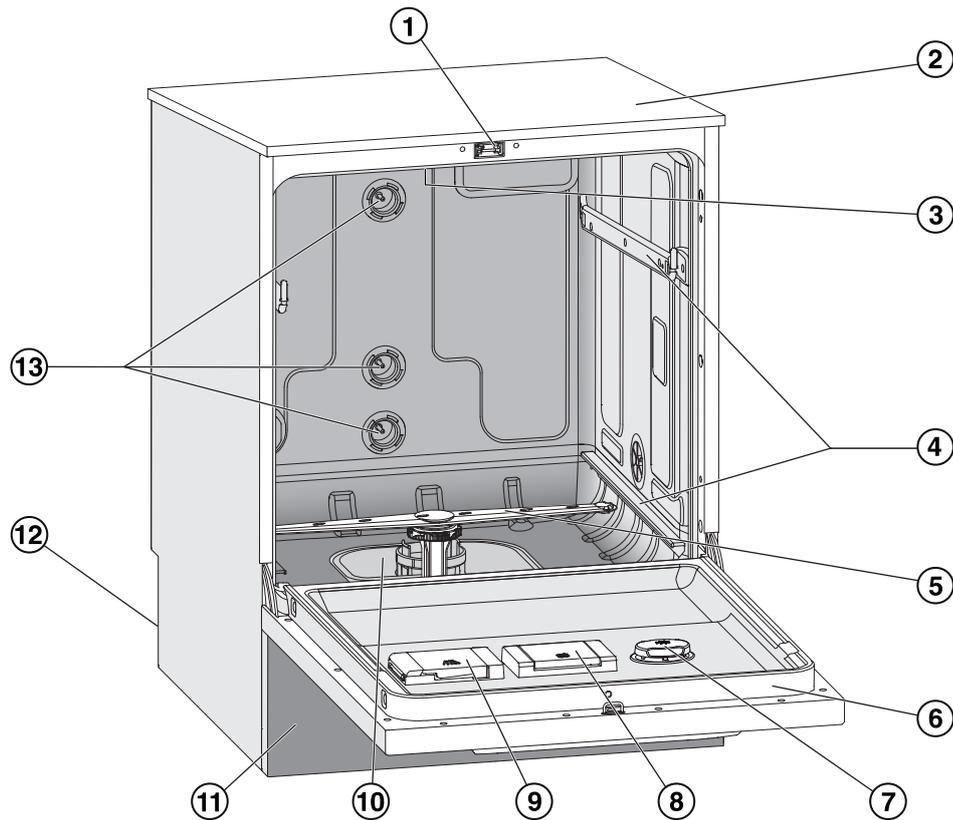
Example:

Settings  menu.

Definition of terms

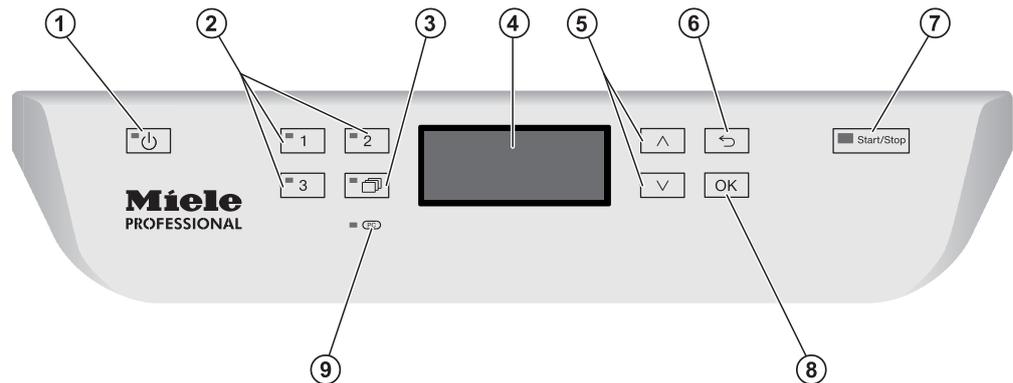
Cleaning machine	The dishwasher is referred to as “the cleaning machine” in these operating instructions.
Load items	The term “load items” is used wherever the items to be processed are not defined in any further detail.
Wash water	The term “wash water” is used for the mixture of water and process chemicals.

Machine overview



- ① Door lock
- ② Test point for performance checks (top, front right; only visible with lid removed)
- ③ Upper machine spray arm
- ④ Rails for baskets and mobile units
- ⑤ Lower machine spray arm
- ⑥ Data plate
- ⑦ Container for neutralising agent or rinsing agent
- ⑧ Salt container
- ⑨ Dispenser for powder cleaning agent
- ⑩ Filter combination
- ⑪ Plinth cover
- ⑫ On the back:
 - Second data plate
 - Electrical and water connections
 - Connection for an external dispensing module (DOS module)
- ⑬ Water connections for mobile units and baskets

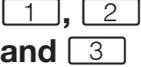
Control panel



- ① **⏻ On/Off button**
For switching the machine on and off.
- ② **[1], [2] and [3] buttons**
Programme selection buttons.
Can be configured.
- ③ **[📄] Programme list button**
For accessing the list of all programmes.
- ④ **Display**
User interface and programme sequence display.
- ⑤ **^ and v arrow buttons**
For navigating within the display.
- ⑥ **↶ Cancel button**
For cancelling a process
(not for cancelling programmes).
- ⑦ **Start/Stop button**
For starting or cancelling a programme.
- ⑧ **OK button**
For selecting or confirming entries in the user interface
(acknowledge or save).
- ⑨ **[PC] PC/Optical interface**
This is used by Miele Service technicians to run diagnostic checks
and can also be used to update programming data in the future.

LEDs in the buttons

The buttons on the control panel have LEDs (Light Emitting Diodes) that indicate the status of the machine.

Button	LED	Status
 button	ON	The machine is switched on.
	FLASHES	The machine is ready for use.
	OFF	The machine is switched off.
Programme selection buttons 	ON	The respective programme has been selected. At the end of the programme the LED will remain lit until a different programme is selected.
	OFF	The programme is not selected or the programme settings are being selected.
 button	ON	A programme has been selected from the programme list with this button. At the end of the programme the LED will remain lit until a different programme is selected.
	OFF	No programme has been selected from the list with this button or the programme settings are being selected.
Start/Stop button	ON	Programme running.
	FLASHES GREEN	A programme has been selected but not yet started.
	FLASHES RED	A fault has occurred (see “Problem solving guide”).
	OFF	A programme has finished.

Appropriate use

This Miele cleaning machine can be used to clean, rinse and chemically disinfect breathing apparatus for professional use that can be reprocessed by machine, such as air regulators, breathing masks and carrier frames for compressed air units. Information issued by the manufacturers of the breathing apparatus must be heeded.

The cleaning machine may only be used with Miele baskets, carriers and accessories approved for the machine and designed for the breathing apparatus.

The cleaning machine may not be used with organic solvents or inflammable or foaming liquids.

Soiling, such as ash, sand, wax, lubricants or paint, must not be introduced into the cleaning machine.

The breathing apparatus must only be contaminated with the usual soiling from fire brigade operations or exercises. Manual pre-cleaning is required if the apparatus is heavily soiled with soot.

The cleaning machine may not be used for breathing apparatus that has not been approved for machine reprocessing by the manufacturer.

The cleaning machine may not be used for reprocessing any products other than breathing apparatus, especially medical devices.

Disposable items, such as single-use masks or breathing filters, must not be reprocessed.

Daily operators

For day-to-day use, operators must be instructed on the basic functions and how to load the cleaning machine and must also be trained regularly. In addition, operators must be trained in line with the national requirements for reprocessing personal protective equipment, such as air regulators and breathing masks.

Day-to-day work is carried out using the user level and in the Settings  menu. The menu is freely accessible to all users.

Administration

More advanced tasks, e.g. interrupting or cancelling a programme, require more detailed knowledge about the machine reprocessing of personal protective equipment and the process chemicals used.

Alterations to the reprocessing process or adaptations to the cleaning machine, e.g. to accessories used or on-site conditions, require additional specific knowledge of the machine.

Validation processes assume specialised knowledge of the machine reprocessing of personal protective equipment, of the processes involved and of applicable standards and legislation.

The Further settings menu incorporates all administrative processes and settings. This is protected from unauthorised access by a PIN code.

Warnings and safety notes

This machine complies with all statutory safety requirements. Inappropriate use can, however, lead to personal injury and material damage.

Read these instructions carefully before using it for the first time to avoid the risk of accidents and damage to the machine.

Keep these instructions in a safe place where they are accessible to users at all times.

Correct application

► Use of the machine is only permitted for the applications expressly approved in the operating instructions. Alterations or conversion of the machine, or using it for purposes other than those for which it was intended, are not permitted and could be dangerous.

The reprocessing procedures are only designed for air regulators and breathing masks declared by the manufacturer as reprocessable. The information provided by the manufacturer of the load items must be observed.

► Follow the warnings and instructions provided by the breathing apparatus manufacturer.

► This machine is intended for indoor use only.

Risk of injury

Please pay attention to the following notes to avoid injury

► The machine may only be installed, commissioned, repaired and maintained by the Miele Customer Service Department or a suitably qualified service technician. A Miele service contract is recommended to ensure full compliance with the normative and regulatory provisions. Incorrect repairs can cause considerable danger to users.

► Do not install the machine in an area where there is any risk of explosion or of freezing conditions.

► Some metal parts pose a risk of injury/being cut. Wear cut-resistant protective gloves when transporting and setting up the machine.

► In order to reduce the risk of water damage, the area around the machine should be limited to furniture and fittings that are designed for use in commercial environments.

► If the machine is built under, it must only be installed under a continuous worktop run which is firmly secured to adjacent units to improve stability.

► The electrical safety of this machine can only be guaranteed when correctly earthed. It is essential that this standard safety requirement is met. If in any doubt, please have the on-site wiring system tested by a qualified electrician. Miele cannot be held liable for the consequences of an inadequate earthing system (e.g. electric shock).

- ▶ A damaged or leaking machine could be dangerous and compromise your safety. Disconnect the machine from the mains immediately and call the Miele Service Department.
- ▶ Label cleaning machines which have been taken out of operation and secure them against being switched on again without authorisation. The cleaning machine may only be put back into operation once it has been successfully repaired by the Miele Customer Service Department or by an appropriately qualified specialist.
- ▶ Personnel operating the machine should be trained regularly. Untrained personnel must not be allowed access to the machine or its controls.
- ▶ Only use process chemicals which have been approved by their manufacturer for the relevant application. The manufacturer of the process chemicals is liable for any negative influences on the material of the load and the machine.
- ▶ Take care when handling chemical agents. These may contain irritant, corrosive or toxic ingredients. Please observe the chemical agent manufacturer's safety instructions and safety data sheets. Wear protective gloves and goggles.
- ▶ The machine is designed for operation with water and recommended additive chemical agents only. Organic solvents and flammable liquid agents must not be used in it. This could cause an explosion, damage rubber or plastic components in the machine and cause liquids to leak out of it.
- ▶ Any seals on the load items should be protected against prolonged contact with wash water. Therefore, always close unused connections with protective caps or blind covers.
- ▶ The water in the cabinet must not be used as drinking water.
- ▶ Take care not to inhale powder agents. Chemical agents can cause chemical burns in the mouth and throat or lead to asphyxiation.
- ▶ Do not lift the machine by protruding parts such as the control panel or the opened service flap as these could be damaged or torn off.
- ▶ Do not sit or lean on the opened door. This could cause the machine to tip up and be damaged or cause an injury.
- ▶ When using this machine in the higher temperature ranges, be especially careful not to scald or burn yourself or come into contact with irritant substances when opening the door. Where disinfecting agents are used there is a danger of inhaling toxic fumes.
- ▶ Should personnel accidentally come into contact with toxic vapours or chemical agents, follow the emergency instructions given in the manufacturer's safety data sheets.

Warnings and safety notes

- ▶ Allow baskets, modules, inserts and the load to cool down before removing them. Empty any remaining water into the wash cabinet or an on-site slops basin before removing items.
- ▶ If the compressed air indicator for the insert for reprocessing air regulators shows that the pressure is too low or medium-pressure hoses of the air regulators have disconnected from the quick-release couplings, the wash water can enter the air regulators. Particles may also get into the air regulators and impair their function. Check the air regulators for moisture and particles in accordance with the information from the manufacturer.
- ▶ Never clean the machine or near vicinity with a water hose or a pressure washer.
- ▶ The machine must be disconnected from the mains electricity supply before any maintenance or repair work is carried out.
- ▶ There may be a risk of slipping if liquid is spilt on the floor depending on the type of flooring and footwear being worn. Keep the floor dry where possible and take care to clean up any liquid spills straight away. Take the necessary precautions when cleaning up hazardous substances and hot liquids.

Quality assurance

The following points should be observed to assist in maintaining quality standards when reprocessing breathing apparatus and to avoid damage to the loads being cleaned.

- ▶ If it is necessary to interrupt a programme in exceptional circumstances, this may only be done by authorised personnel.
- ▶ Make sure items being washed are suitable for machine reprocessing and are in good condition. Plastic items must be thermally stable. Nickel plated items and aluminium items can be machine processed using special procedures only. Items containing iron, and soiling containing residual rust must not be placed in the cabinet.
- ▶ Chemical agents can, in certain circumstances, cause damage to the machine. Always follow the recommendations of the chemical agent manufacturer. In case of damage or doubt about compatibility, please contact Miele.
- ▶ Abrasive substances must not be placed in the machine as they could cause damage to the mechanical components of the water supply. Any residues of abrasive substances on items to be washed must be removed without trace before reprocessing in the machine.
- ▶ Pre-treatments with cleaning or disinfecting agents can create foam, as can certain types of soiling and chemical agents. Foam can have an adverse effect on the cleaning and disinfection result.

- ▶ Processes must be set up such that foam cannot escape from the wash cabinet. It would hinder the correct functioning of the machine.
- ▶ The process used must be monitored on a regular basis by the supervisor to check foaming levels.
- ▶ To avoid the risk of damage to the machine and any accessories used with it caused by chemical agents, soiling and any reaction between the two please read the notes in “Chemical processes and technology”.
- ▶ When using process chemicals, always consult the instructions issued by individual manufacturers. Process chemicals must only be used for the purpose they are designed for by the manufacturer to avoid any material damage or the occurrence of very strong chemical reactions (e.g. oxyhydrogen explosion).
- ▶ Always follow the relevant manufacturer's instructions on storage and disposal of chemical agents.
- ▶ In critical applications where very stringent requirements have to be met, it is strongly recommended that all the relevant factors for the process, such as chemical agents, water quality etc. are discussed with the Miele Application Technology specialists.
- ▶ Load carriers which hold the load items must be used only as intended.
Lumened load items must be thoroughly cleaned, internally and externally, with the wash water.
- ▶ Place small and light items in a small-part basket so that they do not block the spray arms.
- ▶ The amount of residual solvents and acids on items going into the cabinet should be minimal.
There should be no more than a trace of any solvents with a flash point of below 21 °C.
- ▶ Chloride solutions, in particular hydrochloric acid, must not be placed in the cabinet.
- ▶ Ensure that solutions or steam containing chlorides or hydrochloric acid do not come into contact with the stainless steel outer casing of the machine in order to avoid any damage through corrosion.
- ▶ After any plumbing work the water pipework to the machine will need to be vented. If this is not done, components can be damaged.
- ▶ The gaps between a built-in machine and adjacent cabinetry must not be filled e.g. with silicone sealant as this could compromise the ventilation to the circulation pump.
- ▶ Follow the installation instructions in the operating and installation instructions.

Warnings and safety notes

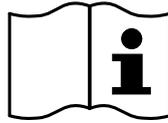
Safety with children

- ▶ Children must be supervised in the vicinity of the machine. Do not allow children to play with the machine. They could get locked inside it.
- ▶ Children must not use the machine.
- ▶ Keep children away from chemical agents. These can cause burning in the mouth, nose and throat if swallowed, or inhibit breathing. Keep children away from the machine when the door is open. There could still be residual chemical agent in the cabinet. Observe the safety data sheets for the chemical agent and seek medical advice immediately if a child has swallowed chemical agent or got it in the eyes.

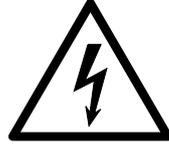
Use of components and accessories

- ▶ Only Miele accessories should be connected to this machine. They must be suitable for the application they are required for. Consult Miele for details on the type of accessories that can be used.
- ▶ Only use Miele load carriers. Using load carriers made by other manufacturers or making modifications to Miele accessories can result in unsatisfactory cleaning results.

Symbols on the machine



Warning:
Observe the operating instructions!



Warning:
Danger of electric shock!



Warning: Hot surfaces:
It can be very hot inside the wash cabinet
when the door is opened!



Risk of being cut:
Wear cut-resistant protective gloves when
transporting and setting up the machine!

Disposing of your old machine

► Please note that the machine may contain contamination from blood and other bodily fluids as well as substances which are harmful to the health and environment, and must be decontaminated before disposal.

For environmental and safety reasons, dispose of all process chemical residues in accordance with safety regulations (wear safety goggles and gloves).

Remove or disable the door lock prior to disposal of the machine, so that children cannot become trapped inside. Then make appropriate arrangements for safe disposal of the machine.

Control panel

The machine is operated exclusively by the buttons located on the stainless steel surfaces either side of the display. The display is not a touch screen.



A light touch on the relevant button is sufficient to operate the functions. The buttons can also be pressed and held for approx. 20 seconds.

Display illustrations

All display illustrations shown in these operating instructions are examples which can be different from the actual display screens shown.



The control buttons, with the exception of the  and the *Start/Stop* buttons, are shown next to the display.

Switching on

The machine must be connected to the electrical supply.

- Press the  button until the button's LED lights up.

After that, the display shows the following:



As soon as the machine is ready for operation, the display changes to show the last selected programme, e.g.:



If the machine is being used for the first time, or if the factory default settings have been reinstated, some basic parameters, e.g. language, date, time, etc., must first be set. To enable this, the display automatically changes to the relevant screen.

Switching off

- Press the  button.

Auto-off function

To save energy, the machine has an automatic switch-off function (Auto-off function). If the machine has not been used for a specific time period, it switches itself off automatically, see “Further settings/ Switch off after”.

- Use the  button to switch the machine on again.

