Operating instructions
Commercial dishwasher for laboratory glassware and utensils
PG 8504

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.

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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

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.

Appropriate use

This cleaning machine is designed to reprocess laboratory glassware, utensils and similarly categorised components using water-based media. These include:

- Vessels such as beakers, flasks, cylinders and test tubes
- Measuring vessels such as measuring cylinders and volumetric flasks
- Dishes such as petri dishes and watch glasses
- Plates such as slides and sequencing plates
- Small items such as lids, magnetic stirring rods, spatulas and stoppers
- Other items such as boxes, plastic flasks and containers, metal parts, pipe and hose pieces and funnels

Reprocessing encompasses the cleaning and rinsing of the laboratory glassware, utensils and components listed above.

Pipettes are excluded from this list. This cleaning machine is not designed for reprocessing pipettes.

Reprocessing is carried out in conjunction with:

- Process chemicals which are tailored to the result of the reprocessing
- Load carriers which are tailored to the load items

Observe the information issued by the manufacturer of the load items.

The cleaning machine is designed for use in laboratories (e.g. chemical and biological laboratories in universities and research institutes).

The cleaning machine is suitable for removing water-soluble soiling. The cleaning machine is not suitable or only suitable to a limited extent for removing soiling that is difficult to dissolve in water or which is not soluble in water, such as oils and fats.
The cleaning machine is not suitable for removing soiling which is soluble in water at temperatures ≥ 70 °C, such as agar.

Inappropriate use

The cleaning machine must not be used for any purposes other than the appropriate use described. This applies in particular to:

- The reprocessing of medical devices that can be reprocessed
- Use in the catering industry
- Domestic use

Machine overview
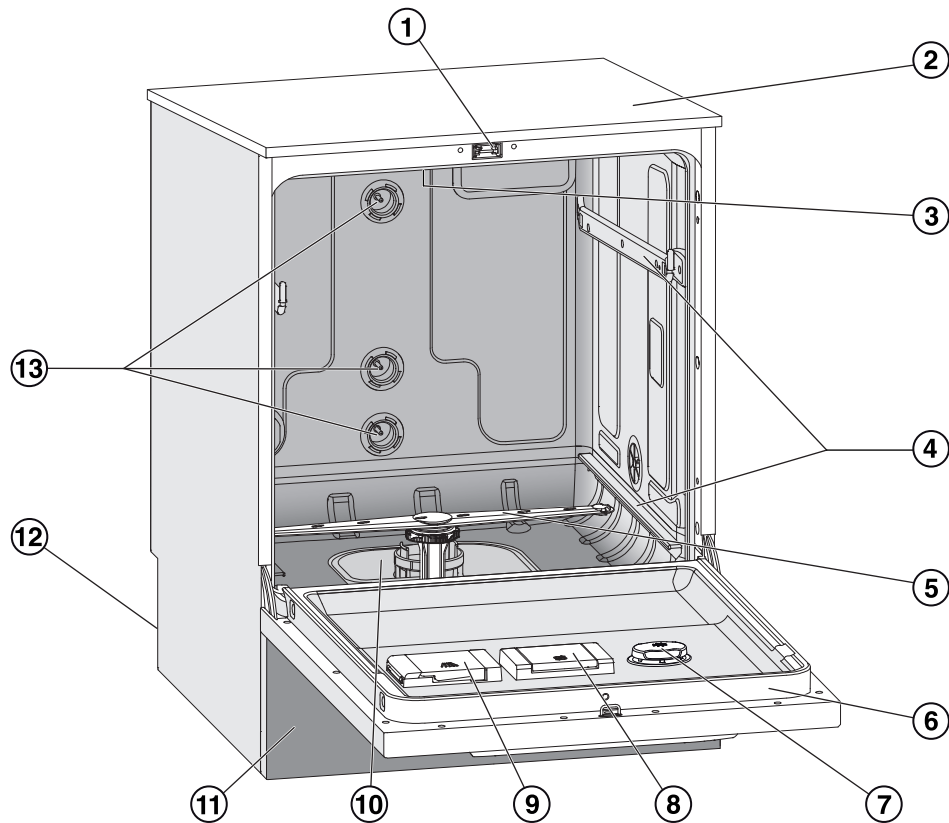
① Door lock

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

Guide to the machine
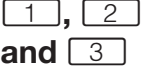
Control panel
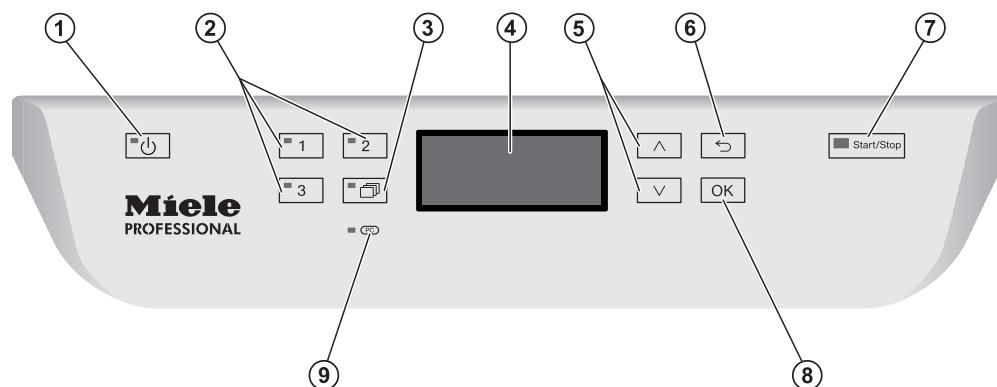
① ⏻ **On/Off button**
For switching the machine on and off.

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** ∨ **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/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 1 , 2 **and** 3	**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.

User profiles

Daily operators

Daily operators must be instructed in operating and loading the machine and trained regularly to guarantee safe daily use. They require knowledge of machine reprocessing of laboratory glassware and utensils.

Tasks for daily routine operation are located in the Settings ⚑ menu. This 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 laboratory glassware and utensils.

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

Validation processes assume specialised knowledge of the machine reprocessing of laboratory glassware and utensils, of the processes involved and of applicable standards and legislation.

Administrative processes and settings are allocated to Further settings. This is protected from unauthorised access by a code.

> 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 cleaning 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 cleaning processes are only designed for laboratory glassware and utensils which are designated as reprocessable by the manufacturer. The information provided by the manufacturer of the load items must be observed.

▶ 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.

▶ 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.

Warning and Safety instructions

▶ 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.

▶ 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.

▶ Be careful when sorting items with pointed ends. Position them in the machine so that you will not hurt yourself or create a danger for others.

▶ Broken glass can result in serious injury when loading or unloading. Broken glass items must not be processed in the machine.

▶ The machine can get hot when in use. Be careful not to scald or burn yourself or come into contact with irritant substances when opening the door.

▶ Should personnel accidentally come into contact with toxic vapours or chemical agents, follow the emergency instructions given in the manufacturer's safety data sheets.

▶ Mobile units, baskets, modules, inserts and the load must be allowed to cool down before they are unloaded. Any water remaining in containers could still be very hot. Empty them into the wash cabinet before taking them out.

▶ 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 processing laboratory glassware and utensils 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.

▶ The standard of cleaning and disinfection must be routinely confirmed by the user. The process should be validated on a regular basis, and checked against documented control results.

▶ 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 result.

▶ Processes must be set up such that foam cannot escape from the wash cabinet. It would hinder the correct functioning of the machine.

Warning and Safety instructions

▶ 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".

▶ Where a chemical agent is recommended on technical application grounds (e.g. a cleaning agent), this does not imply that the manufacturer of the machine accepts liability for the effect of the chemical on the items being cleaned.
Please be aware that changes in formulation, storage conditions etc. which may not be publicised by the chemical manufacturer, can have a negative effect on the cleaning result.

▶ 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.

▶ If the cleaning result is subject to particularly stringent requirements, e.g. in chemical analysis, the operator must carry out regular quality control to ensure that required standards of cleanliness are being achieved.

▶ The mobile units, baskets, modules and inserts that hold the load must be used only as intended.
Hollow items must be thoroughly cleaned, internally and externally.

▶ Secure small and light items with cover nets or place in a mesh tray for small items, so that they do not block the spray arms.

▶ Empty any containers or utensils before loading them.

▶ 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.

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 mobile units, baskets, modules and inserts with this machine. Using mobile units, baskets, modules and inserts made by other manufacturers, or making modifications to Miele accessories can cause unsatisfactory cleaning results, for which Miele cannot be held liable. Any resultant damage would not be covered by the guarantee.

Warning and Safety instructions

Symbols on the machine
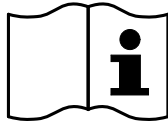
Warning:
Observe the operating instructions!
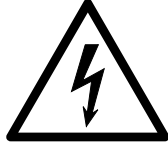
Warning:
Danger of electric shock!

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 have contamination from blood, bodily fluids, pathogenic germs, facultative pathogenic germs, genetically modified material, etc. in it and must be decontaminated before disposal.

For environmental and safety reasons ensure the machine is completely drained of any residual water, chemical residues and cleaning agent. Observe safety regulations and wear safety goggles and gloves.

Make the door lock inoperable, so that children cannot accidentally shut themselves in. Then make appropriate arrangements for its safe disposal.

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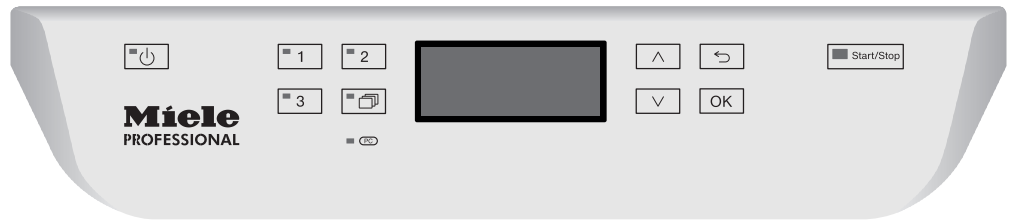
A light touch on the relevant button is sufficient to operate the functions. The buttons can also be pressed and held for approx. 20 seconds.

Display illustrations

All display illustrations shown in these operating instructions are examples which can be different from the actual display screens shown.
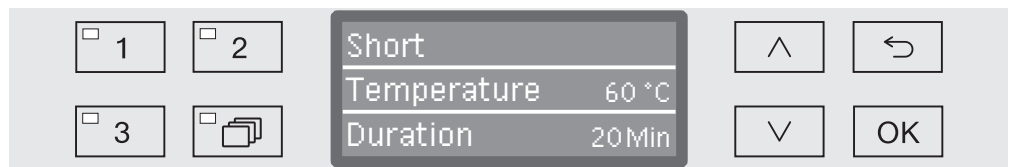
The control buttons, with the exception of the ⏻ and the *Start/Stop* buttons, are shown next to the display.

Using the machine

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:

1	2	**Miele**	∧	↰
3	⊡	PROFESSIONAL PG 8504	∨	OK

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

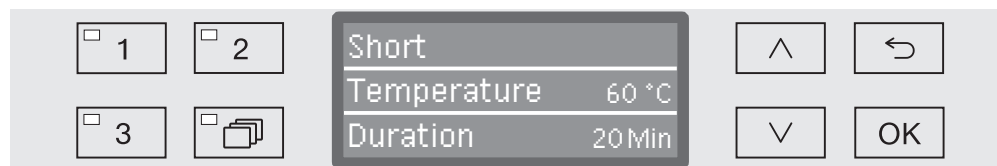| 1	2	Short	∧	↰
		Temperature 60 °C		
3	⊡	Duration 20 Min	∨	OK

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.

Using the machine

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:

1	2	Clock display	∧	↩
3	🗇	12 h 24 h	∨	OK

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 ∧ and ∨ arrow buttons.

■ Press *OK* to save the setting.

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.

□ 1	□ 2	Settings ⚑	∧	↩
□ 3	□ 🗇	Language ⚑ ▲ Date ▾	∨	OK

Use the ∧ and ∨ 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 ✓.

□ 1	□ 2	Language ⚑	∧	↩
□ 3	□ 🗇	deutsch ✓ ▲ english (GB) ▾	∨	OK

i **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.

□ 1	□ 2	i	∧	↩
□ 3	□ 🗇	Refill salt OK	∨	OK
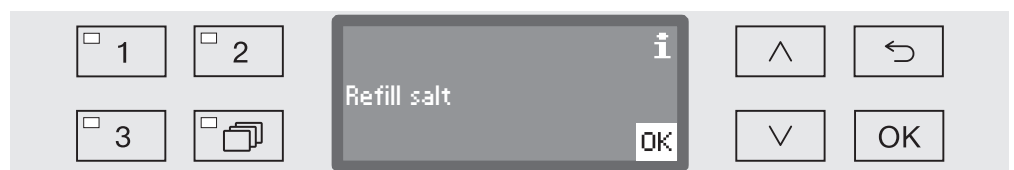
System messages are displayed at the start and end of a programme and have to be confirmed (acknowledged) individually with *OK* or all together at the end of the programme by opening the door. If the **i** symbol is shown on the display, the system messages can be opened by pressing the OK button.

