MEIKO TOPIC

Washer-disinfector

Original instructions for use



EN

Read the instructions for use before using the appliance!

CE 0483

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1 Information on instructions for use

Before using the machine, read the instructions for use and the related documents carefully and keep them in a safe place and within easy reach.

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 TOPIC washer-disinfector

1.2 Delivery contents

The delivery contents include:

- MEIKO TOPIC 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	Service Manual
Short operating instructions	Installation and operational qualification
Specific positioning of care utensils	
Wiring diagram	
Installation instructions	

1.4 Presentation conventions

1.4.1 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**.**

1.4.2 Notices on use

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

1.4.3 Award elements

Description of the markup elements used in this document:

- A bullet point designates an action step.

1. Successive action steps.

(1) Position numbers shown in parentheses in the text refer to position numbers in illustrations. The text associated with the illustration is always below or beside the respective illustration.

1.4.4 Symbols

The list shows the maximum possible symbols that can be used in conjunction with the washer-disinfector. The actual symbols applied vary depending on the design.

Symbol	Meaning	Symbol	Meaning
	Observe instructions for use		Disconnect before maintenance or repair
	Caution		Manufacturer
	Date of manufacture		Authorised representative in Switzerland
	Medical device		Unique product identifier
	Labelling of electronic and electrical equipment that may not be disposed of in household waste		Nemko electrical safety certification mark for North America
	European conformity, notified body identification number		Watermark certification mark for Australia
	Use hand protection		Use safety eyeware

1.4.5 Illustrations

The illustrations contained in this document are not necessarily true to the original or to scale. The illustration may deviate from the original, e.g. due to modifications to the product, but without diminishing the facts or comprehensibility.

2 Declaration of conformity

This section reproduces the content of the EC/EU Declaration of Conformity for the product. Contents that are already included in the instructions for use (e.g. intended use) are not listed again. The signed EC/EU Declaration of Conformity with serial number is enclosed with the product.

We declare under our sole responsibility for this Declaration of Conformity that this product complies with Regulation (EU) 2017/745 on medical devices.

Product designation

Washer-disinfector (MDA 0317)

Basic UDI-DI

4 050187 00222

Classification as per MDR (EU) 2017/745:

Class IIa according to Annex VIII, Rule 16

Applied conformity assessment procedure

Annex IX of Regulation (EU) 2017/745

Notified body as per MDR (EU) 2017/745

mdc medical device certification GmbH

Kriegerstraße 6, 70191 Stuttgart, Germany

mdc identification number 0483

Certificate number

D1182200009

Furthermore, we declare the conformity of the product with the following EU directives:

- 2011/65/EU Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment, OJEU L174/88, 01/07/2011

Valid for products manufactured by:

12/04/2028

3 Safety

3.1 Correct use

3.1.1 Intended purpose

Only use the washer-disinfector for emptying, cleaning and thermally disinfecting human waste containers, such as:

- 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.

3.1.2 User group

Nursing staff (older than 14 years) in clinics, nursing and/or rehabilitation facilities who have been verifiably instructed in the use of the product.

3.1.3 Environment of use

- Preferably utility rooms.

3.1.4 Notes on correct use

The washer-disinfector is intended exclusively for commercial use. Any other use, modifications and alterations are not permitted and can lead to personal injury and damage to property.

Only use rinse aids/water softeners and detergents in our washer-disinfectors for which MEIKO has given its written approval.

Approved products:

- Rinse aid/water softener: Doyen SK 10/SK 22 E/SK 33 E
- Detergent: Doyen R 100/RS 120

Observe dosing agent warningshazard statements (see accompanying safety data sheets).

3.1.5 Determination of activities according to category of personnel

Persons Activity	Instructed nursing staff	Trained in-house technician	Authorised in-house technician/fitter (medical device consultant)
Installation/assembly			✓
Commissioning			✓
Operation, use	✓	✓	✓
Cleaning	✓	✓	✓
Change canisters		✓	✓
Checking safety devices		✓	✓
Troubleshooting		✓	✓
Troubleshooting, mechanical		✓	✓
Troubleshooting, electrical			✓
Maintenance			✓
Repairs			✓

3.2 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.)
- Disposal of solvents or flammable liquids (fire hazard and risk of damage to appliances)

- Used for rubbish disposal (e.g. garbage, nappies, 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 at an angle when empty (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 Safety information

- Only use the washer-disinfector according to instructions (see page 9).
- Only use the washer-disinfector in its original condition without independent changes and in a technically perfect condition.
- Electrical connection must be carried out in accordance with the locally applicable regulations (e.g. HD 60364-1/IEC 60364-1/VDE 0100-100) so the appliance can be connected to the mains supply in accordance with the regulations for installers. However, national regulations for installers may differ. The appliance is intended for permanent connection to the on-site power supply and the on-site protective equipotential bonding and has been tested accordingly before being brought to market.
- Fuse protection

  Set up the machine according to the local conditions and according to the rated current (see rating plate) as a separately fused circuit (final circuit). Take note of the available connection variants.
- Main switch/mains connection cable

  Install a main switch with all-pole disconnection from the mains in accordance with the regulations for installers in the permanently wired on-site installation. The main switch must be located near the device and be easily accessible to operating personnel. The main switch must be clearly assigned to the switch (labelling). The main switch must adhere to IEC 60947-1 and IEC 60947-3 (for USA and Canada to UL 60947-1 and UL 60947-3).