Ready for use

When it is ready for use, the machine remains switched on, the  button flashes and the time is shown on the display. Pressing any button reactivates the machine. Standby can be switched on and off as required, see “Further settings/Switch off after”.

Display interface

The machine is controlled by menus. The menus are displayed in a 3-line display on the control panel.

The name of the menu (top line) and up to two options are shown. The currently selected option is highlighted, e.g.



Menu operation

To access the system settings menu you must first switch the machine off with the  button.

Then press and hold the  button whilst switching the machine back on with the  button.

Then release both buttons.

 and 

Arrow buttons

The arrow buttons are used to navigate up and down by row within a menu. Press and hold the button to automatically scroll through the list to the end of the menu. Press the button again to continue navigating.

Parameter values can also be altered in defined increments using the arrow buttons. Instructions for this can be found in the relevant sections.

OK

OK button

The *OK* button is used for confirming (acknowledging) a selection or for saving input. The display then moves to the next menu or, when entering parameter values, to the next input position. Instructions for this can be found in the relevant sections.



Cancel button

Before the *OK* button has been pressed, a process can be cancelled at any time by pressing the  button. The menu is then ended early and the display changes to the next menu level up. Any setting changes made will not be saved.

Symbols on the display



Navigation arrows

If a menu consists of more than two options, two navigation arrows are shown at the side of the menu options.



Use the \wedge and \vee arrow buttons on the control panel to navigate through the menu.



Dotted line

If a menu contains more than two options, the end of the option list is marked by a dotted line. The last entry appears above the line, the first entry below it.



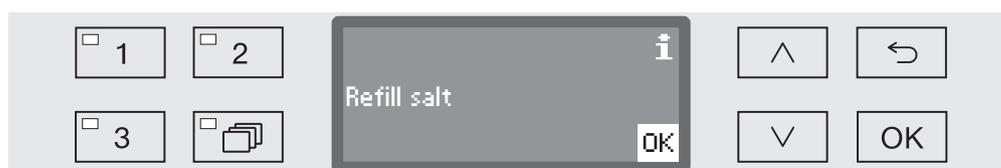
Tick

If there are several options available, the current setting is marked with a tick \checkmark .



System messages

The **i** symbol denotes system messages. These give information, such as a notification of an excessively low level in the supply containers or a reminder for the next service.



System messages are displayed at the start and end of a programme and have to be confirmed (acknowledged) individually with **OK** or all together at the end of the programme by opening the door. If the **i** symbol is shown on the display, the system messages can be opened by pressing the **OK** button.



Fault messages

In the event of a fault a warning triangle is shown in place of the **i** symbol. See “Problem solving guide” and “After sales service” for more information.

Settings in the menu

In these operating instructions, all descriptions for operating the menus follow a simple structure:

Input path

The input path describes the complete sequence to follow to access the menu level in question. The listed menu options have to be selected individually using the arrow buttons and confirmed with *OK*.

Example:

- To open the system menu level, press the  button to switch off the cleaning machine, then hold down the  button and press the  button to switch the machine back on.

- ▶ Settings 
- ▶ Time of day
- ▶ Clock display

If a menu level is already shown on the display, you don't need to follow the complete path. If you have already called up the Settings  menu, for example, you don't need to switch the cleaning machine off and back on again. In this case, you can follow the path from the Settings  menu.

Display

When you call up a menu, the last setting to be made is generally preselected.

Example:



Options

All setting options from the menus are presented as a list with a short explanation.

Example:

- 12 h
Time of day display in 12-hour format (am/pm).
- 24 h
Time of day display in 24-hour format.

Procedure

The next steps are explained.

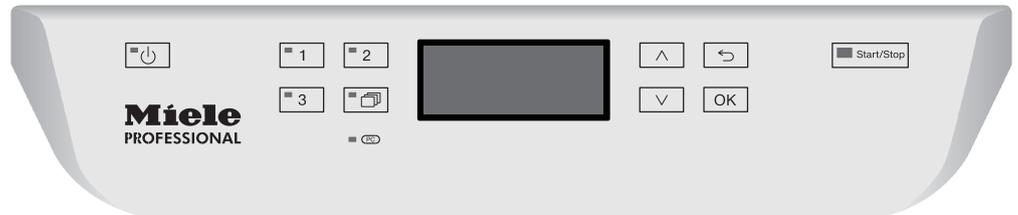
Example:

- Select an option using the \wedge and \vee arrow buttons.
- Press *OK* to save the setting.

Opening the door

⚠ If the door is opened during a programme cycle, hot water and cleaning agents can escape.
Risk of scalding, burning and chemical burns.
Do not open the door if a programme is running.

The control panel of the machine is also a door handle.



- Grasp the handle underneath the control panel and lower the door to open it.

Closing the door

⚠ Do not put your hand inside the door as it is closing.
Danger of injury.

- Lift the door until it engages with the door lock.

Water softener

Water hardness

In order to achieve good cleaning results, the machine needs to operate with soft water. Hard water results in the build-up of calcium deposits on the load and in the machine.

Mains water with a water hardness of 0.7 mmol/l (4 °dH) must be softened. This occurs automatically in the built-in water softener. The water softener must be set to the exact hardness of the mains water (see “Water softener/Setting the water hardness”).

Your local water authority will be able to tell you the exact degree of hardness in the mains water supply.

For future servicing it is useful to make a note of your water hardness level. Enter your water hardness level here:

_____ mmol/l or °dH

The water softener must be reactivated at regular intervals. This requires special reactivation salt (see “Water softener/Filling the salt reservoir”). Reactivation is carried out automatically during a programme sequence.

If the hardness level of your water is constantly less than 0.7 mmol/l (= 4 °dH), salt is not required for the water softener. The water hardness level must, however, still be set.

Setting the water hardness level

Water hardness can be set between 0 and 12.6 mmol/l (0 - 70 °dH).

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.
- Open the menu as follows:
 - ▶ Further settings
 - ▶ Water hardness



The bottom line of the display shows the possible input range. Water hardness input values can be found in the chart on the next page.

Where the water hardness fluctuates, e.g. between 1.4 - 3.1 mmol/l (8 - 17 °dH), always programme the machine to the higher value, 3.1 mmol/l (17 °dH) in this example.

- Set the water hardness level using the arrow buttons (\wedge = higher and \vee = lower).
- Press OK to save the setting.

Settings

°dH	°f	mmol/l	Display
0	0	0	0
1	2	0.2	1
2	4	0.4	2
3	5	0.5	3
4	7	0.7	4
5	9	0.9	5
6	11	1.1	6
7	13	1.3	7
8	14	1.4	8
9	16	1.6	9
10	18	1.8	10
11	20	2.0	11
12	22	2.2	12
13	23	2.3	13
14	25	2.5	14
15	27	2.7	15
16	29	2.9	16
17	31	3.1	17
18	32	3.2	18
19	34	3.4	19 *)
20	36	3.6	20
21	38	3.8	21
22	40	4.0	22
23	41	4.1	23
24	43	4.3	24
25	45	4.5	25
26	47	4.7	26
27	49	4.9	27
28	50	5.0	28
29	52	5.2	29
30	54	5.4	30
31	56	5.6	31
32	58	5.8	32
33	59	5.9	33
34	61	6.1	34
35	63	6.3	35

°dH	°f	mmol/l	Display
36	65	6.5	36
37	67	6.7	37
38	68	6.8	38
39	70	7.0	39
40	72	7.2	40
41	74	7.4	41
42	76	7.6	42
43	77	7.7	43
44	79	7.9	44
45	81	8.1	45
46	83	8.3	46
47	85	8.5	47
48	86	8.6	48
49	88	8.8	49
50	90	9.0	50
51	92	9.2	51
52	94	9.4	52
53	95	9.5	53
54	97	9.7	54
55	99	9.9	55
56	100	10.0	56
57	102	10.2	57
58	104	10.4	58
59	106	10.6	59
60	107	10.7	60
61	109	10.9	61
62	111	11.1	62
63	113	11.3	63
64	115	11.5	64
65	116	11.6	65
66	118	11.8	66
67	120	12.0	67
68	122	12.2	68
69	124	12.4	69
70	125	12.5	70

*) Factory default setting

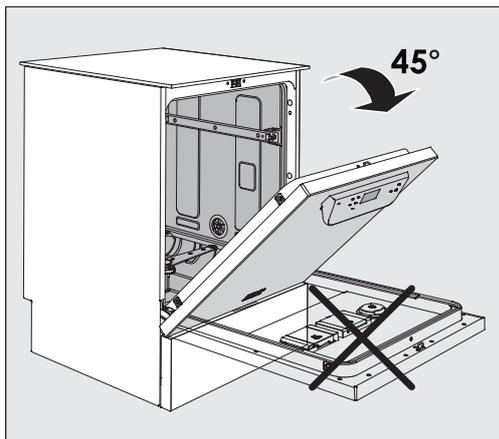
Filling the salt reservoir

Use only special, coarse-grained reactivation salt with a granule size of approx. 1 - 4 mm.

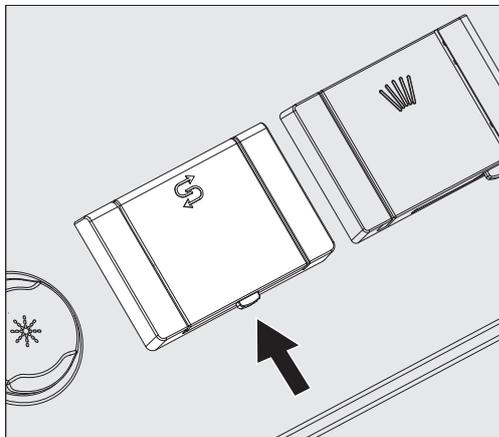
Do not under any circumstances use other types of salt such as table salt, agricultural or gritting salt. These may contain insoluble additives which can impair the functioning of the water softener.

⚠ Inadvertently filling the salt reservoir with cleaning agent will cause serious damage to the water softener.

Before filling the salt container make sure that you have picked up the right packet of reactivation salt.

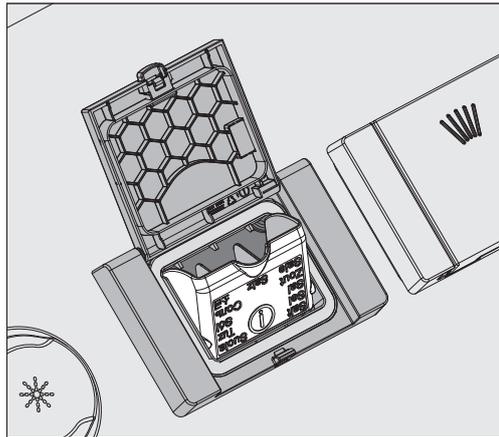


- Open the door to an angle of around 45°. This ensures that the salt flows into the container more easily.



- Press the yellow button with the  symbol on the salt container in the direction of the arrow. The flap will spring open .
- Open the funnel.

The container takes approx. 1.4–2 kg of salt, depending on the type of salt and the remaining fill level.



⚠ Never fill the container with water.
The container could overflow when filled with salt.

- Add salt into the container until the funnel is full but still closes easily. Do not add any more than 2 kg of salt.

As the salt container is being filled, displaced water (brine) may run out.

- Clean any excess salt from around the opening of the container, focusing especially on the container's seal. Do **not** use running water to rinse away salt residues as this can cause the container to overflow.
- Close the container.

⚠ Do not force the container shut if it has been overfilled.
If an overfilled salt container is forced shut, this may damage the container.
Remove excess salt before closing the container.

- Run the Rinsing programme after refilling the salt.

This will ensure that any traces of salt and brine are dissolved, diluted and rinsed away.

Excess salt and brine which has overflowed can cause corrosion damage if they are not rinsed away.

Water softener

Add salt reminder

If the salt level in the reservoir is low, the following reminder will appear:



- Confirm the message with the *OK* button and
- fill the reservoir as described.

When the message first appears, there may be sufficient salt for a further programme, depending on the water hardness level set.

If there is no saline solution left in the water softener, a relevant message will appear in the display and the machine will be locked for further use.

The machine can be used again a few seconds after the salt has been refilled.

Load carriers

The machine can be fitted with a variety of load carriers, which can be combined with a variety of inserts depending on the type and shape of load items.

Select accessories which are appropriate for the application.

Information on the individual areas of application can be found on the following pages in these operating instructions.

Miele offers suitable accessories including baskets and special load carriers for all areas of application defined in "Appropriate use". More information can be obtained from Miele.

Water supply

Load carriers with spray arms or other irrigation connectors are equipped with one or several connections for the water supply at the rear. When these are slid into the machine, the connections couple automatically with the water supply ports in the rear panel of the cabinet. The load carriers are held in position by the wash cabinet door when it is closed.

Unused couplings in the rear panel of the wash cabinet are closed mechanically.

Adjusting the upper basket

Height-adjustable upper baskets can be adjusted between three positions with 2 cm between each position to accommodate items of different heights.

To adjust the height, the brackets with rollers on the side of the upper basket and the water connector at the back of the basket have to be moved. The roller brackets are each secured to the upper basket by two screws. The water connector consists of the following components:

- A stainless steel plate with 2 apertures,
- a plastic connection piece and
- 6 screws.

Only adjust the upper basket horizontally. The baskets are not designed to be positioned on a slant (one side up, one side down). Altering the height will alter loading heights for both the upper and lower baskets.

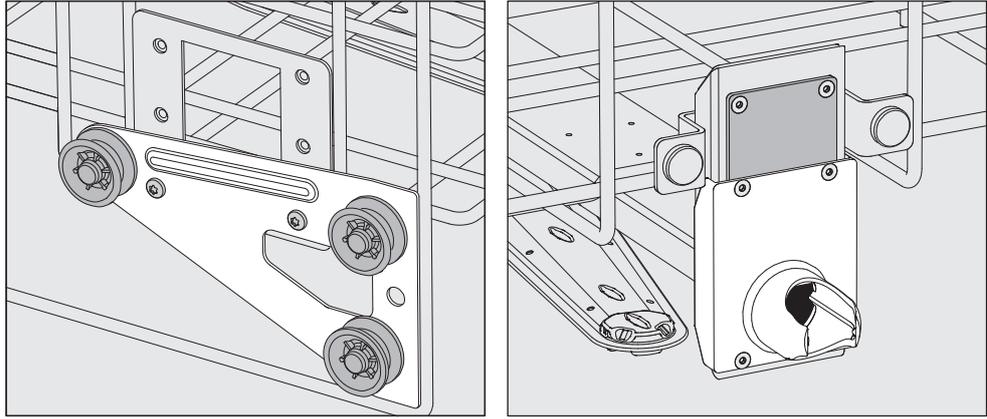
To adjust the upper basket:

- Remove the upper basket by pulling it out until a resistance is felt and lifting it off the runners.
- Unscrew the roller brackets and the water connector.

To adjust the upper basket to the ...

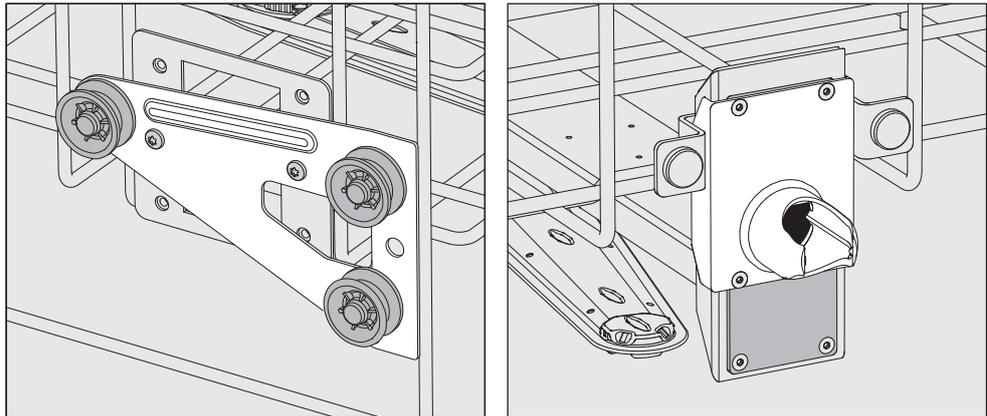
Areas of application

... Upper position:



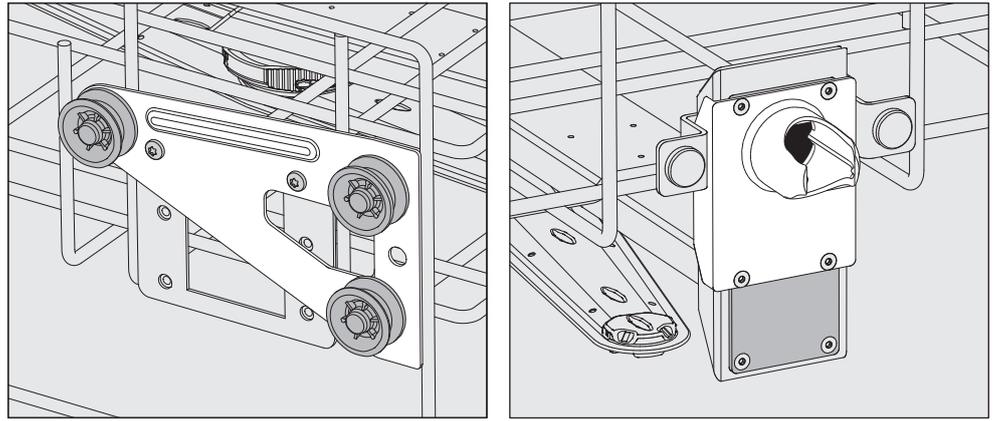
- Move the roller brackets on both sides to the lower position and secure them firmly.
- Position the stainless steel plate over the openings in the water supply pipe so that the upper aperture is covered. Secure the stainless steel plate at the top with 2 screws. Place the water connector in the lower aperture of the stainless steel plate so that the middle aperture is covered. Secure the water connector with 4 screws.

... Middle position:



- Move the roller brackets on both sides to the middle position and secure them firmly.
- Position the stainless steel plate over the openings in the water supply pipe so that one of the outer apertures is covered. Secure the stainless steel plate at the top or bottom with 2 screws. Place the water connector in the middle aperture of the stainless steel plate so that the outer aperture is covered. Secure the water connector with 4 screws.

... Lower position:



- Move the roller brackets on both sides to the top position and secure them firmly.
- Position the stainless steel plate over the openings in the water supply pipe so that the lower aperture is covered. Secure the stainless steel plate at the bottom with 2 screws. Place the water connector in the upper aperture of the stainless steel plate so that the middle aperture is covered. Secure the water connector with 4 screws.