⚠ **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.

Commissioning

Installation and connection

Before commissioning the machine must be securely installed, and the water inlet and drain hoses and the mains cable correctly connected. See "Installation", "Plumbing connections" and "Electrical connection" and the installation diagram supplied.

Procedure

During commissioning a set procedure is followed which must not be interrupted. The display will automatically guide you through the process.

All settings, except for selecting plumbing connections, can be retrospectively altered via the Settings ⚑ and Further settings menus.

> The settings made during the commissioning process are only adopted after a complete programme has been run.
> If the programme is interrupted or if no programme is started and the machine is switched off, the commissioning process must be carried out again.

Switching on
■ Press the ⏻ button until the LED lights up.

Select language
The commissioning process starts with selecting the language.
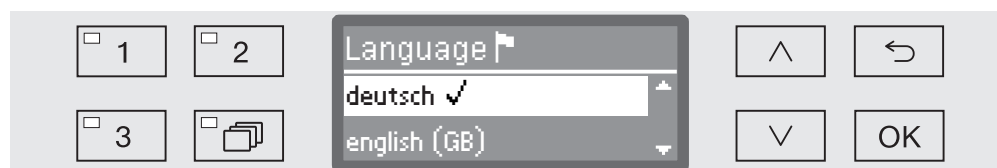
■ Use the ∧ and ∨ arrow buttons to select the language you want and touch *OK* to save.

Select temperature unit
The menu for selecting the temperature unit will then appear.

■ Use the ∧ and ∨ arrow buttons to select the temperature unit you want and touch *OK* to save.

**Select the
date format**

The menu for selecting the date format will then appear.

□ 1	□ 2	Date format	∧	↰
		DD:MM:YY		
□ 3	⧉	MM:DD:YY	∨	OK

- DD = Day

- MM = Month

- YY = Year

■ Use the ∧ and ∨ arrow buttons to select the date format you want and touch *OK* to save.

Set the date
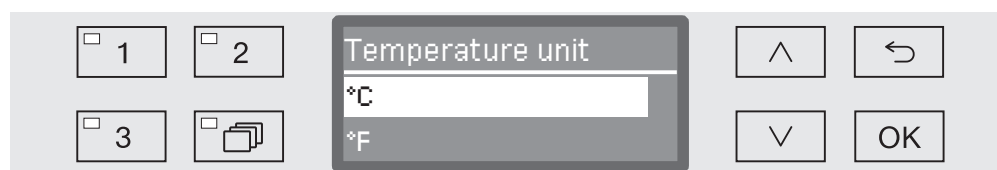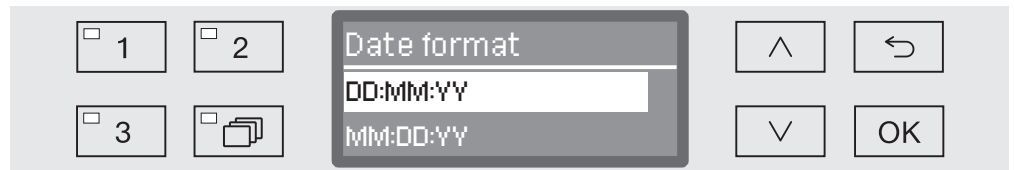
The menu for setting the date will then appear.

□ 1	□ 2	Date	∧	↰
□ 3	⧉	**17** . 10 . 2016	∨	OK

■ Use the ∧ and ∨ arrow buttons to set the day, month and year and touch *OK* to save each one.

**Select
Clock display**

The menu for selecting the clock format will then appear.

□ 1	□ 2	Clock display	∧	↰
		12 h		
□ 3	⧉	24 h	∨	OK

■ Use the ∧ and ∨ arrow buttons to select the format you want and touch *OK* to save.

**Set the time of
day**

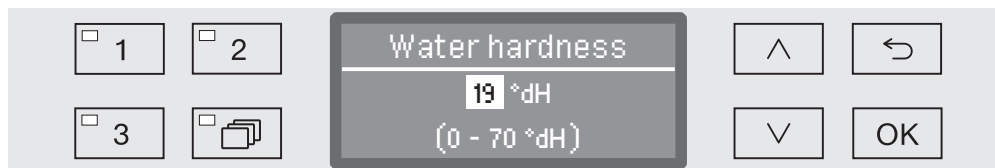The menu for setting the display for the time of day will then appear.

□ 1	□ 2	Time of day	∧	↰
□ 3	⧉	**12** : 00	∨	OK
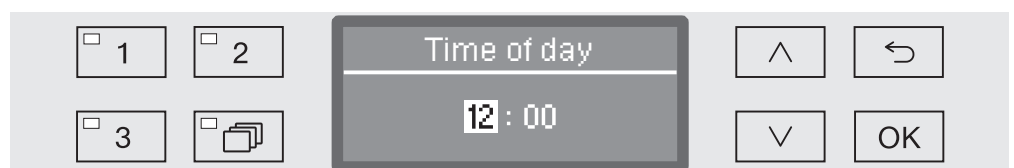
■ Use the ∧ and ∨ arrow buttons to select the hours and minutes and touch *OK* to save each one.

Commissioning

Setting the water hardness level

The menu for setting the water hardness will then appear.

1	2	Water hardness 19 °dH (0 - 70 °dH)	∧	↩
3	▢		∨	OK

The possible range is shown in the bottom line of the display. Water hardness setting values can be found in the "Water softener/Settings" chart.

Your local water authority can give you information about the exact water hardness in your area.

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 using the arrow buttons ∧ (higher) and ∨ (lower) and touch *OK* to save.

■ Write down the water hardness in "Water softener/Water hardness".

Select plumbing connections

The menu for setting plumbing connections will then appear.

Unused plumbing connections, e.g. if there is only one connection, can be deactivated here.

> Following commissioning the plumbing connections can be reinstated by Miele Service.

1	2	Plumbing connections Accept ☑ Cold water	∧	↩
3	▢		∨	OK

The plumbing connection is set via multiple choice. A box ☐ is shown in the display next to all plumbing connections. If the connection is activated, a tick ☑ can be seen in it. Select to activate or deactivate the plumbing connections.

■ Use the ∧ and ∨ arrow buttons to select the plumbing connection you want. Plumbing connections are activated or deactivated by touching *OK*.

■ To save the selection select the Accept option at the end of the list and confirm with *OK*.

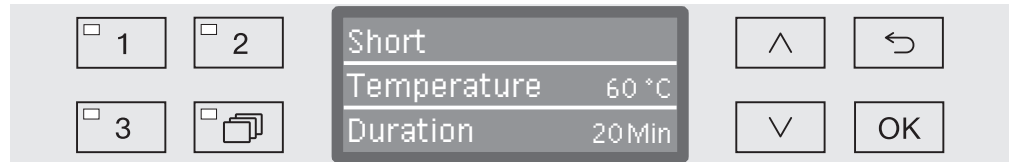|	
Commissioning completed	Commissioning is completed when the following message is displayed.

```
┌──┐  ┌──┐     ┌──────────────────┐   ┌──┐  ┌──┐
│▫ 1│  │▫ 2│    │                 i│   │ ∧ │  │ ↩ │
└──┘  └──┘     │Set up successful │   └──┘  └──┘
┌──┐  ┌──┐     │            ┌──┐  │   ┌──┐  ┌──┐
│▫ 3│  │▫ ⟳│    │            │OK│  │   │ ∨ │  │OK│
└──┘  └──┘     └──────────────────┘   └──┘  └──┘
```
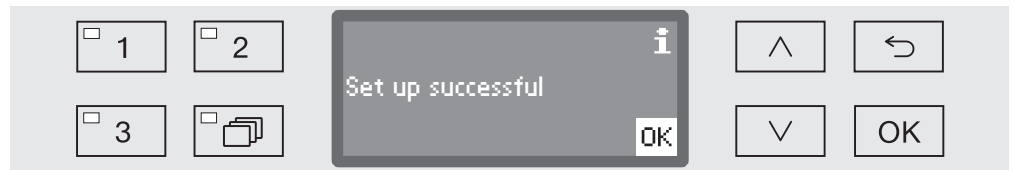
■ Confirm the message with *OK*.

The washer-disinfector is now ready for use.

```
┌──┐  ┌──┐     ┌──────────────────┐   ┌──┐  ┌──┐
│▫ 1│  │▫ 2│    │Short             │   │ ∧ │  │ ↩ │
└──┘  └──┘     │Temperature  60°C │   └──┘  └──┘
┌──┐  ┌──┐     │Duration    20Min │   ┌──┐  ┌──┐
│▫ 3│  │▫ ⟳│    │                  │   │ ∨ │  │OK│
└──┘  └──┘     └──────────────────┘   └──┘  └──┘
```

The settings made during the commissioning process are only adopted after a complete programme has been run.

■ Select any programme, e.g.: Drain.

■ Press the *Start/Stop* button to start the programme.

> After commissioning, every programme starts with reactivation of the water softener.

Fault 420	If the programme is cancelled using Fault 420, this means that all the plumbing connections are deactivated.

■ Confirm the error message with *OK*.

■ Switch the machine off using the ⏻ button.

■ Wait approximately 10 seconds before switching the machine on again with the ⏻ button.

The commissioning procedure starts again.

■ Perform commissioning and activate at least one plumbing connection; e.g. for cold water.

Opening and closing the door

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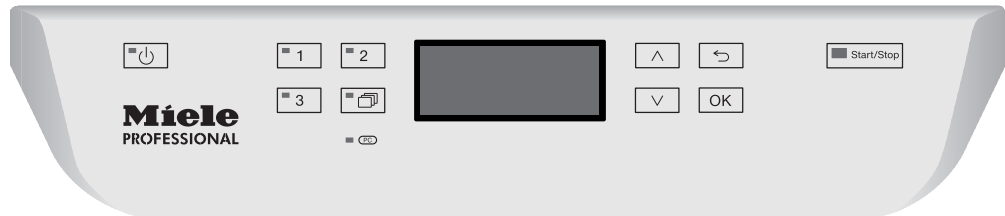
■ Grasp the handle underneath the control panel and lower the door to open it.

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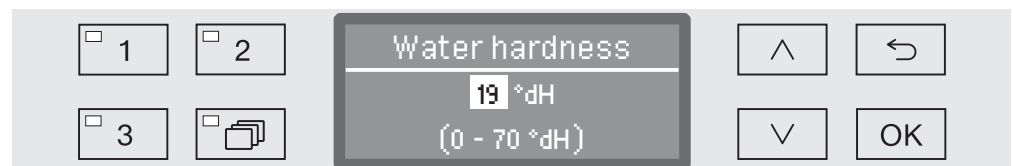
The bottom line of the display shows the possible input range. Water hardness input values can be found in the chart on the next page.

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 (∧ = higher and ∨ = lower).

- Press *OK* to save the setting.

Water softener

Settings

| °dH	°f	mmol/l	Display		°dH	°f	mmol/l	Display
0	0	0	**0**		36	65	6.5	**36**
1	2	0.2	**1**		37	67	6.7	**37**
2	4	0.4	**2**		38	68	6.8	**38**
3	5	0.5	**3**		39	70	7.0	**39**
4	7	0.7	**4**		40	72	7.2	**40**
5	9	0.9	**5**		41	74	7.4	**41**
6	11	1.1	**6**		42	76	7.6	**42**
7	13	1.3	**7**		43	77	7.7	**43**
8	14	1.4	**8**		44	79	7.9	**44**
9	16	1.6	**9**		45	81	8.1	**45**
10	18	1.8	**10**		46	83	8.3	**46**
11	20	2.0	**11**		47	85	8.5	**47**
12	22	2.2	**12**		48	86	8.6	**48**
13	23	2.3	**13**		49	88	8.8	**49**
14	25	2.5	**14**		50	90	9.0	**50**
15	27	2.7	**15**		51	92	9.2	**51**
16	29	2.9	**16**		52	94	9.4	**52**
17	31	3.1	**17**		53	95	9.5	**53**
18	32	3.2	**18**		54	97	9.7	**54**
19	**34**	**3.4**	**19 *)**		55	99	9.9	**55**
20	36	3.6	**20**		56	100	10.0	**56**
21	38	3.8	**21**		57	102	10.2	**57**
22	40	4.0	**22**		58	104	10.4	**58**
23	41	4.1	**23**		59	106	10.6	**59**
24	43	4.3	**24**		60	107	10.7	**60**
25	45	4.5	**25**		61	109	10.9	**61**
26	47	4.7	**26**		62	111	11.1	**62**
27	49	4.9	**27**		63	113	11.3	**63**
28	50	5.0	**28**		64	115	11.5	**64**
29	52	5.2	**29**		65	116	11.6	**65**
30	54	5.4	**30**		66	118	11.8	**66**
31	56	5.6	**31**		67	120	12.0	**67**
32	58	5.8	**32**		68	122	12.2	**68**
33	59	5.9	**33**		69	124	12.4	**69**
34	61	6.1	**34**		70	125	12.5	**70**
35	63	6.3	**35**					

