Miele

Operating instructions
Commercial Dishwasher
PG 8059

It is **essential** to read these operating instructions before installing and using the appliance. This will prevent both personal injury and damage to the machine.

Contents

Contents

Contents

Important warnings

⚠ Information which is important for safety is highlighted like this.
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

Notes contain information of particular importance that must be observed.
They are highlighted by a thick framed box.

Additional information and comments

Additional information and comments are highlighted in a box framed with a single black line.
They are not strictly required for operating the dishwasher.

Operating steps

Instructions on how to operate the dishwasher are described in specially marked operating steps. They explain the procedure step by step.
Each step is indicated by a black square bullet point.

Example:
■ Open the dishwasher door.

Display

Information given via the display appears in a special display font.

Example

Select Delay start and confirm your choice with the *OK* button.

Guide to the appliance

Overview
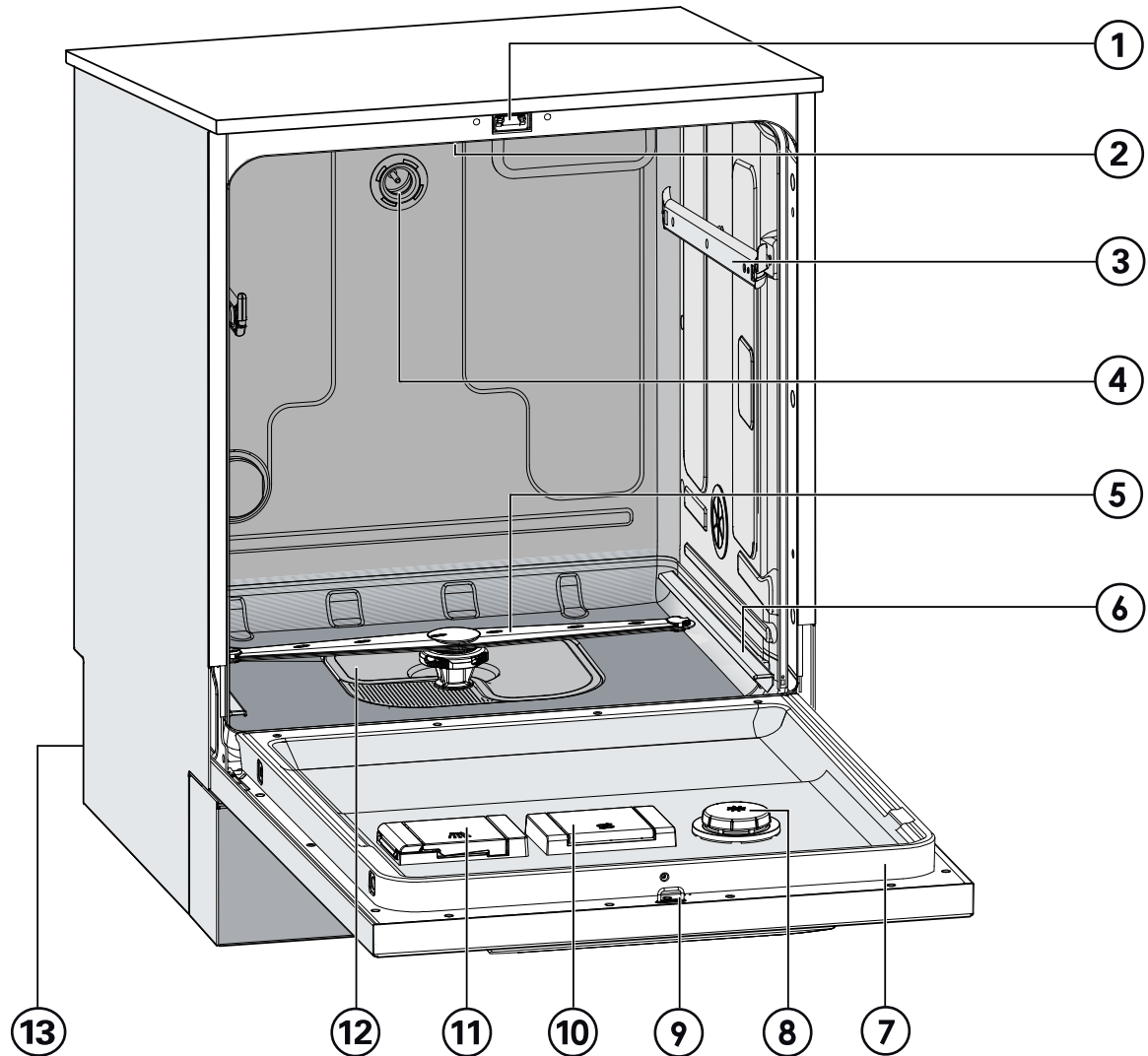
① Door lock

② Upper spray arm (not visible)

③ Upper basket runner

④ Connection for upper basket spray arm

⑤ Lower spray arm

⑥ Lower basket runner

⑦ Data plate

⑧ Rinsing agent reservoir

⑨ Door lock latch

⑩ Salt reservoir

⑪ Dispenser for powder detergent

⑫ Filter combination

⑬ Back:
Connection for DOS modules
External dispensing pump for liquid detergent (DOS1)
External dispensing pump for rinsing agent (DOS4)

Control panel
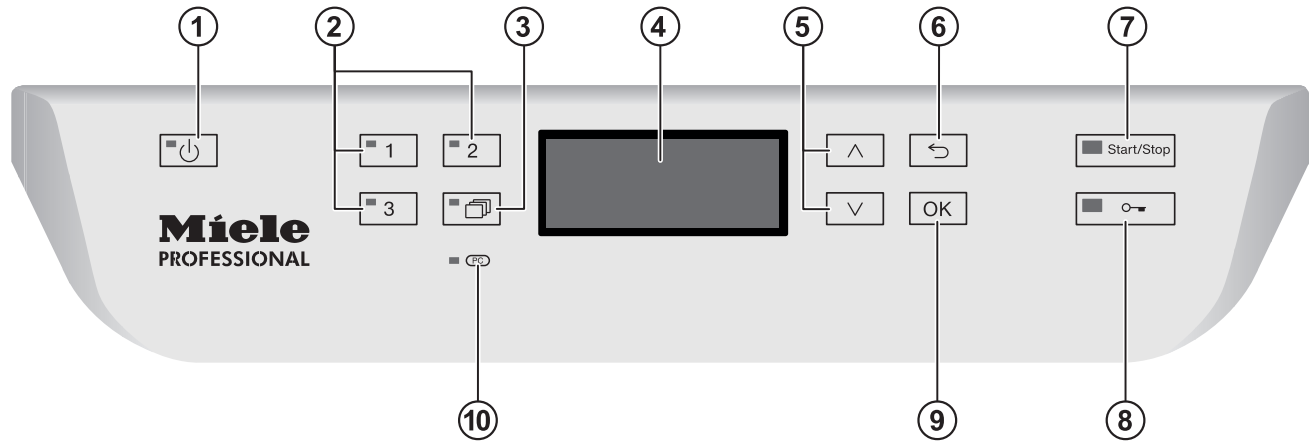
① ⏻ button (on/off)
Turns the commercial dishwasher on and off

② Buttons 1–3 (programme selection buttons)
Direct-access pushbuttons for storing favourite programmes

③ ▱ button (further programmes)
For selecting additional programmes

④ Display
User interface

⑤ ∧ and ∨ button (arrow buttons)
For navigating in the user interface

⑥ ↰ button (cancel or back)
For cancelling a process in the user interface
(not for cancelling programmes)

⑦ *Start/Stop* button
For starting or cancelling a programme

⑧ ⊶ button (door release)
Opening the door

⑨ *OK* button (confirmation)
For selecting options or confirming entries in the user interface

⑩ Service interface Ⓟ©
Testing and transmission point for the Miele Customer Service Department

Correct application

This commercial dishwasher complies with all current local and national safety requirements. However, inappropriate use can lead to personal injury and damage to property.

Read the operating instructions carefully before using the commercial dishwasher for the first time. They contain important information on the safety, use and maintenance of the machine. You will prevent the risk of accidents and damage to the commercial dishwasher. Keep these operating instructions in a safe place and pass them on to any future user.

▶ This dishwasher with its short programme running times and powerful cleaning performance is intended for commercial use in

- Guest houses
- Clubs
- Nursing homes
- and other similar commercial environments.

▶ This machine is designed exclusively for use as a "dishwasher" for cleaning loads as described in these instructions. Conversions, modifications and any other use are not permitted.

▶ This dishwasher is intended for stationary, indoor use only.

▶ The special inserts in the baskets should only be used for their specific application.

▶ This dishwasher may not be used to clean medical products or devices.

▶ This dishwasher can only be used by people with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, if they are supervised whilst using it or have been shown how to use it in a safe way and understand and recognise the consequences of incorrect operation.

Correct installation

▶ Do not install this dishwasher in an area where there is a risk of explosion or freezing conditions.

▶ To ensure the stability of built-under dishwashers, they must only be installed beneath a continuous worktop that is bolted to the adjacent cabinetry.

▶ In order to reduce the risk of damage from condensation, the furniture in the area around the dishwasher should be designed for commercial use.
Delicate furniture can be protected by installing the steam protection kit optional accessory. The vapour barrier film needs to be adhered to the underside of the worktop where the dishwasher door is opened.

Technical safety

▶ This dishwasher must only be installed, commissioned, repaired and maintained by Miele Professional Service or a suitably qualified service technician. Unauthorised installation, maintenance and repairs can pose a considerable risk to the user.

▶ In the case of commercial dishwashers, they must only be operated by appropriately trained personnel. They must be instructed and trained regularly.

▶ Before using the dishwasher, check it for any externally visible damage. Under no circumstances should you use a damaged appliance. A damaged appliance could be dangerous.

▶ In the event of a damaged or leaking dishwasher, switch off at the power supply immediately and call Miele Professional Service.

▶ Faulty components must only be replaced by genuine Miele original spare parts. Only when these parts are fitted can Miele guarantee the safety standards of the appliance.

▶ The electrical safety of this dishwasher can only be guaranteed when continuity is complete between it and an effective earthing system. If in any doubt, please have the electrical installation tested by a qualified electrician.

▶ Please follow the advice on installation in these instructions and the separate Installation diagram.

▶ Before connecting the dishwasher, ensure that the connection data on the data plate (voltage, frequency and fuse rating) match the mains electrical supply.

▶ There must be no electrical sockets behind the dishwasher. There is a danger of overheating and risk of fire if the dishwasher were to be pushed up against a plug. See "Electrical connection".

Warning and Safety instructions

▶ Do not connect the dishwasher to the mains electricity supply by a multi-socket unit or an extension lead. These do not guarantee the required safety of the appliance (e.g. danger of overheating).

▶ Never open the casing of the appliance. Tampering with electrical connections or components and mechanical parts is highly dangerous to the user and can cause operational faults.

▶ The dishwasher must not be used if the electrical connection cable is damaged. A damaged connection cable may only be replaced by a suitable connection cable of the same type. For safety reasons, such replacement may only be carried out by Miele Professional Service or a Miele authorised technician.

▶ This dishwasher must be disconnected from the mains electricity supply before any maintenance or repair work is carried out.

▶ The plastic housing of the water connection contains two electrical components. It must not be dipped in water.

▶ There are electrical wires in the water inlet hose. Do not cut the hose, even if it is too long.

▶ The integrated water protection system offers protection from water damage, provided the following conditions are met:
- Installation has been carried out correctly.
- The dishwasher is properly maintained and parts are replaced where it can be seen that this is necessary.
- The taps have been turned off during longer periods of inactivity (e.g. whilst on holiday).

The Waterproof system will work even when the dishwasher is switched off. However, the dishwasher must remain connected to the electricity supply.

▶ Only use new hose sets supplied with the appliance. Old hose sets should not be used.

▶ In areas which may be subject to infestation by cockroaches or other vermin, pay particular attention to keeping the appliance and its surroundings in a clean condition at all times. Any damage which may be caused by cockroaches or other vermin will not be covered by the warranty.

Correct use

▶ This dishwasher is designed for operation with water and cleaning agents suitable for use in commercial dishwashers 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 dishwasher and cause liquids to leak out of it.

▶ Only use cleaning agents which are suitable for use in a dishwasher. Unsuitable cleaning agents could adversely affect components of the dishwasher or the items being cleaned.

▶ Do not sit, stand or lean on the opened door. The dishwasher may tip or be damaged.

▶ After any plumbing work, the water pipework to the dishwasher will need to be vented. If this is not done, components can be damaged.

▶ Please be aware that the dishwasher may be operating at high temperatures. When the door is opened there is a danger of burning or scalding. Items, baskets and inserts 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.

▶ The water in the wash cabinet must not be used as drinking water.

▶ Pre-treating items (for example with washing-up liquid and other cleaning agents) as well as some types of soiling and some cleaning agents can cause a build-up of foam in the wash cabinet. Foam can have an adverse effect on the cleaning result.

▶ Foam escaping from the wash cabinet can cause damage to the dishwasher. If foam escapes, the programme must be cancelled immediately and the machine must be disconnected from the mains electrical supply.

▶ When using cleaning agents and specialised products, it is essential that the manufacturer's instructions are followed. Cleaning agents must only be used for the purpose they are designed for by the manufacturer to avoid any material damage or the occurrence of strong chemical reactions (e.g. oxyhydrogen explosion).

▶ Do not inhale or ingest powder cleaning agent. Do not swallow dishwasher cleaning agents. They can cause burning in the nose, mouth and throat. Seek medical attention immediately if cleaning agent has been swallowed or inhaled.

▶ Miele cannot be held liable for any effect chemical cleaning agents may have on the material of the items being cleaned. Observe the cleaning agent manufacturer's instructions with regard to storage conditions, use and dosage.

Warning and Safety instructions

▶ To avoid material damage and corrosion, do not allow any acids or solutions containing chloride to get into the wash cabinet or onto the casing. Similarly avoid any ferrous materials with a corrosive effect.

▶ Do not wash items soiled with ash, sand, wax, lubricating grease or paint in the dishwasher. These materials will cause damage to the dishwasher.

▶ Do not hose the dishwasher or near vicinity down to clean it, e.g. with a hose or a pressure washer.

▶ Ensure that the stainless steel outer casing of the appliance does not come into contact with solutions or steam containing acid to avoid any corrosion damage.

▶ Be careful when sorting items with sharp pointed ends and positioning them in the dishwasher that you do not hurt yourself or create a danger for others. Knives and other utensils with sharp points must be loaded with the pointed end facing downwards or placed in a horizontal position.

▶ Remove any coarse food deposits and empty out any containers or utensils before loading them in the dishwasher.

Safety with children

▶ Children should be supervised in the vicinity of the dishwasher. Do not let children play with the dishwasher. There is a danger that children might shut themselves in the dishwasher.

▶ Children must not be allowed to operate this dishwasher.

▶ Keep children away from chemical agents. These contain irritant and corrosive ingredients which can cause burning in the mouth and throat, or inhibit breathing. Keep children away from the dishwasher when the door is open. There could still be residual process chemicals in the cabinet. Seek medical advice immediately if a child has swallowed or inhaled chemical agents.

Accessories

▶ Only use genuine Miele original spare parts and accessories with this dishwasher suitable for the application they are required for. Consult Miele for details on the type of accessories that can be used.

▶ Only use Miele baskets and inserts. Using baskets and inserts made by other manufacturers, or making modifications to Miele accessories can cause unsatisfactory cleaning results. Any resultant damage would not be covered by the guarantee.

Symbols used
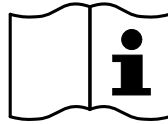
Warning:
Observe the operating instructions!

Warning:
Danger of electric shock!

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

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

Disposal of your old dishwasher

▶ For safety and environmental reasons, dispose of all process chemicals according to the manufacturer's instructions and safety regulations. Safety goggles and protective gloves should be worn.

▶ Remove or disable the door lock prior to disposal of the dishwasher, so that children cannot become trapped inside. Ensure a safe removal and proper disposal of the appliance (see "Caring for the environment").

Miele cannot be held liable for damage caused by non-compliance with these Warning and Safety instructions.

Caring for the environment

Disposal of the packing material

The transport and protective packaging has been selected from materials which are environmentally friendly for disposal, and can normally 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. Ensure that any plastic wrappings, bags etc. are disposed of safely and kept out of the reach of babies and young children. Danger of suffocation.

Disposing of your old appliance

Electrical and electronic appliances often contain valuable materials. They also contain specific materials, compounds and components, which were essential for their correct function and safety. These could be hazardous to human health and to the environment if disposed of with your domestic waste or if handled incorrectly. Please do not, therefore, dispose of your old appliance with your household waste.
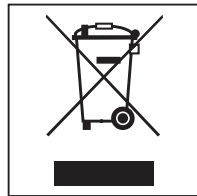
Please dispose of it at your local community waste collection / recycling centre for electrical and electronic appliances. You are also responsible for deleting any personal data that may be stored on the appliance prior to disposal. Please ensure that your old appliance poses no risk to children while being stored prior to disposal.

User groups

Users can be divided into two groups:

- Daily operators

- Experienced operators

Access to the "Further settings" can be blocked to general operators by using a code (see "Further settings, Code").

Daily operators Operators must be instructed in operating and loading the dishwasher and trained regularly to guarantee safe daily use.

Experienced operators Experienced operators can additionally block access to programmes, modify temperature and holding times within programme cycles and alter water levels.

Operation tips

Display functions

The display is not a touch screen.

The display is used to select or set the following:

- the programme
- the Delay start time
- settings

During a programme, the display shows the following:

- the programme name
- the programme stage / target temperature / actual temperature
- the estimated time left for the programme to run
- any relevant fault messages and information

Menu operation   The dishwasher is operated exclusively via the buttons on the control panel. The buttons are arranged to the side of the display on the stainless steel control panel. They are operated by pressing gently.

Menu operation is via the keypad to the right of the display.

- ∧ button
  For navigating upwards by row within a menu, or increasing the value highlighted.

- ↩ button Cancel or back
  For ending a menu early. Any changes to settings are not saved. The display reverts to the previous menu.

- ∨ button
  For navigating downwards by row within a menu, or decreasing the value highlighted.

- *OK*
  For confirming a selection or for saving input. The display moves to the next menu or, when entering values, to the next input position. The procedure for entering values is described in the respective chapter.

Menus

The user interface of the commercial dishwasher is divided into menus. The menus are displayed in a 3-line display on the control panel.

Example:

```
Language ⚑
deutsch ✓          ▲
english (GB)       ▼
```

The name of the menu and a maximum of two options are shown. The currently selected option is highlighted.

Simple selection

```
Delay start
No    ✓
Yes
```

Use the ∧ and ∨ arrow buttons to navigate through the menu. The highlighted option is selected by pressing the *OK* button. Once selected, the option will have a tick ✓ beside it. Other options are automatically deselected.

