

# MEIKO TopLine

Washer-disinfector

## Instructions for use



**Read the instructions for use before  
using the appliance!**



Translation of the “original instructions for use”

## Contents

<b>1</b>	<b>INFORMATION ON INSTRUCTIONS FOR USE</b> .....	<b>5</b>
1.1	Product identification	5
1.2	Delivery contents	5
1.3	Related documents	6
1.4	Presentation conventions	6
1.4.1	<i>Safety symbols in the instructions</i>	7
<b>2</b>	<b>LIABILITY AND WARRANTY</b> .....	<b>7</b>
<b>3</b>	<b>SAFETY</b> .....	<b>8</b>
3.1	Intended purpose	8
3.2	Foreseeable misuse	9
3.3	Requirements for the personnel	10
3.4	Safety information	11
3.5	Electromagnetic compatibility	12
3.6	What to do in the event of an emergency	12
<b>4</b>	<b>PRODUCT DESCRIPTION</b> .....	<b>12</b>
4.1	Variants	12
4.2	Functional description	13
4.3	Overview illustration	15
4.4	Options	16
4.4.1	<i>Detergent dosing</i>	16
4.4.2	<i>Automatic door (AT)</i>	17
4.4.3	<i>Slop sink flushing with separate slop sink unit</i>	17
4.5	Holder	17
<b>5</b>	<b>TECHNICAL DATA</b> .....	<b>20</b>
5.1	EC/EU declaration of conformity	23
<b>6</b>	<b>ASSEMBLY</b> .....	<b>24</b>
<b>7</b>	<b>COMMISSIONING</b> .....	<b>24</b>
<b>8</b>	<b>OPERATION/USE</b> .....	<b>25</b>
8.1	Membrane key pad	25

8.2	Clean and disinfect care utensils (programme cycle)	26
8.2.1	<i>Clean care utensils (basic version of the appliance)</i>	28
8.2.2	<i>Cancel programme</i>	30
8.2.3	<i>Selecting the cleaning programme</i>	30
8.2.4	<i>Automatic door (AT), operation with sensor (option)</i>	31
8.2.5	<i>Automatic door (AT), operation with foot switch (option)</i>	31
8.2.6	<i>Door lock with code lock / code entry (option)</i>	32
8.3	Factory setting of the A <sub>0</sub> value	33
8.4	Select A <sub>0</sub> value	33
8.5	Replace canister	34
8.6	Perform slop sink flushing (option)	35
8.7	Wash chamber rinsing	36
8.8	Malfunctions	37
8.8.1	<i>Messages</i>	39
<b>9</b>	<b>CHANGE SERVICE LEVEL/SETTINGS.....</b>	<b>46</b>
9.1	Call service level	46
9.2	Display or change the list of service parameters	47
9.3	Ventilating the pipes	48
9.4	Set date and time	48
9.5	Set time switch for automatic programme start	49
9.6	Open door or unlock door	49
9.7	Define first text line in the error indicator	49
<b>10</b>	<b>MAINTENANCE AND CLEANING.....</b>	<b>50</b>
10.1	Maintenance	50
10.1.1	<i>"Next maintenance" sticker</i>	52
10.2	Process validation	52
10.3	Routine check	52
10.4	Daily cleaning	53
10.5	De-scaling	53
<b>11</b>	<b>BEHAVIOUR WHEN THE APPLIANCE IS NOT IN USE.....</b>	<b>54</b>
<b>12</b>	<b>DECOMMISSIONING.....</b>	<b>54</b>
<b>13</b>	<b>DISMANTLING AND DISPOSAL.....</b>	<b>54</b>
13.1	Disposal of packaging materials	54

13.2	Disposal of the old appliance	55
<b>14</b>	<b>INDEX</b> .....	<b>56</b>
<b>15</b>	<b>NOTES</b> .....	<b>58</b>

# 1 Information on instructions for use

The instructions for use are an integral part of the device and must be passed on to all subsequent owners or users.

Please read these instructions for use carefully before use. Only through understanding these instructions for use can errors be avoided and trouble-free operation of the device guaranteed. By paying attention to the instructions for use, hazards can be avoided, repair and breakdown costs reduced and the reliability and durability of the device can be increased.

Retain these instructions for use for the entire lifetime of the device. The storage location must be protected against moisture. Retain the instructions for use in a readily accessible place near the device.

Ensure that all persons who work on or with the device have read and understood the instructions for use.

The instructions for use must be available in the local language for each EU country. If this is not the case, the device must not be commissioned.

The original instructions for use in German, as well as all instructions for use in all local languages for the EU countries can be downloaded from the following address: <https://partnetnet.meiko-global.com>.

All serious incidents relating to the product must be reported to the manufacturer and the competent authority of the Member State.

## 1.1 Product identification

These instructions for use apply to the following models of appliance:

**MEIKO TopLine washer-disinfector**

## 1.2 Delivery contents

The delivery contents include:

- MEIKO TopLine washer-disinfector.
- Documentation, for details see **Related documents**.


## 1.3 Related documents


In addition to these instructions for use, there are other documents that are available depending on the authorisation:


Operator (included in delivery contents)	Authorised service technician
EC/EU declaration of conformity	Installation instructions
Brief instructions for use	Service instructions
Specific positioning of care utensils	Installation and operational qualification
Wiring diagram	

## 1.4 Presentation conventions

### Warnings

 **DANGER** – indicates an imminently hazardous situation which, if not avoided, will result in serious injury or death.

 **WARNING** – indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.

 **CAUTION** – indicates a possible hazardous situation which, if not avoided, could result in minor or moderate injury or damage to property.

### Notices on use






**Note** – indicates useful and important information about the product or its use.

### Notes on using the document:

- A bullet point (•) designates an action step.
- Numerals (1.) designate several action steps that must be executed in the specified sequence.
- Position numbers in the text that refer to position numbers in illustrations are shown in parentheses:  
(1) Position number 1 in the illustration
- The text is always below the illustration and refers to it until a new image follows.

### 1.4.1 Safety symbols in the instructions

Symbol	Meaning
	Warning of hazardous areas
	Read instructions for use
	Disconnect before servicing or repair

## 2 Liability and warranty

All of the manufacturer's obligations arise from the relevant purchase contract, which also contains the entire and only valid guarantee provisions. These contractually guaranteed provisions shall be neither extended nor restricted as a result of any explanations given in the instructions.

If you follow these operating instructions for use, your washer-disinfector will always work to your complete satisfaction and have a long service life.

The delivered device corresponds to the state of technology and safety regulations valid at the time of production/delivery.

The information, data and notes specified in the instructions for use correspond to the latest version at the time of printing. No claims for already delivered systems may be asserted based on these statements, illustrations and descriptions.

Claims must be reported to the manufacturers immediately after determination of the defect or error. Liability claims for personal injury or material damage as well as for operational problems are excluded if they are due to one or more of the following causes:

- Unintended use.
- Improper assembly, commissioning, operation or maintenance.
- Operation of the machine or system with defective safety devices or improperly attached or non-functioning safety or protective devices.
- Noncompliance with the notes in the instructions for use regarding transport, storage, assembly, commissioning, operation and maintenance.
- Unauthorised design changes or settings on the machine or system beyond the intended purpose.

- Improper monitoring of parts subject to wear.
- Use of wear and spare parts that are not from the manufacturers.
- Improperly performed repairs, inspections or maintenance.
- Catastrophes due to human-induced events or force majeure.

## 3 Safety

### 3.1 Intended purpose

The washer-disinfector is intended exclusively for commercial use and may only be applied and used according to the purpose intended. Any other use, modifications and alterations are not permitted and can lead to personal injury and damage to property.

Only use the washer-disinfector for emptying, cleaning and disinfecting:

- Bedpans, commode buckets and their covers
- Urine bottles
- Hospital containers, e.g. bowls, urine collecting containers
- Suction bottles
- Similar products as listed above, used for similar purposes.

It is intended that the washer-disinfector is only operated by qualified, trained personnel, older than 14 years of age. Detailing the user group and their qualifications, see page 10.

Environment where the appliance is used:

- Preferably non-sterile utility rooms.
- Appliances for installation in ensuite bathrooms of patient rooms in an enclosed space.

Only use rinse/water softening agents and detergents in our washer-disinfectors for which MEIKO have given their written approval.

Approved products:

- Rinse aid/water softener: Doyen SK 22 E / SK 33 E
- Detergent: Doyen R 100 / RS 120

Note dosing agent warnings (see accompanying safety data sheets).



## 3.2 Foreseeable misuse

Any use which is not detailed in the section on "Intended purpose" is contrary to the intended use!

List of foreseeable misuses:

- Emptying of care utensils, although the holder is still equipped with freshly disinfected care utensils.
- Inserting care utensils incorrectly.
- Insertion of unsuitable utensils and objects (tableware).
- Disinfection of objects for which a different method of preparation is stipulated e.g. instruments.
- Heating objects or keeping them warm (hot water bottles, pre-packaged food, etc.)
- Used for rubbish disposal e.g. garbage, nappies (diapers), disposable gloves, syringes etc.). This also applies to excessive volumes of cellulose and disposable care utensils.
- Activating the controls with pointed or sharp objects.
- Operation by untrained persons.
- Use of incorrect or non-approved process chemicals.
- Installing the canisters of process chemicals (rinse aid/water softener) at an angle after the system warned that the chemicals had run out (consequence: the appliance operates without chemicals and lime scale can be deposited).
- Filling the process chemical canisters with different liquid.
- Failure to observe the specified maintenance cycles.
- Use of the wash chamber door as a ladder or seat.