Then check:

- Replace the upper basket on the rails and push it in carefully to check that the water connector is positioned correctly.

Preparing the load

⚠ Contaminated load items pose a health risk.

Contaminated load items can result in various hazards to the health, which can lead to infections, poisoning, injuries and more depending on the type of contamination.

When working with contaminated load items, ensure that all necessary measures are taken to protect personnel, e.g. wearing protective gloves.

⚠ Hazard due to change in material.

Lasting contact with wash water can cause seal material to swell. This will result in the seals losing their function.

Therefore, always close unused connections with protective caps or blind covers.

Only load items which have been declared by their manufacturer as suitable for machine reprocessing may be processed. The manufacturer's specific reprocessing instructions must be observed. Breathing equipment filters and disposable items may not be reprocessed.

- Take apart any items which can be dismantled according to the manufacturer's instructions and process the individual parts separately from each other.
- Place small and light items in a small-part basket so that they do not block the spray arms.
- Arrange the load items so that wash water can access all surfaces. This ensures thorough and proper cleaning. Do not place load items inside one another, as this impedes the cleaning process.
- Lumened load items must be thoroughly cleaned, internally and externally, with the wash water.
- The spray arms must not be blocked by load items which are too tall or which hang down in their path.
- Nickel and chrome-plated load items and load items made of aluminium are not generally suitable for machine reprocessing. They require special processing conditions.
- Items containing iron that can rust or corrode must not be added to the load or to the wash cabinet as contaminated items.

Preparing the load items

- Follow the manufacturer's instructions regarding pre-cleaning and pre-treatment as necessary.
- Remove any soot in line with the manufacturer's instructions.

 Risk of damage due to ferrous materials that can rust or corrode.

Ferrous materials that can rust or corrode can cause corrosion on the machine and the load items.

Ferrous materials that can rust or corrode must not be placed in the machine.

- Dismantle the load items in line with the manufacturer's instructions if possible.
- Place small parts in the small-part basket. Observe the colour coding of the compartments in the small-part basket.

Carry out a visual check before starting every programme:

- Are the load items correctly loaded and connected for cleaning?
- Was the recommended loading template followed?
- Is sufficient compressed air being supplied to the pressure chamber of the APFD 200 insert for reprocessing air regulators?
- Are the spray arms clean and do they rotate freely?
- Is the filter combination clean?
Remove any coarse soiling and clean the filter combination if necessary.
- Is the upper basket connected to the water supply correctly and is the connector free from damage?
- Are all process chemical containers sufficiently filled?

Check the following at the end of every programme:

- Is sufficient compressed air being supplied to the pressure chamber of the APFD 200 insert?
- Carry out a visual check of the load items for cleanliness.
- Have the pressure hoses of the air regulators disconnected from the quick-release couplings?

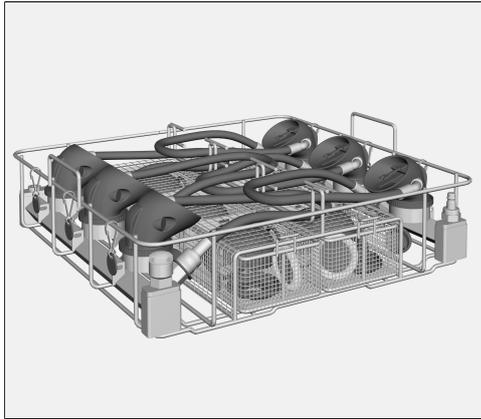
 Danger to health

If the pressure supplied to air regulators during reprocessing is too low or if medium-pressure hoses have disconnected from the quick-release couplings, wash water and particles can get inside the air regulators. The wash water may contain cleaning agents and disinfectants that are harmful to health.

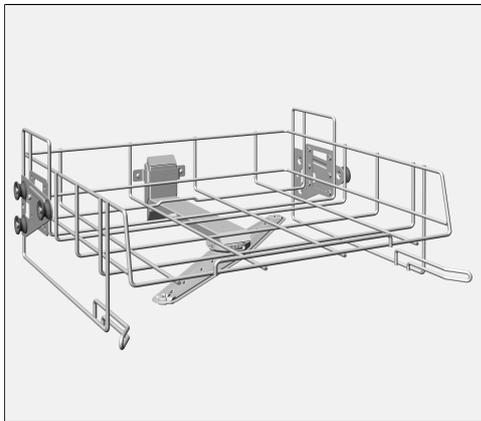
In both cases, the air regulators must be rinsed and dried internally in line with the manufacturer's instructions before being used again.

Areas of application

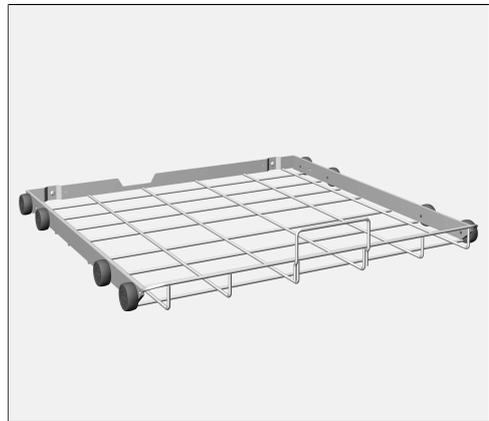
Air regulators



APFD 200



A 101



A 151

The APFD 200 insert is intended for reprocessing air regulators. The insert can be used together with the A 101 upper basket or the A 151 lower basket. The height-adjustable A 101 upper basket must be set to the lowest level for this; see “Adjusting the height of the upper basket”.

After reprocessing

- Check whether the medium-pressure hoses have disconnected from the quick-release couplings and whether the compressed air indicator is still showing sufficient pressure in the pressure chamber.

If the air regulators have disconnected from the quick-release couplings or there is not enough pressure in the pressure chamber, the air regulators must be rinsed and dried internally in line with the manufacturer's instructions before being used again.

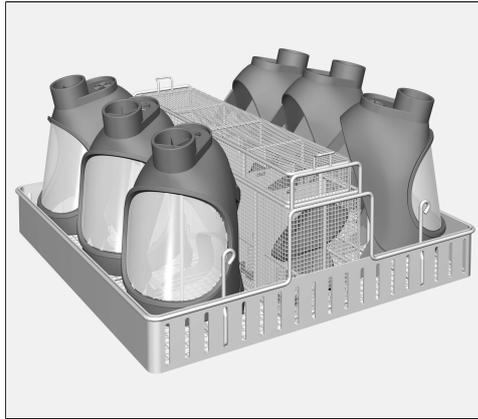
- Release the medium-pressure hoses by pulling back the collars on the quick-release couplings.
- Remove the air regulators and empty any remaining water into the wash cabinet or an on-site slops basin before removing items.
- Follow the air regulator manufacturer's instructions regarding drying, assembly and replacing wear parts.

 Risk of infection

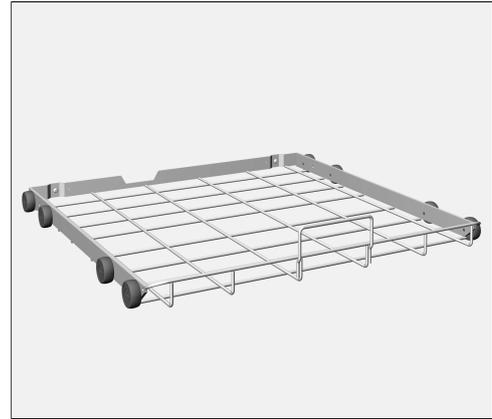
Before using the breathing apparatus again following reprocessing, carry out a function check in line with the manufacturer's instructions.

Areas of application

Breathing masks



APFD 201



A 151

The APFD 201 insert combined with the A 151 lower basket carrier is intended for reprocessing breathing masks. For this, the masks are pushed onto the holders on the insert.

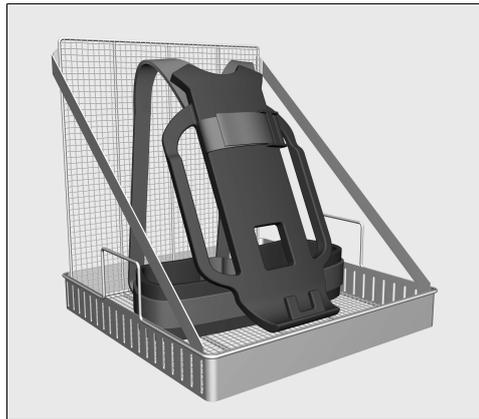
After reprocessing

- Remove the breathing masks and empty any remaining water into the wash cabinet or an on-site slops basin before removing items.
- Follow the breathing mask manufacturer's instructions regarding drying, assembly and replacing wear parts.

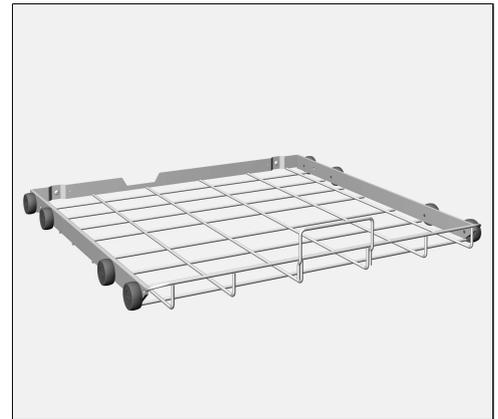
Risk of infection

Before using the breathing apparatus again following reprocessing, carry out a function check in line with the manufacturer's instructions.

Carrier frames for compressed air units



APFD 203



A 151

The APFD 203 insert combined with the A 151 lower basket carrier can be used for reprocessing carrier frames for compressed air units.

After reprocessing

- Remove the carrier frame and empty any remaining water into the wash cabinet or an on-site slops basin before removing items.
- Following the carrier frame manufacturer's instructions regarding drying and maintenance.

A function check on any pneumatic or electronic components, such as pressure indicators, must be carried out in line with the manufacturer's instructions before the carrier frame can be used again after reprocessing.

Adding and dispensing chemical agents

⚠ Unsuitable process chemicals pose a health risk.
Using unsuitable process chemicals will generally cause an unsatisfactory reprocessing result and can pose a health risk or cause damage to property.
Only use process chemicals designed specifically for use in this machine and follow the manufacturer's instructions on their use. Please carefully observe any instructions relating to non-toxic residues.

⚠ Process chemicals pose a health risk.
Some process chemicals may be corrosive and irritant.
Observe the relevant safety regulations and safety data sheets issued by the process chemical manufacturers when handling process chemicals.

Contact Miele for information about suitable process chemicals.

Dispensing systems

The machine is equipped with a number of internal dispensing systems for chemical agents:

- Rinsing agent
This is dispensed via a storage reservoir ☼ in the door.
- Powder cleaning agents
These are dispensed via the dispenser // in the door.

Dispensing module for liquid cleaning agent

An external dispensing module is required to dispense liquid cleaning agent. Dispensing modules are fitted by the Miele Customer Service Department or a suitably qualified service technician and can be retrospectively fitted at any time. Liquid cleaning agent is dispensed from an external container via a siphon. The siphon has a blue mark.

Miele recommends dispensing liquid cleaning agent.

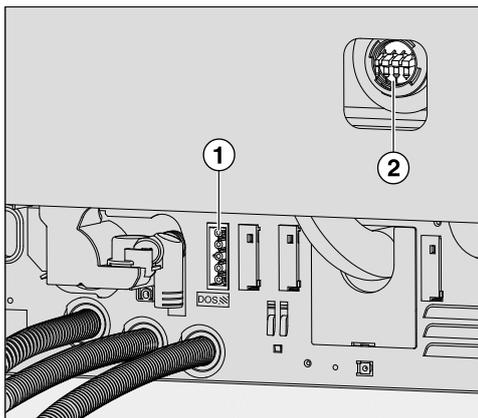
DOS modules

External DOS modules are fitted by Miele Service or a suitably qualified and approved technician. Internal dispensing systems cannot be retrospectively fitted.

Connecting a DOS module

The DOS module is supplied with its own installation instructions.

⚠ Before fitting the DOS module, compare the connection data (voltage and frequency) on the data plate with that on the data plate of your machine. If the data does not match, the module could sustain damage. If in any doubt, consult an electrician.



① Power supply for DOS 1, cleaning agent.

② Connection for dispensing hose.

- Connect the module to the electricity supply.
- To connect the dispensing hose, release the hose clip on a free connector and remove the safety cap.
- Push the dispensing hose onto the connector and secure it with a hose clip.

Unused connectors must be blanked off with safety caps to prevent the leakage of wash fluid.

Dispensing liquids For adjusting the dispensing concentration, see “Further settings/Dispensing systems”.

Adding and dispensing chemical agents

Rinsing agent

Rinsing agent is necessary to ensure water does not cling and leave marks on load items, and to help load items dry faster after they have been reprocessed.

The rinsing agent in the Final rinse programme stage is dispensed automatically. For this, the container must be filled.

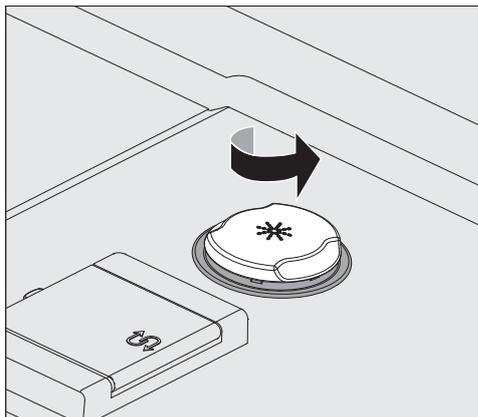
⚠ Risk of damage caused by rinsing agent.
Residues of rinsing agent remain on the surface of load items after they have dried.
It is important to check the suitability of the rinsing agent being used.

The dispensing of rinsing agent is deactivated ex-works.
Do not fill the container with rinsing agent when dispensing is deactivated.
If you wish to dispense rinsing agent, agree this with the load item manufacturer.
The dispensing of rinsing agent can only be activated by the Miele Customer Service Department.

Filling the reservoir

⚠ Risk of damage due to cleaning agents.
Do not fill the rinsing agent container with cleaning agent under any circumstances.
This will always destroy the rinsing agent container.
Only fill the rinsing agent container with rinsing agent.

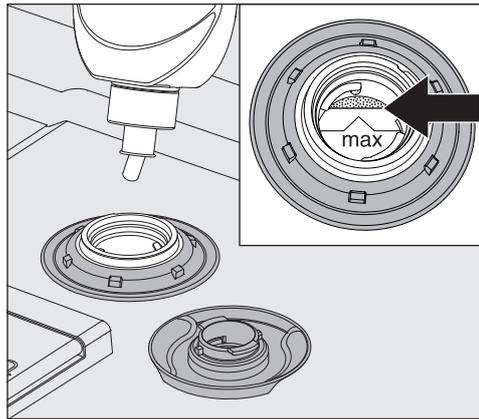
- Open the door fully.



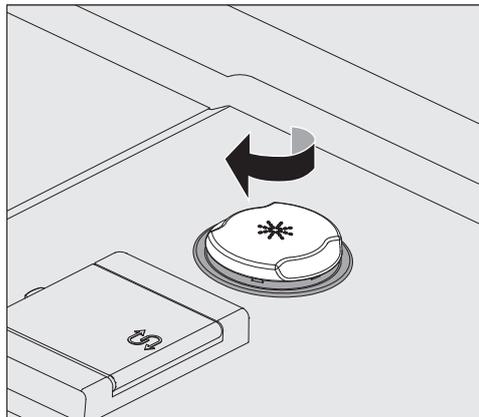
- Unscrew the yellow lid with the * symbol in the direction of the arrow.

The container holds approx. 300 ml.

Adding and dispensing chemical agents



- Add rinsing agent only until it is up to the “max.” mark on the edge of the funnel.



- Close the container.
- Wipe up any spilled rinsing agent. This prevents over-foaming occurring during the next programme.

Refill indicator

When the fill level is low in the (DOS 2) supply container for rinsing agent you are reminded to refill it.



- Confirm the message shown with *OK* and
- refill the rinsing agent as described.

Dispensing rinsing agent

For adjusting the dispensing concentration, see “Further settings/Dispensing systems”.

If spots appear on load items after reprocessing:

- Select a higher setting

If clouding or smearing appears on load items after reprocessing:

- Select a lower setting.

Adding and dispensing chemical agents

Cleaning agent

⚠ Risk of damage due to unsuitable cleaning agents.
Using unsuitable cleaning agents, such as a cleaning agent for a domestic dishwasher, will mean that the reprocessing result is not as expected.
Only use cleaning agents suitable for reprocessing air regulators and breathing masks.

You can use the machine with powder cleaning agent or dispense liquid cleaning agent via an external dispensing module.

Dispensing modules are fitted by the Miele Customer Service Department and can be retrospectively fitted at any time.

Miele recommends dispensing liquid cleaning agent.

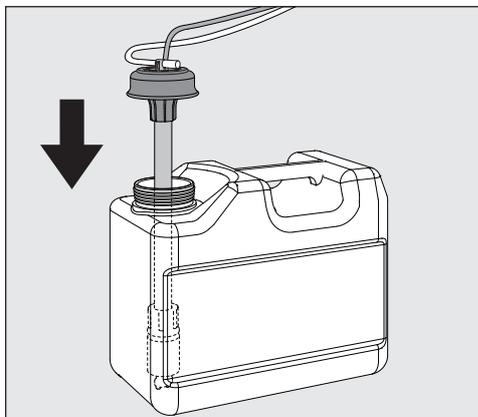
Dispensing liquid cleaning agent using an external dispensing module is pre-set ex-works.
It is not possible to dispense powder and liquid cleaning agent at the same time. If you wish to dispense powder cleaning agent, contact the Customer Service Department.
Do not fill the dispenser in the door with cleaning agent if dispensing is performed using an external dispensing module.

For cleaning specific types of soiling, and for information on the optimum cleaning agents and additives to use for liquid dispensing, please contact the Miele Customer Service Department.

Replenishing liquid cleaning agent

Liquid cleaning agent is dispensed from an external container, e.g. a canister.

- Place the liquid cleaning agent container (blue marking) on the open chamber door or on a surface which is robust and easy to clean.
- Take the lid off the canister and remove the suction lance. Place the suction lance on the open wash cabinet door.
- Replace the empty container with a full one.



- Push the suction lance into the opening of the container and secure the lid. Observe the colour coding.