Press the *OK* button to progress to the next menu or to the next input position when entering values. The procedure for entering values is described in the respective chapter. Press the ↰ button to revert to the previous menu without saving the entry.

Multiple selection

```
Release programme
☑ Short            ▲
☑ Universal        ▼
```
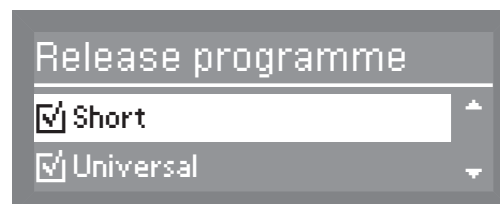
Use the ∧ and ∨ arrow buttons to navigate through the menu. Several options can be selected in succession within the menu using the *OK* button. Once selected, an option will have a tick ☑ beside it. To save your selection, select Accept and confirm with the *OK* button.

Operation tips

System messages
The **i** symbol denotes system messages. These give information about current processes and the status of the dishwasher. System messages are displayed individually at the end of the programme. If there are a number of system messages, subsequent messages can be displayed by pressing *OK*. A system message can be recalled by pressing *OK* during a programme cycle.

Example:
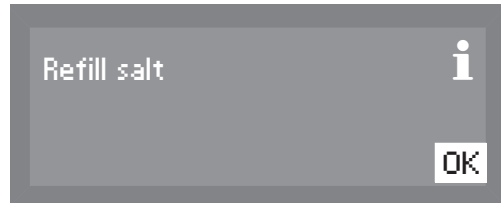
Automatic switch-off

The dishwasher has an automatic switch-off function. The dishwasher switches itself off automatically after the time set. The display and all other LEDs are switched off. To switch the dishwasher back on press the On/Off ⏻ button.

The automatic switch-off function can be deactivated (see "Further settings, Switch off after"). The display will then remain switched on in standby mode.

Symbols in 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. The arrow buttons ∧ and ∨ can be used to scroll through the options.

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 ✓.

Example:

```
Delay start

No   ✓
Yes
```

Drying ♨
If drying support has been activated, the drying symbol will be displayed to the right of the programme name.

Example:

```
Universal              ♨
Temperature       55 °C
Duration          23 Min
```

System messages **i**
The **i** symbol denotes system messages and is displayed alternately with the ♨ symbol. If OK appears in the bottom right of the display, the system message must be confirmed using the *OK* button. If OK does not appear in the display, after a few seconds the display skips to the next level up.

Fault messages ⚠
In the event of a fault a warning triangle is shown in place of the **i** symbol. See "Problem solving guide" for more information.

Commissioning

During commissioning, the following settings must be carried out. You will automatically be asked to programme settings one after the other. Currently selected values will have a tick ✓ beside them. The commissioning process follows a set procedure which cannot be interrupted.

The commercial dishwasher will guide you automatically through the steps required.

Reactivation is carried out during the first programme following commissioning.

If the first programme after commissioning is not completed and the dishwasher is then switched off, the commissioning process must be carried out again.

The following options (with the exception of "Plumbing connections") can be altered retrospectively via the Settings ⚑ menu and Further settings.

Switching on

The dishwasher must be connected to the mains electricity supply.

■ Press the ⏻ button until the LED lights up.

Setting the language

The commissioning process starts automatically with setting the language. You are requested to set the display language.

■ Use the ∧ and ∨ arrow buttons to select the language you want and confirm your choice using the *OK* button.

Setting the temperature unit

The display will change to the screen for setting the temperature unit.

> Temperature unit
> °C ✓
> °F
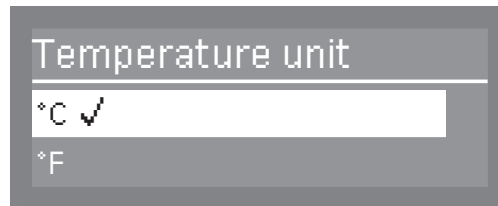
∎ Use the ∧ and ∨ arrow buttons to select the temperature unit you want and confirm your choice using the *OK* button.

Setting the date format

The display will change to the screen for setting the date format.

> Date format
> DD:MM:YY ✓
> MM:DD:YY
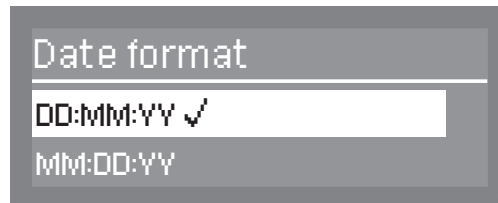
∎ Use the ∧ and ∨ arrow buttons to select the date format you want and confirm your choice with the *OK* button.

Setting the date

The display will change to the screen for setting the date.

> Date
> **12** . 07 . 2013

∎ Use the arrow buttons ∧ and ∨ to set the day, month and year and confirm each entry with the *OK* button.

Setting the clock format

The display will change to the screen for setting the clock format.

> Clock format
> 12 h
> 24 h ✓
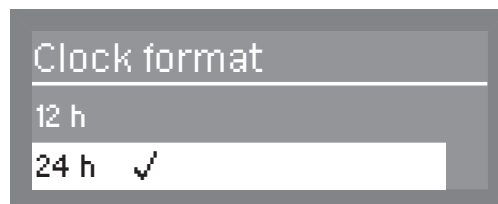
∎ Use the ∧ and ∨ arrow buttons to select the clock format you want and confirm your choice using the *OK* button.

Commissioning

Setting the time of day

The display will change to the screen for setting the time of day.

```
┌─────────────────────────────┐
│        Time of day          │
│       ───────────           │
│        12 : 00              │
│                             │
└─────────────────────────────┘
```

■ Use the ∧ and ∨ arrow buttons to set the hours and minutes and confirm each entry using the *OK* button.

If you have selected 12 h for the clock, "am" (in the morning) or "pm" (in the afternoon) will appear beside the time.

Setting the water hardness level

The display will change to the screen for setting the water hardness.

The dishwasher must be programmed to the correct water hardness in your area.

■ Your local water authority will be able to advise you of the water hardness level in your area.

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

In the event of a fault, it will help the service technician if you know the hardness of your local water supply.

■ Enter the water hardness below:

_____ °dH

The water hardness factory setting is programmed at 19 dH (3.4 mmol/l).
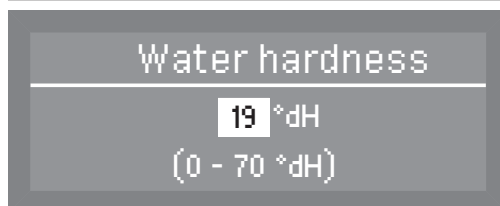
```
┌─────────────────────────────┐
│       Water hardness        │
│       ───────────           │
│        19 °dH               │
│        (0 - 70 °dH)         │
└─────────────────────────────┘
```

■ Use the ∧ and ∨ arrow buttons to set the water hardness required and confirm your entry with the *OK* button.

See "Filling the salt reservoir" for more information about setting the water hardness level.

Plumbing connections	The display will then change to the screen for setting the plumbing connection.

This setting can be switched off if the dishwasher cannot be connected to all available plumbing connections.

> If individual plumbing connections are switched off, they can only be reactivated by Miele Professional Service.

Plumbing connections
Accept
☑ Cold water

■ Use the ∧ and ∨ arrow buttons to select the plumbing connections which are not connected and confirm your choice with the *OK* button.

> The tick ✔ will be removed from the box ☐ and the plumbing connection is now switched off.

■ Select Accept to save your selection and confirm with the *OK* button.

Commissioning completed

Commissioning is successfully completed and the following message will appear in the display.

Set-up successful   i

OK
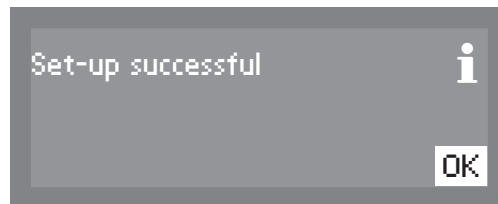
■ Press the *OK* button.

The dishwasher is now ready for use.

Míele
PROFESSIONAL
PG 8059

The start screen is displayed for 3 seconds.
Then the first shortcut button programme will appear in the display.

Opening and closing the door

Comfort door lock

The dishwasher is equipped with a Comfort door locking mechanism. This door locking mechanism helps drying by opening the door by a few centimetres at the end of the programme (except Super short, Reactivation, ColdDrain). This function can be deactivated (see "Settings ⚑, Drying").

Opening the door ○┯

> The door can only be opened if the dishwasher is connected to the electricity supply and is switched on (the LED in the ⏻ button is lit up).

The control panel also serves as a door handle.

■ Press the ○┯ button to open the door. The LED in the button goes out as soon as the door is unlocked.

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

> Pressing the ○┯ button during operation can interrupt the programme (see "Operation, Interrupting a programme").

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

Closing the door

■ Push the baskets right in.

■ Raise the door upwards and push it gently until the catch audibly engages. The door will be drawn automatically into its final closed position by the closing mechanism.

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

If the door cannot be closed properly by the mechanism because it is obstructed by crockery or similar, the Door blocked message or F 433 will appear in the display (see "Problem solving guide") and the mechanism will open the door.

■ Remove the obstruction from the vicinity of the door.

If too much force is used when closing the door, the Comfort door locking mechanism will reopen the door.

The dishwasher can only be guaranteed as waterproof if the automatic closing mechanism has drawn the door into the final closed position.

Opening and closing the door

Opening the door using the emergency release

⚠ The emergency release may only be used when it is no longer possible to open the door normally.

⚠ If the emergency release is operated during a programme cycle, hot water can escape.
Danger of scalding and burning!

The emergency release mechanism is located on the right beside the door lock between the door and the lid of the machine (or the worktop, with built-under machines).

The emergency release is operated using the tool supplied in the accessory pack with the operating instructions.
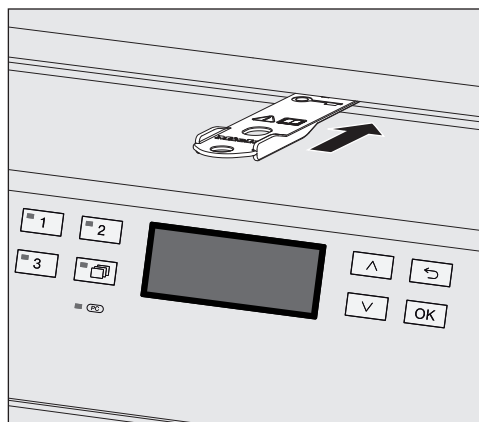
■ Insert the tool for the emergency release into the gap between the lid and the door to the right of the lock. The right-hand edge of the tool should be aligned with the right-hand edge of the display.

■ Push the slider for the emergency release backwards with the tool until the door opens slightly.

If you push against the door of the dishwasher at the same time, less force will be needed to operate the emergency release.

When the door has been opened using the emergency release, the following message will appear in the display:

Emergency release –
Door opened   i
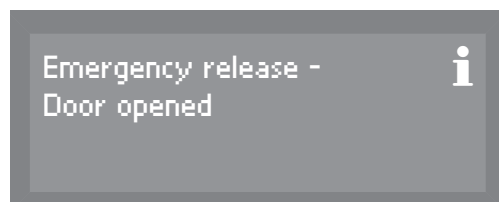
The message is confirmed when the door has been released from the closing mechanism. The last programme used will then appear in the display.

Reactivation

In order to achieve good cleaning results, the dishwasher needs to operate with soft mains water. Hard water results in the build-up of calcium deposits on crockery and on the inner surfaces of the dishwasher.

Mains water with a water hardness of more than 0.7 mmol/l (4 °dH) must be softened. This occurs automatically in the integrated water softener.
The water softener must be set to the exact hardness of the mains water.

Your local water authority can give you information about the exact water hardness in your area.
In the event of a fault, it will help the service technician if you know the hardness of your local water supply. Therefore please enter the hardness level of your tap water here:

_____mmol/l or _____ °dH.

The water softener must also be reactivated at regular intervals. Special reactivation salt is required for this.

⚠ Do not fill the salt reservoir with powder or liquid dishwasher detergent.
Dishwasher detergent will damage the water softener.

Only use special coarse grained dishwasher salt for reactivation, or pure evaporated salt.
Suitable products are available from Miele Professional.
Other salts may contain insoluble additives which can impair the functioning of the water softener.

If the hardness of your water is constantly less than 0.7 mmol/l (= 4 °dH), no salt is required for the water softener. However, the water hardness level must still be set.

Setting the water hardness level

The water softener can be set between 0 - 12.6 mmol/l (0 - 70 °dH).

■ Select the Further settings menu.

■ Select Water hardness and confirm your choice with the *OK* button.

```
        Water hardness
             19 °dH
          (0 - 70 °dH)
```
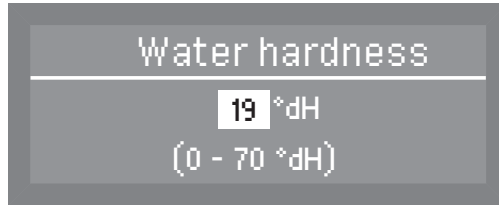
The factory setting for the water softener is set to a water hardness of 3.4 mmol/l (19 °dH).
When adjusting the setting, please consult the following table.

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

■ Use the ∧ and ∨ arrow buttons to set the water hardness required and confirm your entry with the *OK* button.

Settings table

°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 setting

Filling the salt reservoir

Add salt reminder

■ Fill the salt reservoir with dishwasher salt for reactivation as soon as the reminder appears in the display (if it appears during a programme, wait until the end of the programme).

■ Confirm the message shown with the *OK* button.

If salt is not added, the **i** symbol indicating a lack of salt will appear beside the programme name on the right.
The refill reminder will be displayed again at the end of every subsequent programme.

Refill reminders can be displayed during the programme cycle by pressing the *OK* button.

If there are no further refill reminders, the **i** symbol in the display will go out after a few seconds when the salt has been refilled.

> The salt refill reminder is deactivated if the dishwasher is set to a water hardness of 0 - 0.7 mmol/l (0 - 4 °dH).

Machine lock-out in case of lack of salt

If the refill salt reminder is ignored for several programme cycles and the salt is not refilled, the dishwasher will lock itself against further use until it is refilled.

The following message will appear in the display shortly before this happens:

```
Machine locking out.       i
Insufficient salt.

                          OK
```
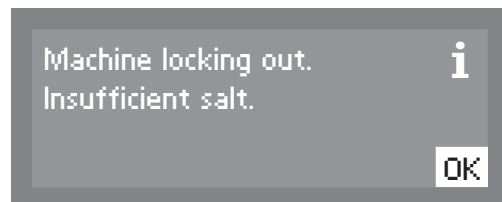
Only a few more programme cycles are possible, depending on the programme selected and water hardness level set.

The dishwasher is locked against operation if further programme cycles are run without salt being refilled.

```
Salt container empty.      i
Programme locked.

                          OK
```
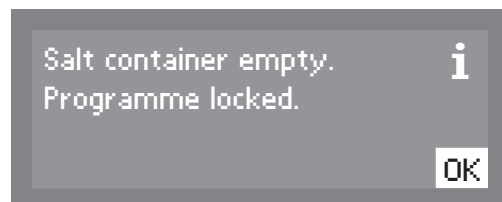
> When reactivation salt is added, the machine will unlock itself after a few seconds.

Filling the salt reservoir
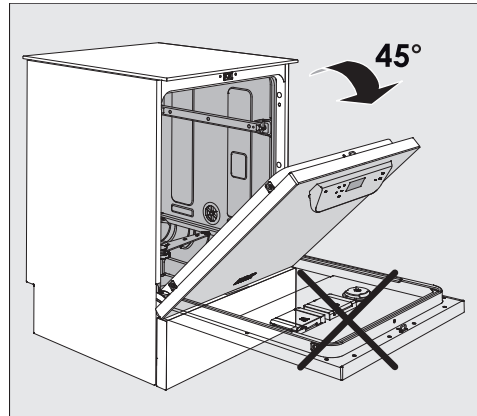
■ When filling the salt reservoir, **only open the door halfway** to ensure that all the salt gets into the reservoir.
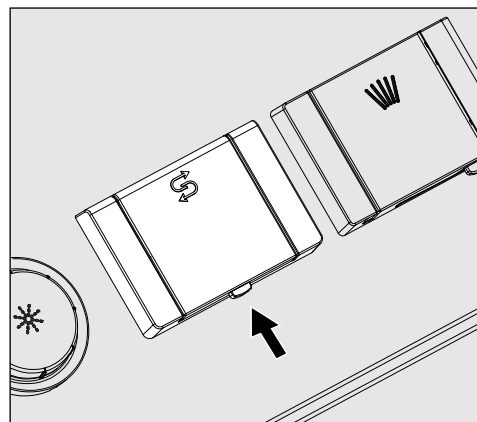
■ Press the button on the lid of the salt reservoir in the direction of the arrow. The flap will spring open.

■ Lift up the funnel.

Do **not** fill the reservoir with water.
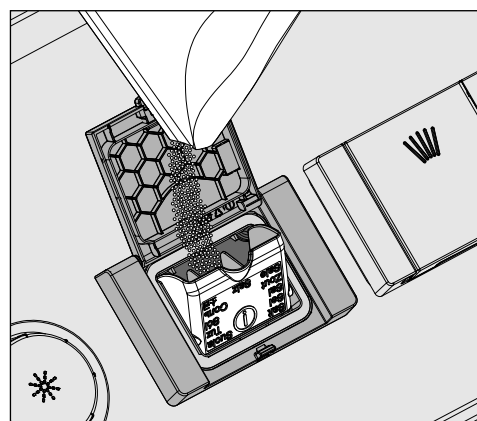
■ Add salt only until the funnel of the salt reservoir is full but still closes easily. The salt reservoir will take approx. 2 kg of salt on the first fill depending on the degree of coarseness.
Subsequent refills may take less salt, as there may still be salt remaining in the reservoir.

Filling the salt reservoir

Do not add more than 2 kg of salt.

As the salt reservoir is being filled, displaced water may run out.

■ Clean any excess salt from around the reservoir opening and the seal around it, and then close the flap.

■ To avoid corrsion in the wash cabinet, run the Cold programme (without any crockery in the dishwasher) immediately after refilling the salt reservoir. This will dilute and rinse away any remaining traces of salt.

Rinsing agent

Rinsing agent is necessary to ensure water does not cling to and leave marks on crockery during the drying phase and helps crockery dry faster after it has been washed.
Rinsing agent can be poured into the reservoir in the door or be dispensed via an external dispensing DOS module. (Optional accessory - see "DOS module")

> ⚠ Filling the rinsing agent reservoir with powder or liquid detergent accidentally will seriously damage the reservoir. Only fill the reservoir with rinsing agent!

> Suitable products are available from Miele Professional.