### 3.3 Requirements for the personnel

- Make sure that only trained and experienced staff operate the washer-disinfector.
- Personnel who have not been briefed or trained may not handle the washer-disinfector.
- Make sure that staff learning to use the washer-disinfector are supervised by a trained and experienced operator at all times.
- Clearly define the staff's responsibilities.
- Confirm training in writing.

<b>Persons</b>	<b>Experi- enced staff</b>	<b>Instructed in-house technician</b>	<b>Authorised in-house technicians/fitters (Medical Products Ad- visor)</b>
<b>Activity</b>			
Installation/assem- bly			✓
Commissioning			✓
Operation, use	✓	✓	✓
Cleaning	✓	✓	✓
Checking safety de- vices		✓	✓
Troubleshooting		✓	✓
Troubleshooting, mechanical		✓	✓
Troubleshooting, electrical			✓
Maintenance			✓
Repairs			✓

### 3.4 Safety information

- Only use the washer-disinfector according to instructions (see page 8).
- Only use the washer-disinfector in its original condition without independent changes and in a technically perfect condition.
- The electrical safety of this machine is only ensured if it is connected to a system with a properly installed protective earth conductor system. It is very important to verify this fundamental safety feature. If in doubt, have the local wiring checked by an electrician. The manufacturer cannot be held liable for damage caused due to the protective earth conductor being missing or disconnected (e.g. electric shock).
- The washer-disinfector does not generate targeted non-ionizing radiation. For technical reasons, only the electric appliances emit non-ionizing radiation. In the immediate vicinity of the washer-disinfector, the influence of active implants (e.g. cardiac pacemakers, defibrillators) can be ruled out with a high degree of probability.
- Before opening the inspection door, make sure the appliance has been disconnected from the power supply and secured so that it cannot be turned on again; this also applies to other work on the appliance.
- Do not place the washer-disinfector in a potentially explosive atmosphere or in areas subject to frost.
- If the washer-disinfector is damaged or leaking, this may be dangerous and pose a safety hazard. Immediately decommission the washer-disinfector and inform the MEIKO service.
- The water in the wash chamber and in the water container is NOT safe to drink.
- Take care when handling dosing agents (water softeners/rinsing aids and detergents). They are corrosive substances. Observe the applicable safety regulations! Use safety eyewear and protective gloves. Observe the manufacturer's safety instructions and safety data sheets when dealing with dosing agents.
- Do not sit or stand on the opened wash chamber door. This could damage the washer-disinfector and cause injury.
- Keep the instructions for use legible and complete on the washer-disinfector.
- Make sure that the instructions for use are available to anyone operating the washer-disinfector.
- Observe the instructions for use for accessories and integrated third-party components.
- Do not put any objects on the washer-disinfector.
- Observe the installation conditions (see page 20).

### 3.5 Electromagnetic compatibility

- MEIKO washer-disinfectors, built according to the standard CISPR 11:2009 Section 5, are class A appliances.

The following applies for these appliances:

**Warning:**

**This appliance may cause radio interference or may interfere with the operation of appliances in the vicinity. It may be necessary to take appropriate remedial action, such as realigning, rearranging or shielding.**

- MEIKO washer-disinfectors with additional mains filter, built according to the standard CISPR 11:2009 Section 5, are class B appliances. No further actions are required for these appliances.

### 3.6 What to do in the event of an emergency



- In dangerous situations, disconnect from the power supply using the locally available mains isolator.

## 4 Product description

### 4.1 Variants

The washer-disinfector is available in the following models:

- MEIKO TopLine 10 (wall-mounted)
- MEIKO TopLine 20 (standing)
- MEIKO TopLine 30 (wall installation)
- MEIKO TopLine 40/40E (undercounter)

Equipment variants:

- DT-NDV: Centralised thermal disinfection with fitted low-pressure steam generator
- DT-NDD: Centralised thermal disinfection with building's installed low-pressure steam

All models are available for different operating voltages.

Other possible additional equipment:

- Dispenser for liquid cleaner (DR), e.g. Doyen R100
- AT - Automatic door
- Slop sink flushing

## 4.2 Functional description

The washer-disinfector serves the emptying, cleaning and disinfecting of:

- Bedpans, commode buckets and their covers
- Urine bottles
- Hospital containers, e.g. bowls, urine collecting containers
- Suction bottles
- Similar products as listed above, used for similar purposes.

### Equipping the appliance

The care utensil is inserted into the holder, which is located on the inside of the wash chamber door. This makes sure that the care utensils are in the correct position for cleaning. The arrangement of the wash nozzles in the wash chamber guarantees perfect cleaning if the care utensils are positioned correctly.

When the wash chamber door is closed, the inserted containers are emptied and the care utensils are moved into the cleaning position. The wash chamber door is locked. The operator selects a cleaning programme on the membrane key pad and presses the programme start key. An automatic programme start after closing the wash chamber door can be set.

Appliances with automatic wash chamber door (option) additionally allow touch-free operation.

### Programme run

The cleaning programme includes four phases:

- Precleaning with cold water.
- Cleaning with hot water.
- Thermal disinfection of the care utensil.
- Recooling and drying of the care utensils.

### Thermal disinfection and recooling

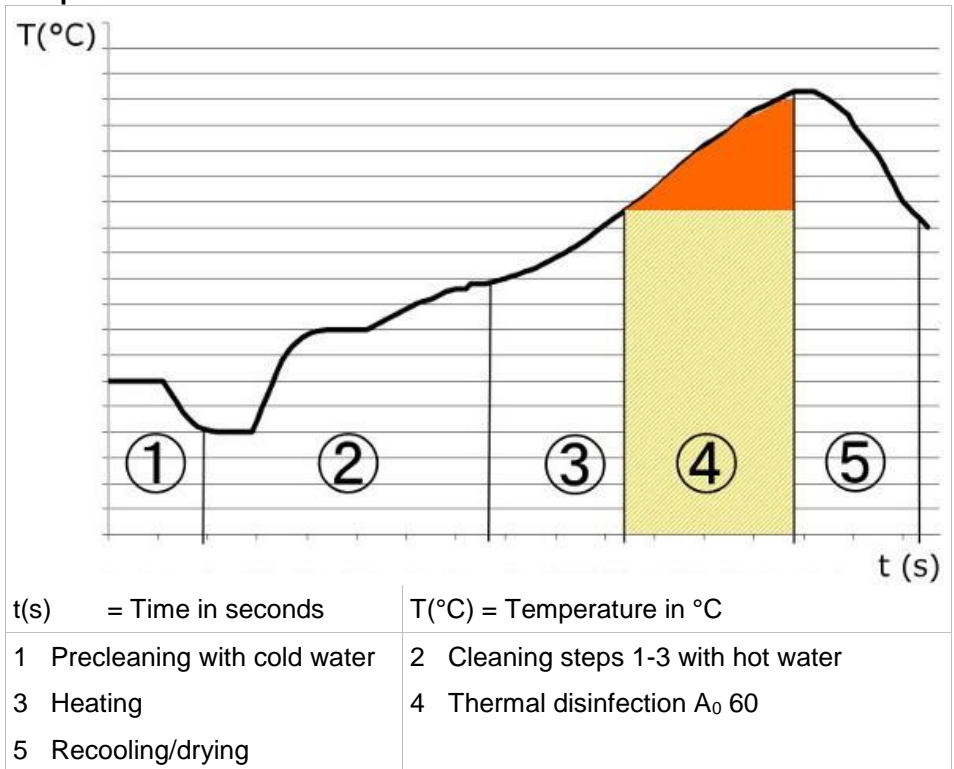
Thermal disinfection works according to the  $A_0$  process. The term  $A_0$  refers to a way of measuring (duration/temperature) how microorganisms are eliminated by moist heat disinfection methods. Thermal disinfection is fulfilled when the preset  $A_0$  value is reached on all surfaces to be disinfected.

In order to lower the temperature of the care utensils, a recooling step is carried out. In this process, the high temperature is reduced with cool, filtered air and the care utensils are dried.

At the end of the programme, the wash chamber door is unlocked. The care utensils can be removed and must be visually checked by the operator.