Adding and dispensing chemical agents

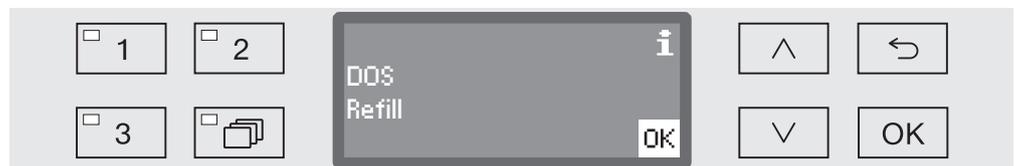
- Feed the suction lance into the container until it reaches the bottom.
- Wipe up any spilled process chemical thoroughly.
- Place the container on the floor next to the machine or in an adjacent cupboard. The container must not be placed on top of or above the machine. Make sure that the dispensing hose is not kinked or trapped.
- The dispensing system must then be vented (see “Settings ▸/DOS venting”).

Checking consumption

Check consumption regularly by checking the fill levels in the supply containers and replace containers in good time to avoid the dispensing system being sucked completely dry.

Refill indicator

When the fill level is low in the DOS 1 supply container for liquid cleaning agent you are reminded to replenish it.



- Confirm the message shown with *OK* and
- replenish the liquid cleaning agent as described.

If the liquid cleaning agent has run out, the machine will be locked for further use.
It will be ready for use again when the supply container has been replaced.

Dispensing liquid cleaning agent

For adjusting the dispensing concentration, see “Further settings/Additional functions/Dispensing systems”.

Adding and dispensing chemical agents

Powder cleaning agents

Dispensing liquid cleaning agent using an external dispensing module is pre-set ex-works.

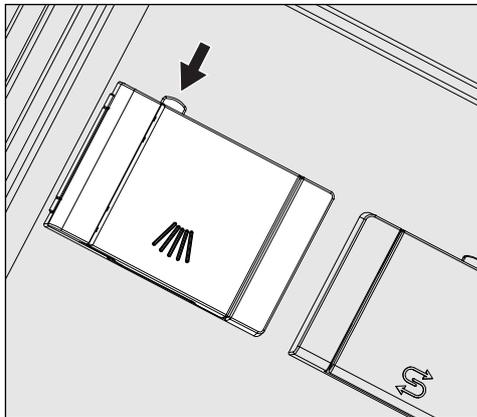
It is not possible to dispense powder and liquid cleaning agent at the same time. If you wish to dispense powder cleaning agent, contact the Customer Service Department.

Do not fill the dispenser in the door with cleaning agent if dispensing is performed using an external dispensing module.

Dispensing powder cleaning agents

⚠ Take care not to inhale powder cleaning agents. Swallowing process chemicals can cause chemical burns in the mouth and throat or lead to asphyxiation.

- Add powder cleaning agent to the dispenser with the  symbol before starting the programme. Do not dispense powder cleaning agent in the Rinsing and Drain programmes.



- Press the yellow button on the dispenser with the  symbol.

The flap will spring open. The flap is always open at the end of a programme cycle.

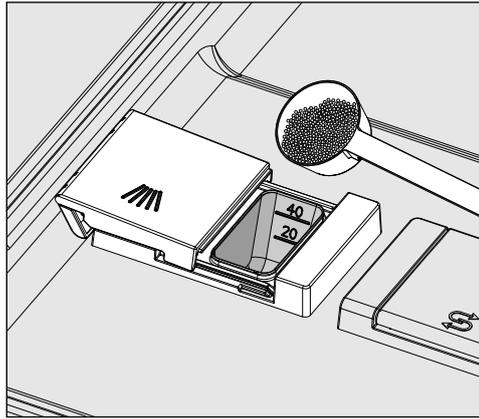
The level markers in the powder container with the door in the horizontal position equate to the amount dispensed in millilitres (ml). The max. capacity is approx. 60 ml of cleaning agent.

The amount in ml equates to approx. the amount normally recommended in grams (g) for proprietary powder cleaning agents. Powder density can affect this amount.

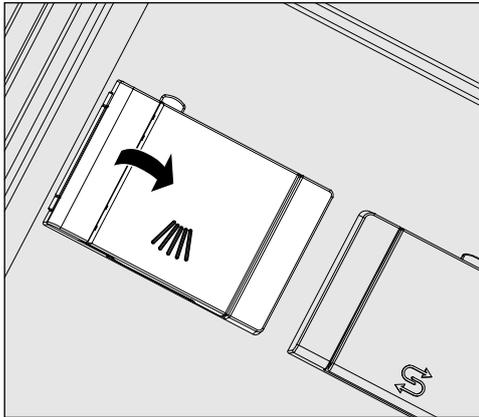
Dispensing example:

Approx. 10.5 l of water are taken into the machine for the main wash. With a cleaning agent concentration of approx. 3 g/l, you will need approx. 30 g of cleaning agent. Please observe manufacturer's recommendations, which may vary!

Adding and dispensing chemical agents



- Add powder cleaning agent to the dispenser.



- Close the flap.

⚠ Make sure that all of the cleaning agent has dissolved at the end of the programme.

Repeat the programme if residual cleaning agent is present.

Check whether any load items have prevented the flushing out of the dispenser and rearrange the load items if necessary.

Selecting a programme

Programme selection buttons

- Select a programme using programme selection buttons 1, 2 or 3.

Programme list

- Press the  button and
- use the ^ and v arrow buttons to highlight a programme and confirm your selection with OK.



The LED in the button selected lights up and the relevant programme appears in the display. The LED in the *Start/Stop* button also starts to flash.

Another programme can be selected at any time before a programme has started. Once it has started, programme selection is locked.

The different programmes and their uses are described in “Programme chart” at the end of these operating instructions.

Always select the programme depending on degree and type of soiling.

Starting a programme

- Close the door.
- Press the *Start/Stop* button.
The LED in the button will light up constantly.

Starting a programme using delay start

The start of a programme can be delayed, for example, to benefit from economy rates of electricity at night. Starting from the programmed time, a delay start time between 1 minute and 24 hours can be selected in one minute increments (see “Settings /Time of day”).

The connection between the quick-release couplings on the APFD 200 insert and the medium-pressure hoses for the air regulators may not be absolutely tight, meaning that pressure will drop over time.

If the pressure drops too much, the wash water may enter the air regulators.

Therefore, supply the insert with pressure as close to the programme start as possible.

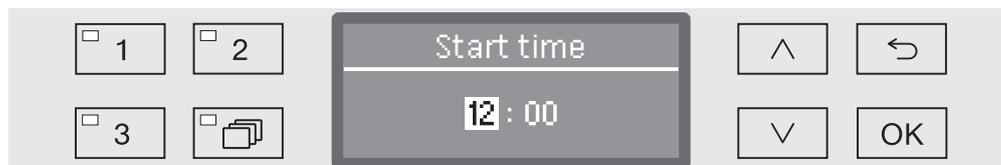
The delay start may only be used for reprocessing breathing masks.

Delay start must be switched on (see “Settings /Delay start”).

If soiling is left to dry on the load for longer, the reprocessing result can be adversely affected. There is also a risk of corrosion for stainless steel items.

Setting the start time

- Select a programme.
- Press the *OK* button before starting the programme.



- Use the arrow buttons \wedge (higher) and \vee (lower) to set the hours, and confirm your selection with the *OK* button.

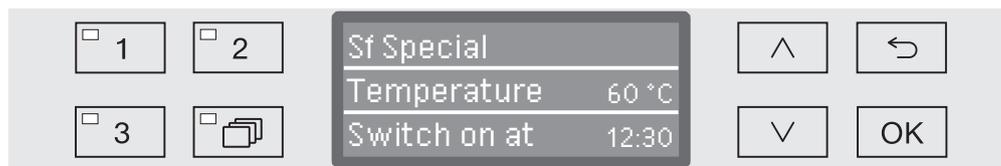
When the *OK* button is pressed, the display jumps automatically to the next input position. You cannot go back to the previous entry. If a mistake is made, the process must be cancelled using the \curvearrowright button and repeated.

- Set the minutes using the arrow buttons \wedge (higher) and \vee (lower), and save your entry with *OK*.

The start time is now saved and can be changed as described at any time up to activation of delay start.

Activating delay start

- Delay start is activated with the *Start/Stop* button.



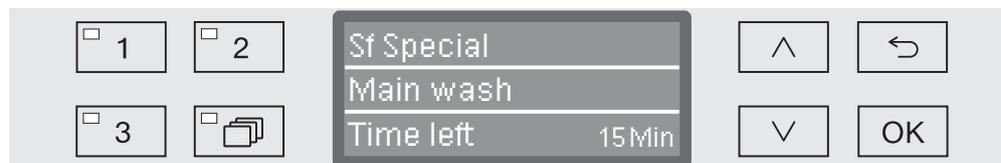
The selected programme with the set start time is then shown on the display. If automatic deactivation has been selected (see “Further settings/Switch off after”), the machine will switch itself off after the set time until the programme start time is reached.

Deactivating delay start

- Press the \curvearrowright button or switch the machine off using the ⏻ button.

Programme sequence indicator

After the programme has started, the programme sequence can be followed on the three-line display.



Top line

- Programme name.

Middle line

The following parameters can be checked using the \wedge and \vee arrow buttons:

- Current programme block, e.g. Main wash
- Actual or required temperature (depending on the display set, see “Further settings/Display: Temperature”)

Bottom line

- Time left (in hours; under an hour, in minutes).

At the end of the programme

The following messages and parameters appear at the end of a programme:

Top line

- Programme name.

Middle line

- Temperature (required temperature of the final wash phase)

Bottom line

- Programme finished.

The LED in the *Start/Stop* button goes out. In the factory default state, an acoustic tone also sounds for approx. 10 seconds (see “Settings/Volume”).

Ending the programme

- Open the door to end the programme. The machine must be switched on when you do this.

Interrupting a programme

⚠ Be careful when opening the door.
The load could be hot. Danger of scalding, burning, and chemical burns.

A programme which is already running should only be interrupted if strictly necessary, e.g. if the load is moving about significantly.

- Open the door.

The display shows the following message:



- Rearrange the items so that they are stable and close the door.

The programme continues from the point at which the interruption occurred.

Cancelling a programme

⚠ Be careful when opening the door.
The load could be hot. Danger of scalding, burning, and chemical burns.

Programme cancelled due to a fault

The programme stops and an error message appears on the display. Take appropriate steps to resolve the fault, depending on its cause (see "Problem solving guide").

Cancelling a programme manually

A programme which is already running should only be cancelled if strictly necessary, e.g. if the load is moving about significantly.

- Press and hold the *Start/Stop* button until the display changes to the following view:



- Use the ^ and v arrow buttons to select the Yes option.
- Confirm the selection with OK; this will cancel the programme.

Selecting No will cause the programme to continue without interruption. If no button is pressed for several seconds, or if the process is cancelled using the ↶ button, the display will revert to the programme sequence display.

Restarting the programme

- Before starting the programme, check to see whether any more powder cleaning agent is required.
- Start the programme again or select a new programme.

The structure of the Settings  menu is shown below. The menu incorporates all relevant functions to support daily routine tasks.

In the structure overview all options which can be permanently selected have boxes beside them. Factory settings are indicated by a tick . You will find an explanation of how to change settings after the overview.

- Settings 
- ▶ Delay start
 - ▶ No
 - ▶ Yes
- ▶ DOS venting
 - ▶ DOS_
- ▶ Language 
 - ▶ deutsch
 - ▶ english (GB)
 - ▶ ...
- ▶ Date
 - ▶ Date format
 - ▶ DD:MM:YY
 - ▶ MM:DD:YY
 - ▶ Set
- ▶ Volume
 - ▶ Keypad tone
 - ▶ Buzzer tones
 - ▶ Programme end
 - ▶ Warning

Delay start

This setting must be activated for delay start to be available for use.

- Open the systems menu by switching the machine off with the  button and then with the  held in switch it back on with the  button.
- Open the menu as follows:
 - ▶ Settings 
 - ▶ Delay start



- No

Delay start is deactivated.

- Yes

Delay start is activated and can be used for all programmes.

- Select an option using the  and  arrow buttons.
- Press *OK* to save the setting.

DOS venting

The dispensing system for liquid chemical agents can only dispense reliably if the system has been purged of air.

The DOS system must only be vented:

- if the dispensing system is being used for the first time,
- if the liquid cleaning agent container has been replaced,
- if the dispensing system has been sucked completely dry.

Before venting, ensure that the liquid chemical agent container is sufficiently full and the siphons are securely screwed to the containers. Only one DOS system can be vented at a time.

■ Open the systems menu by switching the machine off with the  button and then with the  held in switch it back on with the  button.

■ Open the menu as follows:

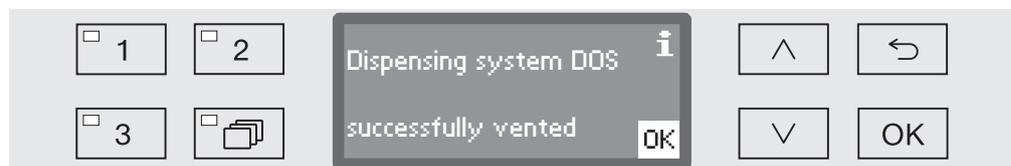
- ▶ Settings 
- ▶ DOS venting
- ▶ DOS... (name of dispensing system)



Automatic venting will start when the dispensing system is selected. Once started, the automatic venting process can no longer be cancelled.

- Select a dispensing system using the \wedge and \vee arrow buttons.
- Press *OK* to start the venting process.

Automatic venting is successfully completed when the following message appears in the display:

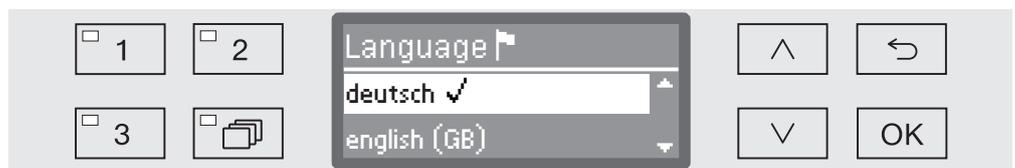


Language

The language set will be used in the display.

- Open the systems menu by switching the machine off with the  button and then with the  held in switch it back on with the  button.
- Open the menu as follows:
 - ▶ Settings 
 - ▶ Language 

The flag symbol  after the Settings  and Language  menu options acts as a guide if a language which you do not understand has already been set.



A list of all the available languages will be displayed. The language currently selected is marked with a tick ✓.

The factory default language is set as German.

- Use the  and  arrow buttons to select the language you want.
- Press *OK* to save the setting.

The display will change immediately to the language selected.

Date

The date format and the current date have to be set.

Select the date format

The selected date format appears in the display and in the process documentation.

- Open the systems menu by switching the machine off with the  button and then with the  held in switch it back on with the  button.
- Open the menu as follows:
 - ▶ Settings 
 - ▶ Date
 - ▶ Date format



- DD = Day
- MM = Month
- YY = Year
- Use the  and  arrow buttons to select the date format you want.
- Press *OK* to save the setting.

Set the date

The current date will be set in the selected date format.

- Open the systems menu by switching the machine off with the  button and then with the  held in switch it back on with the  button.
- Open the menu as follows:
 - ▶ Settings 
 - ▶ Date
 - ▶ Set



- Use the arrow buttons  (higher) and  (lower) and confirm your entry using the *OK* button.

When the *OK* button is pressed, the display jumps automatically to the next input position. You cannot go back to the previous entry. If a mistake is made, the process must be cancelled using the  button and repeated.

- Use the arrow buttons  (higher) and  (lower) to set the month/day and confirm your entry using the *OK* button.
- Use the arrow buttons  (higher) and  (lower) to set the year and press the *OK* button to save the date.

The date will be saved when the *OK* button is pressed for the last time.

Time of day

The time of day is required for delay start and the display, for example. The date format and the current time of day have to be set.

There is no automatic adjustment between summer and winter time (daylight savings).
You need to make this adjustment yourself as necessary.

Selecting the time of day format

To set the format for the time of day in the display:

- Open the systems menu by switching the machine off with the  button and then with the  held in switch it back on with the  button.
- Open the menu as follows:
 - ▶ Settings 
 - ▶ Time of day
 - ▶ Clock display



- 12 h

Time of day in 12 hour format (am/pm).

- 24 h

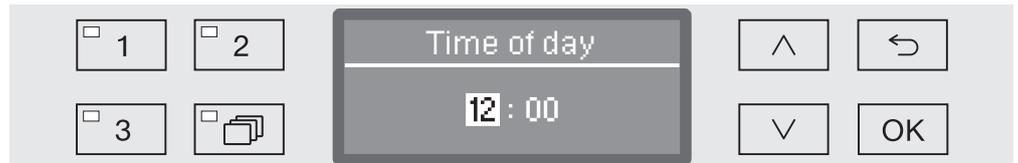
Time of day in 24 hour format.

- Use the  and  arrow buttons to select the date format you want.
- Press *OK* to save the setting.

Set the time of day

To set the format for the time of day:

- Open the systems menu by switching the machine off with the  button and then with the  held in switch it back on with the  button.
- Open the menu as follows:
 - ▶ Settings 
 - ▶ Time of day
 - ▶ Set



- Use the arrow buttons  (higher)  (lower) to set the hours and confirm your entry with the *OK* button.

When the *OK* button is pressed, the display jumps automatically to the next input position. You cannot go back to the previous entry. If a mistake is made, the process must be cancelled using the  button and repeated.

- Use the arrow buttons  (higher) and  (lower) to set the minutes and press the *OK* button to save the time of day.

The time of day will be saved when the *OK* button is pressed for the last time.

Display

If necessary, the machine may be placed in standby mode during breaks in operation.

- An option to display the time of day must be selected for this purpose.
- Additionally, automatic shutdown must be activated and a wait time set in “Further settings/Switch off after”.

Once the set wait time has elapsed, the machine is in standby mode. During standby, the machine remains switched on and the time is shown on the display. Pressing any button reactivates the machine.

- Open the systems menu by switching the machine off with the  button and then with the  held in switch it back on with the  button.

- Open the menu as follows:

- ▶ Settings 
- ▶ Time of day
- ▶ Display



- On

Once the set wait time has elapsed, the machine is permanently in standby, and the time appears on the display.

- On for 60 seconds

Once the wait time has elapsed, the machine can be reactivated for use for a period of 60 seconds, during which the time appears on the display. After 60 seconds, the machine switches itself off.