> Conversion to the external DOS module must be carried out only by Miele Professional Service.

> In the Beer glasses programme the final rinse is carried out with cold water and without rinsing agent.

Add rinsing agent reminder

■ Refill rinsing agent at the end of a programme as soon as the message appears in the display.

```
Refill rinsing agent          i


                            OK
```

■ Confirm the message shown with the *OK* button.
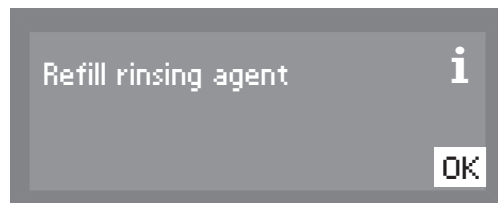
```
Universal                     i
Temperature            55 °C
Duration              23 Min
```
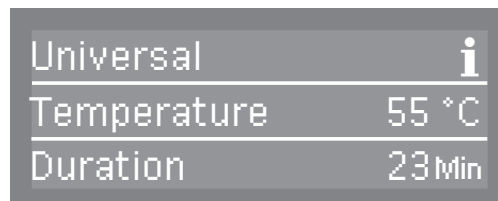
If rinsing agent is not added, the **i** symbol indicating a lack of rinsing agent will appear beside the programme name on the right.

The refill reminder will be displayed again at the end of every subsequent programme.

Refill reminders can be displayed during the programme cycle by pressing the *OK* button.

If there are no further refill reminders, the **i** symbol in the display will go out a few seconds after the rinsing agent has been refilled.

Adding rinsing agent

■ Open the door **fully**.
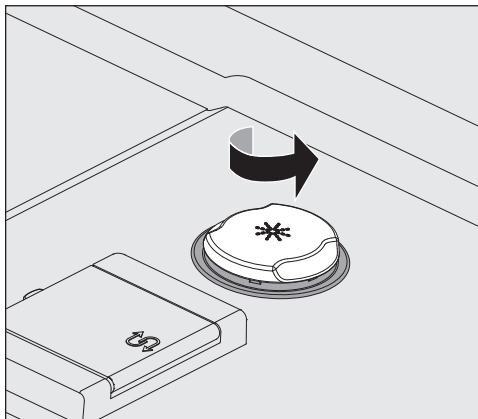
■ Unscrew the lid of the rinsing agent reservoir.
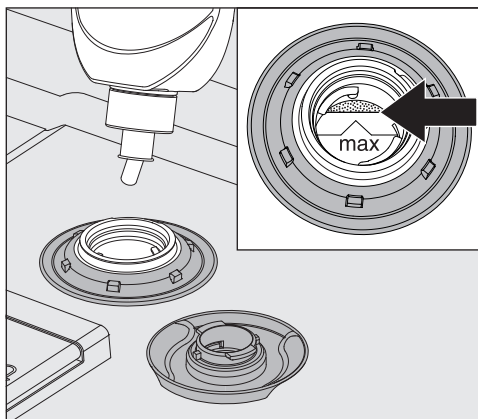
■ Add the rinsing agent until it reaches the maximum mark on the edge of the reservoir.

The rinsing agent reservoir holds approx. 300 ml.

■ Screw the lid of the rinsing agent reservoir back on securely so that water cannot get into the reservoir during the wash cycle.

■ Run the "Cold" programme to rinse away any spilled rinsing agent. This prevents over-foaming occurring during the next programme.

You can adjust the dosage for best results (see "Further settings, Additional functions").

Preparing the load

Remove coarse food residues from crockery.

There is no need to rinse items under running water.

Notes

> ⚠ Ensure that no acid or solvent residues, especially hydrochloric acid or chlorides, get inside the wash cabinet.

> ⚠ Do not wash items soiled with ash, sand, wax, lubricating grease or paint in the dishwasher.
> These substances will damage the dishwasher.

Crockery and cutlery can be loaded into the appropriate places in the baskets. The following notes should be observed:

■ Load the crockery so that water can access all surfaces. This ensures that it gets properly cleaned.

■ Load plates symmetrically in the upper and lower baskets with the concave surface towards the centre of the basket (as shown on the following pages).

■ Do not place crockery and cutlery inside other pieces where they may be concealed.

■ Make sure that all items are securely positioned.

■ Hollow items such as cups, glasses, pans etc. must be inverted in the basket.

■ Tall, narrow, hollow items should be placed in the centre of the baskets if possible. This ensures better water coverage.

■ Wide based items should be placed at an angle so that water can run off them freely.

■ The spray arms must not be blocked by items which are too tall or hang through the baskets. If in doubt, test for free movement by manually rotating the spray arms.

■ Small items can fall through the holders in the baskets. They should therefore be placed in the cutlery basket.

Guide to the appliance

Items not suitable for dishwashers
- Wooden cutlery and crockery or items with wooden parts, as these may discolour or fade. The glue used in these items is not dishwasher-proof. Wooden parts may come loose after being washed in a dishwasher.

- Craft items, antiques, valuable vases and decorative glassware are not dishwasher safe.

- Plastic items which are not heat resistant, as the high temperatures in the dishwasher may cause them to melt or lose shape.

- Copper, brass, tin and aluminium items: these may discolour or become matt.

- Colours painted over a glaze: these may fade after a number of washes.

- Delicate glassware and glassware containing lead crystal, as clouding may occur over time.

We recommend
- When purchasing new crockery and cutlery, make sure they are dishwasher safe.

- Clouding may occur on glasses after frequent washing. When washing delicate glassware in the dishwasher, ensure that only a special glass-care programme with very low temperatures (see Programme chart) is selected and that a suitable cleaning agent is used. This will reduce the risk of clouding.

Please note

Silver and aluminium which has been in contact with foods containing sulphur can discolour.

⚠ Aluminium components (e.g. grease filters) must not be cleaned with caustic alkaline commercial or industrial cleaning agents.
These may damage the material. In extreme cases, they can cause a severe chemical reaction (such as an explosive oxyhydrogen gas reaction).

Upper basket

Use the upper basket for small, lightweight and delicate items such as cups, saucers, glasses, dessert bowls etc. Light, heat-resistant plastic items can also be loaded in the upper basket.
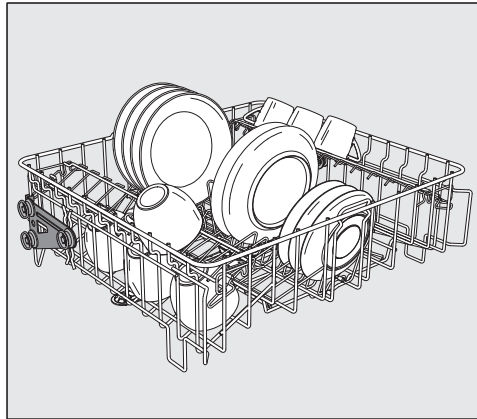
O 891 upper basket

With insert E 810 for e.g. 20 cups, 33 saucers or 17 dessert plates.

Cup rack
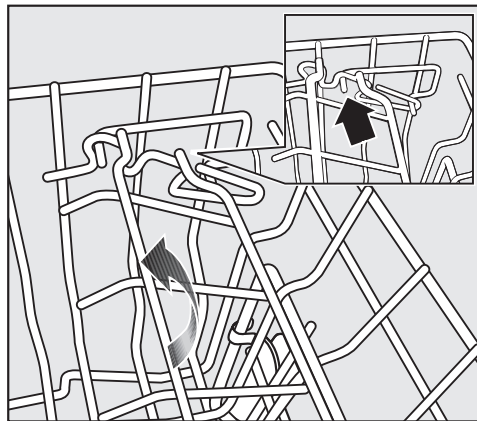
The cup rack can be set at two different widths so that it can also accommodate large cups.

■ Pull the cup rack upwards and click it back into position at the required width.

Adjusting the upper basket

In order to gain more space for taller pieces of crockery in the lower or upper basket, the upper basket can be adjusted between two positions with approx. 5 cm between each position.

∎ Pull out the upper basket.
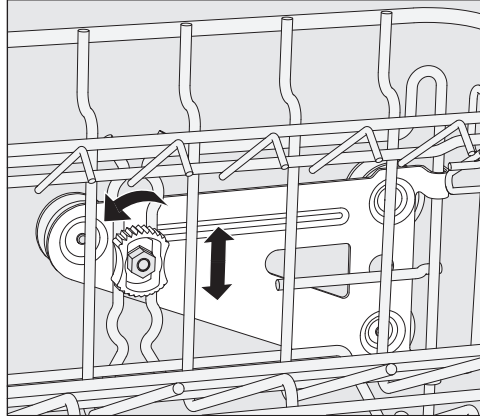
∎ Unscrew the fixing nuts on both sides.

∎ Lift or lower the basket into the desired position.

∎ Tighten the fixing nuts again.

⚠ The upper basket must be level in both positions.
If it is at an angle, this will obstruct the water connection.

⚠ When changing the height of the upper basket, always adjust the water connection accordingly before pushing the upper basket back in.
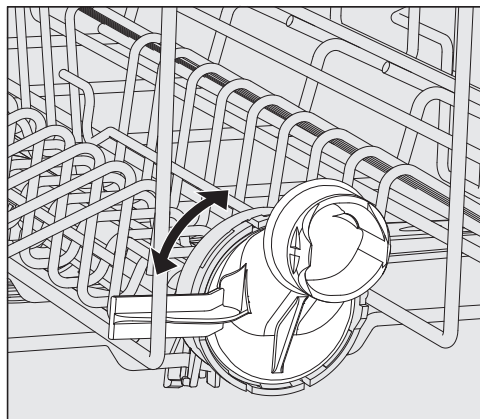
∎ Turn the upper basket water connection to the upper or lower position.
The water connection must click audibly into place.

Depending on the setting of the upper basket, the following plate dimensions can be accommodated:

Example upper basket O 891:

Upper basket in position	Upper basket plate Ø	Lower basket plate Ø
Upper	max. 15 cm	33 cm *
Lower	max. 20 cm	25 cm

* Plate insert E 812 is required in the lower basket

Lower basket

Place larger and heavier items such as plates, serving platters, saucepans, bowls etc. in the lower basket.
Only place thin, delicate glassware in the lower basket using a suitable insert or basket.
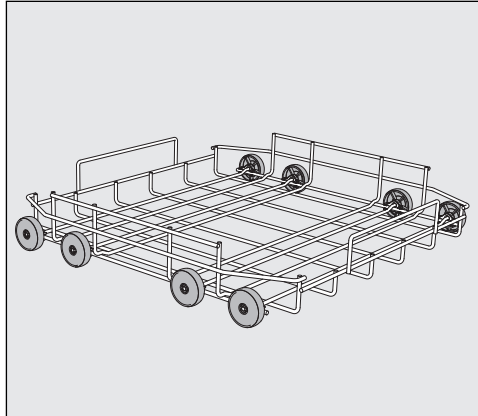
U 890 lower basket carrier

For plastic trays, various inserts and cutlery inserts.
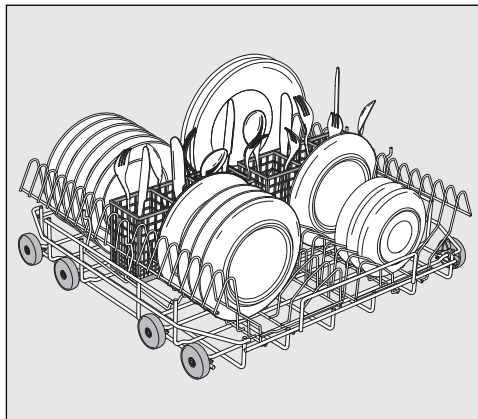
U 890 lower basket carrier with 2 x E 816 inserts and 2 x E 165 cutlery inserts

16 plates each with Ø 25 cm and various items of cutlery can be loaded. Without cutlery inserts, 19 plates each with Ø 25 cm can be loaded into the E 816 inserts.
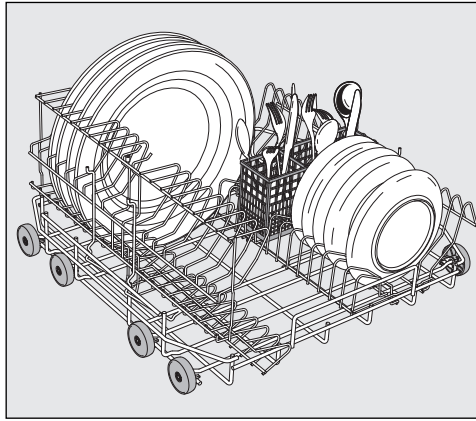
U 890 lower basket carrier with an E 816 insert rotated 90°

With the E 165 cutlery insert, 16 plates each with Ø 33 cm and various items of cutlery can be loaded. Without the cutlery insert, 19 plates each with Ø 33 cm can be loaded into the rotated E 816 insert.
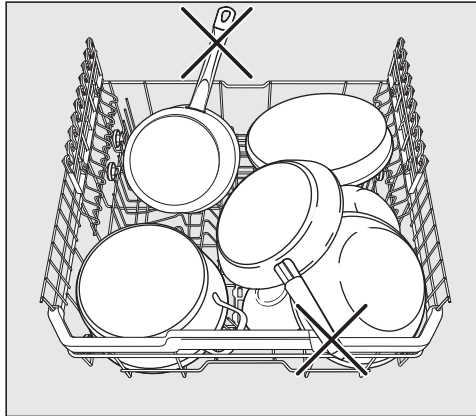
Loading plastic trays

Lower basket carrier U 890 can be loaded with plastic trays measuring 500 x 500 mm.
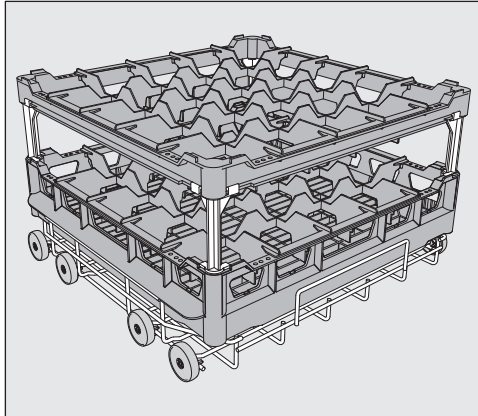
The special O 885 upper basket carrier is required for loading plastic trays in the upper basket (max. loading height for items 130 mm).

The special U 876 lower basket carrier is required for loading taller items in the lower basket.

Which basket combination to use will depend on the type, shape and size of the items to be washed.
For further information on baskets, please contact Miele Professional Service.

Example (lower baskets):
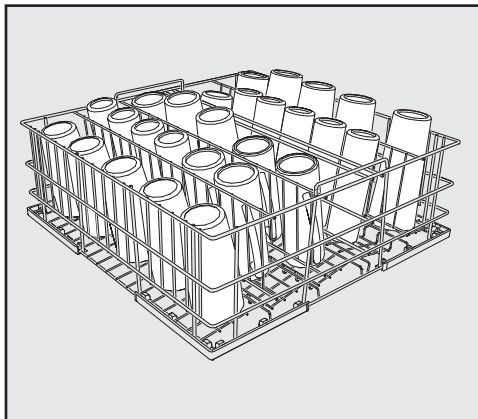
U 525 5-row wire basket

The wire basket can be used for glasses with a maximum diameter of 8 cm.
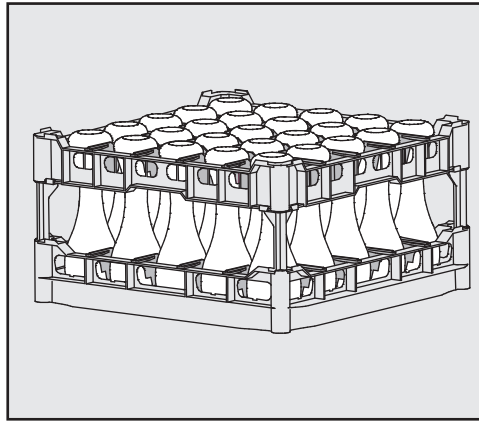
U 534 - U 537 plastic trays with compartments for different glass heights

In this example the plastic tray is connected to the top frame by long extenders.
(for assembly in U 876 lower basket carrier only)

Assembling a plastic tray

The height of the basket can be altered by fitting a top frame ① to the base ④ with long ② or short ③ extenders.
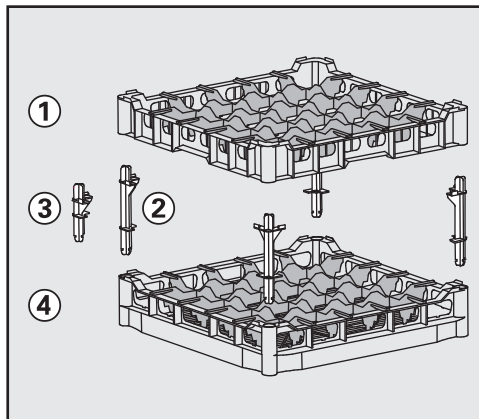
■ Push all four extenders into the base ④.

■ Press the top frame ① securely onto the extenders.

Adding detergent

> Only use cleaning agents for commercial dishwashers.
> Suitable products are available from Miele Professional.

Cleaning agent can be dispensed in powder form via the powder detergent dispenser or in liquid form via an external DOS module (Optional accessory - see "DOS module").

> Cleaning tabs can be used. An exception to this is the Super short programme.
> Only use tabs that are quick dissolving. Suitable products are available from Miele Professional.

Powder cleaning agent

> Only use powder cleaning agent or tabs in the door dispenser compartment.

Add powder cleaning agent or a tab to the detergent dispenser in the door before every wash programme (except Super short, Cold, Reactivation and Drain). Follow the tips on the next page.

■ Add the appropriate amount of cleaning agent to the dispenser according to the degree of soiling of the items to be washed (observe the quantities given in the Programme chart).
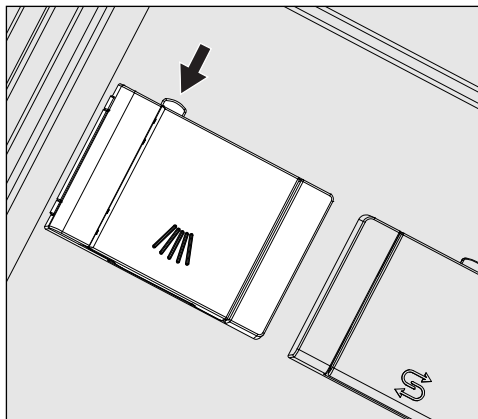
■ Press the opening catch on the dispenser in the direction of the arrow. The flap will spring open to the left.