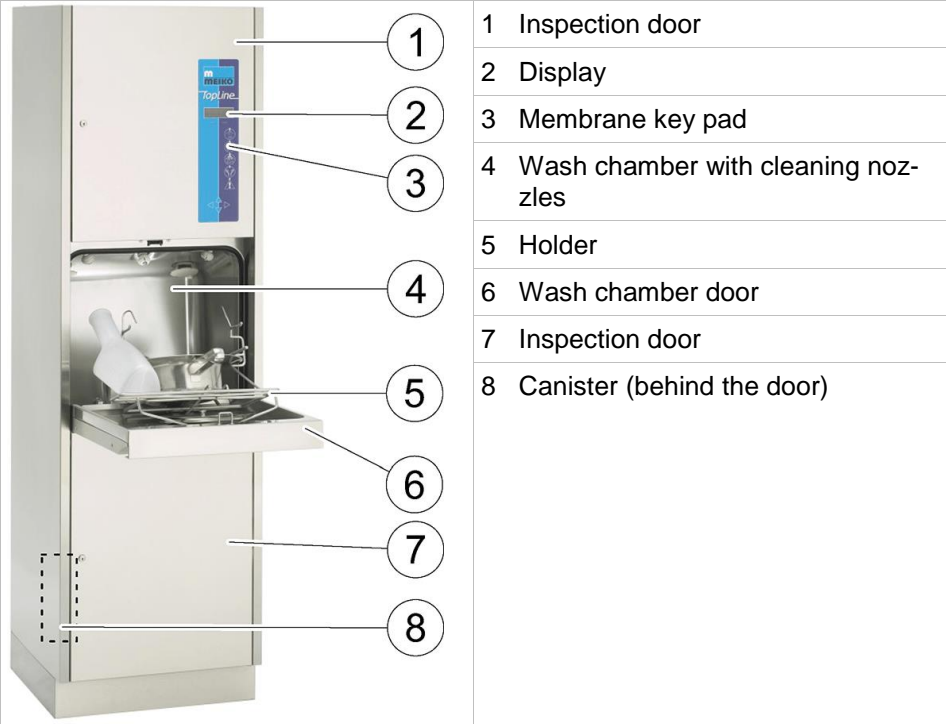
The disinfection capability complies with the capability required DIN ISO 15883 Part 3, "Requirements for and Testing of Cleaning/disinfection appliances using Thermal Disinfection for Containers for Human Excreta" which specifies a minimum  $A_0$  value of 60.

### Temperature curve of wash chamber/care utensils

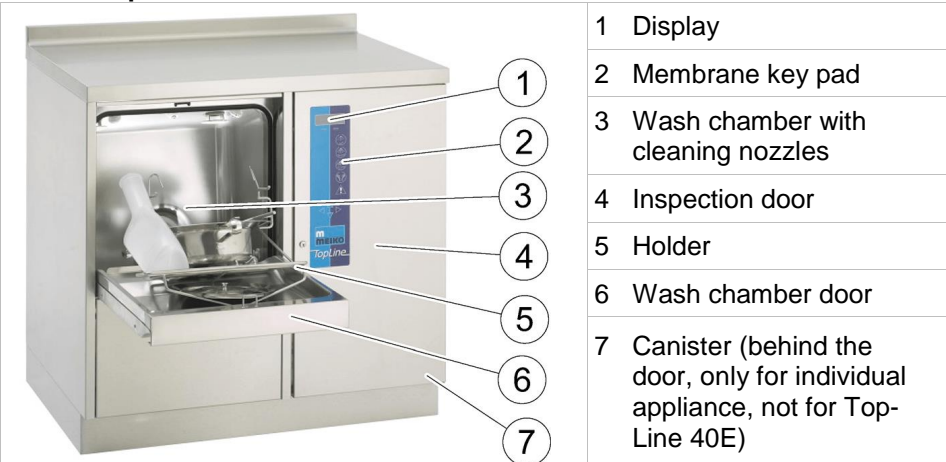


### 4.3 Overview illustration

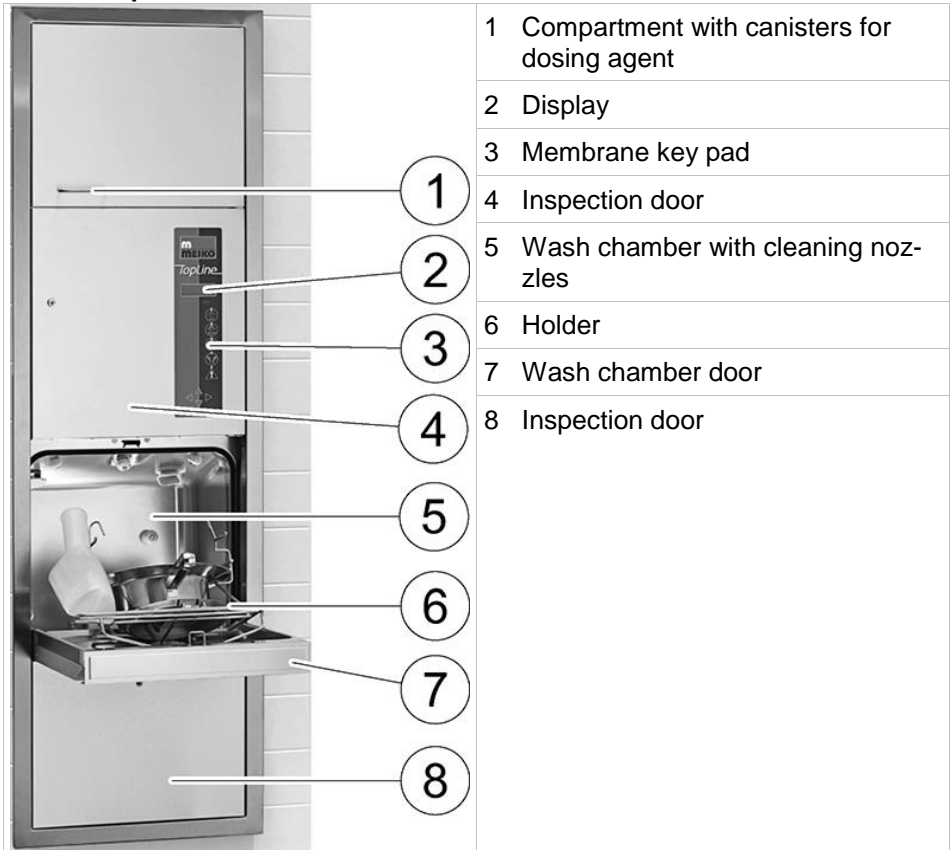
#### MEIKO TopLine 20 / TopLine 10



#### MEIKO TopLine 40



## MEIKO TopLine 30



## 4.4 Options

### 4.4.1 Detergent dosing

An additional dosage of a detergent is recommended for heavily soiled care utensils. The detergent dosing comprises a complete dosing system (suction lance, hoses, dosing monitoring and dosing unit), which is installed in the appliance.



#### 4.4.2 Automatic door (AT)



- Touchless door opening with sensor, see page 31.



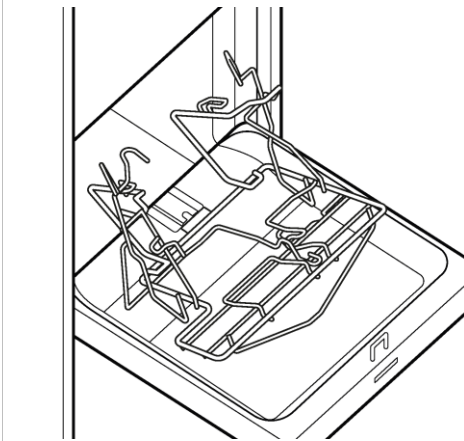
- Touchless door opening with foot switch, see page 31.

#### 4.4.3 Slop sink flushing with separate slop sink unit

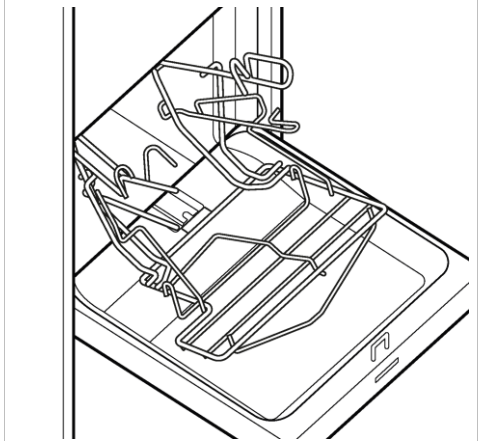
It is possible to wish a sink with the integrated pump of the washer-disinfector. The programme for slop sink flushing is started directly on the appliance, see page 35.

#### 4.5 Holder

The holder takes the care utensils and brings them into the optimal position for cleaning and disinfection.