*) 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.
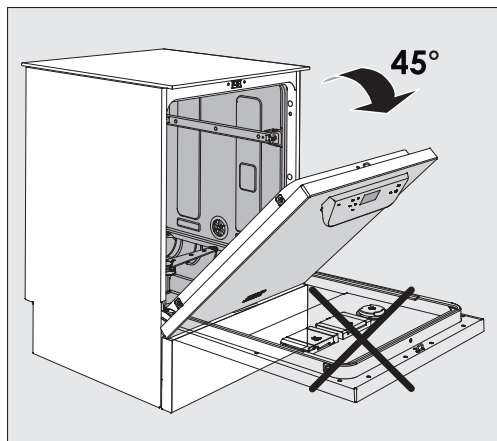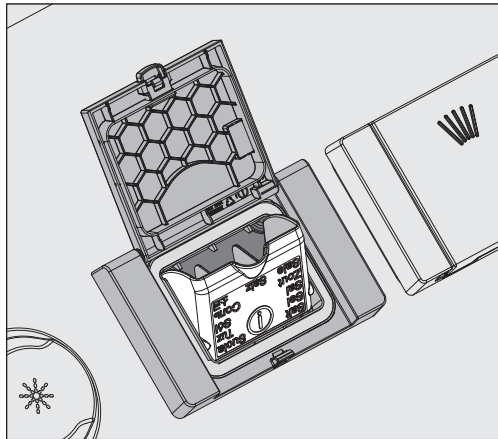

■ Open the door to an angle of around 45°. This ensures that the salt flows into the container more easily.
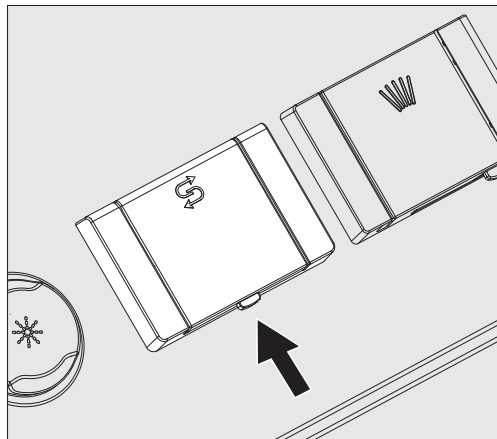
■ Press the yellow button with the ⛎ symbol on the salt container in the direction of the arrow. The flap will spring open .

■ Open the funnel.

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

Water softener

> ⚠ 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.

Add salt reminder

If the salt level in the reservoir is low, the following reminder will appear:
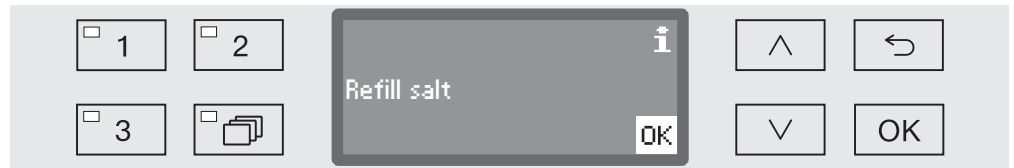
■ Confirm the message with the *OK* button and

■ 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.

Mobile units, baskets, modules and inserts

This machine can be equipped with an upper and lower basket or a mobile unit which can be fitted with different inserts and modules or exchanged for special accessories depending on the items to be washed.

Select accessories which are appropriate for the application.

Information on the individual areas of application can be found on the following pages, as well as in the operating instructions for the mobile units, baskets, modules and inserts (if available).

For all areas of application defined in "Intended use" Miele offers suitable accessories such as mobile units, baskets, modules and inserts and special fittings. Contact Miele for more information.

⚠ When using an upper basket with a spray arm at the same time as 2 injector modules in the bottom basket, the amount of water required has to be increased by + 1.5 l for the programme (see "Further settings/Additional functions").
Using up to 4 injector modules in the upper basket and the lower basket at the same time is not permitted.

See "Programme chart" for an overview of which programmes can be used for which accessories.

Water supply

Mobile units and baskets with spray arms or other rinse fittings are equipped with one or more connection points to the water supply. When loading baskets, mobile units, etc into the machine, connect these to the water connection points in the back panel of the wash cabinet. The mobile units and baskets are held in place by the wash cabinet door when closed.
Any free connections in the back panel are closed mechanically.

Older models of mobile units and baskets

Only use older models of mobile units and baskets in this machine in consultation with Miele. In particular mobile units and baskets with water supply pipes for spray arms and injector manifolds must be converted to the new type of water connector.
Conversion must be carried out by Miele Service and is only available for selected models.

⚠ The fitting of connectors for the water supply of mobile units and baskets must be carried out by Miele Service.
Fitting faults on mobile units and baskets can cause damage to the machine.

Following conversion, mobile units and baskets can no longer be used in older models of the machine.

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 ...

... Upper position:
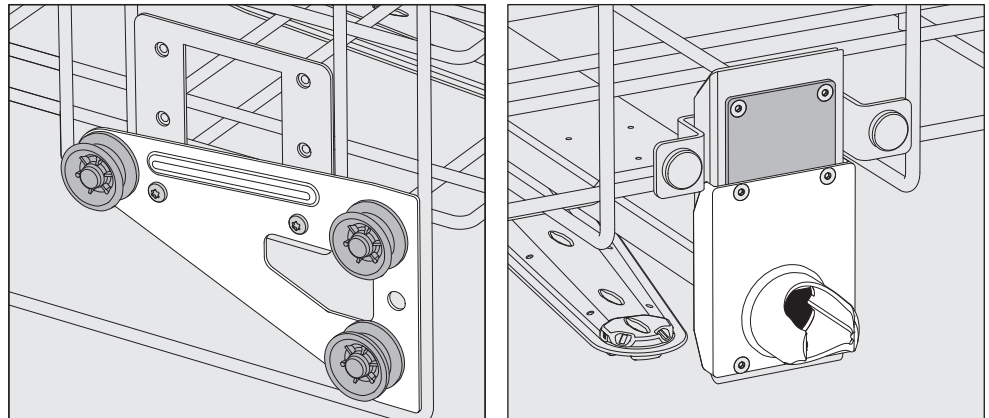
■ Move the roller brackets on both sides to the lower position and secure them firmly.

■ 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.
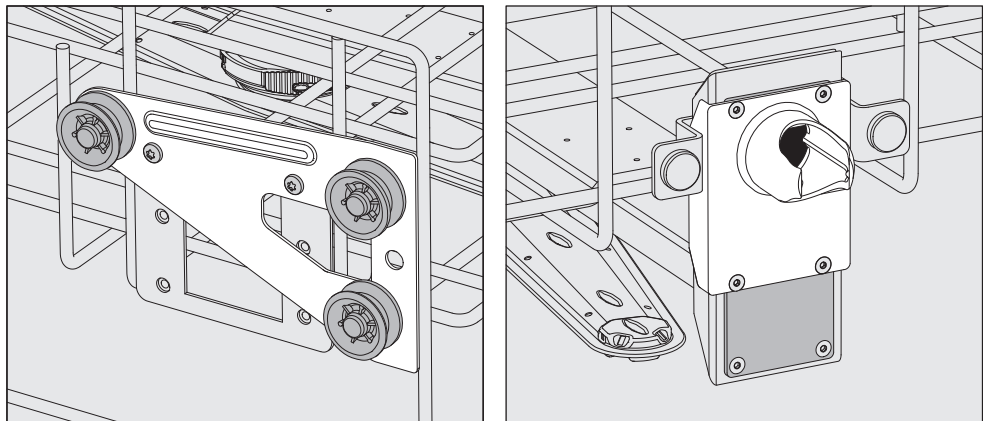
Areas of application

... Middle position:
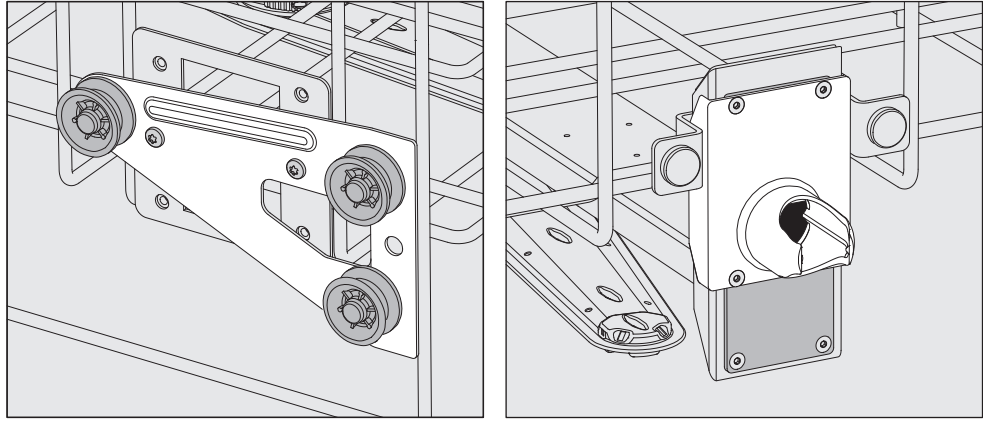
■ Move the roller brackets on both sides to the middle position and secure them firmly.

■ 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

⚠ Only 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.

Special injector nozzles, irrigation sleeves or adapters may be required for appropriate internal cleaning, depending on the load. These, together with other accessories, are available from Miele.

- Arrange the load so that water can access all surfaces. This ensures that it gets properly cleaned.

- Do not place items to be cleaned inside other pieces where they may be concealed.

- Hollow items must be thoroughly cleaned, internally and externally.

- Ensure that items with long narrow hollow sections can be flushed through properly before placing them in a fitting or when connecting them to a water connection.

- Hollow containers should be inverted and placed in the correct mobile units, baskets, modules and inserts, to ensure that water can flow in and out of them unrestricted.

- Deep-sided items should be placed at an angle to make sure water runs off them freely.

- Tall, narrow, hollow items should be placed in the centre of the baskets or mobile units. This ensures better water coverage.

- Take apart any items which can be dismantled according to the manufacturer's instructions and process the individual parts separately from each other.

- Lightweight items should be secured with a cover net (e.g. a A 6) and small items placed in a mesh tray to prevent them blocking the spray arms.

- The spray arms must not be blocked by items which are too tall or which hang down in their path.

- Broken glass can result in serious injury when loading or unloading. Broken glass items must not be processed in the machine.

- Nickel and chrome-plated items, and items made of aluminium, require special procedures and 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.

- With items which are made entirely or partly of plastic, observe the maximum thermal stability for the items and select an appropriate programme or adjust the temperature of the programme.

Areas of application

Observe the further information given in the following sections as necessary depending on area of application.

Preparing the load

- Empty all items before loading into the machine (paying particular attention to relevant regulations).

- Remove non-water soluble residues such as paint, adhesives and polymer compounds using appropriate solvents.

- Rinse load items which have been in contact with chloride solutions or hydrochloric acid thoroughly with water before loading in the machine and drain well.

⚠ 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, and items containing iron that can rust or corrode must not be placed in the machine.

- Shake out any blood residues and remove any clots.

- If necessary, rinse the load briefly with water to prevent coarse soiling entering the machine.

- Remove stoppers, corks, labels, sealing residues, etc.

- Secure small items such as stoppers and taps in suitable baskets for small items.

It may be necessary in individual cases to check whether extremely stubborn contamination – such as vacuum grease and paper labels – which could affect the cleaning result must be removed in advance.

It must be determined whether load items which are contaminated with microbiological material, pathogenic germs, facultative pathogenic bacteria, genetically modified material, etc. need to be sterilised prior to machine processing.

Carry out a visual check before starting every programme:

- Is everything correctly loaded/connected for cleaning?

- Was the recommended loading template followed?

- Can the lumen / narrow sections of hollow items be accessed by the wash fluid?

- Are the spray arms clean and do they rotate freely?

- Are the filters clean?
  Remove any coarse soiling and clean them if necessary.

- Are the removable modules, injector nozzles, irrigation sleeves and other rinsing fittings securely connected?

- Are the baskets and modules or mobile units correctly connected to the water supply and are the water connectors undamaged?

- Are all chemical containers sufficiently filled?

The following must be checked at the end of every programme:

- Carry out a visual check of the load for cleanliness.

- Check that all hollow items are still securely located on their injector nozzles.

⚠ Any hollow items that have become disconnected from their fittings during reprocessing must be reprocessed.

- Check that the lumen of hollow items are free of obstruction.

- Check that injector nozzles and connectors are securely held in position in the baskets or inserts.

Areas of application

Wash load...

...wide necked

Wash load items with wide necks, e.g. beakers, wide necked Erlenmeyer flasks and petri dishes, or cylindrical items, e.g. test tubes, can be cleaned inside and out by rotating spray arms.
To do this the wash load is positioned in full, half or quarter inserts and placed in an empty lower basket or an upper basket with a spray arm.