The flap is always open at the end of a programme.
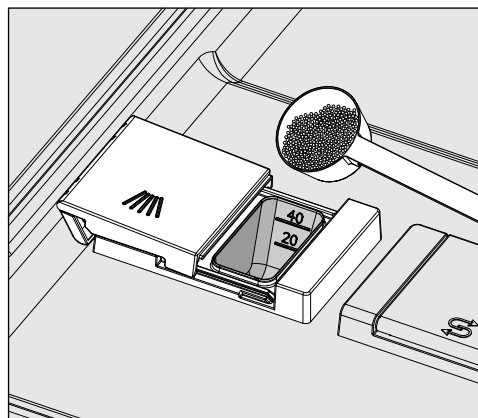
■ Place the required amount of powder cleaning agent or a tab in the detergent dispenser in the door and close the flap.

Dispensing
■ Always follow the recommendations of the cleaning agent manufacturer.

There are markings in compartment II to assist with dispensing: 20 and 40. They indicate the filling quantity in ml when the door is open in the horizontal position. They also indicate the approx. level in grams for powder detergents, depending on the brand and the coarseness of the detergent.

The compartment holds a maximum of 60 ml.

Tips for the Super short programme

With the Super short programme, the final rinse water is not pumped away at the end of the programme in order to achieve short programme durations in continuous use.
Cleaning agent cannot be rinsed out of the dispenser during the short programme time.
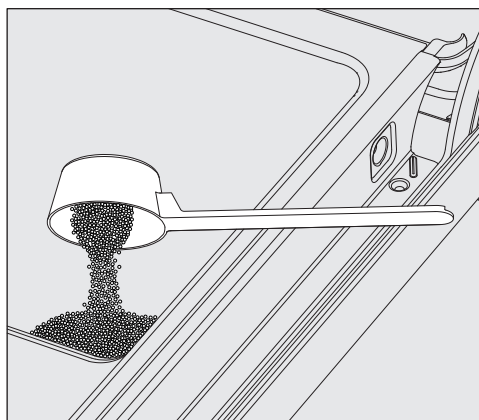
■ If liquid detergent dispensing (a DOS module) is not being used, add powder cleaning agent directly onto the inside of the door.

To avoid corrosion or discolouration, the wash programme must be started immediately after dispensing cleaning agent directly onto the inside of the door.

DOS module

In addition to the internal dispensing systems, up to two further external dispensing systems (DOS modules) can be connected for dispensing liquid chemical agents.

Suitable products are available from Miele Professional.

For more information on Miele DOS modules, please contact Miele Professional Service.

Labelling the siphons

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

Specific types of soiling may require different combinations of cleaning agents and additives. Miele Professional Service will be able to advise you.

Connecting DOS modules

The DOS module is supplied with its own installation instructions.
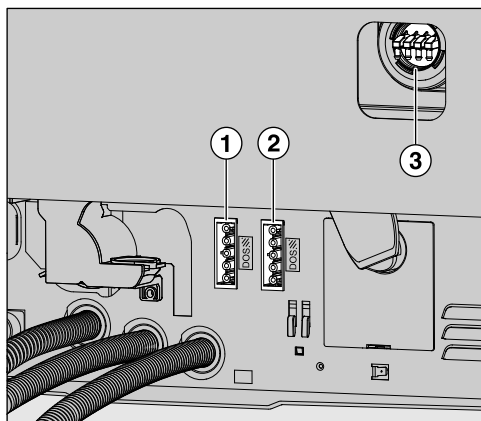
① Power supply for DOS 1 cleaning agent.

② Power supply connection for DOS 4 rinsing agent.

③ Connections for dispensing hoses.

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

■ 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.

Setting the dispensing concentration
Refilling or changing containers

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

The DOS module is equipped with a level indicator which gives a message in the display when the level drops below the minimum.

```
DOS                    i
Refill

                    OK
```

■ As soon as the message appears in the display, refill or replace the container with a full one at the end of the programme.

■ Confirm the message shown with the *OK* button.

> Replace the container in good time to prevent the dispensing system being emptied completely.
> An empty dispensing system must be vented before starting the next programme.

■ Place the container on the open dishwasher door or on a surface which is easy to clean.

■ Take the lid off the canister and remove the siphon. Place the siphon on the open dishwasher door.

■ Fill or replace the container, fit the siphon and secure the lid. Observe the colour coding.
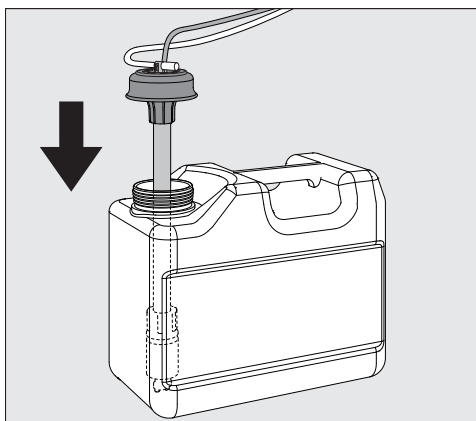
■ Feed the siphon into the canister until it reaches the bottom.

■ Wipe up any spilled process chemical thoroughly.

■ Place the container on the floor beside the commercial dishwasher or in an adjacent cabinet. The container must be at the same level as the machine and not be placed on top of or above the machine.

■ The dispensing system must then be vented.

Checking consumption

Monitor the amount of process chemicals used by regularly checking the level in the container in order to detect any dispensing irregularities.

Operation

LEDs in the buttons

Light-emitting diodes are set into the buttons. They indicate the status of the dishwasher. Except for the *Start/Stop* button, which has a green LED in normal operation, all other LEDs light up yellow.
In the event of a fault the *Start/Stop* button flashes red.

Button	LED	Status
⏻ On/Off button	ON	The dishwasher is switched on.
	OFF	The dishwasher is switched off.
Buttons ⌐1⌐, ⌐2⌐ and ⌐3⌐ Programme shortcut buttons	ON	The respective programme has been selected. At the end of the programme the LED will remain lit until a different programme is selected.
	OFF	The programme is not selected or the programme settings are being altered.
⎘ button Further programmes	ON	A programme has been selected from the programme list. 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 or the programme settings are being altered.
Start/Stop button	ON	A programme is running.
	FLASHES GREEN	A programme has been selected, but not yet started.
	FLASHES RED	A fault has occurred.
	OFF	A programme has finished.
⊙⊸ Door button	ON	A programme has been selected, but not yet started.
	FLASHES	A programme is finished and the door is closed.
	OFF	A programme is running.
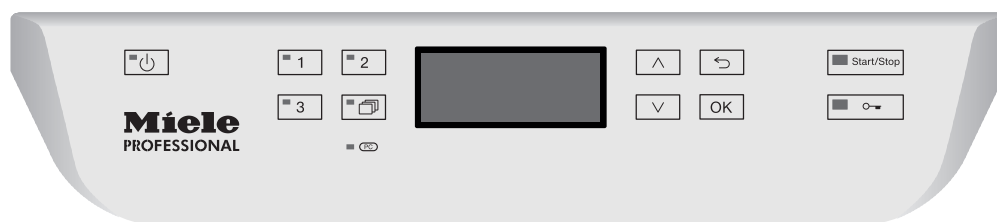
Switching on

■ Turn on the tap, if it is turned off.

■ Press the ⏻ button until the LED lights up.

■ Close the door (the ⊶ button's LED will light up).

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

```
Universal              ﹀
Temperature       55 °C
Duration          23 Min
```
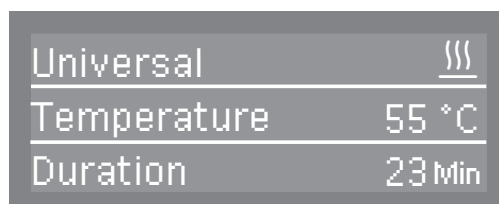
Selecting a programme

Choose your programme according to the type of load and how dirty it is.

Shortcut buttons

The most regularly used programmes can be selected via shortcut buttons ⌜1⌟, ⌜2⌟ or ⌜3⌟. The shortcut buttons can be freely customised to suit individual needs (see "Further Settings").

The first three programmes from the Programme chart are allocated to the shortcut buttons as the factory default.

■ Select a programme using the shortcut buttons.

The shortcut button's LED will light up and the *Start/Stop* button's LED will flash.

Operation

Programme list Programmes which cannot be selected via the shortcut buttons can be selected from the programme list.

■ Press the ⬚ button.

The following options menu appears in the display:

```
Select programme
Super short              ▲
Hygiene plus             ▼
```
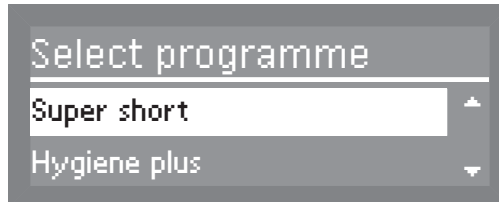
■ Select the programme you want using the ∧ and ∨ buttons and confirm your choice with the *OK* button.

The selected programme will be shown in the display, e.g.:

```
Universal              ⌇⌇⌇
Temperature         55 °C
Duration            23 Min
```
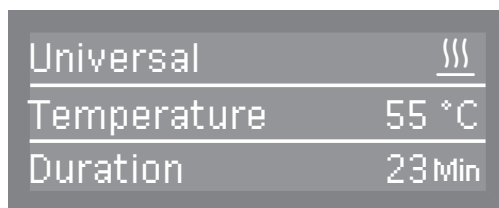
The ⬚ button's LED will light up and the *Start/Stop* button's LED will flash.

Additional functions can be selected by pressing the *OK* button (see "Additional functions").

Starting a programme

■ Press the *Start/Stop* button.

The *Start/Stop* button's LED will light up and the ○⊶ button's LED will go out.

> A programme can no longer be changed after it has been started. A programme can either be interrupted (see "Interrupting a programme") or cancelled (see "Cancelling a programme").

Programme sequence indicator

After the start of a programme, the wash phase description, and for 10 seconds Programme start are shown in the display.

During the programme cycle the ∧ and ∨ arrow buttons can be used to switch between the wash phase and the target temperature or the actual temperature in the second line of the display.

The time remaining is shown in the third line of the display.

Universal	⌇⌇⌇
Main wash	
Duration	23 Min
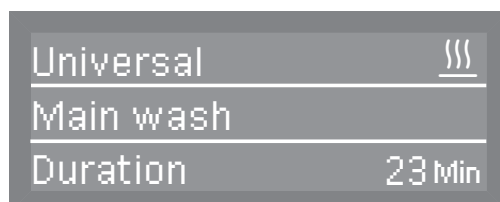
At the end of the programme

After a programme has ended normally, the *Start/Stop* button's LED will go out and the ○╼ button's LED will flash. The message Programme finished will appear in the bottom line of the display.

```
Universal
Temperature        55 °C
Programme finished
```
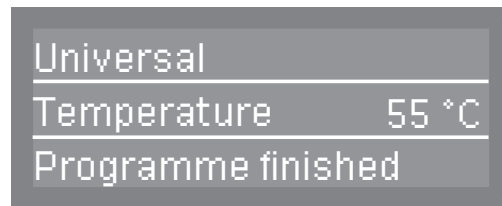
In addition to this a buzzer will sound for approx. 3 seconds (factory setting). To alter the buzzer tones, see "Settings ⚑, Buzzer tones".

If drying support has been activated (see "Settings ⚑, Drying"), the door will automatically open a few centimetres.

> If the switch-off function is activated, the dishwasher switches itself off after a short time.
> Press the ⏻ button to switch it back on.

Switching off

■ Press the ⏻ button until the LED in the button goes out.

Unloading the dishwasher

Dishes tend to break and chip more easily when they are hot. Allow the dishes to cool until they are comfortable enough to handle before unloading them.

If you open the door fully after switching off, the dishes will cool much faster.

Unload the lower basket first, and then the upper basket. This will prevent water drops from the upper basket and cutlery tray from falling onto the dishes in the upper and lower baskets.

Interrupting a programme

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

⚠ Caution! The wash load and the interior of the dishwasher may be hot.
Danger of scalding and burning!

■ Press the ⌐ button.

⚠ If the temperature in the wash cabinet is more than 70 °C, the warning Wash cabinet too hot will appear in the display.

■ Confirm the message shown with the *OK* button.

The following will appear in the display:

```
Open door?
Yes
No  ✓
```
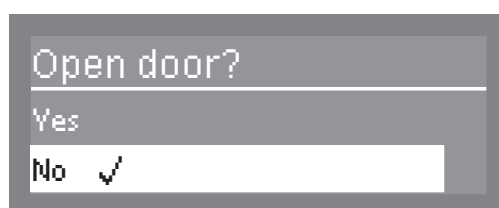
■ Select Yes and confirm your choice with the *OK* button.

The programme will only be cancelled when Yes is confirmed.
If there is no further input 20 seconds after the ⌐ button has been pressed, the display will revert to the programme sequence.

The door will open and the following message will appear in the display:

```
Programme interrupted:      i
Door opened
```
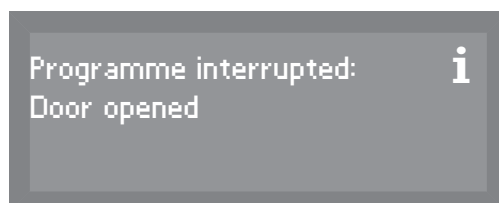
■ Rearrange the items so that they are stable.

■ Close the door.

The programme will continue from the point at which it was interrupted.

The display will automatically revert to the programme sequence.

Cancelling a programme

Only cancel a programme which has already started if strictly necessary, e.g. if you want to change the programme.

In the event of a fault the programme will be cancelled automatically.

> ⚠ Caution! The wash load and the interior of the dishwasher may be hot.
> Danger of scalding and burning!

■ Press the *Start/Stop* button.

The following will appear in the display:

```
Cancel programme
Yes
No    ✓
```

■ Select Yes and confirm your choice with the *OK* button.

> The programme will only be cancelled when Yes is confirmed.
> If there is no further input approx. 20 seconds after the *Start/Stop* button has been pressed, the display will revert to the programme sequence.

The following message appears in the display:

```
Programme cancelled        i
```

> If you change the programme and the cleaning agent compartment flap is open, add more cleaning agent as necessary.

Delay start

The start time of a programme can be delayed, e.g. to benefit from economy rates of electricity. The delayed start time of between 1 minute and 24 hours can be selected.

> Delay start must be switched on in the Settings menu (see "Settings ⚑, Delay start").
> If Delay start has been switched off, it will not be visible when additional functions are called up.

> When using the Delay start function, make sure that the cleaning agent compartment is dry before adding cleaning agent. Wipe dry with a cloth if necessary.
> If the compartment is wet, cleaning agent can become lumpy and stick to the dispenser, with the result that it is not fully dispensed.

Setting the start time

- Switch the dishwasher on with the ⏻ button.

- Select the programme you require (see "Operation, Selecting a programme"). The *Start/Stop* button's LED will flash.

- Press the *OK* button.

- Select Delay start and confirm your choice with the *OK* button.
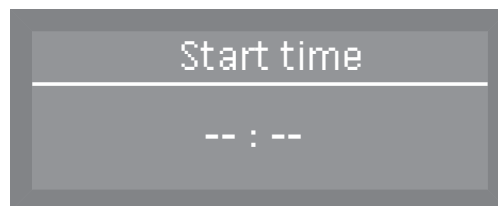
```
        Start time

        -- : --
```

- Use the arrow buttons ∧ and ∨ to set the hours and minutes and confirm each entry with the *OK* button.

- When you have entered the start time, press the *Start/Stop* button.

```
Universal            ≋
Temperature      55 °C
Switch on at     12:30
```
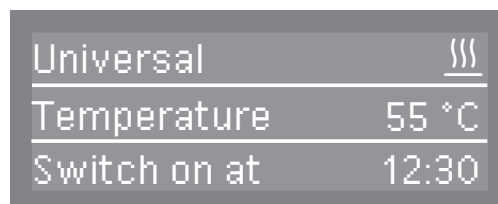
The selected programme, along with the temperature and start time, will then be displayed.

> To cancel a set Delay start before it has started, switch the dishwasher off using the ⏻ button.

Additional functions

Drying support

To achieve better drying results, the dishwasher door will automatically open a few centimetres at the end of the programme. This function cannot be activated for all programmes (see "Programme chart").

Drying support can be activated or deactivated for the selected programme, even if it is switched on or off permanently under Settings ⚑, Drying".
The setting adopted will then be applied once for the programme selected. It will go out at the end of the programme.

■ Switch the dishwasher on with the ⏻ button.

■ Select the programme you require (see "Operation, Selecting a programme"). The *Start/Stop* button's LED will flash.

■ Press the *OK* button.

If Delay start has been activated under "Settings ⚑ , Delay start", the following will appear in the Selection menu:

```
Selection
Delay start
Drying assistance
```
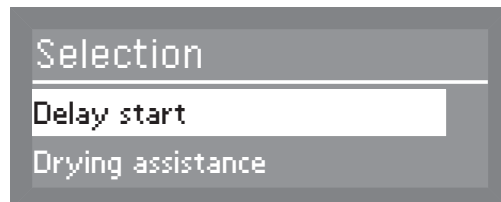
■ Select Drying assistance and confirm your choice with the *OK* button.

If Delay start has been deactivated under "Settings ⚑ , Delay start", the options for drying support will appear immediately.

```
Drying
No
Yes ✓
```

- No
  Drying support is deactivated for the selected programme.

- Yes
  Drying support is activated for the selected programme.

The opposite of the setting which has been adopted under Settings ⚑, Drying will appear as an option in the display.
Pressing the *OK* button will adopt the option.

```
Universal                  ⌇⌇⌇
Temperature            55 °C
Duration               23 Min
```

If Drying support has been activated, the drying symbol ⌇⌇⌇ will appear in the display to the right of the programme name.

If the temperature in the wash cabinet is higher than 67 °C after the final wash phase (e.g. in the Hygiene Plus programme), an active cooling phase will be run before the end of the programme. The programme will only end when the temperature is lower than 67 °C. An audible tone sounds, Programme finished appears in the display and the door automatically opens a few centimetres.

Calling up the Settings ⚑ menu

To open the Settings menu:

■ Switch the dishwasher off.

■ Press and hold the ↰ button and switch the dishwasher on using the ⏻ button.

After that, the display will show the following, for example:
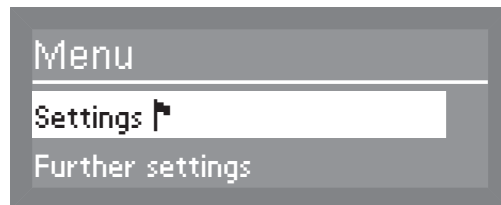
```
Menu
Settings ⚑
Further settings
```

> If the ↰ button is pressed in this menu, the dishwasher will revert to normal operation.

■ Select the Settings ⚑ option and open the menu for this by pressing the *OK* button.

Options in the Settings menu ⚑

- Delay start
  Switch Delay start on or off (see "Delay start")

- Drying
  Switch drying support on or off permanently and adjust the drying time (see "Drying").