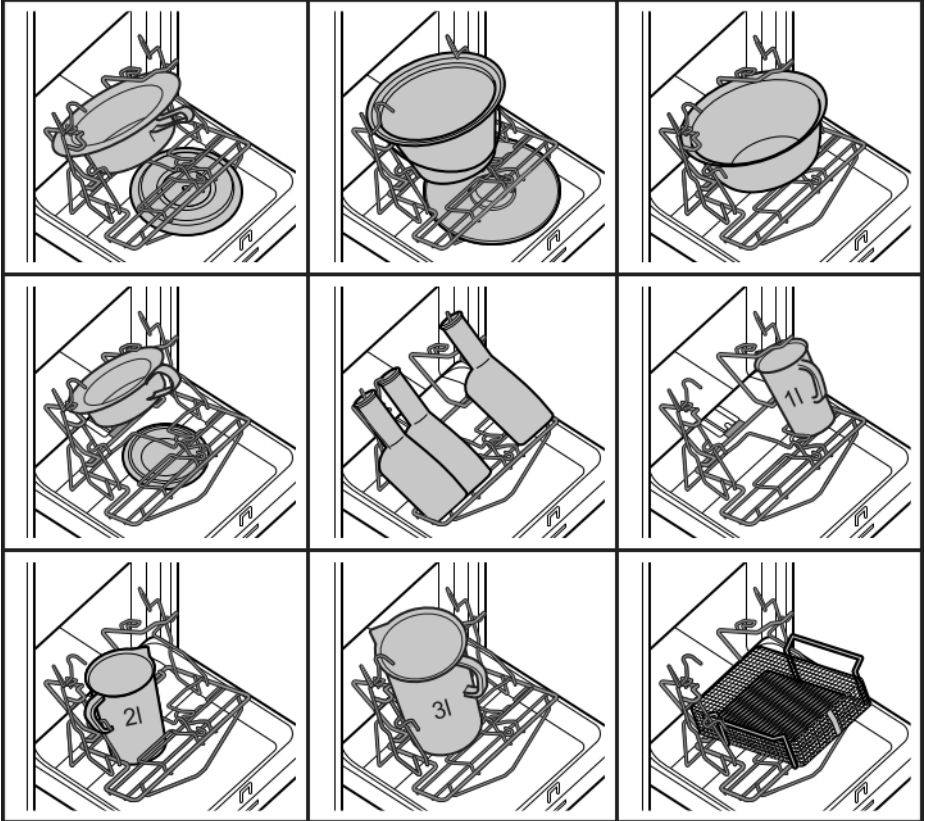


Holder SUH 1

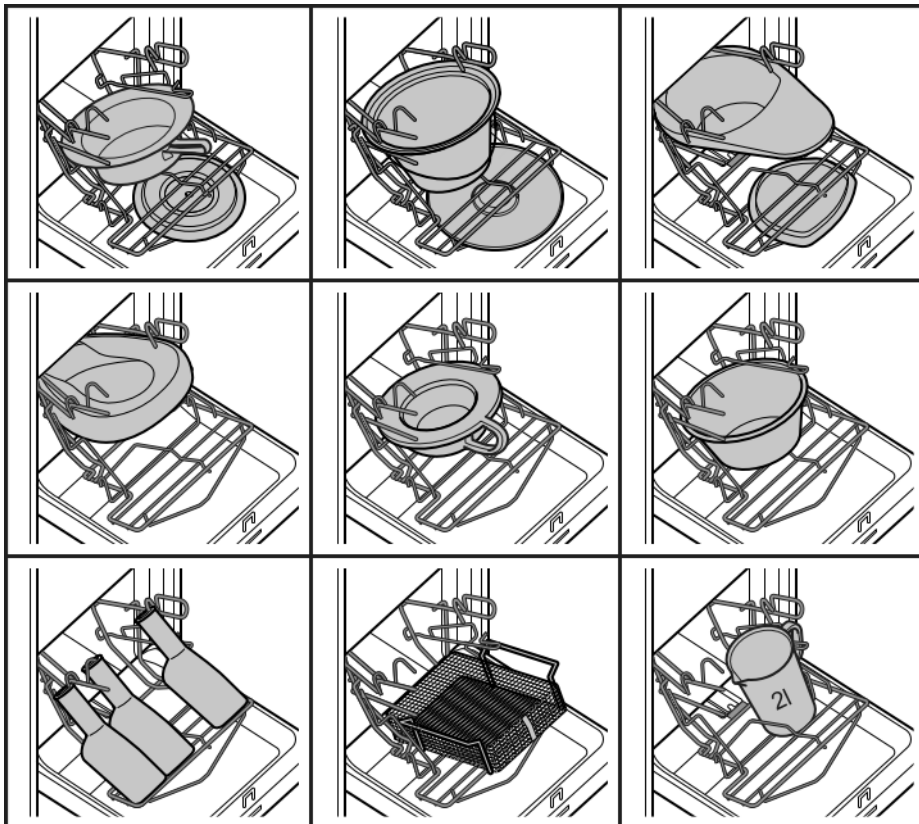


Holder SUH 2

**How to insert the care utensils in the holder SUH 1**



## How to insert the care utensils in the holder SUH 2



### Positions of special holder

- See separate care utensil image

## 5 Technical data

<b>Protection degree Protection class</b>	MEIKO TopLine 10/20/40: IP X4; TopLine 30: IP X5 Class I in accordance with VDE 0750 / IEC 601
<b>Installation conditions</b>	Max. height 2000 m above NHN, 5–40°C with max. 80% relative humidity, exclusively for indoor use, degree of soiling 2, overvoltage category 2, mains voltage tolerance $\pm 10\%$ , min. illuminance ambient light: 200 lx
<b>Fresh water supply line</b>	Air gap group A, type A according to DIN 1988 / DIN EN 1717
<b>On-site supply line</b>	DN 15 (½ inch), cold water 5-25°C, hot water 45-60°C. From a biological perspective, the fresh water must be of drinking water quality. This also applies to processed water.
<b>Water flow pressure</b>	100–500 kPa, before the solenoid valve
<b>Water flow</b>	18 l/min
<b>Boiler content DT-NDV</b>	2.1 l
<b>Steam pressure DT-NDD</b>	10–50 kPa
<b>Steam flow DT-NDD</b>	Approx. 5 kg/h
<b>Disinfection performance</b>	A <sub>0</sub> -value can be adjusted from 60–3,000
<b>Heat emission</b>	For 10 programme cycles/h: Total 0.7 kW / sensitive 0.45 kW / latent 0.25 kW
<b>Noise emission</b>	Workplace noise emissions: L <sub>pA</sub> = 48.2 dB(A) The emissions noise level at the workplace for the documented load has been determined on the basis of: DIN EN ISO 11204; precision class 3, measurement reliability $\pm 5$ dB. Level at user location: 61.2 dB(A) Level at 1 m distance from the appliance: 59.5 dB(A)

<b>Total volume of the chamber</b>	64.5 l	
<b>Net weights</b>	MEIKO TopLine 10 73 kg	MEIKO TopLine 30 LT1 with WC 34 kg, LT2 66 kg
	MEIKO TopLine 20 75 kg	MEIKO TopLine 40 75 kg (incl. base and cover)
		MEIKO TopLine 40E 50 kg (without base and cover)

<b>Dimensions [mm]</b>		<b>MEIKO TopLine 10</b>	<b>MEIKO TopLine 20</b>	<b>MEIKO TopLine 30 Installation frame</b>	<b>MEIKO TopLine 40   40E</b>	
	<b>Height</b>	1630	1730	2210	900	900
	<b>Width</b>	500	500	650	900	700
	<b>Depth</b>	450	450	450	600	600

### Electrical characteristics DT-NDV

Rated current	Rated power	Mains voltage ( $\pm 10\%$ )
14,5 A	4,3 kW	3~PE 220 V 50 Hz
14,7 A	4,3 kW	3~PE 220 V 60 Hz
14,5 A	4,3 kW	3~NPE 220 V 50 Hz
14,7 A	4,3 kW	3~NPE 220 V 60 Hz
14,9 A	4,6 kW	3~PE 230 V 50 Hz
15,1 A	4,6 kW	3~PE 230 V 60 Hz
10,4 A	4,3 kW	3~NPE 380 V 50 Hz
10,6 A	4,3 kW	3~NPE 380 V 60 Hz
10,7 A	4,6 kW	3~NPE 400 V 50 Hz
10,9 A	4,6 kW	3~NPE 400 V 60 Hz
10,9 A	4,9 kW	3~NPE 415 V 50 Hz
11,0 A	2,1 kW*	2~PE 200 V 50 Hz
11,2 A	2,1 kW*	2~PE 200 V 60 Hz
12,0 A	2,5 kW*	1~NPE 220 V 50 Hz
12,2 A	2,5 kW*	1~NPE 220 V 60 Hz
12,5 A	2,8 kW*	1~NPE 230 V 50 Hz
12,7 A	2,8 kW*	1~NPE 230 V 60 Hz
13,0 A	3,0 kW*	1~NPE 240 V 50 Hz
13,0 A	3,0 kW*	2~PE 240 V 50 Hz
13,6 A	3,7 kW	3~PE 200 V 50 Hz
13,8 A	3,7 kW	3~PE 200 V 60 Hz

### Electrical characteristics DT-NDV USA + Canada

Rated current	Rated power	Mains voltage ( $\pm 10\%$ )	Back-up fuse	Boiler
11,4 / 12,5 A	2,2 / 2,8 kW*	1~/2~GND 208 / 230 V 60 Hz	15 A	2,1 / 2,7 kW
13,2 A	3,0 kW*	1~GND 240 V 60 Hz	15 A	2,9 kW
14,0 / 14,9 A	3,9 / 4,6 kW	3~GND 208 / 230 V 60 Hz	15 A	3,3 / 4,0 kW
11,4 A	4,4 kW*	3~GND 240 V 60 Hz	15 A	4,3 kW

\*Heating and wash pump are locked

## Electrical characteristics DT-NDD

Rated current	Rated power	Mains voltage ( $\pm 10\%$ )	Back-up fuse	Boiler
4,9 A	0,8 kW	2~PE 200 V 50 Hz	16 A	–
5,1 A	0,8 kW	2~PE 200 V 60 Hz	16 A	–
4,9 A	0,8 kW	1~NPE 220 V 50 Hz	16 A	–
5,1 A	0,8 kW	1~NPE 220 V 60 Hz	16 A	–
4,9 A	0,8 kW	1~NPE 230 V 50 Hz	16 A	–
5,1 A	0,8 kW	1~NPE 230 V 60 Hz	16 A	–
4,9 A	0,8 kW	1~NPE 240 V 50 Hz	16 A	–
5,1 A	0,8 kW	1~NPE 240 V 60 Hz	16 A	–

## Electrical characteristics DT-NDD USA + Canada

Rated current	Rated power	Mains voltage ( $\pm 10\%$ )	Back-up fuse	Boiler
5,1 A	0,8 kW	1~/2~GND 208 / 230 V 60Hz	15 A	–
5,1 A	0,8 kW	1~/2~GND 240 V 60 Hz	15 A	–

## 5.1 EC/EU declaration of conformity

See separate EC-/EU-Declaration of Conformity.