- Electrical safety

  The electrical safety of the machine is only ensured if the machine is connected to a properly installed protective conductor system. It is very important to verify this fundamental safety feature. If in doubt, have the local wiring checked by an electrician. The protective measures and the connection of the equipotential bonding of the machine and associated components must be carried out in accordance with the local regulations and the requirements of the local utility companies. Refer to the dimension sheet for the connection point. As an alternative, the operator can, acting on its own responsibility, use a mains-side residual current device (RCM or RCD) for personal protection. A type “A” (30 mA) according to IEC/EN 60755 is sufficient.

- Before opening the inspection door, disconnect the appliance from the power supply and secure it so that it cannot be turned on again; this also applies to other work on the appliance.
- The washer-disinfector does not generate targeted non-ionising radiation. For technical reasons, only the electrical appliances emit non-ionising 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.
- The washer-disinfector operates with hot water and the temperature during thermal disinfection is above 80°C or more, depending on requirements. As a result, the washware and parts of the appliance (wash chamber, door) have a high temperature at the end of programme. There is a risk of burns, so take appropriate safety precautions. In addition, components of the steam generator in the appliance inspection room - especially its casing and neighbouring pipes - can have high surface temperatures during and after operation. Therefore, when working in the appliance inspection room, ensure sufficient distance from these components and use suitable heat protection if necessary.
- 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 MEIKO Service.
- The water in the wash chamber and in the water tank is NOT safe to drink.

- Take care when handling dosing agents (water softeners/rinse aids and detergents). They are corrosive substances. Observe the applicable safety regulations! Use safety eyeware and protective gloves. Observe the manufacturer's safety instructions and safety data sheets when handling dosing agents.
- Do not sit or stand on the opened wash chamber door. This could damage the appliance and cause injury.
- Only use the approved dosing agents and do not mix them together.
- 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 22).

3.4 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.

3.5 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 TOPIC 10 (wall-mounted)
- MEIKO TOPIC 20 (standing)
- MEIKO TOPIC 40 (undercounter)

Equipment variants:

- DT-NDV: Decentralised thermal disinfection

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

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 keypad 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

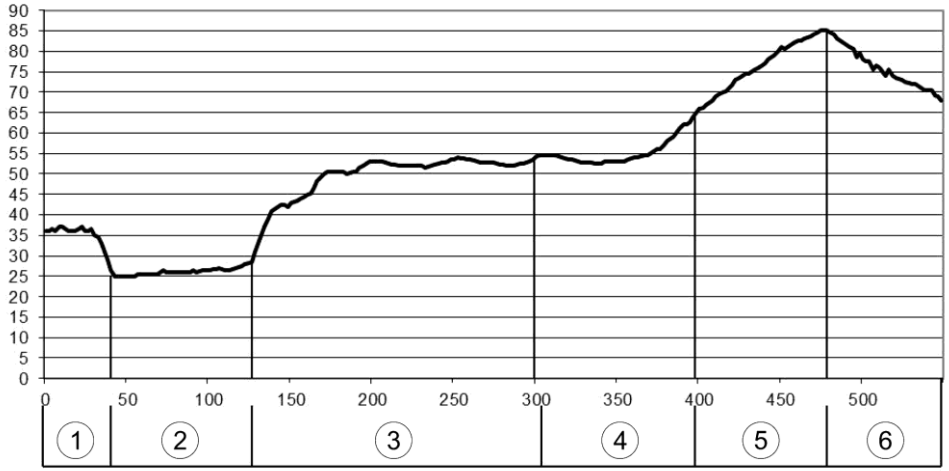
Thermal disinfection works according to the A_0 process. The term A_0 refers to a way of measuring (duration/temperature) how microorganisms are eliminated by moist heat disinfection methods. Thermal disinfection is fulfilled when the preset A_0 value is reached on all surfaces to be disinfected.

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 (intensive programme no. 8)



t(s) = Time in seconds (x-axis)	T(°C) = Temperature in °C (y-axis)
1 Pre-cleaning with cold water	4 Heating low-pressure steam generator
2 Waiting time for filling low-pressure steam generator	5 Thermal disinfection A0 60
3 Cleaning with hot water	6 Recooling/drying

4.3 Overview illustration

MEIKO TOPIC 20 / TOPIC 10 (wall-mounted)



1 Inspection door
2 Display
3 Membrane keypad
4 Wash chamber with cleaning nozzles
5 Holder
6 Wash chamber door
7 Inspection door
8 Canister (behind the door)