- Language ⚑
  Select the operating language (see "Setting the language")

- DOS venting (option is only visible if a DOS module is activated)
  Vent dispensing system (see "DOS venting")

- Date
  Set the date and date format (see "Setting the date")

- Time of day
  Set the time and clock format (see "Time of day")

- Volume
  Set the volume of keypad and buzzer tones (see "Buzzer tones")

Menu structure

Factory settings are marked with a tick.

Menu	Submenu 1	Submenu 2
1. Delay start	No ✓ Yes	
2. Drying	No Yes ✓	
3. Language ⚑	deutsch ✓ english (GB) **etc.....**	
4. VentingDOS	DOS 1 DOS 4	
5. Date	Date format Set	DD:MM:YY ✓ MM:DD:YY
6. Time of day	Set Display Clock format	Set the time Do not display ✓ On "On" for 60 seconds 12 h 24 h ✓
7. Volume	Keypad tone Buzzer tones	 Programme end Warning

Delay start

You can select whether Delay start appears in the Additional functions menu or not. Selecting the option No will remove Delay start from the Additional functions menu for operators.
To be able to delay the start of a programme, Yes must be selected in order for it to be displayed in Additional functions.
To set the start time, see "Additional functions, Delay start".

∎ Select the Settings ⚑ menu.

∎ Select Delay start and confirm your choice with the *OK* button.

The following options are available:

Delay start
No ✓
Yes

- No
  Delay start is switched off and therefore not visible as an additional function.

- Yes
  Delay start is switched on.

∎ Select the option you want and confirm your choice with the *OK* button.

Drying

You can switch drying support on or off for all programmes that support this function.
In Additional functions you can select or deselect drying for individual programmes (see "Additional functions, Drying support").

■ Select the Settings ⚑ menu.

■ Select Drying and confirm your choice with the *OK* button.

The following options are available:

```
Drying
┌─────────────────────────────────┐
│ No                              │
└─────────────────────────────────┘
 Yes ✓
```

- No
  Drying support is switched off.

- Yes
  Drying support is switched on for those programmes which support drying support.

Setting the language ⚑

The language set will be used in the display.

The flag symbol ⚑ after the "Settings" menu and after the word "Language" serves as a guide if a language that you do not understand has been set. In this case keep selecting the option which has a flag after it until you reach the "Language" submenu.

■ Select the Settings ⚑ menu.

■ Select Language ⚑ and confirm your choice with the *OK* button.

A list will appear in the display with all the languages available in the system.

■ Use the ∧ and ∨ arrow buttons to select the language you want and confirm your choice with the *OK* button.

Venting DOS modules

This option is only visible when a DOS module is connected.

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

The DOS system must be vented:

- when the dispensing system is being used for the first time,

- when the liquid cleaning agent container has been replaced,

- when the dispensing system has been sucked completely dry.

⚠ To avoid damage to the dispensing system, make sure before venting that the containers for cleaning agent and rinsing agent are sufficiently filled and the dispensing siphons are screwed securely to the containers.

■ Select the Settings ⚑ menu.

■ Select DOS venting and confirm your choice with the *OK* button.

```
DOS venting
DOS1
DOS4
```
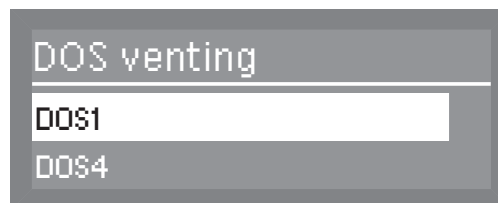
■ Select the dispensing system to be vented using the ∧ and ∨ arrow buttons and confirm your choice with the *OK* button.

The dishwasher will now start the automatic venting process of the dispenser system. As soon as this is completed, Dispensing system DOS successfully vented will appear in the display.

■ Confirm the message with the *OK* button.

Setting the date

■ Select the Settings ⚑ menu.

■ Select Date and confirm your choice with the *OK* button.

In the following menu you can choose between:

```
Date
┌─────────────────────────┐
│ Date format             │
└─────────────────────────┘
  Set
```
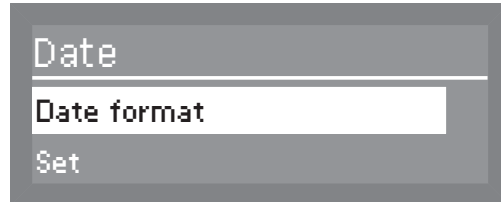
- Date format
  This option offers two variations for the date format.

- Set
  This option is used to set the date in the selected format.

Date format

■ Select Date format and confirm your choice with the *OK* button.

```
Date format
┌─────────────────────────┐
│ DD:MM:YY ✓              │
└─────────────────────────┘
  MM:DD:YY
```
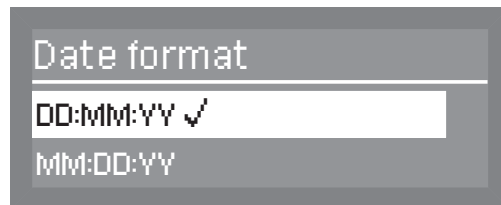
DD stands for day
MM stands for month
YY stands for year

■ Select the date format you want and confirm your choice with the *OK* button.

Setting

■ Select Set and confirm your choice with the *OK* button.
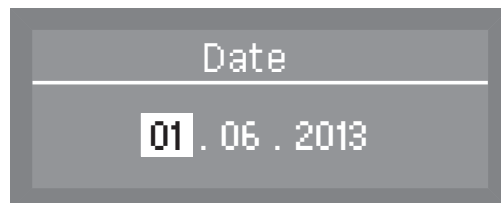
```
        Date
     ┌──────┐
     │ 01 │. 06 . 2013
     └──────┘
```

■ Use the arrow buttons ∧ and ∨ to set the day, month and year and confirm each entry with the *OK* button.

When day, month and year have been set, the display reverts automatically to the Date menu.

Setting the time of day

■ Select the Settings ⚑ menu.

■ Select Time of day and confirm your choice with the *OK* button.

In the following menu you can choose between:

Time of day	
Set	▲
Display	▼
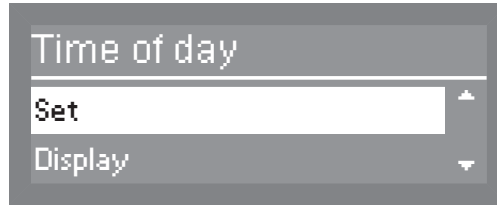
- Set
  Set the time of day.
- Display
  Time of day displayed when the dishwasher is idle.
- Clock format
  Set the clock format.

The dishwasher does not automatically adjust between summer and winter time. This must be done manually by the operator as required.

Setting

■ Select Set and confirm your choice with the *OK* button.

Time of day
12 : 00

■ Use the arrow buttons ∧ and ∨ to set the hours and minutes and confirm each entry with the *OK* button.

When hours and minutes have been set, the display reverts automatically to the Time of day menu.

Settings ⚑

Display   If required, the time of day can be displayed once the "Switch off after duration" has elapsed (see Further settings, Switch off after). The LED in the ⏻ button will flash.
The dishwasher is in standby when the time is visible in the display. Pressing any button will reactivate it.

■ Select Display and confirm your choice with the *OK* button.

The following options are available:

```
Display

Do not display ✓        ▲

On                      ▼
```

- Do not display
  The time of day is not displayed. The dishwasher switches off at the end of the preset waiting time.

- On
  After the waiting time has elapsed, the time of day is constantly displayed.

- "On" for 60 seconds
  The time of day is displayed for 60 seconds after the waiting time has elapsed. Once the 60 seconds have elapsed, the dishwasher switches off.

Select the setting you want and confirm your choice with the *OK* button.

Clock format   ■ Select Clock format and confirm your choice with the *OK* button.

The following options are available for clock format in the display:

```
Clock format

12 h

24 h  ✓
```
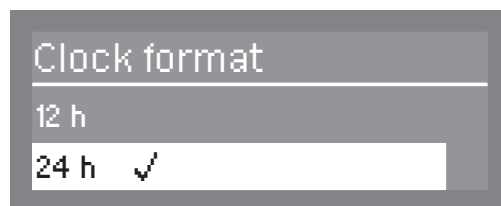
- 12 h (am / pm)

- 24 h

■ Select the format you want and confirm your choice with the *OK* button.

Regulating the volume

The dishwasher has audible tones. They sound when buttons on the keypad are pressed, at the end of a programme and when there are system messages.

■ Select the Settings |⚑ menu.

■ Select Volume and confirm your choice with the *OK* button.

The following options are available:

```
Volume
Keypad tone
Buzzer tones
```
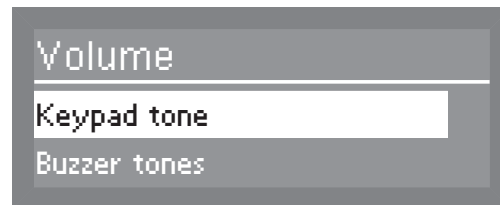
- Keypad tone
  Set the volume of the tone which sounds when one of the buttons is pressed.

- Buzzer tones
  Set the buzzer volume for programme end and for warning messages.

Keypad tone

■ Select Keypad tone and confirm your choice with the *OK* button.

■ Set the volume you want (see "Setting the volume") and confirm your choice with the *OK* button.

Buzzer tones

■ Select Buzzer tones and confirm your choice with the *OK* button.

The following options are available:

```
Buzzer tones
Programme end
Warning
```
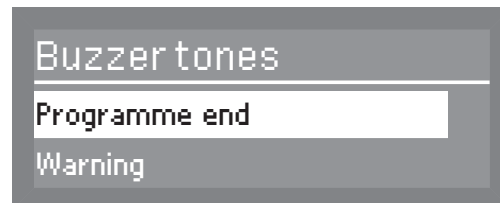
- Programme end
  Set the buzzer tone at the end of a programme.

- Warning
  Set the buzzer tone for warning messages.

■ Select the appropriate option and confirm your choice with the *OK* button.

■ Set the volume you want (see "Setting the volume") and confirm your choice with the *OK* button.

Setting the volume

The volume is always set in the same way. The display is also similar, e.g.:

```
Keypad tone
━━━━━━━▭
Quieter            Louder
```
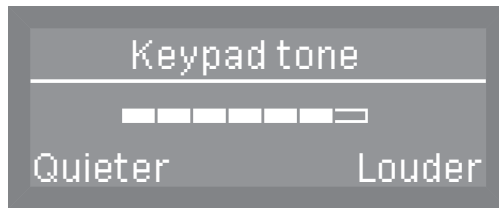
■ Set the volume using the arrow buttons ∧ (louder) and ∨ (quieter).

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

■ Confirm the volume set with the *OK* button.

> If there is no further input for approx. 15 seconds, the display will revert to the previous menu without saving the setting.

Opening the "Further settings" menu

To open the "Further settings" menu:

■ Switch the dishwasher off.

■ Press and hold the ↰ button and switch the dishwasher on using the ⏻ button.

After that, the display will show the following:

```
Menu
Settings ▶
Further settings
```
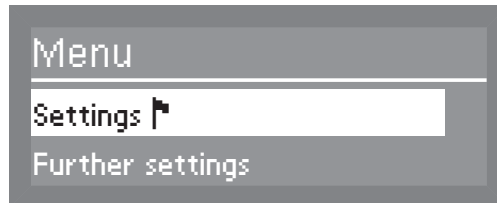
If the ↰ button is pressed in this menu, the dishwasher will revert to normal operation.

■ Select Further settings and press *OK* to open the relevant menu.

Options under Further settings

This menu can be protected with a code (see "Further settings, Code").

- Code
  Access rights via a code and settings can be administered (see "Code")

- Log book
  Displays consumption levels for agents used as well as operating hours (see "Log book")

- Temperature unit
  The temperature can be displayed in °C or °F (see "Temperature unit")

- Move programme
  Programmes can be allocated to the shortcut buttons (see "Move programme")

- Additional functions
  Programme parameters such as water intake, interim rinses, temperatures and holding times as well as cleaning agent concentration levels for the DOS modules can be adjusted with this function (see "Additional functions")

- Release programme
  You can specify which programmes are visible in the display (see "Release programme")

- Water hardness
  This option is used for setting the water hardness level (see "Further settings, Water hardness")

Further settings

- Display view

  The display can show the actual temperature or the target temperature (see "Display view")

- Display

  The display contrast and brightness can be adjusted (see "Display")

- Switch off after

  Automatic switch off can be activated or deactivated (see "Switch off after")

- Factory default

  All parameters can be reset to the factory default settings (see "Factory default")

- Software version

  The software version can be viewed (see "Software version")

Menu structure

Factory settings are marked with a tick.

Menu	Submenu 1	Submenu 2	Submenu 3
1. Code	Release Change code	Further settings Enter code	Yes ✔ Block
2. Log book	Consumption: Water Consumpt.:Cleaning agent Consumpt.: Rinsing agent Operating hours Wash cycles Service interval		
3. Temperature unit	°C ✔ °F		
4. Move programme	1. Short 2. Universal 3. Intensive etc.		
5. Additional functions	Reset Increased water level Interim rinse Dispensing system Temperature / Time	Yes No ✔ Yes No ✔ DOS2 Rinsing agent DOS 1 DOS 4 Short Universal Intensive etc.	Active Inactive DOS venting Concentration Change name Reset Main wash Final rinse
6. Release programme	All ✔ Selection	☑ Short ☑ Universal etc. Accept	
7. Water hardness			

Further settings

Menu	Submenu 1	Submenu 2	Submenu 3
8. Display view	Actual temperature Required temperature ✓		
9. Display	Contrast Brightness	Contrast Set Brightness Set	
10. Switch off after	Yes ✓ No	Set the time	
11. Factory default	Reset	No ✓ Programme settings only All settings	
12. Software version	EB Id: XXXX EGL Id: XXXX EZL Id: XXXX EFU Id: XXXX		

Code

A code can be used to prevent unauthorised access to various functions and system settings on the dishwasher.

■ Select the Further settings menu.

■ Select Code and press *OK* to open the relevant menu.

- Release
  Restrict access to the Further settings menu to users with administrative rights only, or allow access to all users.

- Change code
  Set a new code.

Releasing programmes

■ Select the Release option and confirm your choice with the *OK* button.

■ Select Further settings and confirm your choice with the *OK* button.

The following options are available:

```
Further settings
Yes  ✓
Block
```

- Yes
  The menu is available to all users.

- Block
  The menu can only be accessed by using a code.

A tick ✓ indicates the current status.

■ Select the option you want and confirm your selection with the *OK* button.

Changing the code

■ Select the Change code option and confirm your choice with the *OK* button.

■ First enter the current code (see "Entering the code").

■ Then enter your new code.

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

Further settings

Entering the code

If in the Release menu you have selected Block or if you have set the Further settings menu up for access via a code, you have to enter the code.
Settings within the Further settings menu can then only be changed by people with administrative rights.

The code is set at the factory to 8 0 0 0 if access in Further settings is blocked.

In this instance the display will show the following message:

```
 Enter code
 ──────────────
   0  0  0  0
```

■ Use the ∧ and ∨ arrow buttons to enter the digits and confirm each one with the *OK* button.

> When the *OK* button is pressed, the highlighting jumps automatically to the next input position.

Each digit entered is replaced by an asterisk (*).

The protected settings are released once all digits have been correctly entered.

If the code is entered incorrectly, the following message will appear in the display:

```
 Wrong code entered        i


                       OK
```
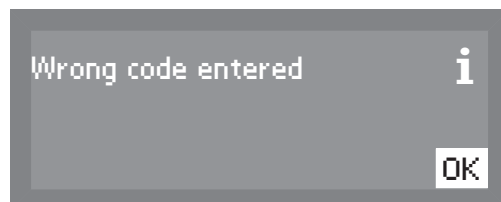
■ Confirm the message with the *OK* button.

The display will then revert to the input menu.

Log book

The dishwasher controls measure the consumption levels for water, cleaning agent and rinsing agent. They also calculate the number of hours the dishwasher has been run for, how many programmes have been run and measure the service intervals.

■ Select the Further settings menu.

■ Select Log book and press *OK* to open the relevant menu.

The following options are available:

```
Log book

Consumption: Water          ▲

Consumpt.:Cleaning agent     ▼
```
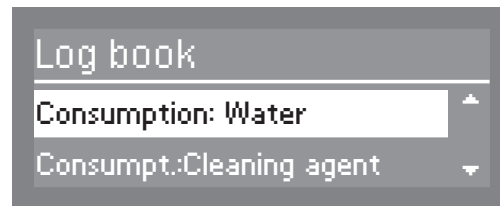
- Consumption: Water
  Display the total amount of water used in litres (l).

- Consumpt.:Cleaning agent
  Display the total amount of cleaning agent used in litres (only for dishwashers using a DOS module).

- Consumpt.: Rinsing agent
  Display the total amount of rinsing agent used in litres (l).

- Operating hours
  Display the total number of operating hours.

- Programme cycle counter
  Display the total number of programmes run.

- Service interval
  Display the date when the next service is due.

■ Select the option you want and confirm your choice with the *OK* button.

The value will then be displayed.

Pressing the *OK* button takes you to the next level.

Further settings

Temperature unit

The temperature can be shown in the display in degrees Celsius or degrees Fahrenheit.

■ Select the Further settings menu.

■ Select Temperature unit and confirm your choice with the *OK* button.

```
Temperature unit
°C ✓
°F
```
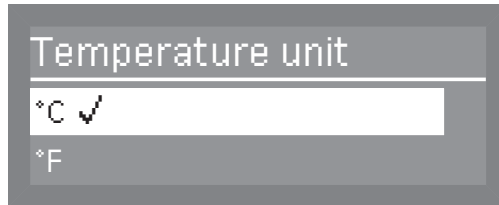
- °C
  The temperature is displayed in degrees Celsius

- °F
  The temperature is displayed in degrees Fahrenheit

■ Use the ∧ and ∨ arrow buttons to select the option you want and confirm your choice with the *OK* button.

Moving a programme

You can change the order of the programmes and with it the allocation of the shortcut buttons.
You can move the programmes you use most frequently to programme places 1-3. These are then automatically allocated to the shortcut buttons.

- Select the Further settings menu.

- Select Move programme and confirm your choice with the *OK* button.

Shortcut buttons   Programmes are displayed in their current order.

- Use the ∧ and ∨ buttons to select a programme from the list that you wish to move, and then confirm your choice with the *OK* button.

The programme you select will be marked with a tick ✓.

- Use the ∧ and ∨ buttons to select the position you want to move it to and confirm your choice with the *OK* button.

Moving a programme forwards moves the programmes after it down a position.
Moving a programme down the list moves the programmes in front of it up a position.

Additional functions

It is possible to adapt individual parameters to tailor programme sequences to particular types of soiling and to optimise the cleaning result.

■ Select the Further settings menu.