### Note

Washer-disinfectors are intended for fixed connection to the electrical power supply and connection to the on-site equipotential bonding and are accordingly equipped with a connection option.

The operator can decide at his/her own discretion and under his/her own responsibility to alternatively implement personal protection in collaboration with a licensed electrician company using:

- Fault current circuit breaker sensitive to universal current with max. 30 mA EN 62423

or

- Automatic shut-down of the supply when the protective earth conductor for the consistency is lost (EN 60204-1 Chap. 8.2.8.c)

The requirements for limiting voltage changes, fluctuations and flicker in accordance with DIN EN 61000-3-11 for the washer-disinfectors are fulfilled if the network has a current-carrying capacity of  $\geq 100$  A.

## **6 Assembly**



### **Note**

To install the washer-disinfector, see Service Instructions.

## **7 Commissioning**



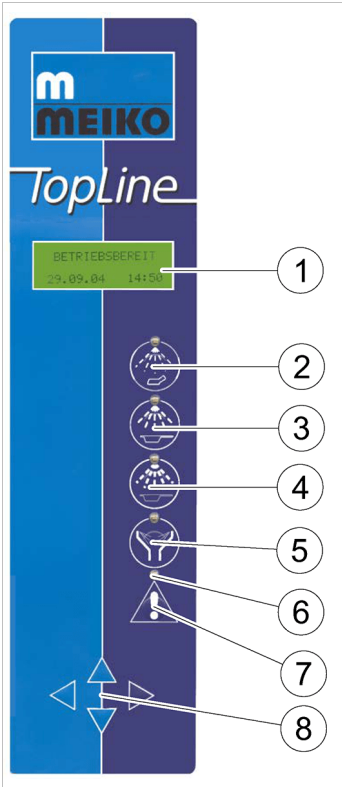
### **Note**

To set up the washer-disinfector, see Service Instructions.





# 8 Operation/use

## 8.1 Membrane key pad

 <p>The diagram shows a vertical membrane key pad for a MEIKO TopLine sink. At the top left is the MEIKO logo. Below it, the text 'TopLine' is written in a stylized font. A green rectangular display shows the text 'BETRIEBSBEREIT' (Operational) and the time '14:58'. Below the display are five circular icons: 1. A hand being washed under a faucet. 2. A hand being washed under a faucet with a spray of water. 3. A hand being washed under a faucet with a spray of water and a small 'S' symbol. 4. A hand being washed under a faucet with a spray of water and a small 'S' symbol. 5. A hand being washed under a faucet with a spray of water and a small 'S' symbol. Below these icons is a triangular warning icon with an exclamation mark. At the bottom are four arrow keys: two pointing left and two pointing right.</p>	<ul style="list-style-type: none"><li>1 Display</li><li>2 Short programme programme key</li><li>3 Standard programme programme key</li><li>4 Intensive programme programme key</li><li>5 Slop sink flushing/wash chamber rinsing programme key (option)</li><li>6 Error indicator</li><li>7 Error acknowledgement key</li><li>8 Arrow keys</li></ul>
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## Error indicator

Error indicator status	Meaning
Error indicator off	The washer-disinfector is ready for operation.
Error indicator flashes	The washer-disinfector: <ul style="list-style-type: none"><li>• Has detected a fault.</li><li>• Emits an acoustic signal.</li><li>• Display shows the error message.</li></ul> To switch off the acoustic signal, acknowledge the fault: → Press the error acknowledgement key  .
Error indicator illuminated	The washer-disinfector has detected a fault. Fault has been acknowledged. → Correct fault. → Press the error acknowledgement key  .

## 8.2 Clean and disinfect care utensils (programme cycle)

### **DANGER – Risk of explosion from solvent in the wash chamber**

- Never place solvents in the wash chamber.

### **WARNING – Scalding due to high temperatures**

- Let care utensils cool sufficiently before removal.
- Wear protective gloves.

**⚠ WARNING – Trapping in wash chamber door**

- When opening and closing the wash chamber door, make sure that nothing is trapped in the door.
- If you are unsure about how to remove blockages, call service engineer or service technician to remove the blockage.

**⚠ WARNING – Risk if infection due to insufficient cleaning**

- Select a cleaning programme according to the degree of soiling and the type of care utensil, see page 30.

**⚠ WARNING – Risk of infection from residual dirt**

- Check for residues when removing care utensils.

**⚠ CAUTION – Unsatisfactory cleaning results due to defective holder**

- Make sure that the holder is not bent or deformed (e.g. due to unforeseen care utensil).
- Place care utensils according to setup.

**⚠ CAUTION – Damage to the appliance due to jamming or blockage of the drain**

- Place care utensils according to picture.
- Make sure that care utensils do not slide out of the holder for care utensils and urine bottle.
- Make sure that no pulp or similar and no utensils enter the wash chamber.

**⚠ CAUTION – Corrosion from foreign iron**

- Make sure that no foreign iron or other metal particles (e.g. copper filings) enter the washer-disinfector through the clean water supply.

## 8.2.1 Clean care utensils (basic version of the appliance)

**Only touch used care utensils when wearing protective gloves. Observe the hygiene regulations of the operator!**

### Recommendation

Clean care utensils immediately after use. The maximum non-use time for care utensils is 30 minutes.



1. Open the wash chamber door.



2. Insert care utensils in the prescribed positions in holder for care utensils and urine bottle.



3. Close the wash chamber door.



4. Start cleaning programme, see page 30 and by pushing the corresponding programme key.

The LED above the selected programme key lights up during the cleaning programme.

The cleaning and disinfection programme starts and automatically runs through to the programme end.

During the programme sequence, the wash chamber door is locked.

**After end of programme:**



5. Remove protective gloves, open wash chamber door.



6. Remove care utensils.

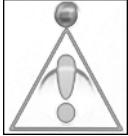



7. Close the wash chamber door.

8. Perform a visual check of the care utensils. If cleaning is insufficient, select intensive programme or subject to alternative treatment.






### 8.2.2 Cancel programme

In case the wrong cleaning programme has been started, it is possible to cancel the cleaning programme and start the correct programme. The wash chamber door remains locked until a complete programme run has taken place.

	
<p>1. Press the error acknowledgement key.</p>	<p>2. Start cleaning programme, see page 30 and by pushing the corresponding programme key.</p>

### 8.2.3 Selecting the cleaning programme

The programme starts immediately when the programme selection key is pressed.

Appliance version	Cleaning programmes	
	Key	Meaning
Basic version		<p><b>Short programme</b> Cleaning and disinfection of care utensils with liquids.</p>
		<p><b>Standard programme</b> Cleaning and disinfection of care utensils with human excreta.</p>
		<p><b>Intensive programme</b> Cleaning and disinfection of care utensils with strongly adhering human excreta.</p>
Options (optional)		<p><b>Slop sink flushing</b> Cleaning the separate slop sink</p>
		<p><b>Wash chamber rinsing</b> Cleaning the wash chamber</p>

#### 8.2.4 Automatic door (AT), operation with sensor (option)



All AT (Automatic Door) models are equipped with a sensor which allows the wash chamber door to be open and shut automatically.

Depending on the presetting of the washer-disinfector, the cleaning programme starts automatically after the door is closed.

- To open and close the door, place your hand briefly 2-8 cm in front of the sensor.
- Select/start programme.

#### 8.2.5 Automatic door (AT), operation with foot switch (option)



The door of the washer-disinfector can also be opened by means of a foot switch. Depending on the presetting of the washer-disinfector, the cleaning programme starts automatically after the door is closed.

- Press the foot switch to open and close the wash chamber door.
- Select/start programme.

## 8.2.6 Door lock with code lock / code entry (option)



### Note

Operations that can be protected with code lock:

- Open the door after end of programme
- Programme start
- Both







The code is set to **1** ex works.

It can be changed by the service technician.

- Cleaning programme finished.