- Do not display

Once the set wait time has elapsed, the machine switches off, and no time appears on the display.

- Select an option using the  and  arrow buttons.
- Press *OK* to save the setting.

Volume

A buzzer which is integrated into the control panel can give an acoustic signal in the following situations:

- When buttons are pressed (keypad tone)
- At the end of the programme
- System messages (information)
- Open the systems menu by switching the machine off with the  button and then with the  held in switch it back on with the  button.

- Open the menu as follows:

- ▶ Settings 
- ▶ Volume



- Buzzer tones

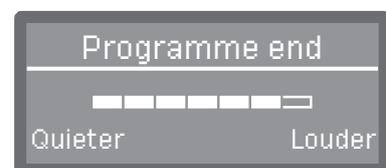
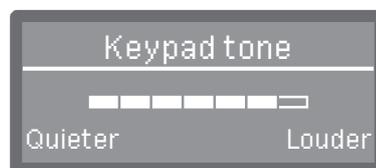
Setting the buzzer volume for programme end and system messages (information)

- Keypad tone

Setting the buzzer volume for keypad tone.

- Select an option using the  and  arrow buttons.
- Confirm your selection with *OK*.

When Keypad tone has been selected you can adjust the volume immediately. When Buzzer tones has been selected you must first select which tone, Warning or Programme end, you would like to adjust the volume for.



The volume level is represented by a bar chart. On the lowest setting the buzzer tone is switched off.

- Use the arrow buttons  (Louder) and  (Quieter) to set the volume.
- Press *OK* to save the setting.

Further settings

The Further settings menu incorporates all administrative processes and settings.

The Further settings menu can only be accessed by using a code. If you do not have the code, contact a user with appropriate access rights or cancel the process using the ↩ button.

In the structure overview all options which can be permanently selected have boxes beside them. Factory settings are indicated by a tick . You will find an explanation of how to change settings after the overview.

Further settings

- ▶ Code
 - ▶ Release
 - ▶ Further settings
 - ▶ Block
 - ▶ Yes
 - ▶ Change code
 - ▶ Log book
 - ▶ Consumption: Water
 - ▶ Consumpt.: Clean. agent
 - ▶ Consumpt.: Rinsing agent
 - ▶ Operating hours
 - ▶ Wash cycles
 - ▶ Service interval
 - ▶ Temperature unit
 - ▶ °C
 - ▶ °F
 - ▶ Move programme
 - 1 Sf Special
 - 2 Sf Special Plus
 - 3 Vario Chem
 - ▶ Additional functions
 - ▶ Reset
 - ▶ Increased water level
 - ▶ Interim rinse
 - ▶ Dispensing system
 - ▶ Active
 - ▶ Inactive
 - ▶ DOS venting
 - ▶ Concentration
 - ▶ Change name
 - ▶ Temperature / time
 - ▶ ...

- ▶ Release programme
 - ▶ All
 - ▶ Selection
 - ▶ ...
- ▶ Water hardness ⇨ 19
- ▶ Display view
 - ▶ Actual temperature
 - ▶ Required temperature
- ▶ Display
 - ▶ Contrast
 - ▶ Brightness
- ▶ Switch off after
 - ▶ Yes
 - ▶ No
- ▶ Factory default
 - ▶ Reset
 - ▶ Programme settings only
 - ▶ All settings
 - ▶ No
- ▶ Software version
 - ▶ EB ID XXXXX
 - ▶ EGL ID XXXXX
 - ▶ EZL ID XXXXX
 - ▶ EFU ID XXXXX
 - ▶ LNG ID XXXXX

Further settings

Code

The Further settings menu incorporates relevant functions and system settings which require an enhanced knowledge of machine reprocessing. Access to the menu can therefore be protected by a four digit code.

It is not possible to block individual options or the inputting of multiple codes at the same time.

 If a code is lost, a new code must be issued by Miele Service.

Enter code

If access to the Further settings menu is blocked, you will be prompted to enter the code when it is selected.



If you do not have the code, contact a user with appropriate access rights or cancel the process using the  button.

- Use the arrow buttons \wedge (higher) and \vee (lower) to enter the relevant digits.
- Confirm each digit individually with the *OK* button.

When the *OK* button is pressed, the display jumps automatically to the next input position. You cannot go back to the previous entry. If a mistake is made, the process must be cancelled using the  button and repeated. Entered digits are replaced by a * symbol.

If all digits are entered correctly the menu will be released.

If an incorrect entry is made, an error message will appear.



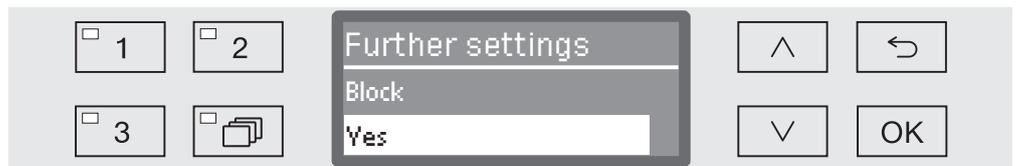
- Confirm the message with *OK*.

Access remains blocked and the display reverts to the menu selection.

Release

The following function can be used to restrict access to the Further settings menu via a code or to take the restriction off.

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.
- Open the menu as follows:
 - ▶ Further settings
 - ▶ Code
 - ▶ Release
 - ▶ Further settings



- Block

The menu is only accessible by using a code.

- Yes

The menu is available to all users.

- Select an option using the \wedge and \vee arrow buttons.
- Press *OK* to save the setting.

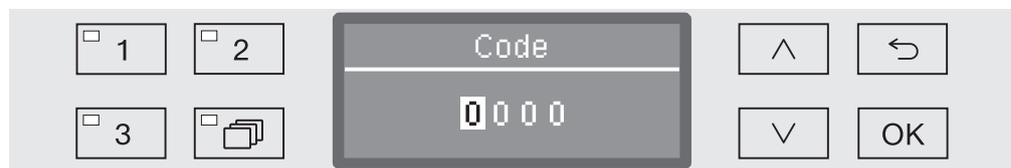
Further settings

Change code

The PIN code consists of a four digit number and is set by the user. Each digit can be programmed freely between 0 and 9.

⚠ When a new PIN code is entered, the old PIN code is overwritten and is permanently deleted. Therefore it cannot be reinstated. If a PIN code is lost, a new code must be issued by the Miele Customer Service Department.

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.
- Open the menu as follows:
 - ▶ Further settings
 - ▶ Code
 - ▶ Change code



- Use the arrow buttons \wedge (higher) and \vee (lower) to enter the relevant digits.
- Confirm each digit individually with the *OK* button.

When the *OK* button is pressed, the display jumps automatically to the next input position. You cannot go back to the previous entry. If a mistake is made, the process must be cancelled using the  button and repeated. Entered digits are replaced by a * symbol.

The code is saved to memory once you have confirmed the last digit.

Log book

The entire life cycle of the machine, including consumption data for water and chemical agents, as well as operating hours and programme cycles are recorded in the log book.

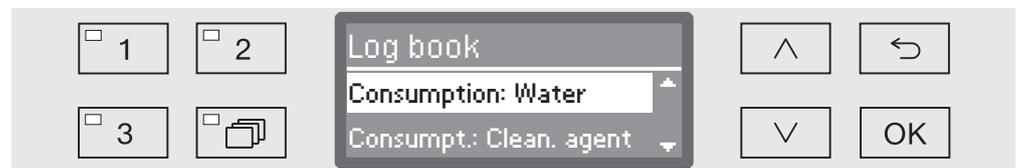
Miele Service can also use the log to calculate a recommendation for service intervals.

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.

- Open the menu as follows:

- ▶ Further settings

- ▶ Log book



- Consumption: Water
Display the total amount of water used in litres (l).
- Consumpt.: Clean. agent
Display the total amount of liquid cleaning agent used in litres (l). Powder cleaning agent is not shown.
- Consumpt.: Rinsing agent
Display the total amount of rinsing agent used in litres (l).
- Operating hours
Display the total number of operating hours.
- Programme cycle counter
Total of all completed programme sequences. There is no breakdown of individual programmes. Cancelled programmes are not included.
- Service interval
Date of the next service (entered by the Miele Customer Service Department).
- Select an option using the  and  arrow buttons and confirm your choice with *OK*.

Values in the machine log book cannot be altered.

- Press the  button to exit the menu.

Further settings

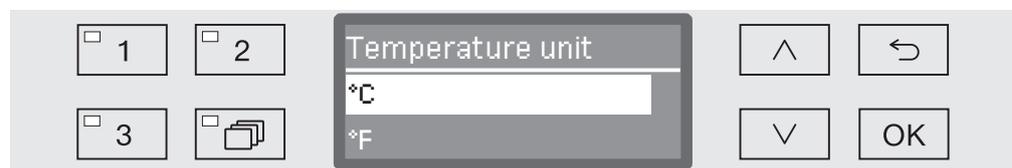
Temperature unit

During a programme the temperature display is refreshed every 2 to 5 seconds depending on the programme stage. The temperature can be displayed in degrees Celsius (°C) or Fahrenheit (°F).

The temperature unit is set at the factory to °C.

When the temperature unit is changed to °F, the temperature displayed is automatically recalculated.

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.
- Open the menu as follows:
 - ▶ Further settings
 - ▶ Temperature unit



- °C

Display temperature in degrees Celsius.

- °F

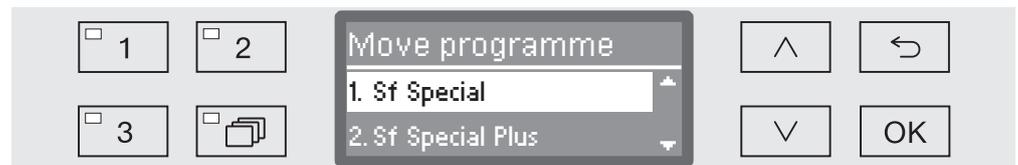
Display temperature in degrees Fahrenheit.

- Select an option using the \wedge and \vee arrow buttons.
- Press *OK* to save the setting.

Moving a programme: allocating programme selection buttons

You can sort the programme selection list to suit your requirements and therefore also allocate the programme selection buttons 1, 2 and 3.

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.
- Open the menu as follows:
 - ▶ Further settings
 - ▶ Move programme



All released programmes are shown in the programme list (see “Further settings/Programme release”). A programme's position in the programme list is decisive for allocating the programme selection buttons. Programmes are numbered from 1 - n. The first three programmes in the list are allocated to the programme selection buttons; for example:

- 1. Sf Special on programme selection button 1
- 2. Sf Special Plus on programme selection button 2
- 3. Vario Chem on programme selection button 3
- 4. Rinsing
- etc.

- Use the  and  arrow buttons to select the programme you would like to move.
- Confirm your selection with *OK*.

Now you can move this programme within the list.

- Use the  and  arrow buttons to move the programme to the position you want.
- Press *OK* to save the programme to the selected position.

The programme which was previously saved to this position and all subsequent programmes are moved down by one position.

The process can be repeated as often as you wish.

- Press the  button to exit the menu.

Further settings

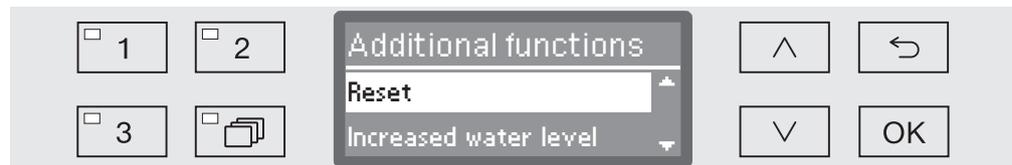
Additional functions

You can use this menu to customise the current programme to suit technical requirements and the load items or to reset all additional functions to the factory default settings.

Additional specialist knowledge is required to alter programme settings and this should therefore be undertaken only by experienced users or by the Miele Customer Service Department.

Only make changes to programmes in consultation with the manufacturers of the air regulators and breathing masks or with Miele.

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.
- Open the menu as follows:
 - ▶ Further settings
 - ▶ Additional functions



- Reset

All parameters that have been set under “Additional functions” will be reset to the factory setting.

- Increased water level

The water level will be increased for all programmes.

- Interim rinse

All programmes that this option is intended for will have an extra interim rinse stage (see the programme chart).

- Dispensing system

Vent the dispensing system and rename it.

- Temperature / time

Adjust the temperature and holding time for the Main wash or Final rinse programme block.

- Use the  and  arrow buttons to select an option and confirm your selection with *OK*.

See the next section for details of how to continue.

Reset

You can reset altered additional function parameters back to their default settings if necessary. This does not apply to further settings.

...

▶ Reset



- No

Altered parameters are maintained.

- Yes

All parameters will be reset to the factory default setting.

- Select an option using the \wedge and \vee arrow buttons.
- Press *OK* to save the setting.

Increased water level

It is advisable to increase the water level when a lot of water is absorbed due to the structure of the load items, in the event of heavy soiling or when the type of stain (e.g. blood) and the process chemicals used lead to excess foam development. The additional volume of water depends on the type of basket or mobile unit used, the type of stain and the load items.

...

▶ Change volume of water



The volume of water can be modified in increments of 0.5 l. The possible range is shown in the bottom line of the display.

- Use the \wedge (higher) and \vee (lower) arrow buttons to adjust the volume of water.
- Press *OK* to save the setting.

Further settings

Interim rinse

Some programmes have the option of adding an extra interim rinse (see “Programme chart”).

...

▶ Interim rinse



- No

The additional interim rinse block is deactivated.

- Yes

The additional interim rinse block is activated for all applicable programmes.

- Select an option using the \wedge and \vee arrow buttons.
- Press *OK* to save the setting.

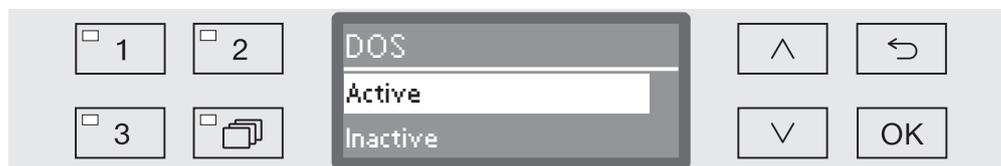
Dispensing systems

Individual dispensing systems can be activated or deactivated for all programmes as follows.

...

▶ Dispensing system

▶ DOS... (name of dispensing system)



- Active

The selected dispensing system is activated. Dispensing will only occur in the appropriate wash blocks (see Programme charts).

- Inactive

The selected dispensing system is deactivated for all programmes.

■ Select an option using the ^ and v arrow buttons.

■ Press *OK* to save the setting.

If the dispensing systems have been activated (*Active*) the following options are also available:

- DOS venting

Vent the dispensing system.

- Concentration

Set the dosage concentration level. The setting applies to all programmes.

- Change name

Change the name of the dispensing system.

With DOS 2 Rinsing agent the only option shown is Concentration.

Further settings

DOS venting

The dispensing system for liquid chemical agents can only dispense reliably if the system has been purged of air.

The DOS system must only be vented:

- if the dispensing system is being used for the first time,
- if the liquid cleaning agent container has been replaced,
- if the dispensing system has been sucked completely dry.

Before venting, ensure that the liquid chemical agent container is sufficiently full and the siphons are securely screwed to the containers. Only one DOS system can be vented at a time.

...

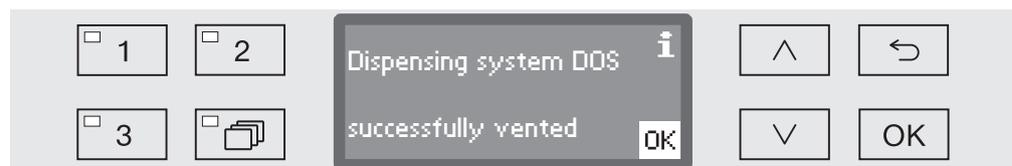
- ▶ Dispensing system
 - ▶ DOS_
 - ▶ DOS venting



Automatic venting will start when the dispensing system is selected. Once started, the automatic venting process can no longer be cancelled.

- Select a dispensing system using the \wedge and \vee arrow buttons.
- Press *OK* to start the venting process.

Automatic venting is successfully completed when the following message appears in the display:



Concentration

Dispensing concentration for liquid chemical agents, e.g. in the case of a change of manufacturer, can be adjusted for all programmes at once.

Dispensing concentration must be set in accordance with the manufacturer's instructions or with the required processing result.

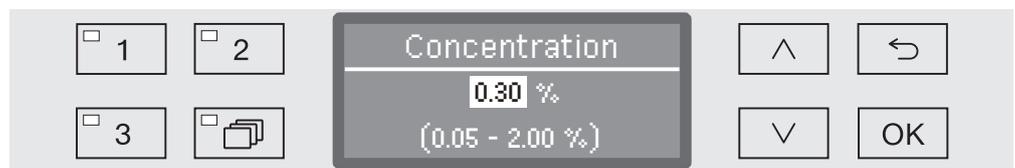
Consumption of liquid agents is recorded in the log book (see "Further settings/Log book").

...

▶ Dispensing system

▶ DOS_

▶ Concentration



Dispensing concentration can be adjusted in increments of 0.01. The possible range is shown in the bottom line of the display.

- Set the concentration using the arrow buttons \wedge (higher) and \vee (lower).
- Press *OK* to save the setting.

Further settings

Changing the name

If required, the names of the dispensing systems – “DOS1”, etc. – can be extended to include additional information, e.g. “DOS1 cleaning agent”. The name “DOS” and the accompanying number cannot be changed.

Use this option to document all changes to factory settings in case of a subsequent Service call requirement.

If the option

- Change name

has been selected, the display changes to the following view:



The current name is shown on the second line of the display. This can be changed using the options shown in the bottom line. The top line shows which option has been selected from the bottom line.

Names may consist of up to 15 characters including spaces. The following options are available:

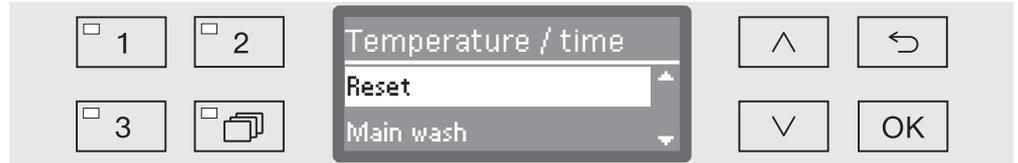
- Letters from A to Z, each new word will start with a capital letter.
- Numbers from 0 to 9.
- Space _.
- Use the  symbol to delete the last position.
- The name is saved when the  symbol in the display is selected. The display will then revert to the initial menu.
- The  symbol in the display or the  button end the process without saving the name change. The display reverts to the initial menu.
- Use the arrow buttons  (right) and  (left) to move the cursor to the option you require.
- Confirm each entry with *OK*.