■ Select Additional functions and press the *OK* button to open the relevant menu.

In the following menu you can choose between:

- Reset
  This resets all altered parameters in Additional functions to their default settings.

- Increased water level
  This increases the amount of water used in all wash programmes.

- Interim rinse
  This introduces an interim rinse to all programmes that support this feature (see "Programme chart").

- Dispensing system
  This is used for venting the dispensing systems and for naming the DOS module.

- Temperature / Time
  The temperature and holding time can be changed for the main wash and final rinse stages of a programme.

Reset

■ Select the Reset option and confirm your choice with the *OK* button.

```
Reset
Yes
No    √
```

■ Select the Yes option and confirm your choice with the *OK* button.

All parameters that have been altered under "Additional functions" will be reset to the factory default setting.

Increased water level

■ Select the Increased water level option and confirm your choice with the *OK* button.

The amount of water is shown in litres and can be increased in 0.5 litre increments up to 1.5 litres.

```
┌─────────────────────────────┐
│  Increased water level      │
│  ─────────────────────────  │
│           [0.0] l           │
│         (0.0 - 1.5 l)       │
└─────────────────────────────┘
```

■ Use the arrow buttons ∧ (higher) and ∨ (lower) to select the amount of water you want and confirm your choice with the *OK* button.

Interim rinse

■ Select the Interim rinse option and confirm your choice with the *OK* button.

The following options are available:

```
┌─────────────────────────────┐
│  Interim rinse              │
│  ─────────────────────────  │
│  Yes                        │
│  No   ✓                     │
└─────────────────────────────┘
```
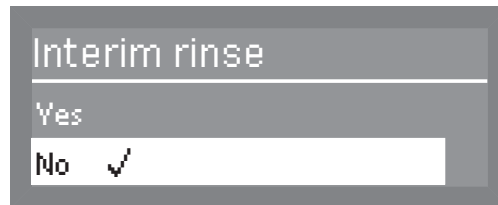
- Yes
  Interim rinse is activated.

- No
  Interim rinse is not activated.

■ Select the option you want and confirm your choice with the *OK* button.

Further settings

DOS dispensing system

■ Select the Dispensing system option and confirm your choice with the *OK* button.

```
Dispensing system
DOS2 Rinsing agent      ▲
DOS1                    ▼
```
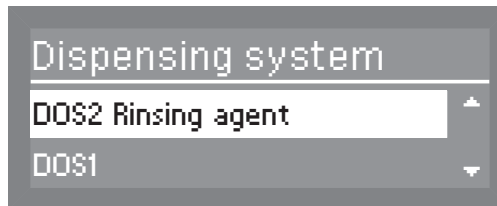
■ Select the dispensing system you want and confirm your choice with the *OK* button.

The following options are available:

```
DOS1
Active                  ▲
Inactive                ▼
```

- Active
  Dispensing system is activated.

- Inactive
  Dispensing system is not activated.

- DOS venting
  This vents the dispensing system to ensure reliable dispensing.

- Concentration
  The concentration level of cleaning agent and/or rinsing agent can be set to suit requirements.

- Change name
  The name of the dispensing system can be changed.

> With DOS2 Rinsing agent the only option displayed is Concentration.

> The options DOS venting, Concentration and Change name are only visible if Active has been selected.

DOS venting

⚠ To avoid damage to the dispensing system, make sure before venting that the containers for cleaning agent and rinsing agent are sufficiently filled and the dispensing siphons are screwed securely to the containers.

■ Select DOS venting and confirm your choice with the *OK* button.

The dishwasher will now start the automatic venting process of the dispenser system.
Dispensing system DOS venting appears in the display.

As soon as the process has finished, Dispensing system DOS successfully vented will appear in the display.

■ Confirm the message with the *OK* button.

Setting the DOS concentration level

Please observe the dispensing recommendations given by the manufacturer of the agent.

■ Select Concentration and confirm your choice with the *OK* button.

Concentration levels are given as a percentage and can be set between 0.01 and 2.00 %.

The concentration level set then applies to all programmes.

Display for DOS1:

```
         Concentration
             0.30 %
          (0.01 - 2.00 %)
```
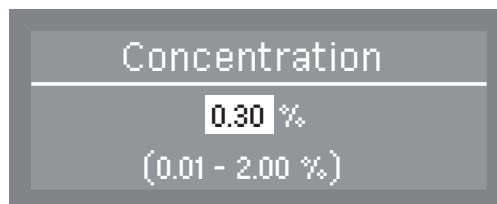
If a DOS G 60 module is connected to the dishwasher, the factory set concentration level must be reduced by half.

Display for DOS2 rinsing agent and DOS4:

```
         Concentration
             0.04 %
          (0.01 - 2.00 %)
```
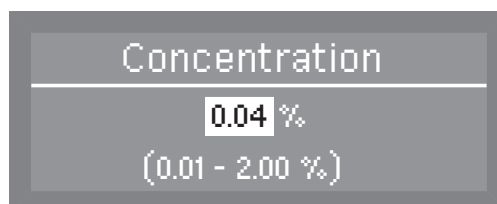
■ Use the arrow buttons ∧ (higher) ∨ (lower) to set the concentration level you want and confirm your choice with the *OK* button.

Further settings

Changing a DOS name

■ Select Change name and confirm your choice with the *OK* button.

```
Change name

DOS1_ _ _ _ _ _ _ _ _ _ _
  ▾  🗑 OK ↩ a äbc      ▴
```
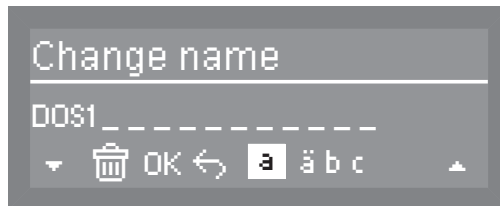
The current name is shown on the second line of the display. This can be changed using the options shown in the bottom line.
DOS is a set part of the name and cannot be changed.
The top line shows which option has been selected.

■ Use the arrow buttons ∧ (moves to the left) and ∨ (moves to the right) to move the cursor to the desired option.

■ Confirm each option individually with the *OK* button.

The following options are available:

- Letters from A - Z
  Each new word will start with a capital letter.

- Numbers from 0 - 9

- Space

- Use the 🗑 symbol to delete the last position in the name displayed.

- Select OK to save the name.

- If you do not want to save the name you have given, press the ↩ symbol.

Temperature / time

The temperature and holding time for the main wash and final rinse phases can be altered in some programmes (see "Programme chart").

■ Select Temperature / Time and confirm your choice with the *OK* button.

```
Select programme
Short                          ▲
Universal                      ▼
```

The following options are available:

```
Short
Reset                          ▲
Main wash                      ▼
```
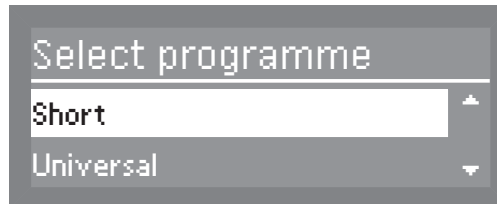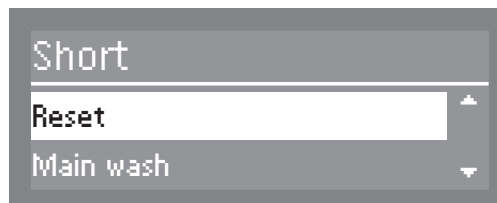
- Reset
  This resets values changed in a programme back to their factory default settings.

- Main wash
  This is used to alter the temperature and the holding time in the main wash.

- Final rinse
  This is used to alter the temperature and the holding time in the final rinse.

Further settings

Main wash / final rinse

The procedure for altering settings in Main wash and Final rinse is the same. The display also looks similar.

■ Select the Main wash or Final rinse option and confirm your choice with the *OK* button.

```
Short
─────────────────────
Final rinse temp.         ▲
Holding time              ▼
```
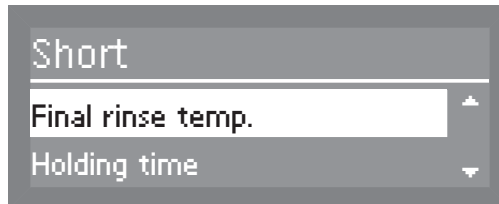
■ Select the wash programme you want and confirm your choice with the *OK* button.

The following options are available:

- Temperature / Final rinse temp.
  The temperature for the main wash and the final rinse can be changed.

- Holding time
  The temperature holding time can be changed.

Final rinse temperature

■ Select Temperature or Final rinse temp. and confirm your choice with the *OK* button.

The temperature for the main wash or the final rinse can be changed from 30 to 85 °C in 1 °C increments.
In the Super short programme, the temperature can only be increased to 70 °C.

```
Final rinse temp.
       50 °C
     (30 - 85 °C)
```
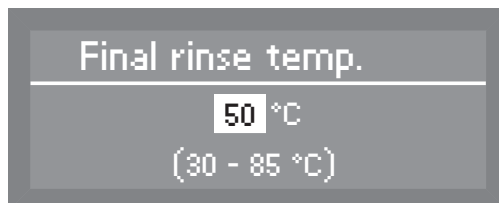
■ Use the arrow buttons ∧ (higher) ∨ (lower) to set the temperature you want and confirm your choice with the *OK* button.

Holding time

■ Select Holding time and confirm your choice with the *OK* button.

The holding time is set in minutes and can be set between 0 and 10 minutes in 1 minute increments.

> In the case of the Super short programme, the holding time is set in seconds and can be set between 0 and 300 seconds in 5 second increments.

```
            Holding time
              1  Min
            (0 - 10 Min)
```

■ Use the arrow buttons ∧ (higher) ∨ (lower) to set the holding time you want and confirm your choice with the *OK* button.

Further settings

Releasing programmes

Individual programmes can be blocked so that they cannot be used. All programmes are released for use as default.

■ Select the Further settings menu.

```
Release programme
All    ✓
Selection
```
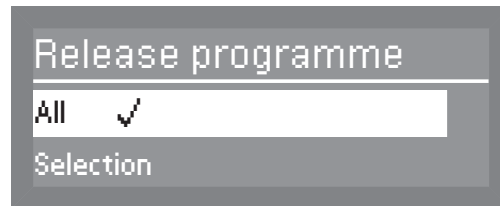
■ Select Release programme and press *OK* to open the relevant menu.

The following options are available:

- All
  All programmes are released for use.

- Selection
  Individual programmes can be blocked.

Blocking programmes

■ Select Selection and confirm your choice with the *OK* button.

```
Release programme
☑ Short          ▲
☑ Universal      ▼
```
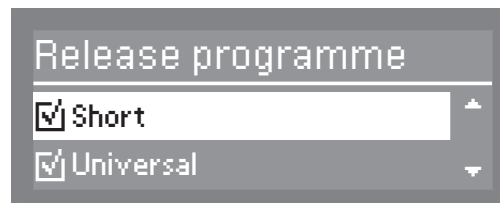
■ Select the programmes that you want to block from use and press the *OK* button.

The tick ✓ will be removed from the box ☐ and the programme cannot then be used.

■ To save your selection, select Accept at the end of the programme list and confirm your choice with the *OK* button.

If programmes have been blocked, Selection✓ is selected the next time Release programme is called up.

Water hardness

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

For further information, see "Filling the salt reservoir".

Display

During a programme the actual or target temperature can be shown in the second line of the display.

■ Select the Further settings menu.

```
Display view
Actual temperature
Required temperature ✓
```
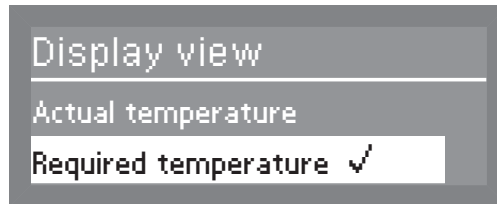
■ Select Display view and press *OK* to open the relevant menu.

The following options are available:

- Actual temperature
  Display the actual temperature during a programme (this value will vary during the course of the programme).

- Required temperature
  Display the target temperature for the main wash or the final rinse (the maximum value is displayed as a static value. It will change from one programme block to the next).

■ Select the option you want and confirm your choice with the *OK* button.

Further settings

Display

The display menu can be used for altering the display contrast and brightness.

■ Select the Further settings menu.

```
Display
Contrast
Brightness
```
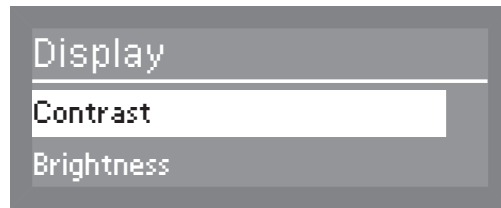
■ Select Display and press *OK* to open the relevant menu.

The following options are available:

- Contrast
  Set the contrast.

- Brightness
  Set the brightness of the display.

Contrast
■ Select the Contrast option and confirm your choice with the *OK* button.

The contrast range is shown in a bar chart in the display.

```
Contrast

Lower          Higher
```

■ Use the arrow buttons ∧ (higher) ∨ (lower) to set the contrast you want and confirm your choice with the *OK* button.

Brightness
■ Select the Brightness option and confirm your choice with the *OK* button.

The brightness range is shown in a bar chart in the display.

```
Brightness

Darker         Brighter
```

■ Use the arrow buttons ∧ (brighter) ∨ (darker) to set the brightness you want and confirm your choice with the *OK* button.

Switch off after

When not in use the dishwasher can be switched off to save energy or be placed in standby mode by selecting an option from the Settings ⚑, Time of day, Display menu.
The clock display will be visible in standby mode.

■ Select the Further settings menu.

■ Select Switch off after and press the *OK* button to open the relevant menu.

The following options are available:

```
Switch off after

Yes  ✓
No
```
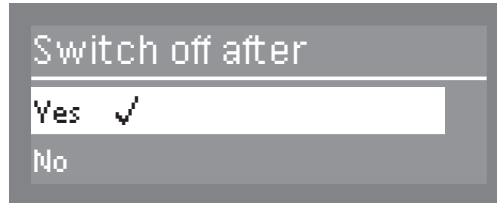
- Yes
  The switch off after option is active and you can specify a duration after which the appliance switches off.

- No
  The switch off after option is not active.

Setting the switch off after duration

■ Select the Yes option and confirm your choice with the *OK* button.

The switch off after duration is set to 60 minutes as the factory default. It can be adjusted in 5 minute increments from 5 to 60 minutes.

```
Switch off after
       60 Min
    (5 - 60 Min)
```
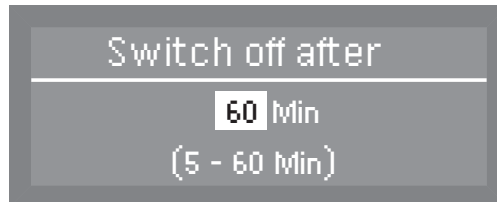
■ Use the arrow buttons ∧ (higher) ∨ (lower) to set the switch off after duration and confirm your choice with the *OK* button.

Further settings

Factory default

The factory default setting can be used to reset all changed parameters in the dishwasher back to their default settings or just values that have been changed for programmes.

∎ Select the Further settings menu.

```
┌─────────────────────────────────┐
│ Factory default                 │
│ ─────────────                   │
│ ┌─────────────────────────────┐ │
│ │ Reset                       │ │
│ └─────────────────────────────┘ │
│                                 │
│                                 │
└─────────────────────────────────┘
```
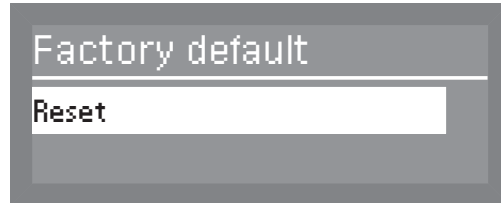
∎ Select Factory default and press *OK* to open the relevant menu.

The following options are available:

```
┌─────────────────────────────────┐
│ Reset                           │
│ ─────────                       │
│ ┌───────────────────────────┐ ▲ │
│ │ No    ✓                   │   │
│ └───────────────────────────┘   │
│ Programme settings only       ▼ │
└─────────────────────────────────┘
```
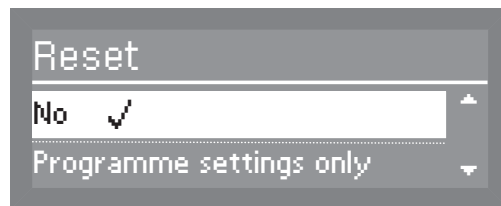
- No
  Altered parameters will not be reset to their default settings.

- Programme settings only
  Only values that have been altered in programmes will be reset to their default settings.

- All settings
  All parameters that have been altered in the dishwasher will be reset to their default settings.

∎ Select the option you want and confirm your choice with the *OK* button.

Selecting Programme settings only or All settings restarts the dishwasher. After it has restarted, you will be prompted to re-enter basic parameters such as the language, date, time, water hardness etc.

∎ Enter the parameters displayed such as language, date, time etc.

Your selection will be saved and the last programme used will appear in the display.

Software version

This displays the versions of the various software components.

■ Select the Further settings menu.

■ Select Software version and press *OK* to open the relevant menu.

```
Software version
EB Id: XXXX          ▲
EGL Id: XXXX         ▼
```

The software for individual components is displayed. XXXX denotes the version.

- EB Id: XXXX
  Control and display elements

- EGL Id: XXXX
  Control board

- EZL Id: XXXX
  Relay board

- EFU Id: XXXX
  Frequency converter

Alterations and updates to software can only be carried out by an authorised Miele service technician.

Cleaning and care

Maintenance

To prolong the service life of the dishwasher, maintenance should be carried out **at least once a year** by Miele Professional Service.

Maintenance covers the following:

- Electrical safety according to national regulations
- Door mechanism and door seal
- Any screw connections and connectors in 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 baskets and inserts

The following operational tests will be carried out as part of the maintenance:

- A programme will be run as a test run
- Seals will be tested for water tightness
- All relevant measuring systems will be safety tested, including fault displays
- Safety features

⚠ Remove any soiling from the control panel and from the front of the dishwasher straight away.
Soiling that is left too long might become impossible to remove and could cause external surfaces to alter or discolour.

⚠ All surfaces of this appliance are susceptible to scratching.
Contact with unsuitable cleaning agents can alter or discolour the external surfaces.

Cleaning the control panel

■ Clean the control panel with a clean sponge and a solution of warm water and washing-up liquid, or with a clean damp microfibre cloth. Then dry the control panel with a soft cloth.

⚠ Do not use abrasive cleaning agents.
These can damage the control panel.

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.

To help prevent re-soiling (fingerprints etc.), a suitable stainless steel conditioner can be used after cleaning (e.g. Miele Care product for stainless steel).

⚠ Do not use cleaning agents containing ammonia or thinners.
These agents can damage the surface material.

⚠ Do not hose the dishwasher or near vicinity down to clean it, e.g. with a hose or a pressure washer.