AND/OR

- Appliance has been equipped with care utensils and is waiting for the programme to start

<p style="text-align: center;"><b>CODE</b></p> <p>The code entry prompt appears.</p>	<p style="text-align: center;">△ ▽ or ◀ ▶</p> <p>1. Use the arrow keys to set the value.</p>
<div style="text-align: center;">  </div> <p>2. Confirm the entered code by pressing the error acknowledgement key.</p>	<div style="display: flex; justify-content: space-around; align-items: center;">    </div> <p>3. Start cleaning programme, see page 30, OR</p>
<div style="text-align: center;">  </div> <p>• Remove care utensils as usual, see page 28.</p>	<div style="text-align: center;">  </div> <p>4. Close the wash chamber door.</p>



### 8.3 Factory setting of the A<sub>0</sub> value

The factory setting for the disinfection parameter for the A<sub>0</sub> value is 60. To set another A<sub>0</sub> value if required, contact MEIKO Service.

### 8.4 Select A<sub>0</sub> value

The A<sub>0</sub>-Value can be increased up to 3000 in predefined steps for a one-time programme run, depending on the parameterisation of the appliance. In the selection menu only values are displayed that are greater than/equal to the preset A<sub>0</sub> value of the programme.



**600 [1200] 3000**

1. Activate the selection menu by pressing and holding a programme key. If the programme key remains pressed the predefined A<sub>0</sub> values pass through from right to left. The value displayed centrally [ ] is the selected value.

2. By releasing the programme key the selected value is taken over and the programme starts.

In addition to the described one-time increase of the A<sub>0</sub> value, the appliance optionally offers the possibility to temporarily increase the A<sub>0</sub> value for several/all appliance in a building via a central external control system, e.g. in case of a pandemic.

## 8.5 Replace canister

### **WARNING – Risk of injury from contact with chemicals**

- Use safety eyewear.
- Wear protective gloves.
- Observe the manufacturer of the dosing agent's applicable safety regulations and safety data sheets.
- Follow the manufacturer of the dosing agent's first aid measures in an emergency.  
\*) MEIKO recommends hanging up a description of the first aid measures near the machine.



#### **Note**

The canisters for the dosing agent are located in different places depending on the appliance, see page 15.

1. Open the door or drawer.	2. Pull suction lance out of canister.
3. Remove empty canister.	4. Insert new canister (still sealed), then remove lid. The canister must stand up straight.
5. Connect the suction lance to the canister. Suction lance must be vertical in the canister.	6. Lock door with key.
7. Vent dosing system, see page 48.	



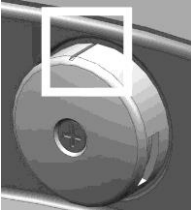
#### **Note**

It is possible that rinse aids/water softeners other than those approved by MEIKO have a lower calcium binding capacity. An unsuitable rinse aid/softener may cause limescale to build up on heating elements and on wash nozzles. The cleaning result may be affected.

When using a detergent from another manufacturer or a different dosing agent variant, flush the complete detergent dosing system with water.

"In particular, chemicals and higher temperatures in the process, as well as mechanical loads when holding and transporting, can have a negative impact on the washware."

## 8.6 Perform slop sink flushing (option)



**⚠ CAUTION – Poor cleaning result of the slop sink flushing and splashing water due to incorrectly aligned cleaning nozzles**

- The nozzle groove must be aligned to the graining in the funnel.
- Use a Phillips screwdriver to loosen the fixing screws, align the nozzles and tighten the screws manually.

**When handling soiled containers, observe the operator's hygiene regulations!**



1. Empty the contents of the container.



2. Start slop sink flushing for the separate slop sink unit by pressing the slop sink flushing programme key.

Rinsing for the separate slop sink unit starts and runs for the set time until the end of the programme. During the programme sequence, the wash chamber door is locked.

## 8.7 Wash chamber rinsing

### **WARNING – Risk of infection due to a lack of disinfection**

- Never use wash chamber rinsing for cleaning care utensils.



1. Open the wash chamber door.



2. Empty the contents of the container into the wash chamber.



3. Close the wash chamber door.



4. Start the wash chamber rinsing by pressing the **Wash chamber rinsing** programme key.

Wash chamber rinsing starts and runs for the set time until the end of the programme. During the programme sequence, the wash chamber door is locked.

## 8.8 Malfunctions

### **WARNING – Trapping in wash chamber door**

- When opening and closing the wash chamber door, make sure that nothing is trapped in the door.
- If you are unsure about how to remove blockages, call service engineer or service technician to remove the blockage.

### Occasional malfunctions

Malfunction	Possible cause	Note/remedy
Door blockage during automatic closing with sensor or foot switch	Incorrectly inserted / unsuitable care utensils in the holder	<ul style="list-style-type: none"> <li>• Reverse mode is activated automatically: the wash chamber door opens slightly and releases the blockage.</li> <li>• Operate the infrared proximity switch or foot switch to open the door completely.</li> <li>• Remove blockage.</li> <li>• If there is no blockage, inform an in-house technician or service technician.</li> </ul>
Door blockade when opening after programme end with sensor or foot switch.	Care utensils that have fallen out of the holder prevent the door from opening.	<ul style="list-style-type: none"> <li>• Reverse mode is not activated: the wash chamber door stops. The display shows error message 702. Infrared proximity switch and foot switch are deactivated.</li> <li>• Remove blockage.</li> <li>• Confirm error message.</li> <li>• Use the appliance as usual.</li> <li>• If there is no blockage, inform an in-house technician or service technician.</li> </ul>

Malfunction	Possible cause	Note/remedy
Incomplete cleaning cycle	Programme interruption by operator	<ul style="list-style-type: none"> <li>• Run complete cleaning cycle.</li> <li>• In the event of an appliance malfunction, safe access to the load in the appliance is only possible for authorised persons (e.g. service technicians).</li> </ul>
Care utensils not clean after programme run	<p>Care utensils unsuitable or incorrectly used</p> <p>Wrong programme selected</p> <p>Residues are too firmly dried</p>	<ul style="list-style-type: none"> <li>• Check position/suitability of the care utensil</li> <li>• Correct programme selection and start again</li> <li>• The care utensils must be subjected to alternative cleaning. The responsibility for suitable cleaning lies with the operator. MEIKO recommends that the care utensils be subjected to basic manual cleaning and subsequent disinfection using appropriate protective equipment.</li> </ul>

## 8.8.1 Messages

The display shows the following details:

- Information
- Operation messages
- Warnings
- Error messages



### **Note**

About warnings and error messages see page 42.

### **Information**

Irrespective of the current process status, it is possible to access information about the washer-disinfector in the display.

### **Navigation between the individual views:**

- Select the previous or next view with the ◀ or ▶ arrow.

### **Leave the information output:**

- In the first view, press the △ arrow.
- In the last view, press the ▽ arrow.



### **Note**

If no key is pressed for a longer period, the information display automatically closes.

<b>Display text</b>	<b>Meaning</b>
Next maintenance	Number of programme runs until the next maintenance
Batch counter Total	Total batches: all programmes
Batch counter Short programme	Total batches: short programme
Batch counter Standard programme	Total batches: Standard programme
Batch counter Intensive programme	Total batches: Intensive programme
Batch counter Ext. programme key	Total batches: External programme key (option)
Batch counter Start after time	Total batches: Start after time (option)
Batch counter Slop sink flushing/wash chamber rinsing Programme	Total batches: Slop sink flushing programme (option) Wash chamber rinsing programme (option)
Serial number	Serial number of the washer-disinfector
AU number	Order number of the washer-disinfector
Operating hours	Number of washer-disinfector operating hours



The operating messages show the progress during the programme run.

Display text	Meaning
Ready for operation	<ul style="list-style-type: none"> <li>• Washer-disinfector is ready for operation.</li> <li>• Loading with care utensils possible.</li> </ul>
Filling Cold water >>	<ul style="list-style-type: none"> <li>• Washer-disinfector filling cold water in the tank.</li> </ul>
Filling >>>	<ul style="list-style-type: none"> <li>• Washer-disinfector filling cold water in the low-pressure steam generator.</li> </ul>
Cleaning Cold water >>>	<ul style="list-style-type: none"> <li>• Wash pump starts.</li> <li>• Cleaning with cold water.</li> </ul>
Filling Hot water >>>>>	<ul style="list-style-type: none"> <li>• Washer-disinfector filling hot water in the tank.</li> </ul>
Clean Hot water >>>>>>	<ul style="list-style-type: none"> <li>• Wash pump starts.</li> <li>• Cleaning with hot water.</li> </ul>
Heating ... °C >>>>>>	<ul style="list-style-type: none"> <li>• Only if a fixed waiting period and disinfection temperature is set.</li> <li>• Washer-disinfector heating low-pressure steam generator.</li> <li>• Display shows temperature in the wash chamber.</li> </ul>
Disinfection ... °C ... s >>>>>>>>>>>>	<ul style="list-style-type: none"> <li>• Only if a fixed waiting period and disinfection temperature is set.</li> <li>• Washer-disinfector heating wash chamber and care utensils with steam.</li> <li>• Washer-disinfector disinfecting care utensils.</li> </ul>
Heating low-pressure steam generator 50°C	<ul style="list-style-type: none"> <li>• Only with A<sub>0</sub> value calculation.</li> <li>• Display shows the temperature in the low-pressure steam generator (NDV) until the pre-set value has been reached.</li> </ul>
Disinfection (A <sub>0</sub> ) 0 from 60	<ul style="list-style-type: none"> <li>• Only with A<sub>0</sub> value calculation.</li> <li>• Washer-disinfector heating wash chamber and care utensils with steam, until the A<sub>0</sub> - value is reached.</li> </ul>