...narrow necked

Baskets with special injector modules are available for wash load items with narrow necks, e.g. narrow necked Erlenmeyer flasks, round bottomed flasks and measuring flasks.

> The injector units and modules come with their own operating instructions.

When loading please note:

- Place petri dishes in the appropriate insert with the dirty side facing towards the middle.

- Quarter segment inserts should be positioned at a minimum 3 cm distance from the edge of the upper or lower basket.

- Position quarter segment inserts for test tubes around the middle to leave the corners of the upper or lower basket free.

- Use a cover net to avoid breakages if required.

In this section, you will find a description of the causes of common chemical reactions which can occur between different types of soiling, process chemicals and the components of the machine, along with their remedies as necessary.

This section is intended as a guide. If unforeseen interactions occur during reprocessing or if you have any queries on this subject, please seek advice from Miele.

General information	
Problem	**Measures**
If elastomers (hoses and seals) and plastics in the cleaning machine are damaged, for example by swelling, shrinking, hardening or brittleness of materials, tears and cracks, components will not function correctly and this generally leads to leaks.	- Determine and remedy the causes of the damage. See also the information on "Process chemicals", "Soiling" and "Reaction between process chemicals and soiling" in this section.
A heavy build-up of foam during the programme sequence will impair the cleaning and rinsing effect on the load items. Foam escaping from the wash cabinet can cause damage to the cleaning machine. When foam develops, the cleaning process cannot be guaranteed to be standardised and validated.	- Determine and remedy the causes of the foam. - Check the process used regularly to monitor foaming levels. See also the information on "Process chemicals", "Soiling" and "Reaction between process chemicals and soiling" in this section.
Corrosion of stainless steel in the wash cabinet and of accessories can affect their appearance: - Rust (red stains/discolouration) - Black stains/discolouration - White stains/discolouration (etched surface) Corrosive pitting can lead to the machine not being water-tight. Depending on the application, corrosion can affect cleaning and rinsing results (laboratory analysis) or cause corrosion of (stainless steel) load items.	- Determine and remedy the causes of corrosion. See also the information on "Process chemicals", "Soiling" and "Reaction between process chemicals and soiling" in this section.

Chemical processes and technology

Process chemicals	
Problem	**Measures**
The ingredients in process chemicals have a strong influence on the longevity and functionality (throughput) of the dispensing system.	- Follow the process chemical manufacturer's instructions and recommendations. - Carry out a regular visual check of the dispensing system (suction lances, hoses, dispenser canisters, etc.) for any damage. - Regularly check the flow rate of the dispensing system. - Ensure that the regular cycle of maintenance is observed. - Please contact Miele for advice.
Process chemicals can damage elastomers and plastics in the cleaning machine and accessories.	- Follow the process chemical manufacturer's instructions and recommendations. - Carry out a regular visual check of any accessible elastomers and plastics for damage.
The following process chemicals can cause large amounts of foam to build up: - Cleaning agents and rinsing agents containing surfactants Foam can occur: - In the programme block in which the process chemical is dispensed - In the following programme block if it has been spilt - In the following programme with rinsing agent if it has been spilt	- The process parameters in the wash programme, such as dispensing temperature, dosage concentration, etc., must be set to ensure the whole process is foam-free or very low-foaming. - Please observe the process chemical manufacturer's instructions.
De-foaming agents, especially silicone-based ones, can cause the following: - Deposits to build up in the wash cabinet - Deposits to build up on the load items - Damage to elastomers and plastics in the cleaning machine - Damage to certain plastics (e.g. polycarbonate and plexiglass) in the load items being processed	- De-foaming agents should be used in exceptional cases only; for instance, when absolutely essential for the process. - The wash cabinet and accessories should be periodically cleaned without load items and without de-foaming agent using the Medium or Long programme. - Please contact Miele for advice.

Soiling	
Problem	**Measures**
The following substances can damage elastomers (hoses and seals) and plastics inside the cleaning machine: - Oils, waxes, aromatic and unsaturated hydrocarbons - Emollients - Cosmetics, hygiene and skincare products such as creams (analytical applications, filling)	- Depending on usage, wipe the lower door seal on the cleaning machine periodically with a lint-free cloth or sponge. Clean the wash cabinet and accessories without load items using the Medium or Long programme. - Use the Long programme with a load and dispense powder cleaning agent on the door.
The following substances can lead to heavy build-up of foam during washing and rinsing: - Some disinfection agents, detergents, etc. - Reagents for analysis, e.g. for microtiter plates - Cosmetics, hygiene and skincare products such as shampoos and creams (analytical applications, filling) - Active foaming agents such as surfactants	- Thoroughly rinse load items in water beforehand. - Select the Long programme (with a cold or hot pre-wash). - Depending on the application, use de-foaming agents that do not contain silicone oils.
The following substances can cause corrosion to stainless steel in the wash cabinet and the accessories: - Hydrochloric acid - Other substances containing chlorides such as sodium chloride, etc. - Concentrated sulphuric acid - Chromic acid - Iron particles and shavings	- Thoroughly rinse load items in water beforehand. - Put the drip-dry load items into the mobile units, baskets, modules and inserts and start a programme as soon as possible after placing in the wash cabinet.

Chemical processes and technology

Reaction between process chemicals and soiling	
Problem	**Measures**
Natural oils and fats can be emulsified with alkaline process chemicals. This can lead to a heavy build-up of foam.	- Select the Medium or Long programme. - Depending on the application, use de-foaming agents that do not contain silicone oils.
Soiling containing high protein levels, such as blood, can cause a heavy build-up of foam when processed with alkaline process chemicals.	- For cold water connection, select the Long programme (with a cold water pre-wash). - For hot water connection, pre-treat the load items where necessary.
Non-precious metals, such as aluminium, magnesium and zinc, can release hydrogen when processed with very acidic or alkaline process chemicals (oxyhydrogen reaction).	- Please observe the process chemical manufacturer's instructions.

⚠ 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.

Take all protective measures required by the process chemical manufacturer, e.g. wear protective goggles and protective gloves.

Contact Miele for information about suitable process chemicals.

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.

Dispensing systems

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

- Neutralising agent **or** rinsing agent
  This is dispensed via a storage reservoir ❋ in the door.

- Powder cleaning agents
  These are dispensed via the dispenser ⫻⫼⫽ in the door.

Labelling of the siphons

Liquid process chemicals from external containers are dispensed by siphons. Colour coding the siphons can be helpful for correct dispensing.

Miele uses and recommends the following:

- Blue: for cleaning agent
- Red: for neutralising agent
- Green: for chemical disinfection agents or
            an additional second cleaning agent
- White: for acidic process chemical
- Yellow: for free choice

DOS modules

If required an additional external dispensing module (DOS module) can be fitted retrospectively for liquid chemical agents.

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.
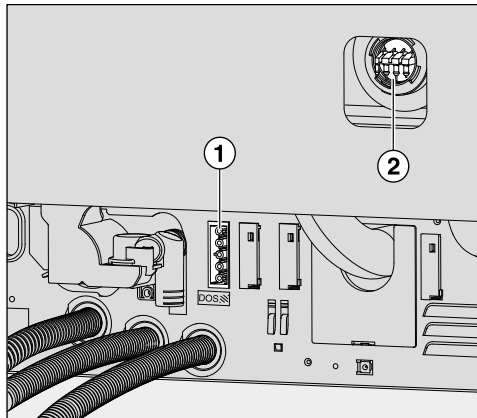
① Power supply for DOS 1, cleaning agent.

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".

Dispensing neutralising agent or rinsing agent

The container with the ☀ symbol on the lid can be used to dispense either neutralising agent **or** rinsing agent.

Neutralising agent is programmed at the factory.

To change the agent, e.g. from neutralising agent to rinsing agent, the controls for the cleaning machine must be reprogrammed by the Miele Customer Service Department.

Neutralising agent Neutralising agent (pH setting: acidic) neutralises any residues of alkaline cleaning agents on the surface of the load.

The neutralising agent is dispensed in the Interim rinse programme stage, after the main wash (see programme charts). For this, the container must be filled.

Rinsing agent

The dispensing of rinsing agent is deactivated ex-works.
Please contact Miele Service if you wish to activate it.
If rinsing agent has been activated, neutralising agent will not be dispensed in the Interim rinse phase of the programme.

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

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

Rinsing agent is automatically dispensed in the Final rinse phase. The reservoir must be filled for this to occur.

Adding and dispensing chemical agents

Filling the reservoir

⚠ Never add cleaning agent.
This will always destroy the container.
Only fill the container with the programmed process chemical – neutralising agent **or** rinsing agent.

■ Open the door fully.
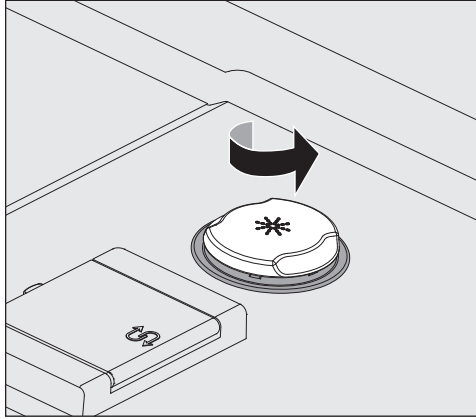
■ Unscrew the yellow lid with the ⁂ symbol in the direction of the arrow.

The container holds approx. 300 ml.
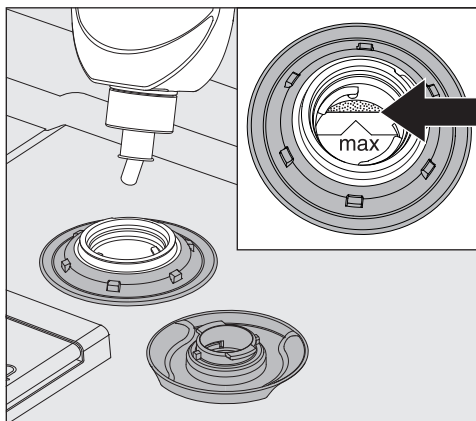
■ Add the process chemical only until it is visible at the "max" mark in the funnel.
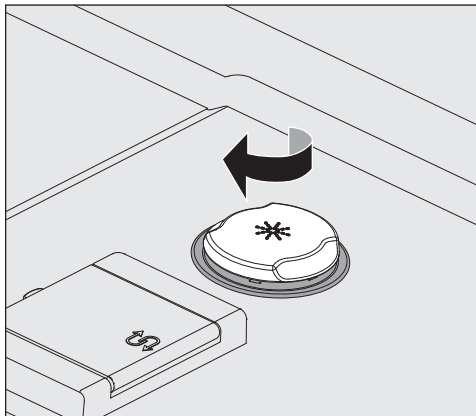
■ Close the container.

■ Wipe up any spilled process chemical thoroughly. Then start the Rinsing programme to prevent over-foaming occurring during the next programme.

Refill indicator

When the fill level is low in the (DOS 2) supply container for neutralising or rinsing agent you are reminded to refill it.
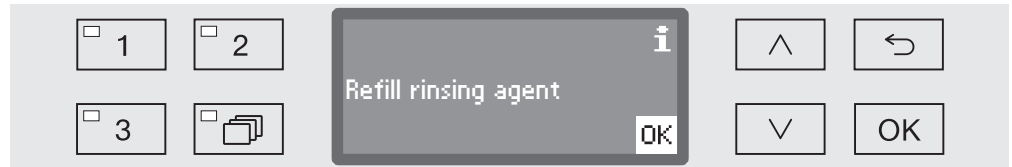
⚠ This message also appears when dispensing neutralising agent. When refilling the reservoir make sure you are using the correct chemical agent.

■ Confirm the message shown with *OK* and

■ refill the chemical agent as described above.

Dispensing

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

If spots appear on items after processing:

■ reduce the amount if using **neutralising agent**.

■ increase the amount if using **rinsing agent**.

If clouding or smearing appears on items after processing:

■ increase the amount if using **neutralising agent**.

■ reduce the amount if using **rinsing agent**.

Cleaning agent

⚠ Only use cleaning agents which are suitable for commercial dishwashers.
Do not use detergent for domestic dishwashers.

This machine can be used with powder cleaning agent or with liquid cleaning agent via an external DOS module.

DOS modules are fitted by Miele Service and can be retrospectively fitted at any time.

Miele recommends the use of liquid cleaning agent.

For environmental reasons it is important to always consider the following factors when selecting a cleaning agent:

- How alkaline does the cleaning agent need to be for the cleaning application involved?

- Are protein-removing enzymes required and is the programme sequence suitable for this?

- Are tensides required for proper dispersal and emulsification?

- Is a cleaning agent containing active chlorine required or can a detergent without active chlorine be used?

⚠ Cleaning agents containing chlorine can damage the plastics and elastomers inside the cleaning machine.