Temperature / time

You now have the option of adjusting the temperature and holding time in the main wash and final rinse stages of individual programmes.

...

► Temperature / time



- Reset

The parameters in all programmes will be reset to their factory settings.

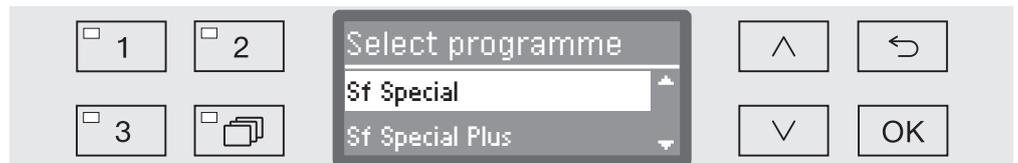
- Main wash

Adjust temperature and holding time for this programme block.

- Final rinse

Adjust temperature and holding time for this programme block.

- Select an option using the \wedge and \vee arrow buttons and confirm your selection with *OK*.

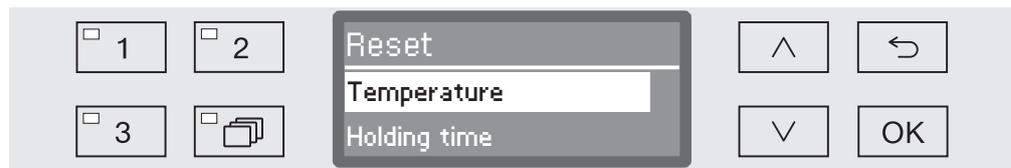


- Then use the \wedge and \vee arrow buttons to select the programme and confirm your selection with *OK*.

If you select *Reset*, the programme selected will be reset to its factory settings and the menu will be closed.

Further settings

If you select Main wash or Final rinse, the following settings can be altered:



- Temperature / Final rinse temp.
Adjust the temperature for the selected block.
- Holding time
Adjust the holding time for the selected block.
- Select an option using the \wedge and \vee arrow buttons and confirm your selection with *OK*.

The setting value is entered in increments of 1. The possible range is shown in the bottom line of the display.

Dispensing of process chemicals occurs at a default dispensing temperature set at the factory. If process chemicals are to be dispensed in this wash block, the lowest temperature that can be set will be the dispensing temperature. It is not possible to set a lower value.

- Use the \wedge (higher) and \vee (lower) arrow buttons to set the value.
- Press *OK* to save the setting.

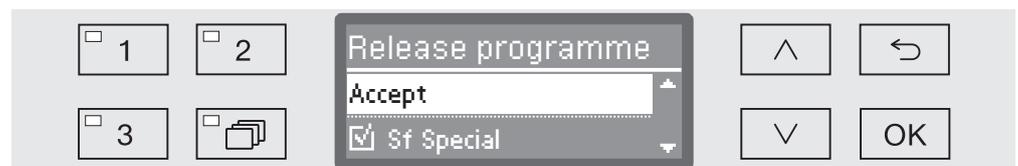
Release programme

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.
- Open the menu as follows:
 - ▶ Further settings
 - ▶ Release programme



- All
All programmes are released for use.
- Selection
A selection of programmes are available for use.
- Select an option using the \wedge and \vee arrow buttons and confirm your selection with *OK*.

The Selection option displays a list of all programmes.



Programmes are selected by multiple choice. A box is shown next to all programmes in the list. If a programme is released, there is a tick in the box. An empty box indicates a blocked programme.

- Programmes can be released or blocked using the arrow buttons \wedge and \vee and by confirming with *OK*.
- To save the selection select the *Accept* option at the end of the list and confirm with *OK*.

Water hardness

You can use this menu to set the water softener to the water hardness of the mains supply.

For more information see “Water softener”.

Further settings

Display: Temperature

The wash cabinet temperature can be viewed during a programme. Either the current actual temperature or the required temperature which has been preset for the current wash block is displayed.

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.
- Open the menu as follows:
 - ▶ Further settings
 - ▶ Display view



- Actual temperature

Display the current actual temperature in the wash cabinet.

- Required temperature

Display the required temperature which has been preset for the current wash block. If a temperature has not been set, a dotted line --- is shown.

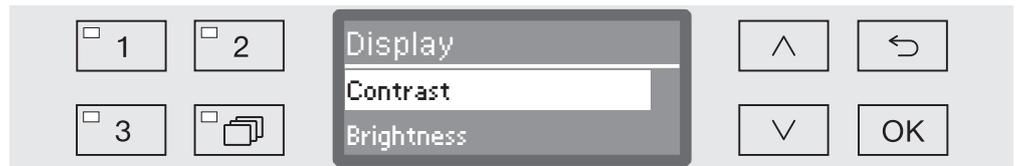
During a programme both settings are displayed together as Temperature. There is no breakdown of actual and required temperature.

- Select an option using the \wedge and \vee arrow buttons.
- Press *OK* to save the setting.

Display brightness and contrast

You can use this menu to adjust the brightness and contrast of the display.

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.
- Open the menu as follows:
 - ▶ Further settings
 - ▶ Display



- Contrast
Set the contrast.
- Brightness
Set the brightness.
- Select an option using the \wedge and \vee arrow buttons.
- Confirm your selection with *OK*.



Contrast and brightness are shown as a bar chart in the display.

- Use the arrow buttons \wedge (Higher/Brighter) and \vee (Lower/Darker) to set the brightness and contrast you want.
- Press *OK* to save the setting.

Further settings

Switch off after

If the machine has not been used for a specific time period, it can be set to standby or switched off automatically.

Ready for operation

When it is ready for use, the machine remains switched on and the time is shown on the display. Pressing any button reactivates the machine.

- To activate standby, the Auto-off function must be enabled under Further settings/Switch off after and a standby time set.
- An option to display the time of day must be selected in Settings /Time of day/Display.

Once the set standby time elapses, the machine is activated for use.

Auto-off function

To save energy, the Auto-off function can be activated. If the machine has not been used for a specific duration, it switches itself off automatically.

- To activate the Auto-off function, it must first be enabled under Further settings/Switch off after and a standby time set.
- Then, the Do not display option must be selected under Settings /Time of day/Display.

After the standby time has elapsed, the machine switches off automatically.

- Use the  button to switch the machine on again.

Switching off after activating

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.
- Open the menu as follows:
 - ▶ Further settings
 - ▶ Switch off after



- Yes

The Auto-Off function is activated. A duration must be set after which automatic switch-off should occur.

- No

The Auto-Off function is deactivated.

- Select an option using the \wedge and \vee arrow buttons.
- Press *OK* to save the setting.

Setting the wait time duration

If the *Yes* option is displayed, the wait time duration after which automatic switch-off should occur must be set next.



The wait time duration can be adjusted in 5 minute increments. The possible range is shown in the bottom line of the display.

- Use the \wedge (higher) and \vee (lower) arrow buttons to set the wait time duration.
- Press *OK* to save the setting.

Software version

You can use this menu to call up the software versions of individual elements, e.g. when contacting Miele Service.

For more information see “Service”.

Further settings

Factory default

All parameters which have been altered can be reset to their default settings. Control parameters and programme settings are reset separately.

The factory settings should only be restored in consultation with the Customer Service Department.

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.
- Open the menu as follows:
 - ▶ Further settings
 - ▶ Factory default
 - ▶ Reset



- No
Altered parameters are maintained.
- Programme settings only
All programme settings are reset.

Programmes saved on free memory locations remain unchanged.

- All settings
All control parameters including dispensing quantities and water hardness will be reset.
- Select an option using the \wedge and \vee arrow buttons.
- Confirm your selection with *OK*.

The machine is restarted.

All settings

When All settings is selected and the machine is restarted, you will be prompted to re-enter basic parameters such as the language, date, time, water hardness, etc.

- Enter the language, date, time etc.

When the last entry is made, all the parameters are saved and the factory default settings have been reset. The display changes and shows the last selected programme.

Periodic checks

The machine should be serviced **every 1000 hours of operation, or at least once a year**, by the Miele Customer Service Department or a suitably qualified specialist.

Maintenance covers the following points and functional checks:

- Replacement of wear parts
- Electrical safety check compliant with national rules and regulations (e.g. VDE 0701, VDE 0702 in Germany)
- Door mechanism and door seal
- Any screw connections and connectors inside the wash cabinet
- Water inlet and drainage
- Internal and external dispensing systems
- Spray arms
- Filter combination
- Sump including drain pump and non-return valve
- All mobile units, baskets, modules and inserts
- Visual inspection and functional check of components
- A thermo-electric check (optional on request)
- Seals will be tested for water tightness
- Safety testing of all relevant measuring systems
- Safety features

Cleaning the filters in the wash cabinet

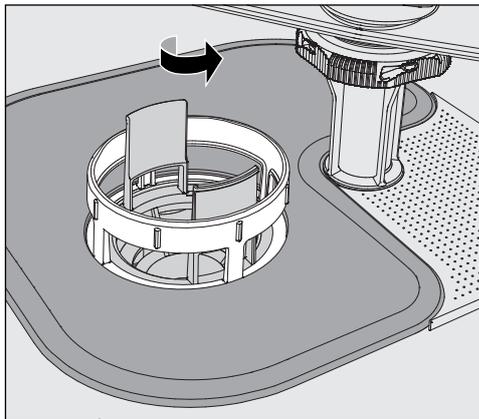
The filters in the floor of the wash chamber prevent coarse soiling from coming into contact with the circulation system. Filters can become blocked by soiling. They therefore need to be checked every day and cleaned as necessary.

⚠ Risk of damage due to blocked waterways.

If the filters are not inserted, dirt particles will end up in the machine water circuit. The dirt particles may block the nozzles and valves.

Only start a programme if the filters are inserted.

Check that the filters are positioned correctly when you reinsert them after cleaning.

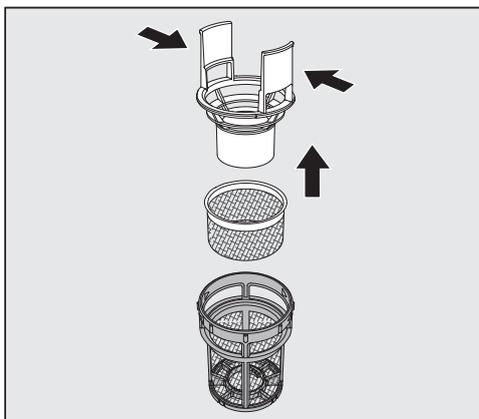


⚠ Danger of injury from sharp and pointed objects.

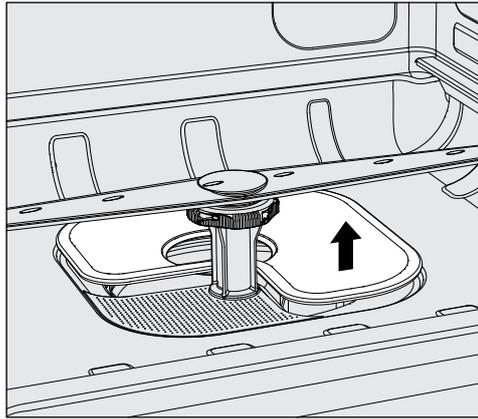
There is a danger of injury from sharp or pointed objects (e.g. glass shards, metal chips, etc.) retained in the filters. Small glass shards in particular are not always immediately visible in the filter.

Therefore, take extra care when removing and cleaning the filters.

- Loosen the microfine filter by turning it in the direction of the arrow and remove it together with the coarse filter.



- Press the catches together and pull the coarse filter up and out to remove it.
- Remove the fine filter which sits loosely between the coarse filter and the microfine filter.



- Remove the surface filter last.
- Clean the filters.
- Refit the filter combination in reverse order. Make sure that ...
 - ... the surface filter sits flat in the base of the wash cabinet.
 - ... the coarse filter has securely clicked into place in the microfine filter
 - ... the microfine filter is screwed in tight as far as it will go

Cleaning the spray arms

The spray arm nozzles can become blocked, especially if the filters are not inserted correctly in the wash chamber. This can cause coarse particles of soiling to get into the wash water circulation.

The spray arms must be visually checked daily for any soiling.

- To do this remove the mobile unit and the baskets.
- Visually check the spray arms for soiling and blocked nozzles.
- Also check that the spray arms can turn easily.

⚠ Immobile or blocked spray arms must not be used again.
In this case, contact the Miele Customer Service Department.

Cleaning the spray arms

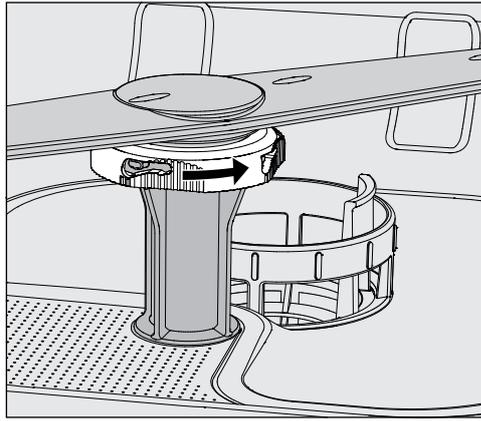
The spray arms in the machine as well as in the mobile units and baskets must be fully dismantled for cleaning:

- Remove the mobile unit or baskets from the machine.

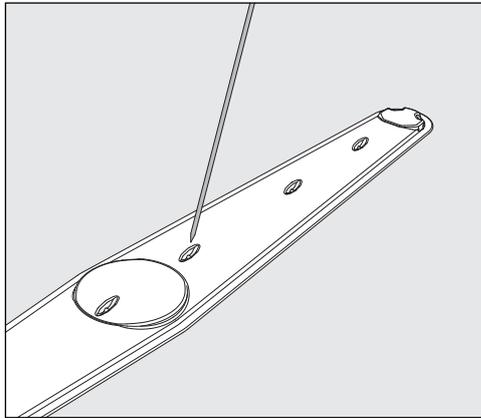
The machine upper spray arm is connected by a push-fit connector.

- Pull the machine upper spray arm downwards to remove it.

The machine lower spray arm and the spray arms in the mobile units and baskets are secured with bayonet fittings.



- To release the knurled bayonet fittings, turn them in the direction of the arrow as far as they will go.
- Then the spray arms can be removed by pulling them upwards or downwards.



- Use a pointed object to push food particles into the spray arm.
- Rinse the spray arm thoroughly under running water.

**⚠ Do not allow any magnetic objects or wash items to stick to the magnets on the spray arms.
Remove all metallic objects from the magnets.**

- Check the spray arm bearings for visible signs of wear.

**Visible wear on the bearings can adversely affect the long-term functioning of the spray arms.
In this case, contact Miele Service.**

- Replace the spray arms after cleaning.
- Make sure the spray arms can rotate easily after they have been fitted.

The spray arms and baskets each have a number e.g. 03, which is also embossed on the water supply pipes near the bayonet fittings. When refitting, ensure that the numbers on the spray arms correspond with the numbers on the water supply pipes.

Cleaning the machine

⚠ Never clean the machine or near vicinity with a water hose or a pressure washer.

⚠ Do not use cleaning agents containing ammonia or thinners on stainless steel surfaces!

These agents can damage the surface material.

Cleaning the control panel

⚠ Do not use any abrasive materials or general-purpose cleaners to clean the control panel.

These can cause considerable damage to the glass and plastic surfaces and to the onset control buttons.

- Clean the control panel with a damp cloth and a little washing-up liquid or with a non-abrasive stainless steel cleaner.
- Proprietary glass or plastic cleaning agents can also be used to clean the display.
- For surface disinfection use a listed agent recommended by the manufacturer.

Cleaning the door and the door seal

- Wipe the door seals regularly with a damp cloth to remove any soiling. Seals which are no longer tight or which have suffered damage must be replaced with new ones by the Miele Customer Service Department.
- Remove any stains from the door sides and hinges.
- Regularly clean the groove in the plinth panel under the door with a damp cloth.

Cleaning the wash chamber

The wash chamber is generally self-cleaning. However, should a build-up of deposits occur in the chamber, please contact the Miele Customer Service Department for advice.

Cleaning the door front

- To clean the stainless steel front, use a damp cloth with a solution of washing-up liquid and hot water, or with a non-abrasive cleaning agent for use on stainless steel.

Preventing re-soiling

- To help prevent re-soiling of stainless steel surfaces (fingerprints, etc.), a suitable stainless steel conditioner can be used after cleaning.

Checking the load carriers

Baskets and inserts should be checked before each use to make sure they are functioning correctly.

The following points need to be checked:

- Are the basket rollers in good condition and are they securely attached to their baskets?
- Are the water connectors present and undamaged?
- Are height-adjustable water connectors adjusted to the correct height and securely fixed?

Where applicable:

- Do the spray arms rotate freely?
- Are the spray arm nozzles free of any blockages? See “Cleaning the spray arms”.

If compressed air containers are present:

- Are the seals in the quick-release couplings intact?

The following guide should help you to find the reason for a fault and to correct it. However, please observe the following:

 Repairs may only be carried out by the Miele Customer Service Department. Unauthorised repairs can expose the user to considerable risk.

To avoid unnecessary customer service visits, check that the fault has not been caused by incorrect operation when a fault message first appears.

Technical faults and messages

Problem	Cause and remedy
The display is dark and all LEDs are out.	The machine is not switched on. ■ Switch the machine on using the  button.
	A fuse is defective or has tripped. ■ Refer to the minimum fuse rating on the data plate. ■ Reset the trip switch. ■ If the fuse trips again, call the Miele Customer Service Department.
	The machine is not plugged in, or connected to the power supply. ■ Insert the plug and switch on at the socket.
The machine has switched itself off.	This is not a fault. The Auto-Off function switches the machine off automatically after a pre-set duration to save energy. ■ Switch the machine on using the  button.
The time appears on the display.	This is not a fault. The machine is ready for use. ■ Press any button to reactivate the machine.
Programme finished has appeared on the display and you cannot select or start a programme.	This is not a fault. ■ Open and close the door. The machine must be switched on when you do this.
Interruption to the power supply during operation	If a temporary interruption to the power supply occurs during a programme sequence, no action is required. The programme will continue after the interruption. If the temperature in the wash cabinet drops below the minimum value required for the programme block during the interruption to the power supply, the programme block will be repeated. If there has been an interruption to the power supply of ≥ 20 hours, the entire programme will be repeated.