Cleaning the wash cabinet

The wash cabinet is largely self-cleaning, provided that the correct amount of detergent is always used.

If, despite this, limescale or grease deposits build up in the cabinet, these can be removed with a proprietary dishwasher cleaner (available from Miele).

Cleaning and care

Cleaning the door and the door seal

■ Wipe the door seal and the area beneath the door regularly with a damp cloth to remove food deposits.

■ Wipe away any spillages of food and drink from the sides of the dishwasher and from the hinges.

■ With freestanding dishwashers that have a plinth facing, please remove spillages of food and drink from the channel that runs below the door.

⚠ Be careful of sharp edges when cleaning.
Danger of cutting yourself.

These surfaces are outside the wash cabinet. They are not accessed by water from the spray arms. If soiling is not removed mould can develop.

Cleaning the filters in the wash cabinet

The filter combination in the base of the wash cabinet retains coarse soil from the suds solution. It prevents soil from accessing the circulation system and causing blockages in the spray arms.

⚠ The dishwasher must not be used without all the filters in place.

The filters must be checked regularly and cleaned when necessary.

⚠ Caution!
Danger of injury on glass splinters.

Cleaning the coarse filter
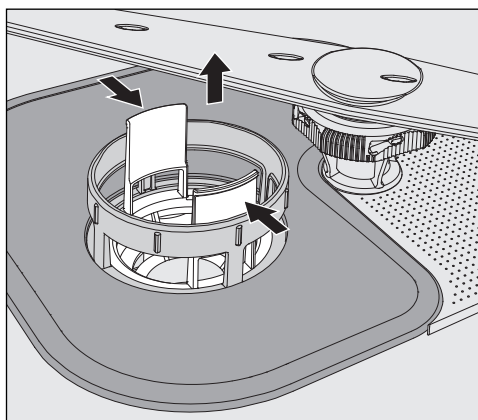
■ Press the catches towards each other and remove the coarse filter.

■ Rinse the filter thoroughly under running water. If necessary, use a soft washing-up brush to remove soiling.

■ Replace the filter making sure it engages correctly.

Cleaning the flat and micro-fine filters

■ Remove the coarse filter.
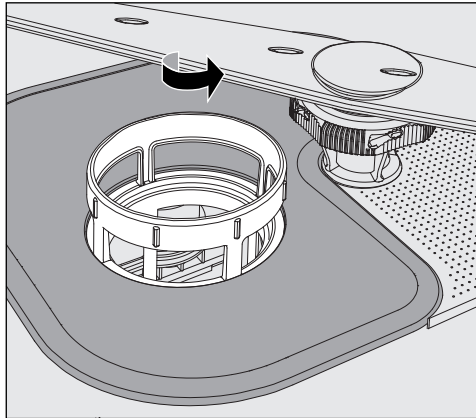
■ Grasp the micro-fine filter by the upper rim and turn it in the direction of the arrow to release it.
Then lift it out.
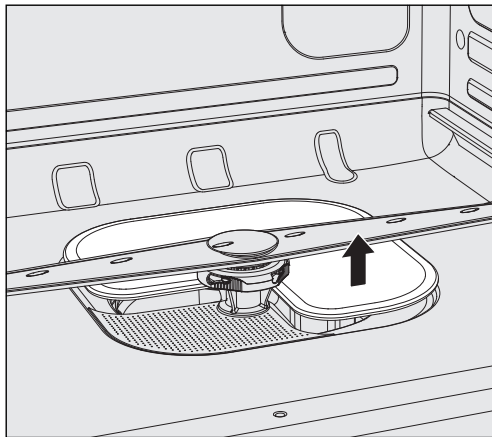
■ Remove the flat filter.

■ Rinse the filters thoroughly under running water. If necessary, use a soft washing-up brush to remove soiling.

Replace the filter combination in the reverse order, turning the micro-fine filter to the left to re-engage it.
The flat filter must lie flat in the bottom of the wash cabinet.

> The spray arms will get blocked if the filters are not replaced correctly.

Cleaning the spray arms

This dishwasher has three different spray arms.

Particles of food can get stuck in the spray arm jets and bearings. The spray arms should therefore be inspected and cleaned regularly.

■ Switch the dishwasher off.

■ Pull the **upper spray arm** downwards to remove it.

> The middle and bottom spray arms are secured with a bayonet fitting.
>
> The bayonet fitting on the lower spray arm is coloured yellow so that it cannot get mistaken for the fitting on the middle spray arm.

To release the bayonet fitting proceed as follows:

■ Using the knurled nut, turn the **middle spray arm** to the left as far as it will go and then pull the spray arm downwards to remove it.

■ Remove the lower basket.
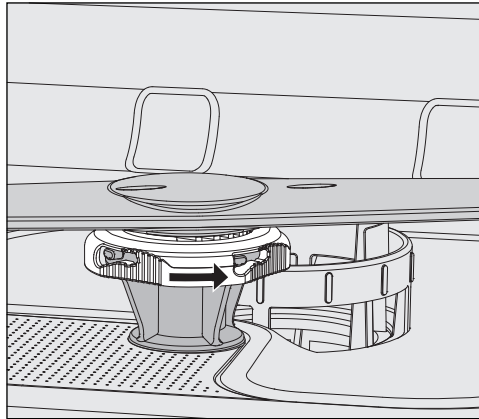
■ Using the knurled nut, turn the **lower spray arm** in the direction of the arrow as far as it will go and then pull the spray arm upwards to remove it.
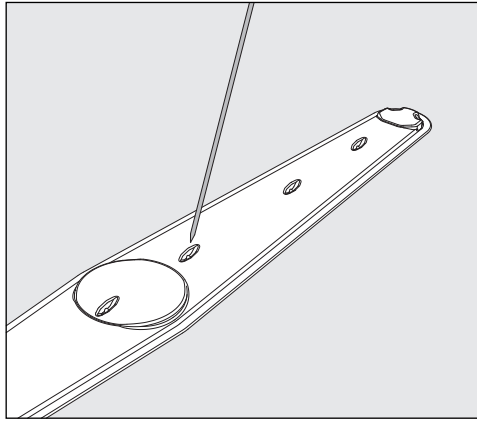
■ Use a pointed object to push food particles into the spray arm jets.

■ Rinse the spray arms thoroughly under running water.

Refit the spray arms and check that they rotate freely.

Make sure that the spray arm with the yellow bayonet fitting is fitted in the bottom of the wash cabinet.

Problem solving guide

With the aid of the following guide, most minor problems can be corrected without contacting Miele. In many cases this will save you time and money because you won't need to book a service technician.

Please note that a call-out charge will be applied to unnecessary service visits where the problem could have been rectified as described in these operating instructions. Please note:

⚠ Repairs must only be carried out by the Miele Professional Service, a Miele authorised service agent or a suitably qualified technician in accordance with local and national safety regulations. Unauthorised or incorrect repairs could be dangerous and cause injury or damage to the appliance.

Faults with water intake or drainage

Problem	Possible cause and remedy
When the dishwasher is switched on with the ⏻ button, the display stays dark and the Start/Stop indicator does not flash.	The dishwasher is not plugged in. ■ Insert the plug and switch on at the socket.
	The circuit breaker is defective or has tripped. ■ Reset or replace the circuit breaker (see data plate for minimum fuse rating).
The dishwasher stops during a programme.	The circuit breaker is defective or has tripped. ■ Reset or replace the circuit breaker (see data plate for minimum fuse rating). ■ If the circuit breaker trips again, contact Miele Professional Service.
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. In the case of an interruption to the power supply of ≥ 20 hours, the entire programme will be repeated.
One of the following messages appears in the display:	Before rectifying the problem, you must: ■ Switch the dishwasher off with the ⏻ button.
Check water inlet	The water intake is restricted. ■ Turn on the tap fully. ■ Clean the filter in the water inlet (see "Maintenance, Cleaning the filters in the water inlet").

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 dishwasher off with the ⏻ button.

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

■ Start the previously selected programme again.

If the same error message appears again:

■ Make a note of the error message.

■ Switch the dishwasher off with the ⏻ button.

■ Contact the Miele Customer Service Department.

Please also read the notes regarding the following fault codes.

Problem	Possible cause and remedy
Fault 403-405	If Check water inlet appears in the display, the control unit is checking the water intake approx. every 30 seconds. If, after three attempts, water is not getting into the dishwasher, one of these fault numbers will appear in the display and the programme will be cancelled. ■ Turn on the tap fully. ■ Switch the dishwasher back on. ■ Select the required programme. ■ Press the *Start/Stop* button.
Fault 406-408	Water inlet fault. If the flow pressure is too low, one of these numbers will appear in the display and the program will be cancelled. ■ The flow pressure at the water intake point is too low (see "Technical data"). Contact Miele Professional Service for advice.
Fault 412-414	Water inlet fault. If the flow pressure is too high, one of these numbers will appear in the display and the program will be cancelled. ■ The flow pressure at the water intake point is too high (see "Technical data"). Contact Miele Professional Service for advice.
Check drainage	The water outlet is restricted. There might be water in the wash cabinet. ■ Clean the filter combination (see "Cleaning and care"). ■ Clean the drain pump (see "Maintenance"). ■ Clean the non-return valve (see "Maintenance"). ■ Remove any kink or loop in the drain hose.

Problem solving guide

Problem	Possible cause and remedy
Fault 433	The door was obstructed when closing and cannot be drawn into the final closed position. ■ Remove the obstruction from the vicinity of the door.
Fault 438	Heavy objects in front of the dishwasher can impede the automatic opening of the door by the Comfort lock. ■ Do not place heavy objects in front of the door of the dishwasher.
Fault 492, 504, 541	The programme has not started properly. There might be water in the wash cabinet. ■ Clean the filter combination (see "Cleaning and care"). ■ Clean the non-return valve (see "Maintenance").
Fault 550	The Waterproof system has reacted. ■ Turn off the tap. ■ Call Miele Professional Service.
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.
Fault XXX **(XXX stands for a number)**	There may be a technical fault. After 10 seconds: ■ Switch the dishwasher back on. ■ Select the required programme. ■ Press the *Start*/*Stop* button. If the fault message appears again, there is a technical fault. ■ Call Miele Professional Service.

Door

Problem	Possible cause and remedy
The door opens again after being closed.	If too much force is used when closing the door, the Comfort door locking mechanism will reopen the door. ■ Close the door with less momentum.
Door blocked	A protruding wash load item is obstructing the door. ■ Sort the wash load so that that it does not obstruct the door. ■ Close the door.
	The Comfort door lock is blocked. ■ Try to open the door carefully (without using force) by pulling on the door handle. If the door is still blocked: ■ Open the door using the emergency release. ■ Close the door and try to open it again using the ⚬╼ button. If it is still blocked: ■ Contact Miele Professional Service.
Warning. Cabinet hot! Open anyway?	When pressing the ⚬╼ button, be aware that the temperature in the wash cabinet may be over 70 °C. ⚠ When the door is opened, hot steam and chemical agents may escape! ■ Open the door only when strictly necessary.
The door is open a fraction and cannot be closed using the ⚬╼ button.	This is not a fault. The Comfort door lock has opened the door slightly at the end of the programme. ■ Open the door. It can now be closed completely again using the ⚬╼ button.
Obstruction sensor	This is not a fault. The door is locked while the door locking mechanism retracts to the lock position. ■ Open the door and wait until the door locking mechanism reaches its final position.

Problem solving guide

General problems with the dishwasher

Problem	Possible cause and remedy
The dishwasher fails to react when buttons are pressed. The display and indicator lights remain dark.	The dishwasher has switched itself off after the set "switch off after" period to save energy. ■ Press the ⏻ button to switch the dishwasher back on.
The following fault message appears in the display: Salt container lid not correctly closed	The salt reservoir lid is not closed properly. ■ Close the salt reservoir lid.
The detergent dispenser lid cannot be closed properly.	Residual cleaning agent is blocking the catch. ■ Remove the cleaning agent.
At the end of a programme there is a film of moisture on the inside of the door and the interior walls.	This is not a fault. It is caused by the drying system. The moisture will dissipate after a short while.
Water remains in the wash cabinet at the end of a programme. (This does not apply to the Super short programme)	Before rectifying the problem, you must: ■ Switch the dishwasher off with the ⏻ button.
	The filter combination in the wash cabinet is clogged. ■ Clean the filter combination (see "Cleaning and care").
	The drain pump or non-return valve are blocked. ■ Clean the drain pump or the non-return valve (see "Maintenance").
	The drain hose is kinked. ■ Remove any kink from the drain hose.
	The on-site drain siphon is blocked. ■ Check and clean the drain siphon.
Peak load cut-out	This is not a fault. Your energy management system has detected a peak load in the energy supply. Some components in the dishwasher stop operating for the duration of the peak load cut-out.

Noises

Problem	Possible cause and remedy
Knocking noise in the wash cabinet.	A spray arm is knocking against an item in a basket. ■ Interrupt the programme and rearrange the items which are obstructing the spray arm.
Rattling noise in the wash cabinet.	Items of crockery are insecure in the wash cabinet. ■ Interrupt the programme and rearrange the load.
	A foreign object (e.g. a cherry stone) has become lodged in the drain pump. ■ Remove the foreign object from the drain pump (see "Maintenance - Cleaning the drain pump and non-return valve").
Knocking noise in the water pipes.	This may be caused by the on-site installation or the cross-section of the piping. However, this will not affect the functioning of the dishwasher in any way. ■ If in doubt, contact a suitably qualified plumber.

Problem solving guide

Unsatisfactory cleaning result

Problem	Possible cause and remedy
The dishes are not clean.	The dishes were not loaded correctly. ■ Please observe the instructions in "Guide to the appliance", "Preparing the load".
	The programme selected was not suitable for the load. ■ Select a more suitable programme (see "Programme chart").
	Not enough detergent was dispensed. ■ Increase the dosage.
	The detergent used is not suitable for the type of soiling present. ■ Change your detergent.
	Items are blocking the path of the spray arms. ■ Rearrange the items so that the spray arms can rotate freely.
	The filter combination in the base of the wash cabinet is not clean or is not correctly fitted. This may have caused the spray arm jets to get blocked. ■ Clean and/or fit the filter combination correctly. ■ Clean the spray arm jets if necessary (see "Cleaning and care").
	The non-return valve is open and blocked. Dirty water has flowed back into the wash cabinet. ■ Clean the drain pump and the non-return valve (see "Maintenance").
	If necessary alter the temperature and/or the holding time for the programme being used. ■ Change the relevant parameters for the programme (see "Further settings, Additional functions").
Smearing appears on glassware and cutlery. There is a bluish sheen on the surface of glassware; film can be wiped off.	The rinsing agent dosage is set too high. ■ Reduce the dosage (see "Further settings, Additional functions, Dispensing systems").
Dishes are not dry or cutlery and glasses are flecked.	The amount of rinsing agent may be insufficient, or the rinsing agent reservoir is empty. ■ Replenish the rinsing agent, increase the dosage or change the brand of rinsing agent used (see "Adding rinsing agent").

Problem	Possible cause and remedy
White residue is visible on crockery. Clouding occurs on glassware and cutlery; film can be wiped off.	Not enough rinsing agent was added. ■ Increase the dosage (see "Further settings, Additional functions, Dispensing system").
	There is no salt in the salt reservoir. ■ Fill the salt reservoir (see "Filling the salt reservoir").
	The water softener is programmed too low for the water hardness level. ■ Programme the water softener to the correct value (see "Further settings, Water hardness").
Glassware has a brown or blue tinge, and film cannot be wiped off.	This is caused by ingredients in the cleaning agent. ■ Change your detergent.
Glassware is dull and discoloured; film cannot be wiped off.	The glassware is not dishwasher-proof. The surfaces are affected. ■ Purchase glassware which is dishwasher-proof.
Tea or lipstick stains have not been completely removed.	The wash temperature of the selected programme was too low. ■ Select a programme with a higher wash temperature.
	The bleaching effect of the detergent used is too low. ■ Change your detergent.
Plastic items are discoloured.	Natural dyes, e.g. from carrots or tomatoes may be the cause. The amount of detergent used or its bleaching effect was not sufficient to deal with natural dyes. ■ Use more cleaning agent (see "Operation, Adding detergent"). Discoloured plastic items will not regain their original colour.
There are rust stains on cutlery.	The "Cold" programme was not run after dishwasher salt was added. Traces of salt have got into the wash cycle. ■ Always run the "Cold" programme without a load after refilling salt.
	The affected items are not corrosion resistant. Purchase cutlery which is dishwasher-proof.

Cleaning the water inlet filter

A filter is incorporated in the screw connection of the valve on the water inlet hose. The filter must be cleaned when dirty, otherwise insufficient water flows into the wash cabinet.

> ⚠ The plastic housing of the water connection contains an electrical component.
> The housing must not be dipped in water.

Recommendation

If the mains water contains a large amount of insoluble substances, we recommend fitting a large-area filter in the connection between the separately supplied non-return valve that is connected to the tap and the water inlet hose threaded union. This filter is available from Miele.

Cleaning the filter:
- Disconnect the dishwasher from the mains supply. Switch off at the mains socket and withdraw the plug.

- Turn off the tap.

- Unscrew the inlet hose.
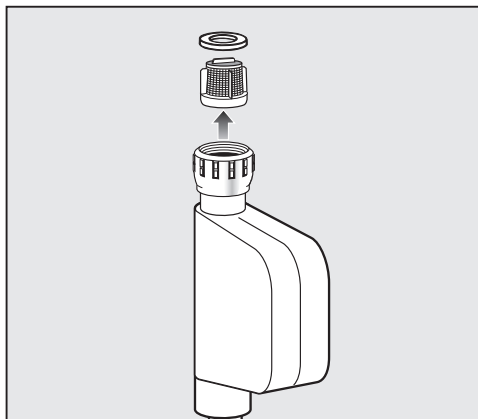
- Carefully remove the washer.

- Withdraw the filter using pointed pliers and rinse clean under running water.

- Replace the filter and washer, making sure they are sitting correctly.

- Reconnect the inlet hose, making sure it goes on correctly and is not cross-threaded.

- Turn on the tap.

If water leaks out, the inlet hose may not be connected securely or it may have been screwed on at an angle.

- Unscrew and reconnect the inlet hose correctly.

> For Australia and New Zealand a non-return valve is required between the tap and filter.

Cleaning the drain pump and non-return valve

If the water has not been pumped away at the end of a programme (excluding the Super short programme), there may be a foreign object in the drain pump or blocking the non-return valve. These are easy to remove.

■ Disconnect the dishwasher from the mains (switch the dishwasher off, unplug it, or disconnect or disable the fuse).