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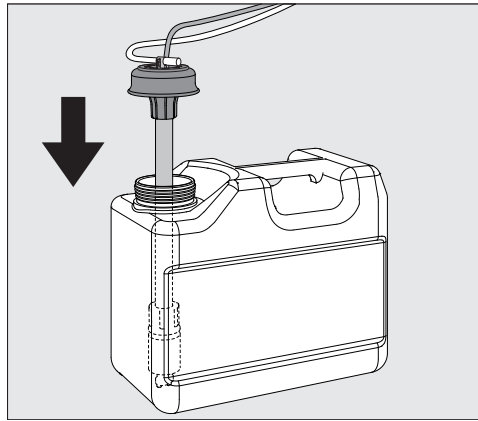
■ Push the suction lance into the opening of the container and secure the lid. Observe the colour coding.

■ 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

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.
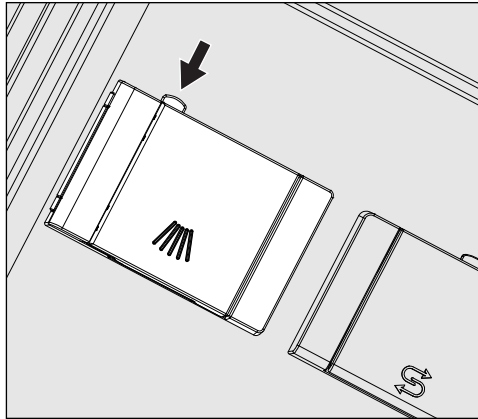
■ Press the yellow button on the dispenser with the /|||\ symbol.

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!
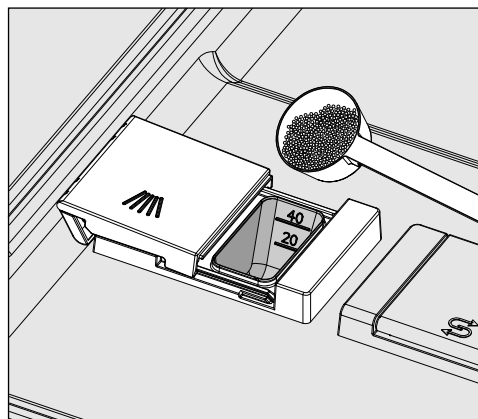
■ Add powder cleaning agent to the dispenser.
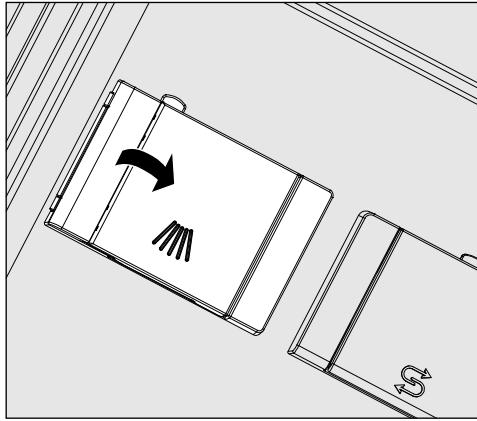
■ Close the flap.

⚠ 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.

Nozzle A 802   The nozzle A 802 flushes the powder detergent out of the dispenser during the programme.

If an upper basket and a lower basket with two modules are being used, nozzle A 802 for powder detergent must be fitted. The operating instructions for the modules describe how to do this.

Operation

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 ∨ arrow buttons to highlight a programme and confirm your selection with *OK*.

□ 1	□ 2	Short		∧	↰
□ 3	□ ⧉	Temperature 60 °C Duration 20 Min		∨	OK
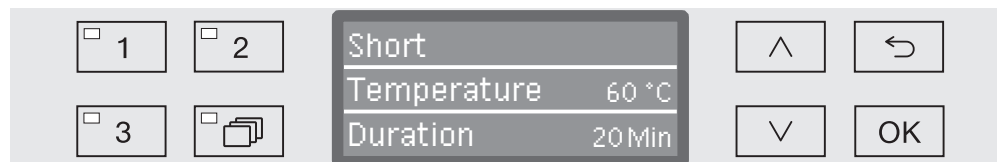
The LED in the button selected lights up and the relevant programme appears in the display. The LED in the *Start/Stop* button also starts to flash.

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 the type of load and degree and type of soiling, or on infection prevention issues.

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 (to benefit from economy rates of electricity, for example, or to clean the wash cabinet before it is used the next day). 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").

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.

1	2	Start time	∧	�
3	⎙	**12** : 00	∨	OK
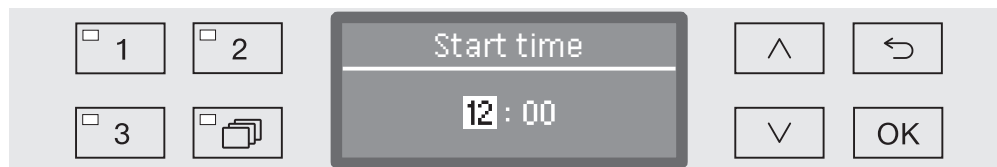
■ Use the arrow buttons ∧ (higher) and ∨ (lower) to set the hours, and confirm your selection with the *OK* button.

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 ↩ button and repeated.

■ Set the minutes using the arrow buttons ∧ (higher) and ∨ (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.

1	2	Short	∧	↩
		Temperature 60 °C		
3	⎙	Switch on at 12:30	∨	OK
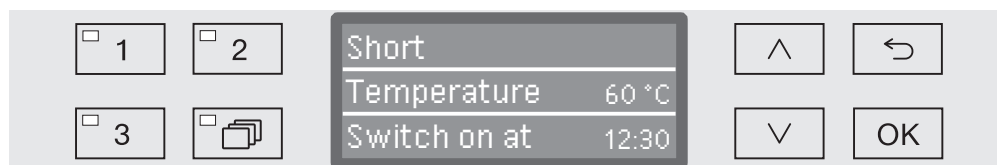
The selected programme with the set start time is then shown on the display. If automatic deactivation has been selected (see "Further settings/Switch off after"), the machine will switch itself off after the set time until the programme start time is reached.

Deactivating delay start

■ Press the ↩ button or switch the machine off using the ⏻ button.

Operation

Programme sequence indicator

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

□ 1	□ 2	Short	∧	↰
□ 3	□ ⧉	Main wash	∨	OK
		Time left 15 Min
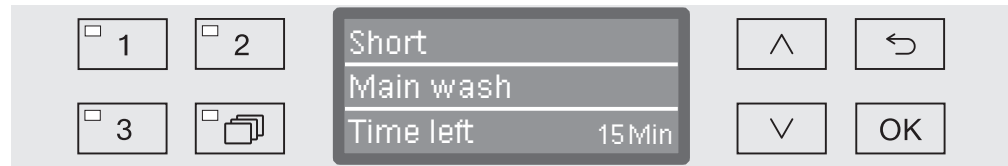
Top line   - Programme name.

Middle line   The following parameters can be checked using the ∧ and ∨ 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:

| 1 | 2 | Programme interrupted: Door opened ⓘ | ∧ | ↰ |
| 3 | ▥ | | ∨ | OK |

■ 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:

| 1 | 2 | Cancel programme No Yes | ∧ | ↰ |
| 3 | ▥ | | ∨ | OK |

■ Use the ∧ and ∨ 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 if 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.

Settings ⚑

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_
- ▸ 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

□ 1	□ 2	Delay start		∧	⤺
□ 3	□ ⧉	No Yes		∨	OK
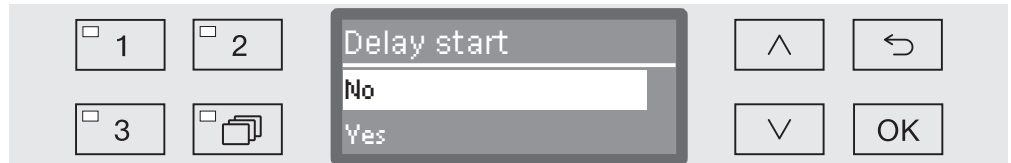
- No

  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 ∧ and ∨ arrow buttons.

■ Press *OK* to start the venting process.

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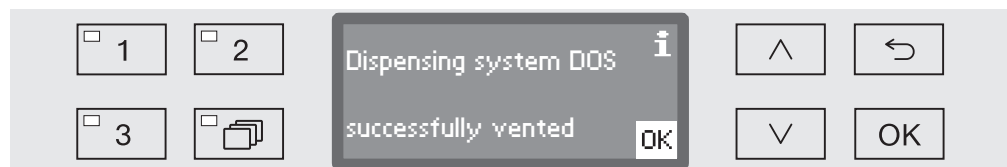
Language ⚑

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.

☐ 1	☐ 2	Language ⚑		∧	↰
☐ 3	☐ ▢	deutsch ✓ english (GB)		∨	OK
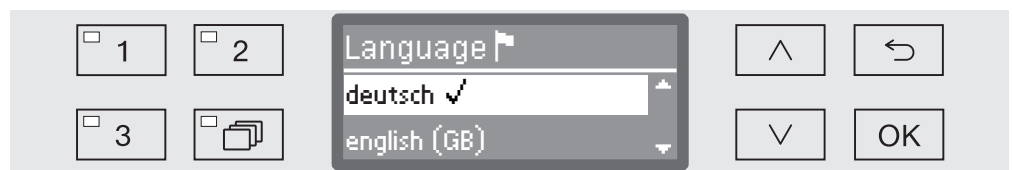
A list of all the available languages will be displayed. The language currently selected is marked with a tick ✓.

> 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
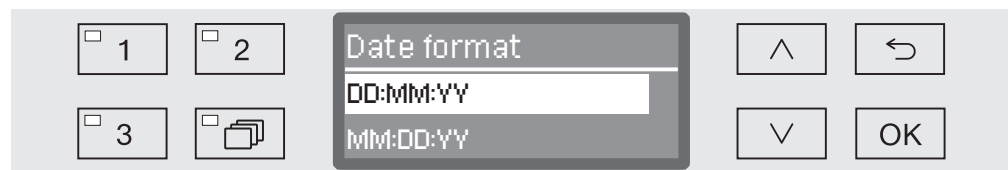
□ 1	□ 2	Date format	∧	↩
□ 3	□ ▢	DD:MM:YY MM:DD:YY	∨	OK

- 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

□ 1	□ 2	Date	∧	↶
□ 3	□ ⧉	**17** . 10 . 2016	∨	OK

■ 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

▢ 1	▢ 2	**Time of day**	∧	↩
▢ 3	▢ 🗗	**12** : 00	∨	OK
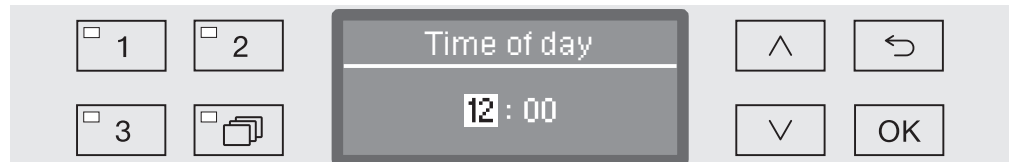
■ Use the arrow buttons ∧ (higher) ∨ (lower) to set the hours and confirm your entry with the *OK* button.

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.

Settings ⚑

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

1	2	Display	∧	↩
		Do not display		
3	▢	On	∨	OK

- 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
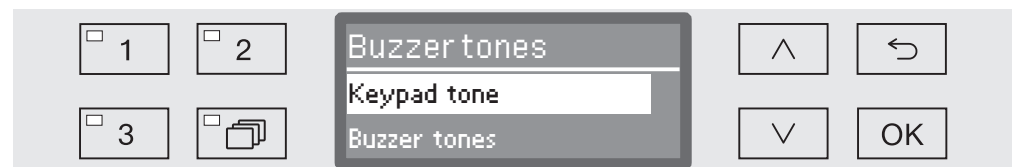
- Buzzer tones

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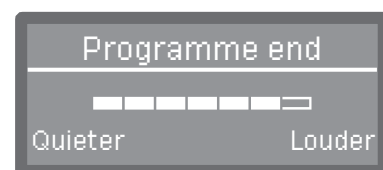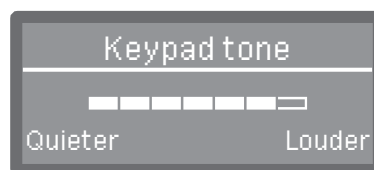
The volume level is represented by a bar chart. On the lowest setting the buzzer tone is switched off.

■ 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] Short
  [2] Medium
  [3] Long

▸ 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.

□ 1	□ 2		Code		∧	↳
□ 3	□ ⯗		0 0 0 0		∨	OK

> 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 ∧ (higher) and ∨ (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.

□ 1	□ 2		i		∧	↳
□ 3	□ ⯗		Wrong code entered OK		∨	OK

- 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

1	2	**Further settings**	∧	↰
3	▭	Block Yes	∨	OK

‐ Block

The menu is only accessible by using a code.

‐ Yes

The menu is available to all users.