Troubleshooting

Problem	Cause and remedy
Water in the pressure chamber	<p>Possible causes for water in the pressure chamber are as follows:</p> <ul style="list-style-type: none"> - Condensate formation due to increased humidity in the compressed air - Defect in the on-site compressed air system, e.g. at the water separator - Condensation in the on-site compressed air line - Defective seals on the insert <ul style="list-style-type: none"> ■ Check that your compressed air system is working correctly and for possible defects. ■ Have the insert checked and serviced by the Miele Customer Service Department.
Next service due on:	<p>This is not a fault. The Miele Customer Service Department has recommended a date for the next service visit.</p> <ul style="list-style-type: none"> ■ Please contact the Miele Customer Service Department to arrange a service visit.

Dispensing/Dispensing systems

 Caution when handling chemical agents.

For all chemical agents, the chemical agent manufacturer's safety instructions as given on their safety data sheets must be observed.

Problem	Cause and remedy
The dispenser for powder cleaning agent contains residual agent at the end of the programme.	<p>The dispenser was still damp when cleaning agent was added.</p> <ul style="list-style-type: none"> ■ Make sure the dispenser is dry before adding powder cleaning agent.
	<p>The dispenser flap was blocked by items in the cabinet.</p> <ul style="list-style-type: none"> ■ Rearrange the load so that the flap can open.
The dispenser flap will not close.	<p>Residual cleaning agent is blocking the catch.</p> <ul style="list-style-type: none"> ■ Remove the cleaning agent.
DOS Refill	<p>During a programme sequence a low level of liquid chemical agent in a container has been identified.</p> <ul style="list-style-type: none"> ■ Replace the empty container with a full one.
Programme could not be started. Vent DOS	<p>A programme cannot be started because ...</p> <ul style="list-style-type: none"> ... there is air in the dispensing system. ... the dispensing system has been sucked completely dry. <ul style="list-style-type: none"> ■ Check the level in the supply container. Replace an empty container with a full one, if necessary. ■ Vent the dispensing system.
Dispensing system DOS venting	<p>This is not a fault. The dispensing system will now be automatically vented. Wait until the venting process is finished.</p>

Problem	Cause and remedy
Venting DOS cancelled. Venting must be repeated	<p data-bbox="609 228 1477 340">Venting of the dispensing system was cancelled because an insufficient flow rate was identified. A dispensing hose may be kinked or the siphon blocked.</p> <ul data-bbox="609 349 1477 542" style="list-style-type: none"> <li data-bbox="609 349 1477 416">■ Check the dispensing hose for kinks and leaks. Position it so that it cannot become kinked. <li data-bbox="609 425 1477 492">■ Check the suction aperture of the siphon for blockages and remove these as necessary. <li data-bbox="609 501 1477 542">■ Start the venting process again. <hr data-bbox="609 551 1477 555"/> <p data-bbox="609 564 1477 631">Contact the Miele Customer Service Department if there are leaks in the dispensing hose or a fault with the siphon.</p>
Check container/lance DOS	<p data-bbox="609 640 1477 680">Little or no flow has been identified.</p> <ul data-bbox="609 689 1477 842" style="list-style-type: none"> <li data-bbox="609 689 1477 757">■ Check the level in the supply container. Replace an empty container with a full one, if necessary. <li data-bbox="609 766 1477 801">■ Check the suction aperture of the siphon for deposits. <li data-bbox="609 810 1477 842">■ Vent the dispensing system. <hr data-bbox="609 851 1477 855"/> <p data-bbox="609 864 1477 904">The dispensing hose is blocked.</p> <ul data-bbox="609 913 1477 1057" style="list-style-type: none"> <li data-bbox="609 913 1477 981">■ Remove any kinks from the dispensing hose. Position it so that it cannot become kinked. <li data-bbox="609 990 1477 1025">■ Check the dispensing hose for leaks. <li data-bbox="609 1034 1477 1057">■ Vent the dispensing system. <hr data-bbox="609 1066 1477 1070"/> <p data-bbox="609 1079 1477 1137">Contact Miele Service if there are leaks in the dispensing hose or a fault with the siphon.</p>

Highly viscous (thick) process chemicals can affect the dispenser monitoring and lead to inaccurate data. In this instance, please contact the Miele Customer Service Department for advice.

Troubleshooting

Insufficient salt/Water softener

Problem	Cause and remedy
Refill salt	Salt is running low in the water softener. <ul style="list-style-type: none"> ■ Refill the reactivation salt before starting the next programme.
Machine locking out Insufficient salt	Salt in the water softener is completely depleted and reactivation is no longer possible. The machine is locked for further use. <ul style="list-style-type: none"> ■ Refill the reactivation salt.
Salt container empty, Programme locked	The water softener cannot reactivate because there is insufficient salt. The machine is locked for further use. <ul style="list-style-type: none"> ■ Refill the reactivation salt. The lock is lifted a couple of seconds after refilling the salt reservoir. Reactivation will occur automatically during the next programme sequence.
Salt container lid not properly closed	The salt container is not closed properly. <ul style="list-style-type: none"> ■ Close the container properly.
	Salt residues are preventing it from closing. <ul style="list-style-type: none"> ■ Remove all residues from the funnel, the lid, and the seal. Do not use running water as this can cause the salt container to overflow. ■ Close the container properly.
	The salt container flap has sprung open during a programme. <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>⚠ When the door is opened, hot steam and chemical agents can escape!</p> </div> <ul style="list-style-type: none"> ■ Open the door and close the container flap.

Cancel with fault code

If a programme is cancelled and a fault code appears, e.g. Fault XXX (where XXX represents a number), there could be a serious technical fault.

In the event of a programme being cancelled and a fault code being shown:

- Switch the machine off using the  button.
- Wait approximately 10 seconds before switching the machine on again with the  button.
- Start the previously selected programme again.

If the same message appears again:

- Make a note of the fault message.
- Switch the machine off using the  button.
- Contact Miele Service.

Please also read the notes regarding the following fault codes.

Problem	Cause and remedy
Fault 403-405	<p>A programme has been cancelled because water intake by the machine was insufficient or severely restricted.</p> <ul style="list-style-type: none"> ■ Open the stopcocks fully. ■ Follow the additional information given in the Check water inlet message.
Fault 406-408	<p>A programme was cancelled because the water flow rate is insufficient.</p> <ul style="list-style-type: none"> ■ Check whether the stopcocks are fully opened. ■ Please refer to the information regarding minimum flow pressure in “Connection to the water supply” and “Technical data”. ■ Check the filters in the water supply. ■ In this instance, please contact the Miele Customer Service Department for advice.
Fault 412-414	<p>A programme was cancelled because the water flow rate is too high.</p> <ul style="list-style-type: none"> ■ Refer to the information regarding recommended maximum flow pressure and maximum permissible static water pressure in “Connection to the water supply” and “Technical data”. ■ In this instance, please contact the Miele Customer Service Department for advice.
Fault 440	<p>The float switch in the base of the machine has not been activated. The switch might be blocked.</p> <ul style="list-style-type: none"> ■ Remove the filter combination. ■ Check the float switch to make sure it moves freely. The float switch is located in the base of the machine behind the spray arm.

Troubleshooting

Problem	Cause and remedy
Fault 492, 504	<p>A programme has been cancelled because there is not enough spray pressure. The filters in the wash cabinet may be blocked.</p> <div style="border: 1px solid black; padding: 5px;"> <p>⚠ Danger of injury from glass shards, needles, etc. retained in the filters.</p> </div> <ul style="list-style-type: none"> ■ Check and clean the filters in the wash cabinet (see “Maintenance/Cleaning the filters in the wash cabinet”).
Fault 550	<p>The waterproof system has been activated. One of the water supply hoses might have a leak.</p> <ul style="list-style-type: none"> ■ Close the stopcocks. ■ Contact the Miele Customer Service Department.
Fault 578	<p>The peak load cut-out has lasted longer than 3 hours.</p> <ul style="list-style-type: none"> ■ Have your electrical system and your energy management system tested by a suitably qualified person.

Process-related faults and messages

Problem	Cause and remedy
Wrong code entered	<p>The PIN code entered is not the same as the code saved.</p> <ul style="list-style-type: none"> ■ Enter the PIN code again. ■ Report the loss of the PIN code to the Miele Customer Service Department.
Programme cancelled	<p>This is not a fault. A programme which was running was cancelled by the user.</p> <div style="border: 1px solid black; padding: 5px;"> <p>⚠ The wash cabinet interior can be very hot. When the door is opened, hot steam and chemical agents can escape. Protective measures for personal safety must be observed.</p> </div>
Programme continued	<p>This is not a fault. The process of cancelling a programme was not completed. The programme which was running continued without interruption.</p>
Peak load cut-out	<p>This is not a fault. Individual components of the machine are paused while there is a peak load signal from your energy management system.</p>
All settings reset	<p>This is not a fault. A user has restored factory default settings.</p> <ul style="list-style-type: none"> ■ Confirm the message with <i>OK</i>.

Problem	Cause and remedy
All programme settings reset	<p>This is not a fault. A user has restored the factory setting for the programme.</p> <ul style="list-style-type: none"> ■ Confirm the message with <i>OK</i>.

Unsatisfactory cleaning and corrosion

Problem	Cause and remedy
There are white deposits on the wash load.	<p>The water softener is set too low.</p> <ul style="list-style-type: none"> ■ Set the water softener to the correct water hardness.
	<p>There is no salt in the salt reservoir.</p> <ul style="list-style-type: none"> ■ Refill the reactivation salt.
	<p>The quality of the water for the final rinse was insufficient.</p> <ul style="list-style-type: none"> ■ Use water with a low conductance value. ■ If the machine is connected to a water softening cartridge, check it and replace as necessary.
	<p>The water from the AD water connection is not sufficiently softened.</p> <ul style="list-style-type: none"> ■ Check the pre-selected water softening units. If necessary, replace the water softening cartridge with a new one.
Stainless steel load items are showing signs of corrosion.	<p>The stainless steel is of insufficient quality for machine reprocessing.</p> <ul style="list-style-type: none"> ■ Only use stainless steel items made of high quality stainless steel and follow the load item manufacturer's instructions regarding machine reprocessing.
	<p>The chloride content in the water is too high.</p> <ul style="list-style-type: none"> ■ Have a water analysis check carried out. Connection to an external water processing unit and the use of demineralised water may be necessary.
	<p>Rust or superficial rust has built up in the wash cabinet, e.g. due to an excessively high iron content in the water or rust on other load items.</p> <ul style="list-style-type: none"> ■ Check the installation. ■ Discard any rusty items.

Troubleshooting

Problem	Cause and remedy
The cleaning result is unsatisfactory.	Load carriers were not suitable for the load items. <ul style="list-style-type: none"> ■ Select load carriers which are suitable for the task.
	The load carriers were loaded incorrectly or overloaded. <ul style="list-style-type: none"> ■ Arrange the load items correctly. Follow the instructions given in the operating instructions. ■ Avoid overloading the load carriers.
	The reprocessing programme was not suitable for the soiling. <ul style="list-style-type: none"> ■ Select a suitable programme. Or: <ul style="list-style-type: none"> ■ Adjust the parameters to suit the task.
	Soiling has been left to dry on the load items for too long. <ul style="list-style-type: none"> ■ Soiling should not be left on the load items for more than 6 hours before machine reprocessing.
	A spray arm is blocked. <ul style="list-style-type: none"> ■ Ensure the spray arms are not obstructed when arranging the load items.
	Nozzles on the spray arms are blocked. <ul style="list-style-type: none"> ■ Check the nozzles and clean them as necessary.
	The filters in the wash cabinet are dirty. <ul style="list-style-type: none"> ■ Check the filters and clean them if necessary.
	The upper basket was not correctly mounted on the water connection. <ul style="list-style-type: none"> ■ Check the adapter.

Water inlet and drainage

Problem	Cause and remedy
Check water inlet	One or more stopcocks are closed. <ul style="list-style-type: none"> ■ Open the stopcocks.
	There was insufficient water in the machine. <ul style="list-style-type: none"> ■ Clean the water intake filters. ■ Open the stopcocks fully.
	The supply pressure at the water connection is too low. <ul style="list-style-type: none"> ■ Refer to the specifications for supply pressure in the “Technical data”. ■ Contact a suitably qualified installer.

Problem	Cause and remedy
Check drainage	<p>A programme was cancelled because the water in the wash cabinet is only being pumped away slowly or not at all.</p> <ul style="list-style-type: none"> - The drain hose is blocked. <ul style="list-style-type: none"> ■ Remove any kinks or large loops in the drain hose. ■ Start the programme again. - The filters in the wash cabinet are blocked. <ul style="list-style-type: none"> ■ Clean the filters in the wash cabinet. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p> Danger of injury from sharp or pointed objects retained in the filters.</p> </div> <ul style="list-style-type: none"> ■ Start the programme again. - The drain pump or the non-return valve is blocked. <ul style="list-style-type: none"> ■ Clean the access to the drain pump and the non-return valve. ■ Start the programme again. - The drainage system cannot take in enough water because it is blocked. <ul style="list-style-type: none"> ■ Contact a qualified installer.

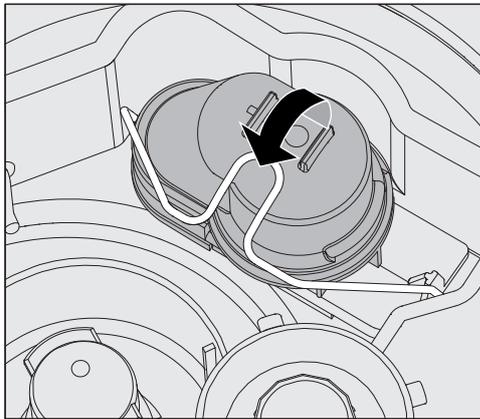
Noises

Problem	Cause and remedy
Knocking noise in the wash cabinet.	<p>One or more spray arms are knocking against the wash load.</p> <ul style="list-style-type: none"> ■ Cancel the programme. To do this follow the instructions in “Cancelling a programme”. ■ Arrange the wash load so it cannot obstruct the spray arms. ■ Make sure the spray arms can rotate freely. ■ Start the programme again.
Rattling noise in the wash cabinet.	<p>Items are insecure in the wash cabinet.</p> <ul style="list-style-type: none"> ■ Cancel the programme. To do this follow the instructions in “Cancelling a programme”. ■ Rearrange the load so that items are secure. ■ Start the programme again.
Knocking noise in the water pipes.	<p>This may be caused by the on-site installation or the cross-section of the piping. It has no influence on the function of the machine.</p> <ul style="list-style-type: none"> ■ Contact a suitably qualified plumber.

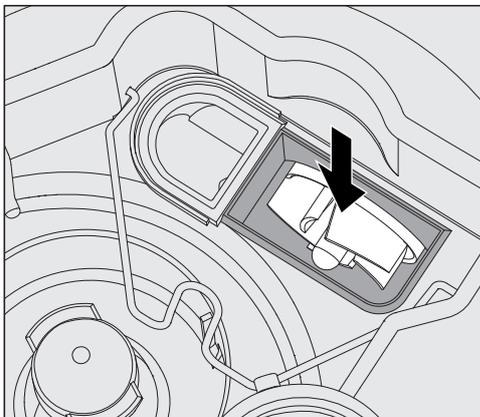
Cleaning the drain pump and non-return valve

If water has not been pumped away at the end of a programme there may be a foreign object in the drain pump or blocking the non-return valve.

- Take the filter combination out of the wash cabinet (see “Maintenance/Cleaning the filters in the wash cabinet”).



- Lift the locking clamp.
- Lift out the non-return valve and rinse well under running water.
- Make sure that the vent on the external part of the non-return valve is not blocked. (This vent is only visible when the non-return valve has been taken out.) If it is blocked, use a pointed object to release the blockage.



The drain pump impeller is situated under the non-return valve (see arrow).

- Check the impeller for blockages and remove them if necessary.
- Carefully replace the non-return valve and secure it with the clamp.

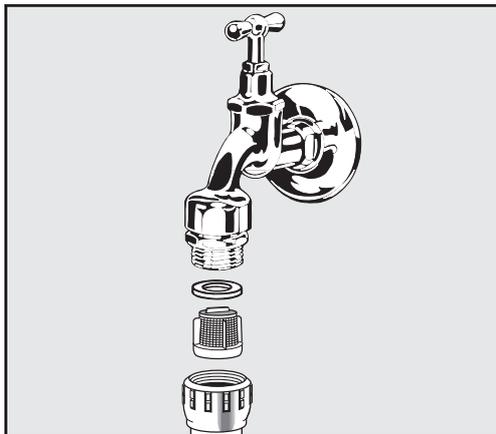
Cleaning the water intake filters

Filters are incorporated into the water inlet connection on the hose to protect the water inlet valve. If these filters get dirty they must be cleaned as otherwise too little water will flow into the wash cabinet.

 The plastic housing on the water inlet valve contains an electrical component. It must not be dipped in water.

To clean the filter

- Disconnect the cleaning machine from the mains (switch the cleaning machine off, unplug it or disconnect or disable the fuse).
- Close the stopcock.
- Unscrew the water inlet valve.



- Remove the seal from the screw thread.
- Pull the filter out using combination or pointed pliers.
- Clean the filter or replace it if necessary.
- Replace the filter and seal, making sure they are sitting correctly.
- Screw the water inlet valve onto the stopcock. Ensure that the screw thread goes on straight and not cross-threaded.
- Open the stopcock. If water leaks out, the screw thread may not be connected securely or it may have been screwed on at an angle. Fit the water inlet valve straight and screw it in place.

Retrofitting the large-surface filter

If the water contains a high level of insoluble components, a large-surface filter can be installed between the stopcock and the water inlet hose.

The large-surface filter is available from the Miele Customer Service Department.

IMPORTANT

UK, Australia and New Zealand

For the UK, Australia and New Zealand a non-return check valve is required between the tap and optional filter.

Contacting the Customer Service Department

 Repairs may only be carried out by the Miele Customer Service Department or an authorised technician. Unauthorised repairs can expose the user to considerable risk.