<b>Display text</b>	<b>Meaning</b>	<b>Steps to take</b>
Door open	Door contact not closed.	<ul style="list-style-type: none"> <li>• Close door correctly.</li> </ul>
Change rinse aid/water softener tank	Rinse aid/water softener or detergent storage tank alert.	<ul style="list-style-type: none"> <li>• Provide rinse aid.</li> <li>• 25 programme runs left.</li> </ul>
Change detergent		
Rinse aid/water softener tank empty	Rinse aid/water softener or detergent storage tank alert.	<ul style="list-style-type: none"> <li>• Programme run not possible. Tank must be changed.</li> </ul>
Detergent empty		
Min. impulse rinse agent not reached	Minimum rinse aid/water softener or detergent dosing monitoring impulse not always reached.	<ul style="list-style-type: none"> <li>• No action required.</li> </ul>
Min. impulse detergent not reached		
Perform maintenance	Perform maintenance.	<ul style="list-style-type: none"> <li>• Arrange maintenance.</li> </ul>
Please open the door	Cleaning programme finished.	<ul style="list-style-type: none"> <li>• Open the door and take out the care utensils.</li> </ul>
Key switch	Appliance with key switch function.	<ul style="list-style-type: none"> <li>• Activate the key switch with the key before the programme.</li> </ul>
Manual operation	Machine is remote-controlled via M-Commander (cable - PC-Palm).	<ul style="list-style-type: none"> <li>• No action necessary.</li> <li>• No operation possible on the membrane key pad.</li> </ul>
Wrong password	Wrong password entered.	<ul style="list-style-type: none"> <li>• Re-enter password correctly.</li> </ul>

If a fault occurs:

- The display shows an error message.
- The washer-disinfector emits an acoustic tone.
- The fault display LED flashes.

To switch off the acoustic tone:

- Press the error acknowledgement key .

Fault is acknowledged. Error indicator LED permanently illuminated.

In the case of all error messages or malfunctions not listed below:

- Inform MEIKO Service.

Display text	Meaning	Steps to take
Error no. 103 Drain blocked	Water will not drain through the odour trap.	<ul style="list-style-type: none"> <li>• Remove dirt or inform MEIKO Service.</li> </ul>
Error no. 401 Soft/rinse aid empty	Tank with water softener/rinse aid empty. Suction lance set but not connected.	<ul style="list-style-type: none"> <li>• Insert new canister, see page 34.</li> </ul>
Error no. 402 Soft/rinse aid dosing monitoring	Sufficient rinse aid/water softener no longer added.	<ul style="list-style-type: none"> <li>• Inform MEIKO Service.</li> </ul>
Error no. 501 Detergent empty	Tank with detergent empty. Suction lance set but not connected.	<ul style="list-style-type: none"> <li>• Insert new canister, see page 34.</li> </ul>
Error no. 502 Dosing monitoring Detergent	Detergent no longer dosed in sufficient quantities.	<ul style="list-style-type: none"> <li>• Inform MEIKO Service.</li> </ul>
Error no. 210 Cold water temperature too high	Cold water inlet temperature too high. Cold water/hot water inlet swapped. Solenoid valves coils swapped. Temperature detection error.	<ul style="list-style-type: none"> <li>• Inform MEIKO Service.</li> <li>• Open the wash chamber door via setting in service level, see page 49.</li> </ul>

Display text	Meaning	Steps to take
Error no. 211 Hot water temperature too low	Hot water inlet temperature too low. Heat loss in inlet pipe. Cold water/hot water inlet swapped, solenoid valve coils swapped. Temperature detection error. Temperature sensor placed incorrectly.	<ul style="list-style-type: none"> <li>• Inform MEIKO Service.</li> </ul>
Error no. 311 On-site steam pressure too high	NDD only: Steam is escaping at the air gap.	<ul style="list-style-type: none"> <li>• Close stop valve for steam pipe.</li> <li>• Inform MEIKO Service.</li> </ul>

## 9 Change service level/settings

### **CAUTION – Malfunction due to incorrect parameter**



Before changing parameter settings:

- Contact an authorised in-house technician or MEIKO Service.
- Note service instructions.

The service level permits the following settings and functions in the display:

- Display or change the list of service parameters.
- Ventilate the rinse pipe.
- Ventilate the detergent pipe.
- Set date and time.
- Open door or unlock door.
- Define the first text line in the error indicator (e.g. service number or number of in-house technician)

### 9.1 Call service level

1. Make sure that the washer-disinfector is ready for operation and that all cleaning programmes have been completed.
2. Press arrow  for 2 seconds.
3. Enter access code.
4. 10000 = Display level 1.
5. 10001 = Display and change level 1.
6. Press the error acknowledgement key .

**Display shows service level.**



#### **Note**

When the service level is shown in the display, all other functions of the washer-disinfector are blocked.

If no key is pressed for 120 seconds, the washer-disinfector automatically exits the service level and switches to the **Ready for operation** status.

If a setting is being edited, the selected value flashes.

In the service level, the keys on the washer-disinfector have the following functions:

Key	Meaning
△ or ▽ arrow keys	<ul style="list-style-type: none"> <li>• Navigate in the menu.</li> </ul> If a setting is being edited (selected value flashes): <ul style="list-style-type: none"> <li>• Increase or lower value.</li> </ul>
◀ or ▶ arrow keys	<ul style="list-style-type: none"> <li>• Leave menu item.</li> </ul> If a setting is being edited (selected value flashes): <ul style="list-style-type: none"> <li>• Select the previous or next position.</li> </ul>
Error acknowledgement key ⚠	<ul style="list-style-type: none"> <li>• Access selected menu item.</li> </ul> If a setting is being edited (selected value flashes): <ul style="list-style-type: none"> <li>• Confirm entry.</li> </ul>

## 9.2 Display or change the list of service parameters

1. In the service level, call **Change parameter list**.
2. Press the error acknowledgement key ⚠.
3. Navigate in the parameter list with the △ or ▽ arrows.

To change parameters:

1. Call desired parameter.
2. Press the error acknowledgement key ⚠.
3. Use arrows to change parameter setting.
4. Press the error acknowledgement key ⚠ to save the setting.


- or -

5. Press the ▶ arrow to cancel the setting and to return to the parameter list.

## 9.3 Ventilating the pipes

The ventilation of the detergent or rinse pipes must be performed if air is sucked in from the dosing units. This occurs if a canister is completely emptied during operation, or if one of the suction lances is not threaded through to the base of the canister.


1. In the service level, call **Vent detergent** or **Vent rinse aid**.

2. Press the error acknowledgement key .

The washer-disinfector vents the desired pipe.

The time remaining appears in the display.

To cancel ventilation of the pipes:


- Press the error acknowledgement key .

- or -

- Press the  arrow.

## 9.4 Set date and time

1. In the service level, call **Set date and time**.

2. Press the error acknowledgement key .

The display shows date and time.

To change the setting:

1. Press the error acknowledgement key .

2. Use the arrow keys to change the date and time settings.

3. Press the error acknowledgement key  to save the setting.

- or -

Press the  arrow to cancel the setting and to return to the service level.



### Note

Changing between summer-time and winter-time is only possible manually.



## 9.5 Set time switch for automatic programme start

1. In the service level, call **Change parameter list**.
2. Confirm the submenu by pressing the fault acknowledgement key  $\triangle$ . The 1st parameter in the list appears with the current value.
3. Using the  $\triangle$  or  $\nabla$  arrows keys, select **Parameter 118a (weekday)** or **118b (hours)** in the list.

Parameter 118a:

1: Mon	2: Tues	3: Wed	4: Thu	5: Fri
6: Sat	7: Sun	8: Mo – Fr	9: Mo – Su	

Parameter 118b: hours 1-24

4. Edit the value by pressing the fault acknowledgement key  $\triangle$ . The value flashes.
5. Change the corresponding value with the  $\triangle$  or  $\nabla$  arrow keys.
6. Apply/save the value with the error acknowledgement key  $\triangle$ . (Cancel with the  $\triangleright$  arrow.)

## 9.6 Open door or unlock door

1. In the service level, call **Open door**.
2. Press the error acknowledgement key  $\triangle$ .

The washer-disinfector opens the wash chamber door and unlocks the wash chamber door automatically.



### Note

The care utensils are not disinfected.

## 9.7 Define first text line in the error indicator

1. In the service level, call **Change error help text**.
2. Press the error acknowledgement key  $\triangle$ .
3. Use arrow keys to enter numbers or text for the first line of the fault display (max. 20 characters).
4. Press the error acknowledgement key  $\triangle$  to save the setting.

- or -

Press the  $\triangleright$  arrow to cancel the setting and to return to the service level.