■ Select an option using the ∧ and ∨ 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 ∧ (higher) and ∨ (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
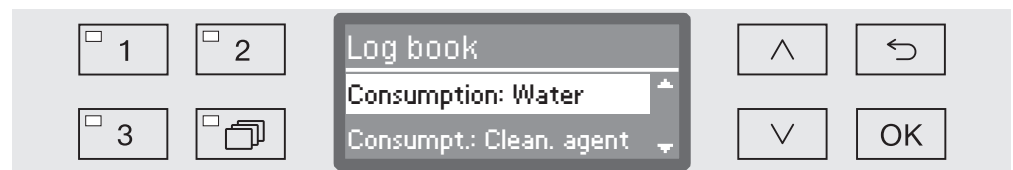
- Consumption: Water

  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 total consumption of neutralising agent or rinsing agent 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
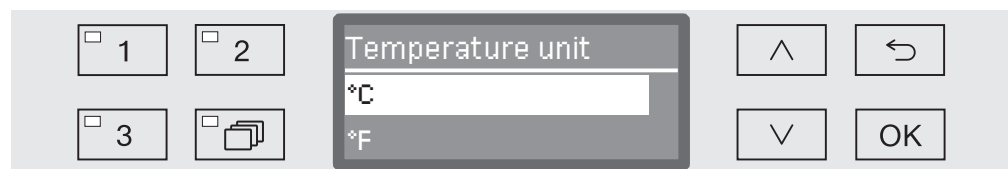
   ▸ Temperature unit

- °C

  Display temperature in degrees Celsius.

- °F

  Display temperature in degrees Fahrenheit.

■ Select an option using the ∧ and ∨ 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

1	2	Move programme	∧	↩
3	🗗	1. Short ▲ 2. Medium ▼	∨	OK
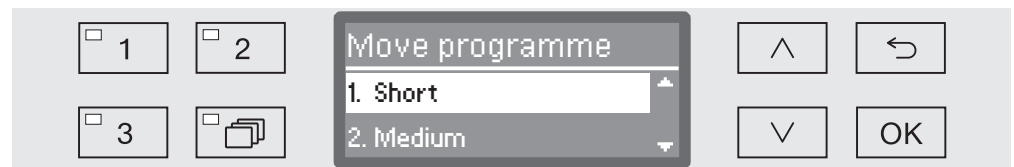
All released programmes are shown in the programme list (see "Further settings/Programme release"). A programme's position in the programme list is decisive for allocating the programme selection buttons. Programmes are numbered from 1 - n. The first three programmes in the list are allocated to the programme selection buttons; for example:

- 1. Short **on programme selection button** ⎾1⏌

- 2. Medium **on programme selection button** ⎾2⏌

- 3. Long **on programme selection button** ⎾3⏌

- 4. Demineralised rinse

- 5. 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.

> Changing programme parameters on a validated machine will necessitate a renewed performance validation.

■ 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
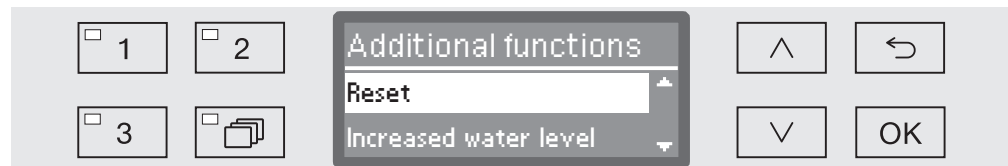
- Reset

  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
```

□ 1	□ 2	Reset	∧	↰
		No		
□ 3	□▢	Yes	∨	OK

- No

  Altered parameters are maintained.

- Yes

  All parameters will be reset to the factory default setting.

■ Select an option using the ∧ and ∨ 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
```

□ 1	□ 2	Increased water level	∧	↰
		0.0 l		
□ 3	□▢	(0.0 - 1.5 l)	∨	OK
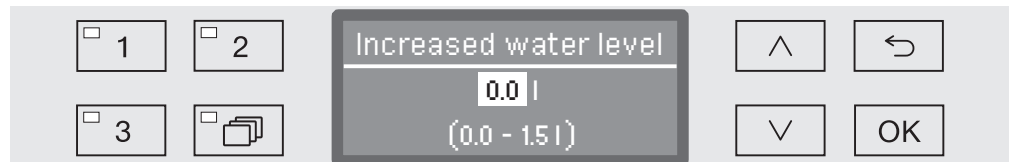
The volume of water can be modified in increments of 0.5 l. The possible range is shown in the bottom line of the display.

■ Use the ∧ (higher) and ∨ (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

		Interim rinse		∧	↰
□ 1	□ 2	No			
□ 3	□ ⧉	Yes		∨	OK

- No

  The additonal interim rinse block is deactivated.

- Yes

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

■ Select an option using the ∧ and ∨ 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)

1	2	DOS		∧	↩
3	▤	**Active** Inactive		∨	OK
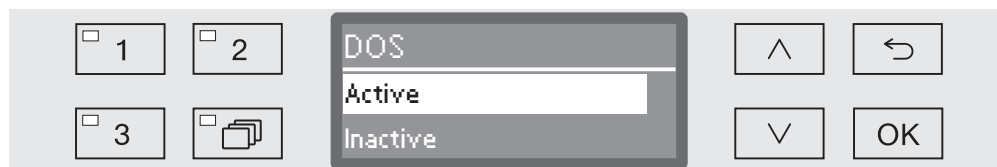
- Active

    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 ∨ 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

1	2	DOS venting	∧	�
		DOS		
3	🗗		∨	OK

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 ∧ and ∨ arrow buttons.

■ Press *OK* to start the venting process.

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

1	2	Dispensing system DOS ℹ	∧	↩
3	🗗	successfully vented OK	∨	OK
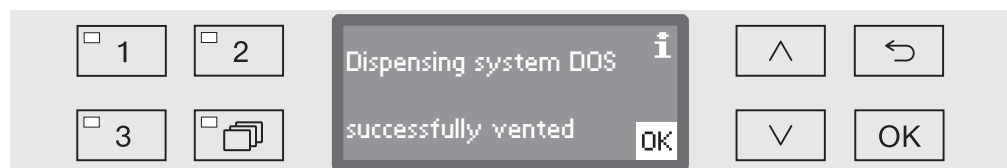
Concentration

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

1	2	Concentration 0.30 % (0.05 - 2.00 %)	∧	⤺
3	▱		∨	OK
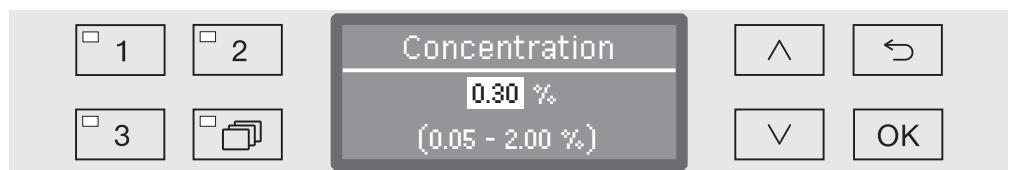
Dispensing concentration can be adjusted in increments of 0.01. The possible range is shown in the bottom line of the display.

■ Set the concentration using the arrow buttons ∧ (higher) and ∨ (lower).

■ Press *OK* to save the setting.

Further settings

<table>
<tr><td>Changing the name</td><td>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.</td></tr>
</table>

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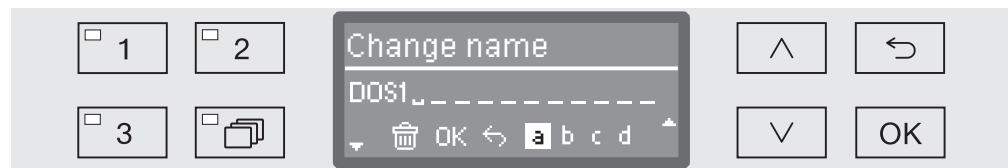
The current name is shown on the second line of the display. This can be changed using the options shown in the bottom line. The top line shows which option has been selected from the bottom line.

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 OK 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

1	2	Temperature / time	∧	↩
3	▢	Reset Main wash	∨	OK
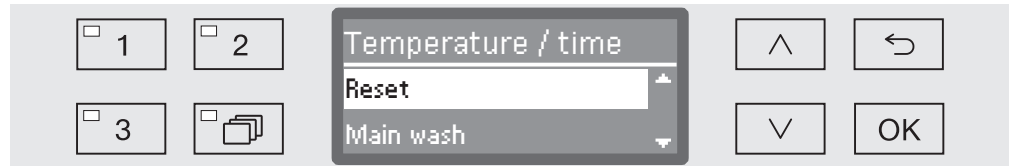
- Reset

  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 ∧ and ∨ arrow buttons and confirm your selection with *OK*.

1	2	Select programme	∧	↩
3	▢	Short Medium	∨	OK
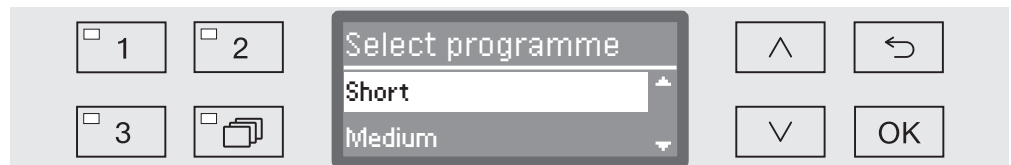
■ Then use the ∧ and ∨ arrow buttons to select the programme and confirm your selection with *OK*.

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:

□ 1	□ 2	Reset		∧	↰
		Temperature			
□ 3	□⧉	Holding time		∨	OK
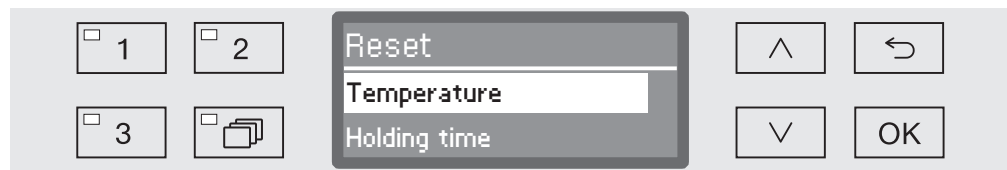
- Temperature / Final rinse temp.

   Adjust the temperature for the selected block.

- Holding time

   Adjust the holding time for the selected block.

■ Select an option using the ∧ and ∨ arrow buttons and confirm your selection with *OK*.

Temperature	Holding time
50 °C	3 Min
(30 - 70 °C)	(1 - 10 Min)
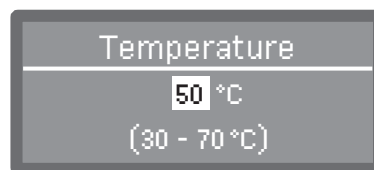
The setting value is entered in increments of 1. The possible range is shown in the bottom line of the display.

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 ∧ (higher) and ∨ (lower) arrow buttons to set the value.

■ Press *OK* to save the setting.

Release programme

It is possible to block access to individual programmes. Blocked programmes are not available for selection, so for example it can be ensured that only validated programmes are used.

■ 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 ∧ and ∨ arrow buttons and confirm your selection with *OK*.

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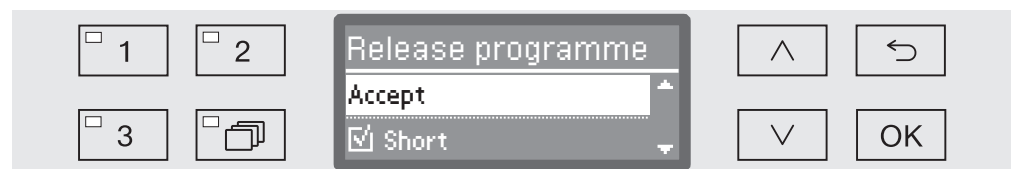
Programmes are selected by multiple choice. A box is shown next to all programmes in the list. If a programme is released, there is a tick ☑ in the box. An empty box indicates a blocked programme.

■ Programmes can be released or blocked using the arrow buttons ∧ and ∨ 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

1	2	Display view	∧	↩
		Actual temperature		
3	⧉	Required temperature	∨	OK
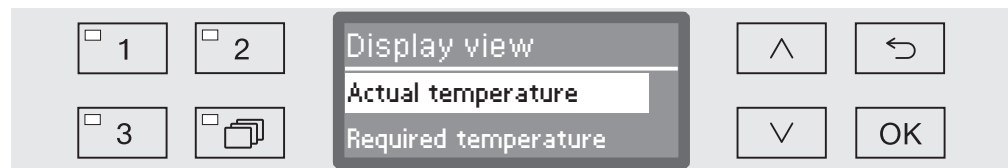
- Actual temperature

  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 ∧ and ∨ 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

☐ 1	☐ 2	Display Contrast Brightness	∧	⏎
☐ 3	☐ 🗇		∨	OK
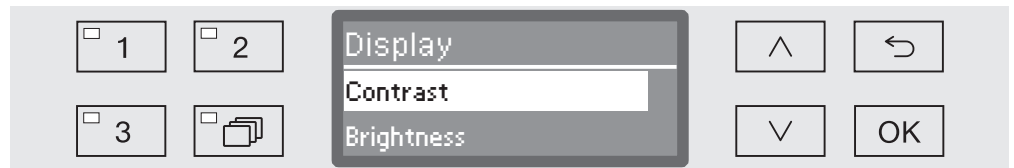
- Contrast

    Set the contrast.
- Brightness

    Set the brightness.