To avoid unnecessary service visits, check that the fault has not been caused by incorrect operation when a fault message first appears. Please refer to the relevant instructions in the “Problem solving guide”.

If, having followed the advice in the operating instructions, you are still unable to resolve a problem, please notify the Miele Customer Service Department.

Contact details can be found at the end of these operating instructions.

When contacting the Customer Service Department, please quote the model and serial number of your machine. This information can be found on the data plate. There is one data plate on the side of the door and another on the back of the machine.

Please tell the Customer Service Department the fault message or code shown in the display.

Software version

When contacting the Service department you may need the version number of individual components of control software. These can be called up as follows:

- Open the Further settings menu by switching the machine off with the  button and then switch it on again with the  button whilst keeping the  button held in.
- Open the menu as follows:
 - ▶ Further settings
 - ▶ Software version



The software units are listed on the display. XXXXX stands for the relevant version number:

- EB ID: XXXXX

Software version of the control and display units in the control panel.

- EGL ID: XXXXX

Software version of the control board.

- EZL ID: XXXXX

Software version of the relay board.

- EFU ID: XXXXX

Software version of the frequency converter.

- LNG ID: XXXXX

Language package version.

You cannot change any settings in this menu.

Software updates and upgrades may only be undertaken by the Miele Customer Service Department.

- Exit the menu with the *OK* or  buttons.

Installation and levelling

Please refer to the installation diagram provided.

⚠ In order to reduce the risk of water damage, the area around the machine should be limited to furniture and fittings that are designed for use in commercial environments.

The machine must be stable and level.

Any unevenness in the floor level and height of the machine can be compensated for by adjusting the four feet. The feet can be screwed out to a maximum of 60 mm.

⚠ Do not lift the machine by protruding parts such as the control panel.
They could be damaged or torn off.

⚠ Some metal parts pose a risk of injury/being cut.
Wear cut-resistant protective gloves when transporting and setting up the machine.

⚠ For transport by means of a hand truck, the machine must be in its original packaging or placed on a stable, continuous support. Otherwise, components in the base of the machine can be damaged.

The machine is suitable for the following types of installation:

- Freestanding.
- Slot-in:

The machine can be installed beside other appliances or furniture or in a suitable niche. The niche must be at least 600 mm wide and 600 mm deep.

- Built-under:

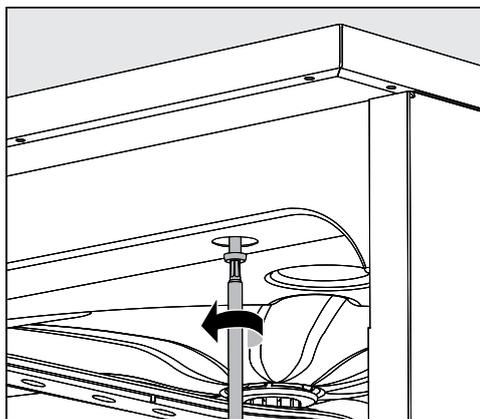
The machine can be built under a continuous worktop or the draining board of a sink. The space provided must be at least 600 mm wide, 600 mm deep and 820 mm high.

Building under a continuous worktop

Removing the lid

To build the machine under a continuous worktop the lid must be removed as follows:

- Unscrew both securing screws from the lid at the back of the machine.
- Open the door.



- Unscrew the left and right fixing screws.
- Lift the lid off.

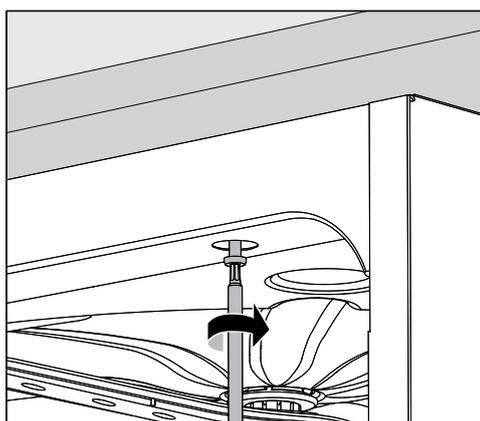
Protective foil/ Worktop protector

The protective foil supplied protects the worktop from damage caused by steam when the door is opened. It should be positioned underneath the worktop above the machine door.

Securing to the worktop

To improve stability the machine must be secured to the worktop after it has been aligned.

- Open the door.



- Screw the machine to the continuous worktop through the holes in the front trim on the left and right.

Please contact the Miele Customer Service Department to secure it at the sides to adjacent cabinetry.

Venting the circulation pump

⚠ The gaps between a built-in machine and adjacent cabinetry must not be sealed, e.g. with silicone sealant, as this could compromise ventilation of the circulation pump.

Electromagnetic compatibility (EMC)

The machine has been tested for electromagnetic compatibility (EMC) in accordance with EN 61326-1 and is suitable for operation in commercial environments and other similar environments which are connected to the mains power supply.

The machine's high frequency (HF) energy emissions are very low and are therefore unlikely to interfere with other electronic machines in the vicinity.

Flooring in the installation area must be wood, concrete or tiled. Synthetic flooring must be able withstand a relative humidity level of 30 % to minimise the risk of electrostatic discharges.

The quality of the power supply should comply with that found in a typical commercial environment. Check that the power supply voltage is within a range of +/-10 % (UK: -6/+10 %) of its nominal value.

⚠ All electrical work must be carried out by a suitably qualified electrician in accordance with local and national safety regulations.

- The electrical installation must comply with current local and national safety regulations (e.g. DIN VDE 0100 in Germany).
- The connection to the power supply must be via a suitably rated plug and socket and must comply with national regulations. The socket must be accessible after the machine has been installed. An electrical safety test must be carried out after installation and after any maintenance work.
- If the machine is hard-wired to the power supply, a power switch with all-pole isolation must be installed. The power switch must be designed to operate at the rated current for the machine, must ensure a 3 mm gap between all open contacts, and must be able to be locked in the off position.
- Equipotential bonding should be carried out if required.
- The rated loads are specified on the data plate and in the circuit diagram supplied with the machine.
- For increased safety, it is recommended to protect the machine with a suitable residual current device (RCD) with a trip current of 30 mA.
- If replacing the power cable, use only original replacement parts from the manufacturer or a suitable cable with core cable ends.

Further notes on electrical connection are given on the Installation diagram supplied with the machine.

The machine must only be operated with the voltage, frequency and fusing shown on the **data plate**.

Depending on country this machine **can be converted to a different type of power supply** in accordance with the conversion diagram and wiring diagram supplied.

A **data plate** can be found on the inside of the door and another on the back of the machine.

The wiring diagram is supplied with the machine.

Equipotential bonding connection

There is a screw connection point marked ∇ at the back of the machine, to which additional equipotential bonding can be connected if required.

Electrical connection

Peak-load negotiation

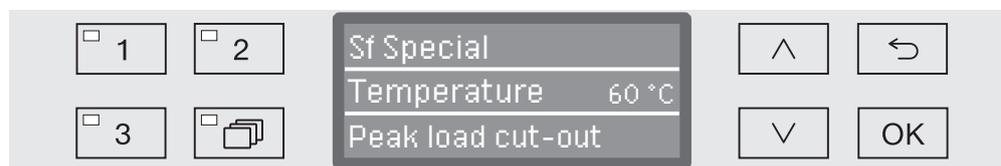
The machine is suitable for use in an energy management system. For this purpose, it must be technically adapted and the controls reset by the Miele Customer Service Department.

Please contact the Miele Customer Service Department for further information.

Peak load management

In the event of a peak-load negotiation, some machine components such as the heater element will be switched off for a while. The machine will remain on during this period and the current programme will not be interrupted. If one of the components that is switched off is needed during the current programme stage, the programme duration will simply increase for the duration of the load negotiation.

The third line of the display will alert you to the peak-load negotiation, for example:



Connection to the water supply

⚠ The water inside the cleaning machine is not suitable for drinking!

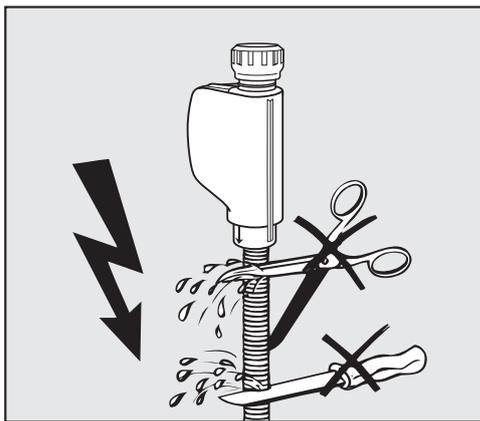
- The cleaning machine must be connected to the water supply in strict accordance with local regulations.
- The water used must at least comply with European or national regulations for drinking water quality. If the water supply has a high iron content, there is a danger of corrosion occurring on load items made of stainless steel and on the cleaning machine itself. If the chloride content of the water exceeds 100 mg/l, the risk of corrosion to load items made of stainless steel in the machine will be further increased.
- The cleaning machine complies with the applicable European standards for the protection of drinking water.
UK, Australia and New Zealand only: To comply with water regulation requirements, this machine must be connected to the potable water supply via the non-return check valve supplied with the machine.
- More information on AD water connection can be found at the end of this section.
- The **Minimum flow pressure** for a cold or hot water connection is 40 kPa pressure, and for AD water connection is 30 kPa pressure.
- **Recommended flow pressure** for cold and hot water connections is ≥ 200 kPa pressure and for AD water connection ≥ 200 kPa pressure, to avoid excessively long water intake times.
- The **maximum permissible static water pressure** is 1000 kPa pressure.
- If the water pressure does not fall into the stated range contact Miele Service for advice.
- Stopcocks with a $\frac{3}{4}$ inch screw thread must be provided on site for the connection. The valves must be easily accessible to allow the water inlet to be turned off when not in use.
- The water inlet hoses are approximately 1.7 m long pressure hoses, DN 10, with $\frac{3}{4}$ inch screw thread. The filters in the screw threads must not be removed.

IMPORTANT

UK, Australia and New Zealand

For the UK, Australia and New Zealand a non-return check valve is required between the tap and optional filter.

Plumbing



⚠ Do **not** shorten or otherwise damage the water inlet hoses supplied with the machine.

See also the installation plan supplied.

Retrofitting the large-surface filter

If the water contains a high level of insoluble components, a large-surface filter can be installed between the stopcock and the water inlet hose.

The large-surface filter is available from the Miele Customer Service Department.

AD water connection for 30-1000 kPa (UK: 100-1000 kPa) pressure - pressure-resistant (optional)

This machine can be optionally supplied for a pressurised system operating between 30-1000 kPa (UK: 100-1000 kPa). If the water pressure is below 200 kPa the water intake duration will be automatically increased.

- The pressure tested hose for AD water, coded green, has a $\frac{3}{4}$ inch threaded union for connection to the onsite stopcock for AD water.

⚠ If the machine is not going to be connected to demineralised (DI) water, the DI water connection has to be deactivated by the Miele Customer Service Department. The intake hose remains on the back of the machine.

AD water connection for 8.5-60 kPa - without pressure (optional)

The machine has to be converted for connection to 8.5-60 kPa pressure unless ordered as such at the factory. Installation of the pump must only be carried out by Miele Service.

With a pressureless AD water connection, the drainage point must be at least as high as the top of the machine. See installation instructions.

DI water ring line

The machine can be connected to a ring line system for DI water. For this purpose, it must be technically adapted and the controls reset by the Miele Customer Service Department.

Please contact the Miele Customer Service Department for further information.

IMPORTANT

UK, Australia and New Zealand.

This appliance must be installed according to AS/NZS 3500.1 (Australia and New Zealand) or in accordance with water regulations (UK). This appliance has been supplied with a separate backflow prevention device.

This machine must be connected to the potable water supply via the non-return valve (check valve) supplied with the machine.

Before making plumbing connections, ensure the appliance is disconnected from the mains power supply (switch off or unplug from the power supply).

- Turn off the mains water tap.
- Place the seals on both sides of the non-return valve.
- Connect the female end of the non-return valve to the mains water tap (3/4" thread).
- Connect the filter (optional accessory) to the male end of the non-return valve (3/4" thread).
- Connect the inlet hose to the filter (optional accessory).

Ensure that all connections are screwed into position correctly. The connection point is subject to mains water pressure.

- Turn on the tap slowly and check for leaks.

Correct the position of the seal and union if necessary.

Connecting the drain hose

- A non-return valve is incorporated into the drain system in the machine to prevent drainage water flowing back into the machine via the drain hose.
- The machine drainage hose should be connected to a **separate** drain for the machine only. If no separate drain is available, we recommend connecting it to a dual-chamber siphon.
- The on-site connection point, **measured from the lower edge of the machine**, should be positioned at a height between 0.3 m and 1.0 m. If it is lower than 0.3 m, the drain hose must be laid in a coil at a height of at least 0.3 m.
- The drainage system must be able to accommodate a minimum drainage flow of 16 l/min.
- The drainage hose is approx. 1.4 m long and flexible with an internal diameter of 22 mm. Hose clips for the connection are supplied.
- The drain hose must not be shortened.
- The drain hose can be extended to 4.0 m in length using a connection piece to attach a further length of hose. The drainage length must not be longer than 4.0 m.

See installation diagram supplied.

Technical data

Height with machine lid Height without machine lid	835 mm 820 mm
Width	598 mm
Depth Depth with door open	598 mm 1200 mm
Wash cabinet dimensions: Height Width Depth of upper basket/lower basket	520 mm 530 mm 474 mm/520 mm
Weight (net)	72 kg
Max. load capacity of open door	37 kg
Voltage, rated load, fuse rating	See data plate
Connection cable	Approx. 1.8 m
Water intake temperature: Cold water/hot water DI water	Max. 60 °C Max. 60 °C (UK: max. 60 °C)
Static water pressure	Max. 1000 kPa pressure
Minimum water intake flow pressure: Cold water/hot water DI water	40 kPa (UK: 100 kPa) pressure 30 kPa pressure
Recommended water intake flow pressure: Cold water/hot water DI water	≥ 200 kPa pressure ≥ 200 kPa pressure
DI water connection without pressure (optional)	8.5-60 kPa
Delivery head	Min. 0.3 m, max. 1.0 m
Drainage length	Max. 4.0 m
Operation (according to IEC/EN 61010-1): Ambient temperature Relative humidity maximum linear decrease to Relative humidity minimum	5 °C to 40 °C 80 % for temperatures up to 31 °C 50 % for temperatures up to 40 °C 10 %
Storage and transportation conditions: Ambient temperature Relative humidity Air pressure	- 20 °C to 60 °C 10 % to 85 % 500 hPa to 1060 hPa
Altitude above sea level (according to IEC/EN 61010-1)	Up to 2000 m
Protection category (according to IEC 60529)	IP21
Soiling level (according to IEC/EN 61010-1)	2
Overvoltage category (according to IEC 60664)	II
Noise level in dB (A), sound pressure LpA during cleaning and drying phases	< 70
Test certifications	VDE, EMC radio suppressed
CE marking	Machinery Directive 2006/42/EC
UKCA mark (UK only)	The Supply of Machinery (Safety) Regulations 2008
Manufacturer address	Miele & Cie. KG, Carl-Miele-Straße 29, 33332 Gütersloh, Germany

Programme chart

Programme	Use	Pre-wash		
		1	2	3
Sf Special	For cleaning and chemically disinfecting lightly soiled breathing protection materials, e.g. from training exercises (not hot fire training).			
Sf Special Plus	For cleaning and chemically disinfecting heavily soiled breathing protection materials, e.g. from actual assignments or hot fire training.	CW 1 Min		
Vario Chem	For cleaning and chemically disinfecting load items with normal soiling. The programme must be adapted to the process chemicals used (cleaning agent) where applicable.			
 Reactivation	Manual reactivation. This can be run to avoid being forced to run a reactivation programme during busy periods.	Reactivation		
Rinsing	Programme for rinsing the wash cabinet, for flushing out brine (see "Water softener/Adding salt") or for rinsing heavily soiled load items, e.g. for pre-rinsing soiling, residual disinfecting agent or to prevent items drying out and to prevent incrustation before running a full load.			
Drain	For draining wash water, e.g. after a programme cancellation (see "Operation/Cancelling a programme").			

 Risk of damage to the load items.

Programme parameters, such as the dispensing concentration of the process chemicals, can have a damaging effect on the individual load item materials under some circumstances.

Observe the parameters specified by the relevant manufacturer for reprocessing the load items and adjust the programme if necessary. Consult the load item manufacturer or the Miele Customer Service Department if necessary.

"Further settings/Additional functions" describes how to adjust the programme parameters.

Programme chart

Programme sequence							
Cleaning		Interim rinse				Final rinse	
1	2	1	2	3	4	1	2
CW 60 °C DOS 1 5 Min						DI 60 °C 5 Min	
CW 60 °C DOS 1 5 Min		CW 1 Min				DI 60 °C 5 Min	
CW 60 °C DOS 1 5 Min						DI 60 °C 5 Min	
Reactivation		CW					
		CW 1 Min					

CW = cold water

DI = aqua destillata, fully demineralised water (DI), demineralised water

Min = Holding time in minutes

* = Optional programme block

DOS 1 = Cleaning agent

DOS 2 = Rinsing agent (door dispensing), deactivated ex-works.

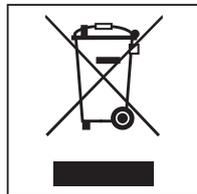
Disposal of the packing material

The packaging is designed to protect the machine against transportation damage. The packaging materials used are selected from materials which are environmentally friendly for disposal and should be recycled.

Recycling the packaging reduces the use of raw materials in the manufacturing process and also reduces the amount of waste in landfill sites.

Disposing of your old appliance

Electrical and electronic appliances contain many valuable materials. They also contain certain materials, compounds and components which were essential for their correct functioning and safety. These could be hazardous to human health and to the environment if disposed of with household waste or if handled incorrectly. Please do not, therefore, dispose of your old appliance with household waste.



Instead, please make use of officially designated collection and disposal points to dispose of and recycle electrical and electronic appliances in your local community, with your dealer or with Miele, free of charge. By law, you are solely responsible for deleting any personal data from the old appliance prior to disposal. You are legally obliged to remove any old batteries which are not securely enclosed by the appliance and to remove any lamps without destroying them, where this is possible. These must be taken to a suitable collection point where they can be handed in free of charge. Please ensure that your old appliance poses no risk to children while being stored for disposal.

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