■ Take the filter combination out of the wash cabinet (see "Cleaning and care").
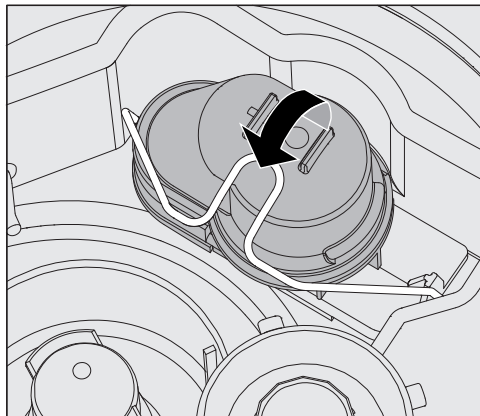
■ Lift the locking clamp.

■ 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.

Maintenance

The drain pump is situated under the non-return valve. (arrow)
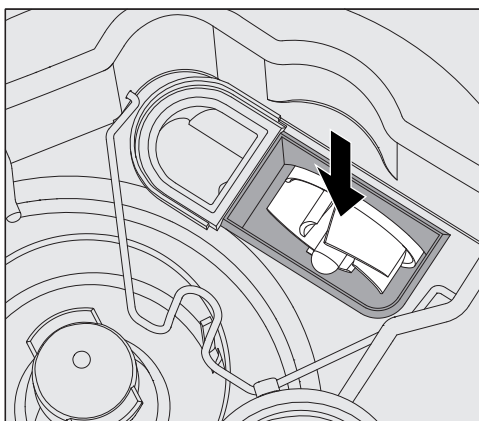
■ Check the area around the drain pump for foreign objects (watch out for glass splinters which could cause injury) and remove them before replacing the non-return valve.

■ Carefully replace the non-return valve and secure it with the clamp.

Miele Professional Service

If, despite following the instructions in this manual, you are unable to rectify a problem please contact Miele Professional Service, quoting the fault code shown in the display.

> Contact details for Miele Professional Service can be found at the back of this manual.

■ When contacting Miele please quote the fault code as well as the model number of your dishwasher together with the 8 digit machine number.

> The model number and the machine number are both shown on the data plate, located at the top of the door.

Programme chart

Programme	Use	Powder cleaning agent (when **no** liquid detergent dispensing is used)
		The following dosages are based on Miele cleaning agents. **Please follow manufacturer's instructions on dosage**
Short	"Quick programme" for lightly soiled crockery with fresh, easily removed food residues.	20 - 25 g or 1 tab in the cleaning agent dispenser
Universal	For normally soiled crockery.	20 - 25 g or 1 tab in the cleaning agent dispenser
Intensive	For heavily soiled crockery.	20 - 25 g or 1 tab in the cleaning agent dispenser
Super short	"Quick programme" for lightly soiled crockery that is in continual use and that has fresh, easily removed food residues.	20 - 25 g **placed on the inside of the door**
Hygiene plus	For items that need to be hygienically clean.	20 - 25 g or 1 tab in the cleaning agent dispenser
♉ Glasses	Special glassware programme.	20 - 25 g or 1 tab in the cleaning agent dispenser
♉ Beer glasses	Special programme for beer glasses. The glasses do not dry through their own heat after the programme has ended and may have to be dried by hand.	20 - 25 g or 1 tab in the cleaning agent dispenser
Utensils	Special programme for cutlery.	20 - 25 g or 1 tab in the cleaning agent dispenser

Programme sequence						
1. Pre-wash	2. Pre-wash	3. Main wash (1) / (2)	4. Interim rinse	5. Interim rinse	6. Final rinse (1) / (2)	7. Drying
X		X 66 °C 1 min		(X)	X 85 °C 1 min	(X)
X		X 66 °C 1 min	X	(X)	X 85 °C 1 min	(X)
X	X	X 66 °C 3 min	X	(X)	X 85 °C 1 min	(X)
		X 55 °C 30 s		(X)	X *) 55 °C 30 s	
X		X 60 °C 3 min	X	(X)	X 83 °C 5 min	(X)
		X 50 °C 1 min	X	(X)	X 50 °C 1 min	(X)
		X 50 °C 1 min	X	(X)	X - (3) 1 min	(X)
	X	X 60 °C 2 min	X	(X)	X 55 °C 1 min	(X)

*) Important note for the Super short programme.
With the Super short programme water from the final rinse is not pumped away at the end of the programme. It will be used as the cleaning water for the main wash cycle in the next Super short programme.
If the water temperature drops below 40 °C or if another programme is started, this water will be automatically pumped away when the programme starts.

X = Sections included in a programme
(X) = Optional sections which can be selected (see "Further settings, Additional functions")

(1) Temperature range 30 - 85 °C (see "Further settings, Additional functions").
In the Super short programme, the temperature can only be increased to a maximum of 70 °C.
(2) Holding time ranges from 0 - 10 minutes (see "Further settings, Additional functions")
Holding time range in the Super short programme is 0 - 300 seconds.
(3) Runs with cold water and without rinsing agent.

Programme chart

Programme	Use	Powder cleaning agent (when **no** liquid detergent dispensing is used)
		The following dosages are based on Miele cleaning agents. **Please follow manufacturer's instructions on dosage**
Plastics	Special programme for plastic items and other lightweight items.	20 - 25 g or 1 tab in the cleaning agent dispenser
Energy save	This programme is the most efficient in terms of its combined energy and water consumption for cleaning normally soiled crockery.	20 - 25 g or 1 tab in the cleaning agent dispenser
⇄ Reactivation	Manual reactivation. This can be run to avoid being forced to run a reactivation programme during busy periods.	
Cold	Use for rinsing heavily soiled items and to prevent soiling from drying on. Also used for flushing salt out of the wash cabinet after refilling the salt reservoir.	
Drain	For pumping away the rinse water when, for example, the water for the Super short programme needs to be renewed or the programme has been aborted.	

Programme sequence						
1. Pre-wash	2. Pre-wash	3. Main wash (1) / (2)	4. Interim rinse	5. Interim rinse	6. Final rinse (1) / (2)	7. Drying
X		X 50 °C 5 min	X	(X)	X 60 °C 1 min	(X)
		X 46 °C 10 min	X	(X)	X 50 °C 2 min	(X)
Reactivation sequence			X			
	X					

X = Sections included in a programme
(X) = Optional sections which can be selected (see "Further settings, Additional functions")

(1) Temperature range 30 - 85 °C (see "Further settings, Additional functions").
(2) Holding time ranges from 0 - 10 minutes (see "Further settings, Additional functions")

Installation

> ⚠ In order to reduce the risk of damage from condensation, the furniture in the area around the dishwasher should be designed for commercial use.

The dishwasher must be installed in a secure and level position. Any unevenness in the floor level and height of the machine can be compensated for by adjusting the four feet.

If the dishwasher is to be installed next to other appliances or furniture or in a niche, make sure the space provided is at least 600 mm wide and 600 mm deep.

Built-under

> ⚠ To ensure the stability of built-under dishwashers, they must only be installed beneath a continuous worktop that is bolted to the adjacent cabinetry.

When installed under a continuous work bench please ensure that the space provided is at least 600 mm wide, 600 mm deep and 820 mm high.

> The dishwasher feet must not be unscrewed by more than 60 mm.

If the dishwasher is fitted with a lid it can be removed as follows:

- Remove both securing screws on the back of the dishwasher with a screwdriver.

- Open the door.
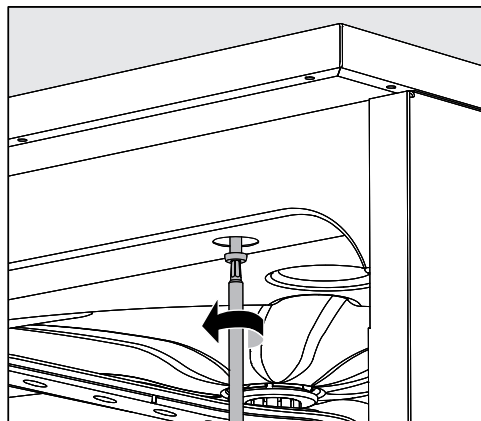
- Unscrew the left and right fixing screws with a screwdriver.

- Lift the machine lid upwards to remove.

Levelling and securing the dishwasher

To guarantee stability, the dishwasher must be secured to the worktop after levelling.
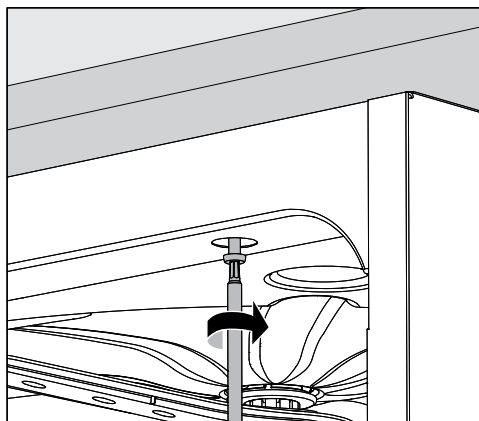
■ After levelling, secure the dishwasher to the continuous worktop. With the door open, screw into the worktop through the holes in the front trim on the left and right-hand sides of the dishwasher.
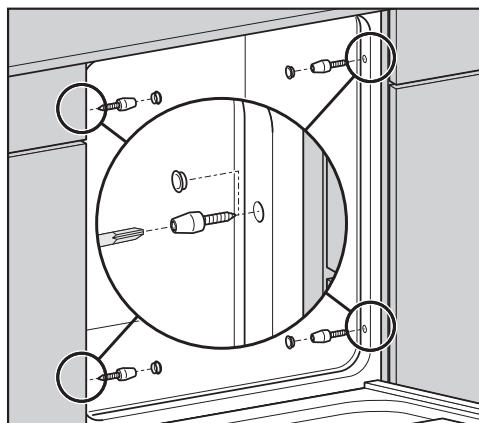
With stainless steel or stone worktops the dishwasher must be secured at the sides to the left and right adjacent cupboards with two screws on each side.
Special screws (4 x 27 / Torx T20) are supplied in the accessory pack. Holes must be drilled in the side wall in front of the door seal for this.

The gaps between built-under appliances and adjacent cabinetry must not be filled with silicone sealant as this could compromise the ventilation of the circulation pump.

Depending on the building-under situation, the stainless steel cover plate supplied can be used to protect the lower edge of the worktop against steam damage. The cover plate protects the lower edge of the worktop against steam damage.

Installation

Moving the dishwasher

Before moving the dishwasher, screw in the adjusting feet fully so that they do not get damaged.

⚠ Do not lift the dishwasher by any protruding components, e.g. the control panel.
This could break off.

⚠ Only transport the dishwasher on an upright trolley in its original packaging. For subsequent moves, the dishwasher must be placed on a continuous base to avoid damage.

Electrical connection

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

- The electrical installation must comply with the current local and national safety regulations.

- The connection to the power supply must comply with national regulations (plug and socket must be accessible for service and maintenance work after the machine has been installed). An electrical safety test must be carried out after installation and after any service work.

- If the dishwasher is hard wired to the power supply, connection should be made via a mains switch with all-pole isolation. The mains switch must ensure a 3 mm gap between all open contacts, and must be able to be locked in the off position.

- For increased safety, it is recommended to protect the machine with a suitable residual current device (RCD) with a trip current of 30 mA.

- Equipotential bonding should be carried out if required.

- The mains cable may only be replaced by an original Miele spare part.

- For technical data see data plate or wiring diagram supplied.

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

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

The **conversion diagram** and the **data plate** are on the dishwasher or supplied with it.

Equipotential bonding connection

There is a screw connection point marked ⩔ at the back of the appliance, to which additional equipotential bonding can be connected.

Electrical connection

Peak load cut-out

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

Please contact Miele for further information.

Peak load management

In the event of a peak load cut-out, some machine components, such as the heater elements, 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 switched-off components is needed during the current programme stage, the programme duration will simply increase for the duration of the peak load.

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

```
Universal
Temperature          55 °C
Peak load cut-out
```
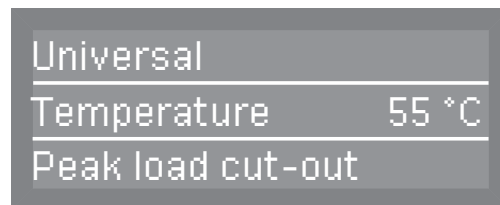
Connection to the mains water supply

> ⚠ The water in the dishwasher must not be used as drinking water.

> Do not re-use removable hose attachments. Use the hose supplied with this dishwasher.

- The dishwasher must be connected to the water supply in strict accordance with current local and national water authority regulations.

- The water used must at least comply with national regulations for drinking water quality. If the water supply has a high iron content, there is a danger of corrosion occurring on items being cleaned in the dishwasher, as well as the machine itself. If the chloride content of the water exceeds 100 mg/l, the risk of corrosion to items being cleaned in the dishwasher will be further increased.

- In certain regions (e.g. mountainous regions), the water composition may cause precipitates to form, requiring the use of softened water for the dishwasher.

- This appliance must be installed according to AS/NZS 3500.1. This appliance has been supplied with a separate backflow prevention device.

- This machine must be connected to the water supply via the nonreturn valve (dual check valve) supplied separately with the machine.
  Before making plumbing connections, ensure the appliance is disconnected from the mains power supply (switch off or unplug the power).
 - 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 water tap.
  - Connect the filter to the male end of the non-return valve.
  - Connect the inlet hose to the filter.
  Ensure that all connections are screwed into position correctly. The connection points are subject to mains water pressure. Turn on the tap slowly and check for leaks. Correct the position of the seal and union if necessary.

- The water pressure (flow pressure) must amount to at least 200 kPa overpressure (100 kPa = 1 bar). At a water pressure (flow pressure) below 200 kPa (2 bar), the water intake time extends automatically. The maximum permissible static pressure amounts to 1000 kPa (overpressure). If the water pressure does not lie in the 200-1000 kPa (2-10 bar) range, contact Miele Professional Service for advice.

- The dishwasher is supplied as standard for connection to cold water (blue coded hose) **and** hot water up to 65 °C (red coded hose). Connect the inlet hoses to the taps for cold and hot water.

Plumbing

- If there is no hot water supply available, the inlet hose coded **red** must also be connected to the cold water supply.

- Connect the inlet hose for the steam condenser (without water protection device) to a cold water tap.

- A tap with a 3/4 inch male thread must be provided on site. It should be easily accessible so that the water supply can be turned off when the dishwasher is not in use.

- The DN 10 inlet hose is approx. 1.7 m long terminating in a 3/4 inch female thread. A 1.5 m long flexible metal extension hose (tested to 140 bar / 14,000 kPa) is available as an optional accessory if required. Under no circumstances may the inlet filter or the non-return valve be removed.

- Install the filter (supplied in the accessory pack) and non-return valve (supplied separately with the machine) between the tap and the inlet hose
(see illustration in "Maintenance, Cleaning the water intake filters").
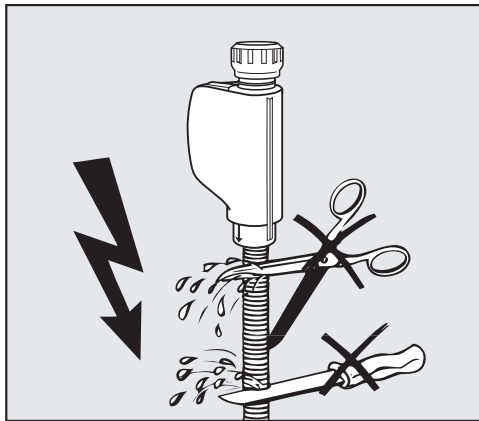
⚠ Do **not** shorten or otherwise damage the inlet hoses (see diagram).

See the installation diagram supplied.

Connecting the drain hose

- The dishwasher drainage system is fitted with a non-return valve, which prevents dirty water from flowing back into the dishwasher via the drain hose.

- The dishwasher should preferably be connected to a **separate** on-site drainage system. If no separate connection is available, we recommend connecting it to a dual-chamber siphon. The on-site connection must be between 0.3 m and 1 m in height, measured from the lower edge of the dishwasher. If the connection is lower than 0.3 m, the drain hose must be placed in an arc at least 0.3 m high.

- The dishwasher is equipped with a 1.5 m flexible drain hose with an internal diameter of 22 mm. Hose clips are supplied with the dishwasher.

- The drain hose must not be shortened. The hose can be extended using a connection piece to attach a further length of hose. The drainage length must not be longer than 4 m.

- The drainage system must be able to accommodate a minimum drainage flow of 16 l/min.

⚠ Make sure that there are no kinks in the hose, and that it is not squashed or stretched.

See the installation diagram supplied.

Technical data

Height	820 mm (adjustable + 60 mm)
Height with lid	835 mm (adjustable + 60 mm)
Width	598 mm
Depth Depth with door open	600 mm 1200 mm
Weight (net)	70 kg
Voltage, rated load, fuse rating	See data plate
Mains cable	approx. 1.7 m
Water temperature: Cold water connection Hot water connection	 max. 20 °C max. 65 °C
Static water pressure	Max. 1000 kPa excess pressure
Recommended flow pressure: Cold and hot water connection Water connection for steam condenser	 200 kPa pressure 100 kPa pressure
Minimum flow pressure: Cold water connection Hot water connection	 100 kPa pressure 40 kPa pressure
Delivery head	min. 0.3 m, max. 1.0 m
Drainage length	max. 4.0 m
Ambient temperature	5 °C to 40 °C
Relative humidity maximum linear decreasing to	 80 % for temperatures up to 31 °C 50 % for temperatures up to 40 °C
Altitude above sea level	Up to 2000 m*
Inlet hoses	approx. 1.7 m
Drain hose	approx. 1.5 m
Safety class (according to DIN EN 60529)	IP21
Noise emission values Sound power in LwA Sound pressure in LpA	Built-under dishwasher with wooden beam in front of plinth on Short programme 57 dB (A) 45 dB (A)
Test certificates awarded	EMC, VDE, radio and television suppressed
CE-mark	2006/42/EC Machine guidelines
Manufacturer's address	Miele & Cie. KG, Carl-Miele-Straße 29, 33332 Gütersloh, Germany

* If installed above 2000 m the boiling point of water will be lower. Dishwashers installed above this altitude must be modified by Miele Professional Service.

Miele

Miele Australia Pty. Ltd.
ACN 005 635 398
ABN 96 005 635 398
Melbourne:
Level 4, 141 Camberwell Road
Hawthorn East, VIC 3123
Telephone: 1300 731 411
service.prof@miele.com.au

www.miele.com.au/professional
sales@miele-professional.com.au

Miele New Zealand Limited
IRD 98 463 631
8 College Hill
Freemans Bay
Auckland 1011
New Zealand
Telephone: 0800 4 MIELE
            (0800 464 353)
www.miele.com.au/professional
sales@miele-professional.com.au

Miele Global Headquarters: Miele & Cie. KG
Carl-Miele-Straße 29, 33332 Gütersloh, Germany

CE