■ Select an option using the ∧ and ∨ arrow buttons.

■ Confirm your selection with *OK*.

Contrast	Brightness
Lower Higher	Darker Brighter
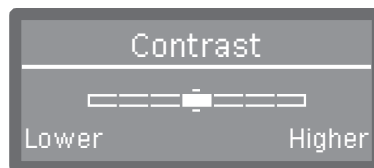
Contrast and brightness are shown as a bar chart in the display.

■ Use the arrow buttons ∧ (Higher/Brighter) and ∨ (Lower/Darker) to set the brightness and contrast you want.

■ Press *OK* to save the setting.

Further settings

Switch off after (Auto-Off function)

If the machine has not been used for a specific duration, it switches itself off automatically to save energy.

The automatic switch-off function can also be used to place the machine in standby mode. During standby, the machine remains switched on and the time is shown on the display. Pressing any button reactivates the machine.

The automatic switch-off function can be switched on and off as required.

■ 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
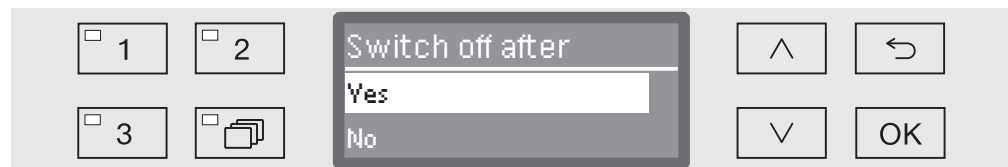
▶ Switch off after

- 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 ∧ and ∨ 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.

▢ 1	▢ 2	**Switch off after**	∧	↺
▢ 3	▢ ⧉	**60** Min (5 - 60 Min)	∨	OK

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 ∧ (higher) and ∨ (lower) arrow buttons to set the wait time duration.

■ Press *OK* to save the setting.

Activating standby

■ To activate standby mode, automatic switch-off must be activated and a wait time set in Further settings/Switch off after.

■ An option to display the time of day must be selected in Settings ⚑/ Time of day/Display.

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

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.

■ 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 ∧ and ∨ 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.

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".

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

Maintenance

Routine checks

Before the start of each working day, the user must carry out a number of routine checks. A checklist is supplied with the machine for this purpose.

The following need to be inspected:

- All filters in the wash chamber

- The spray arms in the machine and in any mobile units, modules and baskets

- The wash chamber and the door seal

- The dispensing systems

- The mobile units, baskets, modules and inserts

- The filters in the load carriers

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.
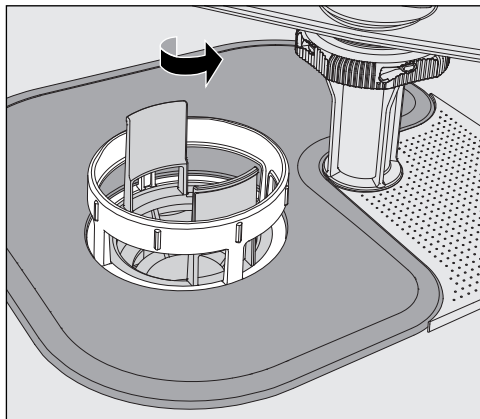
⚠ Danger of injury from glass shards, needles, etc. retained in the filters.

■ Turn the microfine filter in the direction of the arrow and remove it together with the coarse filter.
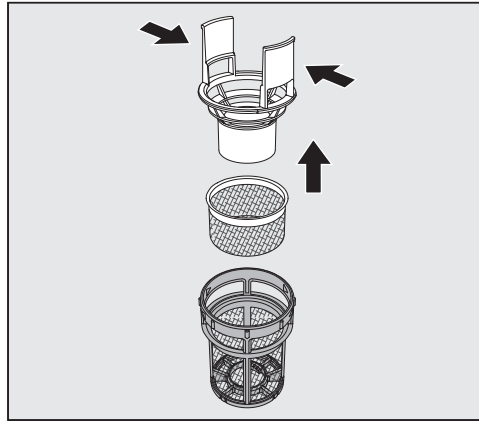
■ Press the catches towards each other and pull the coarse filter upwards to remove it.

■ Remove the fine filter which sits loosely between the coarse filter and the microfine filter.
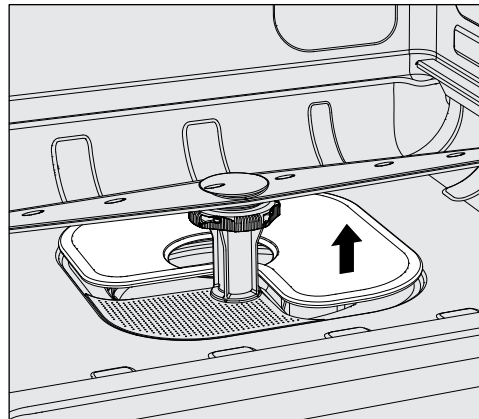
■ Remove the flat filter last.

■ Clean the filters.

■ Re-insert the filter combination in the reverse order. Ensure ...

- ... that the flat filter sits flat in the base of the wash cabinet.

- ... that the coarse filter has securely clicked into place in the microfine filter.

- ... that the microfine filter is tightly screwed in 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.
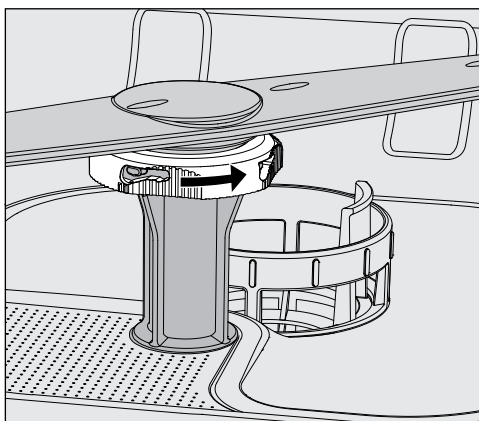
∎ To release the knurled bayonet fittings, turn them in the direction of the arrow as far as they will go.

∎ Then the spray arms can be removed by pulling them upwards or downwards.

Mobile unit and basket spray arms with knurled nuts:
The spray arms of older types of mobile units and baskets are secured with knurled nuts. These must be unscrewed and the spray arms pulled downwards to remove them.
Metal knurled nuts have a left-hand thread.
Ceramic knurled nuts have a right-hand thread.
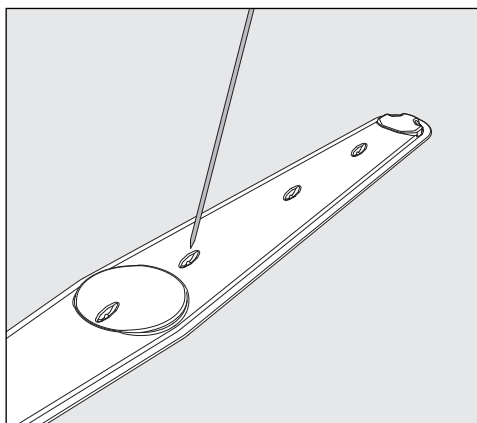
■ Use a pointed object to push food particles into the spray arm.

■ 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.

Maintenance

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.

- Clean the locking clamp.

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 mobile units, baskets, modules and inserts

Mobile units, baskets, modules and inserts must be checked daily to make sure they are functioning correctly. A checklist is supplied with the cleaning machine.

The following points need to be checked:

- Are the mobile unit rollers or basket rollers in good condition, and are they securely attached to their mobile units or baskets?

- Are the water connectors present and undamaged?

- Are height-adjustable water connectors adjusted to the correct height and securely fixed?

- Are all injector nozzles, irrigation sleeves and hose adapters securely attached to mobile units, baskets and modules?

- Are all injector nozzles, irrigation sleeves and hose adapters clear so that wash water can flow through unhindered?

- Are all caps and fasteners securely attached to the irrigation sleeves?

- Are end caps present and securely positioned for all modules and injector manifolds?

- Are the caps in the water connectors of mobile units and baskets working properly?

Where applicable:

- Do the spray arms rotate freely?

- Are the spray arm nozzles free of any blockages? See "Cleaning the spray arms".

- Are the magnets integrated into the spray arms free of any metallic objects sticking to them?

- Check whether the tubular filters need to be cleaned or filter plates, e.g. in an E 478/1 need to be replaced.

Maintenance of mobile units, baskets, modules and inserts

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.

Problem solving guide

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.
Next service due on:	This is not a fault. The Miele Customer Service Department has recommended a date for the next service visit. ∎ 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.	The dispenser was still damp when cleaning agent was added. ■ Make sure the dispenser is dry before adding powder cleaning agent.
	The dispenser flap was blocked by items in the cabinet. ■ Rearrange the load so that the flap can open.
The dispenser flap will not close.	Residual cleaning agent is blocking the catch. ■ Remove the cleaning agent.
DOS Refill	During a programme sequence a low level of liquid chemical agent in a container has been identified. ■ Replace the empty container with a full one.
Programme could not be started. Vent DOS	A programme cannot be started because ... ... there is air in the dispensing system. ... the dispensing system has been sucked completely dry. ■ 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	This is not a fault. The dispensing system will now be automatically vented. Wait until the venting process is finished.
Venting DOS cancelled. Venting must be repeated	Venting of the dispensing system was cancelled because an insufficient flow rate was identified. A dispensing hose may be kinked or the siphon blocked. ■ Check the dispensing hose for kinks and leaks. Position it so that it cannot become kinked. ■ Check the suction aperture of the siphon for blockages and remove these as necessary. ■ Start the venting process again.
	Contact the Miele Customer Service Department if there are leaks in the dispensing hose or a fault with the siphon.

Problem solving guide

Problem	Cause and remedy
Check container/lance DOS	Little or no flow has been identified. ■ Check the level in the supply container. Replace an empty container with a full one, if necessary. ■ Check the suction aperture of the siphon for deposits. ■ Vent the dispensing system.
	The dispensing hose is blocked. ■ Remove any kinks from the dispensing hose. Position it so that it cannot become kinked. ■ Check the dispensing hose for leaks. ■ Vent the dispensing system.
	Contact Miele Service if there are leaks in the dispensing hose or a fault with the siphon.

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.

Insufficient salt/Water softener

Problem	Cause and remedy
Refill salt	Salt is running low in the water softener. ■ 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. ■ 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. ■ 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. ■ Close the container properly.
	Salt residues are preventing it from closing. ■ 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. ⚠ When the door is opened, hot steam and chemical agents can escape! ■ Open the door and close the container flap.

Problem solving guide

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	A programme has been cancelled because water intake by the machine was insufficient or severely restricted. ■ Open the stopcocks fully. ■ Follow the additional information given in the Check water inlet message.
Fault 406–408	A programme was cancelled because the water flow rate is insufficient. ■ 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	A programme was cancelled because the water flow rate is too high. ■ 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	The float switch in the base of the machine has not been activated. The switch might be blocked. ■ 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.

Problem	Cause and remedy
Fault 492, 504	A programme has been cancelled because there is not enough spray pressure. The filters in the wash cabinet may be blocked. ⚠ Danger of injury from glass shards, needles, etc. retained in the filters. ■ Check and clean the filters in the wash cabinet (see "Maintenance/Cleaning the filters in the wash cabinet").
Fault 550	The waterproof system has been activated. One of the water supply hoses might have a leak. ■ Close the stopcocks. ■ Contact the Miele Customer Service Department.
Fault 578	The peak load cut-out has lasted longer than 3 hours. ■ 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	The PIN code entered is not the same as the code saved. ■ Enter the PIN code again. ■ Report the loss of the PIN code to the Miele Customer Service Department.
Programme cancelled	This is not a fault. A programme which was running was cancelled by the user. ⚠ 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.
Programme continued	This is not a fault. The process of cancelling a programme was not completed. The programme which was running continued without interruption.
Peak load cut-out	This is not a fault. Individual components of the machine are paused while there is a peak load signal from your energy management system.
All settings reset	This is not a fault. A user has restored factory default settings. ■ Confirm the message with *OK*.
All programme settings reset	This is not a fault. A user has restored the factory setting for the programme. ■ Confirm the message with *OK*.