## 10 Maintenance and cleaning

### **WARNING – Danger to life from electric shock**

Contact with live electrical parts on the appliance may result in serious injury or death.

- Work on the electrical system must be conducted by a qualified electrician who complies with the electrotechnical rules.
- Disconnect the appliance from the power supply before working on the electrical system. To do this, turn the local mains switch to **OFF** and ensure that it cannot be switched back on again.
- After switching off the repair switch the mains connection terminals are live!

### **CAUTION – Material damage due to water ingress**

- Never clean the washer-disinfector, control cabinets and electronic components with water hose, high pressure cleaner or steam cleaner.

## 10.1 Maintenance



### **Note**

In order to guarantee regular and correct maintenance, MEIKO recommends concluding a maintenance contract with MEIKO Service.

Regular maintenance is a prerequisite for the long-term reliable and safe operation of a washer-disinfector. Maintenance which is neglected or improperly carried out increases the residual risk of unforeseen damage to property and persons, for which no liability will then be assumed.

For Austria, maintenance is equivalent to the periodic safety inspection, according to ÖMPG and ÖMPBV.

Maintenance must be carried out:

- When the message No. 3 **Perform maintenance** is displayed.
- After every 5000 cleaning cycles (factory setting, can be adjusted if required).
- At least once a year (see **Next maintenance** sticker on the washer-disinfector).

Maintenance includes the following:

- Electrical safety according to VDE 0701/0702 (test report optional in Germany)

- Dosing systems
- Cleaning nozzles
- Water tank/steam generator
- Holder
- Water inlet and outlet
- Screw connections and connections
- Recooling
- Door mechanism, locking and door seal

As part of the maintenance, the function check of the following points is carried out:

- Programme run as functional test
- Temperature measurement Protocol is optional.
- - Verification of the measuring systems

Please refer to the maintenance plan for a detailed list of the maintenance content. The maintenance plan is available for authorised and trained expert staff.

MEIKO supplies pressure-resistant, flexible connecting hose pipes with a manufacturer guarantee covering ten years worth of working hours.

### 10.1.1 "Next maintenance" sticker

The "Next maintenance" sticker shows when the next scheduled maintenance of the washer-disinfector is required.



The month in which the maintenance is required is at the top (in the 12 o'clock position). In the sticker shown, that is December 2006.

## 10.2 Process validation

The operator must ensure the adequate performance of the cleaning and disinfection procedures in the routine. In some countries this is also required by national laws, regulations or recommendations.

## 10.3 Routine check

Routine checks must be arranged by the operator on a daily basis before starting work.

The following points must be checked visually:

- The cleaning nozzles in the wash chamber (completeness and damage).
- The wash chambers (dirt).
- The holder (damage and holding of the utensils).
- The canisters (fill level and suitable chemicals)
- Error and warning indicator in the display (inform accordingly in case of error)

## 10.4 Daily cleaning

### **CAUTION – Material damage due to incorrect cleaning**

Cleaning of parts made of stainless steel with unsuitable cleaning agents, care products and cleaning utensils leads to damage, deposits or discolourations on the appliance.

- Never use aggressive cleaning or scouring agents.
- Never use cleaning agents that contain hydrochloride acid or bleaches based on chlorine.
- Do not use cleaning utensils previously used to clean non-stainless steel.

If the washer-disinfector is not used on a daily basis, start the programme once a day or let it run automatically with the time switch (see service instructions).

- Clean the outside of the washer-disinfector, especially the door handle and membrane key pad, once a day. Only clean stainless steel with detergents suitable for stainless steel.
- Make sure that detergents do not attack the material, do not form coatings and do not discolour the material.
- Never clean the washer-disinfector with water hose, high pressure cleaner or steam cleaner.
- Only clean wash chamber seal with water or soap.

## 10.5 De-scaling

### **CAUTION – Destruction of plastic parts and seals from residues of de-scaling agent**

- Completely flush the descaling agent out of the wash chamber.
- Lime deposits (discolouration) in the wash chamber should be sprayed with a commercially available liquid descaler (e.g. based on 10 - 20% citric acid or phosphoric acid).
- Mechanical treatment with a brush or cloth is necessary. Do not use steel brushes. Observe the manufacturer's safety instructions and take suitable protective measures (protective gloves and safety eyewear, disposable apron if necessary).
- After a short application time (5 minutes), close the wash chamber door and immediately start a cleaning programme. This rinses the wash chamber.

## 11 Behaviour when the appliance is not in use

The washer-disinfector uses and processes water. Non-use for several days leads to the pipe system becoming contaminated.

To avoid contamination:

- Enable time switch programme see page 49.
- programme the time switch programme to start a programme every day.
- If not used for a longer period, manually empty the pipe system.
  - Have the pipe system manually drained by a trained in-house technician or MEIKO Service, see service instructions.

## 12 Decommissioning

To decommission of the washer-disinfector, see the Service Instructions.

## 13 Dismantling and disposal

In addition to valuable raw materials and recyclable materials, the packaging and the old device may also contain substances that are harmful to health and the environment and were required for the function and safety of the old device.

Please do not dispose of your old device in residual waste. Instead, contact your dealer or the collection points set up in your community for information regarding the disposal of your old device.

### 13.1 Disposal of packaging materials

All the packaging materials are recyclable. The following materials are used:

- Square timber frame
- Plastic sheeting (PE film)
- Foam
- Cardboard packaging (edge protection)
- Packaging strap (steel strip)
- Packaging strap (plastic (PP))
- Transport safety bracket (stainless steel)



### Note

The square timber frame consists of untreated raw pine / spruce. In order to guard against pests, country-specific import regulations may also stipulate the use of treated wood.

## 13.2 Disposal of the old appliance

- Old appliances may be contaminated by human excreta, other body fluids, pathogenic germs and other substances. For this reason, old appliances must be decontaminated before disposal.
- Old appliances must be rendered unusable after professional removal in order to prevent subsequent accidents.
- Residues of process chemicals must be disposed of in compliance with safety regulations. Use safety eyewear and protective gloves.



The appliance is marked with this symbol. Please observe the local regulations for proper disposal of your old appliance.

The components should be separated by material for recycling.

For professional decontamination, dismantling and disposal of the old appliance, you can contact MEIKO Service.

# 14 Index

## A

A0 value	
Factory setting .....	33
Preselect.....	33
Assembly .....	24
Automatic door.....	31
Automatic door (AT).....	17

## C

Call service level	Call service level	
.....		46
Cancel programme .....		30
Canister.....		15
Clean care utensils .....		26
Cleaning .....		28
Code entry .....		32
Commissioning .....		24

## D

Daily cleaning.....		53
Decommissioning.....		54
Define error help text .....		49
Delivery contents .....		5
De-scaling .....		53
Designation of machine type .....		5
detergent dosing .....		16
Dismantling and disposal .....		54
Display .....		15, 16
Disposal of packaging materials .		54
Disposal of the old appliance.....		55

## E

EC/EU declaration of conformity.		23
Electrical characteristics.....		22
Electromagnetic compatibility.....		12
Error indicator.....		26

## F

Foot switch .....		31
Functional description .....		13

## H

Holder.....		15, 16, 17
SUH 1 .....		17
SUH 2 .....		17

## I

information on instructions for use		5
Inspection door.....		15, 16
intended purpose .....		8

## L

Liability and warranty .....		7
------------------------------	--	---

## M

Maintenance.....		50
Maintenance and cleaning .....		50
Malfunctions .....		37
Membrane key pad .....		15, 16, 25
Messages.....		39

## N

Next maintenance sticker.....		52
Non-usage.....		54
Notices on use .....		6



<b>O</b>		
Open door .....	49	
Operation/use .....	25	
Options.....	16	
Overview illustration.....	15	
<b>P</b>		
Presentation conventions .....	6	
Process validation.....	52	
Product description .....	12	
<b>R</b>		
Related documents.....	6	
Replace canister .....	34	
Requirements for the personnel .	10	
Rim flushing .....	17	
Routine check .....	52	
<b>S</b>		
Safety.....	8	
Safety information.....	11	
Safety symbols in the instructions	7	
selecting the cleaning programme		
.....	30	
Sensor.....	31	
Service parameters		
		display/change .....
		47
		Set date and time .....
		48
		Slop sink flushing .....
		17, 35
		SUH 1 .....
		17
		SUH 2.....
		17
<b>T</b>		
Technical data.....	20	
Time switch .....	49	
TopLine 10 .....	15	
TopLine 20 .....	15	
TopLine 30 .....	16	
TopLine 40 .....	15	
<b>U</b>		
Unintended use .....	9	
Unlock door .....	49	
<b>V</b>		
Ventilating the pipes.....	48	
<b>W</b>		
Wash chamber .....	15, 16	
Wash chamber door.....	15, 16	
Wash chamber rinsing .....	36	
What to do in the event of an		
emergency.....	12	







**MEIKO Maschinenbau GmbH & Co. KG**

Englerstraße 3

77652 Offenburg

Germany

[www.meiko-global.com](http://www.meiko-global.com)

[info@meiko-global.com](mailto:info@meiko-global.com)

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