Problem solving guide

Unsatisfactory cleaning and corrosion

Problem	Cause and remedy
There are white deposits on the wash load.	The water softener is set too low. ■ Set the water softener to the correct water hardness.
	There is no salt in the salt reservoir. ■ Refill the reactivation salt.
	The quality of the water for the final rinse was insufficient. ■ Use water with a low conductance value. ■ If the machine is connected to a water softening cartridge, check it and replace as necessary.
	The water from the AD water connection is not sufficiently softened. ■ Check the pre-selected water softening units. If necessary, replace the water softening cartridge with a new one.
The cleaning result is un-satisfactory.	Mobile units, baskets, modules and inserts were not suitable for the load. ■ Select mobile units, baskets, modules and inserts which are suitable for the task.
	Mobile units, baskets, inserts and modules were incorrectly loaded or overloaded. ■ Arrange the wash load correctly according to the information in the Operating instructions. ■ Avoid overloading the mobile units, baskets, modules and inserts.
	The programme was not suitable for the soiling. ■ Select a suitable programme. or ■ Adjust the parameters to suit the task.
	A spray arm is blocked. ■ Ensure the spray arms are not obstructed when arranging the wash load.
	Injector nozzles in the mobile units, baskets, modules or spray arms are blocked. ■ Check the nozzles and clean them as necessary.
	The filters in the wash cabinet are dirty. ■ Check the filters and clean them if necessary.
	Mobile units, baskets or modules were not correctly fitted to the water connection. ■ Check the adapter.

Problem	Cause and remedy
Items made of glass are showing signs of corrosion.	The items are not suitable for machine processing. ■ Only use items which are declared by their manufacturer as suitable for machine reprocessing.
	Neutralisation has not taken place during the programme. - Dispensing using the reservoir in the door ❋ (DOS 2): ■ Refill the reservoir with neutralising agent.
	- Dispensing from an external container: ■ Check the level in the supply container and vent the dispensing system if necessary.
	The wash temperature was too high. ■ Select a different programme. or ■ Reduce the wash temperature.
	Cleaning agents used were too alkaline. ■ Use a milder cleaning agent. or ■ Reduce the concentration of the cleaning agent.
Stainless steel items are showing signs of corrosion.	The stainless steel is of insufficient quality for machine processing. ■ Only use stainless steel items made of high-quality stainless steel and follow the instructions of the manufacturer regarding machine processing.
	The chloride content in the water is too high. ■ Have a water analysis check carried out. Connection to an external water processing unit and the use of demineralised water may be necessary.
	Neutralisation has not taken place during the programme. - Dispensing using the reservoir in the door ❋ (DOS 2): ■ Refill the reservoir with neutralising agent.
	- Dispensing from an external container: ■ Check the level in the supply container and vent the dispensing system if necessary.
	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. ■ Check the installation. ■ Discard any rusty items.

Problem solving guide

Water inlet and drainage

Problem	Cause and remedy
Check water inlet	One or more stopcocks are closed. ■ Open the stopcocks.
	There was insufficient water in the machine. ■ Clean the water intake filters. ■ Open the stopcocks fully.
	The supply pressure at the water connection is too low. ■ Refer to the specifications for supply pressure in the "Technical data". ■ Contact a suitably qualified installer.
Check drainage	A programme was cancelled because the water in the wash cabinet is only being pumped away slowly or not at all. - The drain hose is blocked. ■ Remove any kinks or large loops in the drain hose. ■ Start the programme again. - The filters in the wash cabinet are blocked. ■ Clean the filters in the wash cabinet. ⚠ Danger of injury from glass shards, needles, etc. retained in the filters. ■ Start the programme again. - The drain pump or the non-return valve is blocked. ■ 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. ■ Contact a suitably qualified plumber.

Noises

Problem	Cause and remedy
Knocking noise in the wash cabinet.	One or more spray arms are knocking against the wash load. ■ 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.	Items are insecure in the wash cabinet. ■ 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.	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. ■ 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").
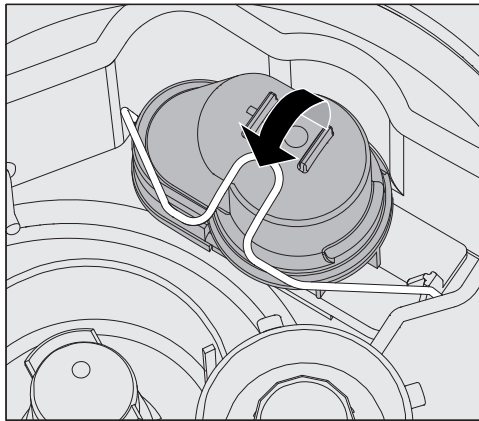
■ Lift the locking clamp.

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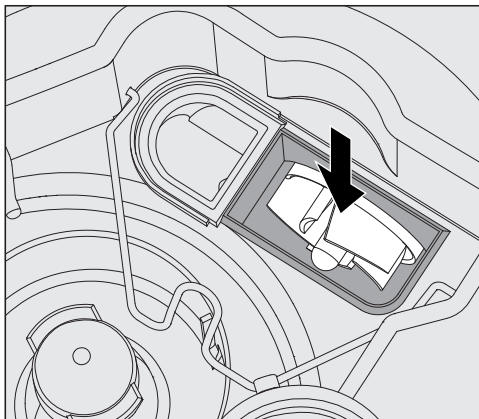
The drain pump impeller is situated under the non-return valve (see arrow).

■ 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.
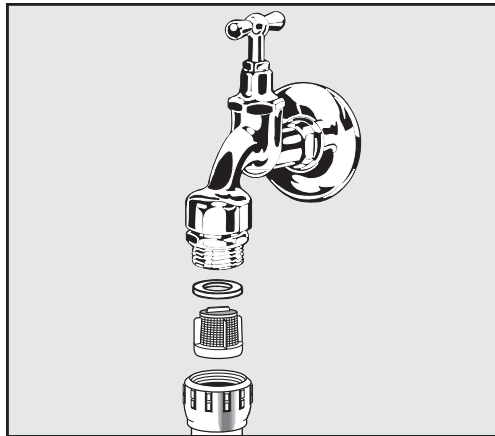
- Remove the seal from the screw thread.

- 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.

After sales service

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

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.

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.
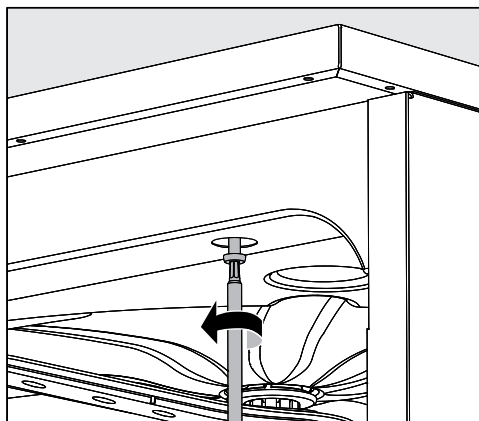
■ Unscrew the left and right fixing screws.

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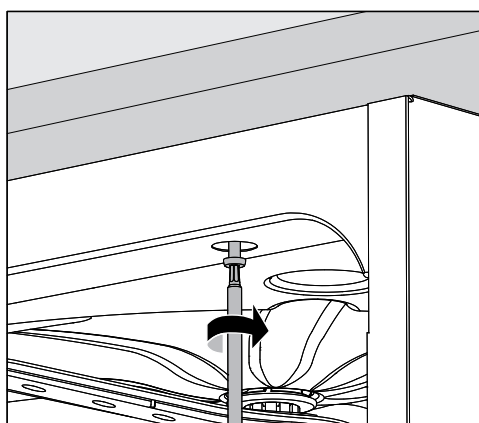
■ Screw the machine to the continuous worktop through the holes in the front trim on the left and right.

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.

Installation

Electromagnetic compatibility

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

The machine's HF emissions are very low and are therefore unlikely to interfere with other electronic appliances 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 or hospital environment and should deviate from the nominal voltage by a maximum of +/- 10 % (UK: -6/+10 %).

⚠ 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:

□ 1	□ 2	Short		∧	↰
		Temperature	70 °C		
□ 3	□ ❒	Peak load cut-out		∨	OK
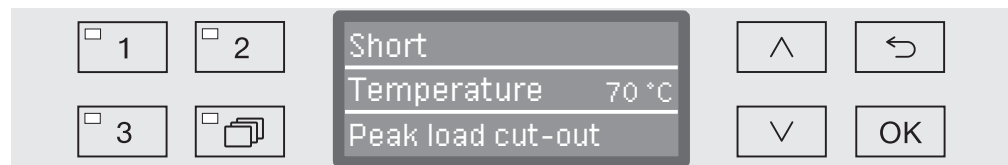
Connection to the water supply

> ⚠ 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.

- This machine is supplied as standard for connection to cold water (blue coded hose) **or** hot water up to max. 65 °C (UK: max. 60 °C) (red coded hose). Connect the inlet hose to the cold or hot water supply as required.

- 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 1,000 kPa pressure.

- If the water pressure does not fall into the stated range contact Miele Service for advice.

- More information on AD water connection can be found at the end of this section.

- Stopcocks with a ¾ 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 ¾ 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
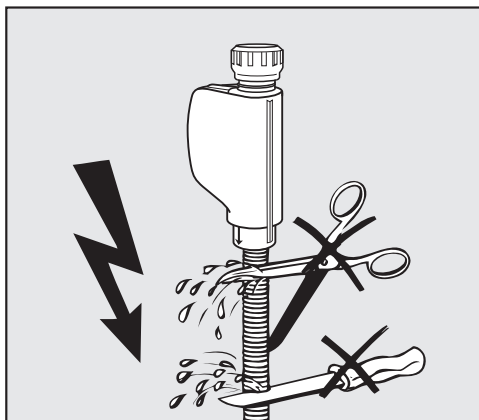
⚠ Do **not** shorten or otherwise damage the water inlet hoses supplied with the machine.

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 30-1,000 kPa (UK: 100-1,000 kPa) pressure - pressure-resistant (optional)

This machine can be optionally supplied for a pressurised system operating between 30-1,000 kPa (UK: 100-1,000 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 ¾ 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.

Plumbing

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.

Height with machine lid Height without machine lid	835 mm 820 mm
Width	598 mm
Depth Depth with door open	598 mm 1,200 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. 65 °C
	Max. 65 °C (UK: max. 60 °C)

Static water pressure	Max. 1,000 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 2,000 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	Application
(Free memory)	Programmable programme for special applications; programming by arrangement with the Miele Customer Service Department.
(Free memory)	Programmable programme for special applications; programming by arrangement with the Miele Customer Service Department.
Short	Short programme for very lightly soiled load items and low final rinse requirements: - To remove water-soluble soiling - Suitable to a limited extent for small amounts of organic soiling - Not suitable for denatured residues such as protein - Not suitable for inorganic, acid-soluble residues such as metallic salts
Medium	Programme for lightly soiled load items and moderate final rinse requirements: - To remove water-soluble soiling - Suitable to a limited extent for small amounts of organic soiling - Not suitable for denatured residues such as protein - Not suitable for inorganic, acid-soluble residues such as metallic salts
Long	Programme for lightly soiled to moderately soiled load items and moderate final rinse requirements: - To remove water-soluble soiling - To remove organic soiling - To remove denatured residues such as protein - Suitable to a limited extent for inorganic, acid-soluble residues such as metallic salts
Demineralised rinse	Programme for rinsing the wash cabinet and for rinsing load items with demineralised water (DI water).
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").

Programme chart

| Programme sequence | | | | | | | | | | |
| Pre-wash | | | Main wash | | Interim rinse | | | | Final rinse | |
1	2	3	1	2	1	2 *	3	4	1	2
			CW 60 °C DOS 1 3 Min			CW DOS 2 2 Min			DI 70 °C 1 Min	
			CW 65 °C DOS 1 3 Min		CW DOS 2 2 Min	CW 1 Min			DI 70 °C 1 Min	
CW 1 Min			CW 70 °C DOS 1 3 Min		CW DOS 2 2 Min	CW 1 Min			DI 70 °C 1 Min	
					DI					
					CW					

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 = Neutralising agent **or** Rinsing agent agent (door dispenser)

Programme chart

Programme selection depending on the accessories used

| Upper basket		Lower basket		Water volume	Programme		
Carrier with spray arm for various inserts	2 injector modules	Carrier for various inserts	2 injector modules		Short	Medium	Long
			✓		OK	OK	OK
✓		✓			OK	OK	OK
✓			✓	+ 1.5 l	OK	OK	OK
	✓	✓			OK	OK	OK
	✓		✓		Not permitted	Not permitted	Not permitted

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.
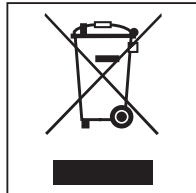
Instead, please make use of officially designated collection and disposal points to dispose of and recycle electrical and electronic appliances in your local community, with your dealer or with Miele, free of charge. By law, you are solely responsible for deleting any personal data from the old appliance 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.

Australia and New Zealand:
Please dispose of it at your local community waste collection / recycling centre for electrical and electronic appliances. You are also responsible for deleting any personal data that may be stored on the appliance prior to disposal. Please ensure that your old appliance poses no risk to children while being stored prior to disposal.

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