MEIKO TOPIC 40



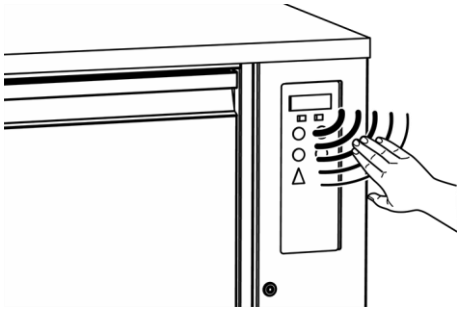
1 Display
2 Membrane keypad
3 Wash chamber with cleaning nozzles
4 Inspection door
5 Holder
6 Wash chamber door
7 Canister (behind the door, only for individual appliance)

4.4 Options

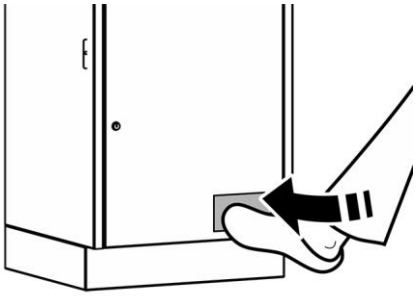
4.4.1 Detergent dosing

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 33.



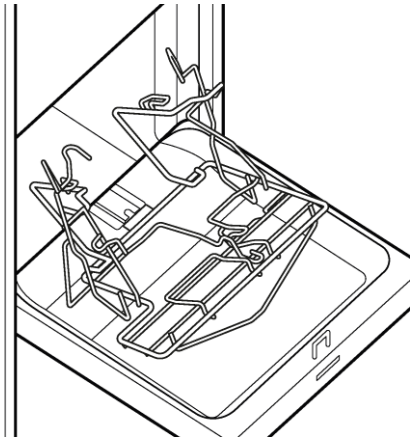
Touchless door opening with foot switch, see page 33.

4.4.3 Slop sink flushing with separate slop sink unit

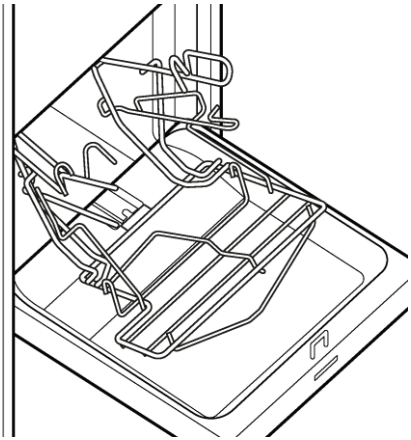
It is possible to wish a sink with the integrated pump of the washer-disinfector. The programme for slop sink flushing is started directly on the appliance, see page 37.

4.5 Holder

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

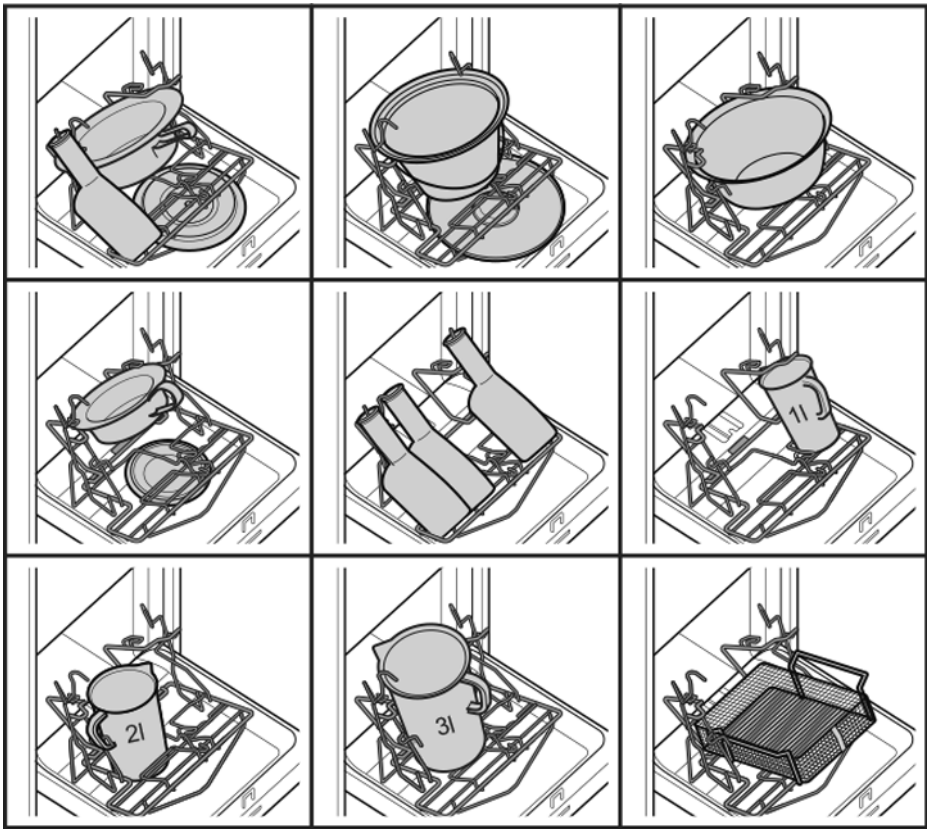


Holder SUH 1

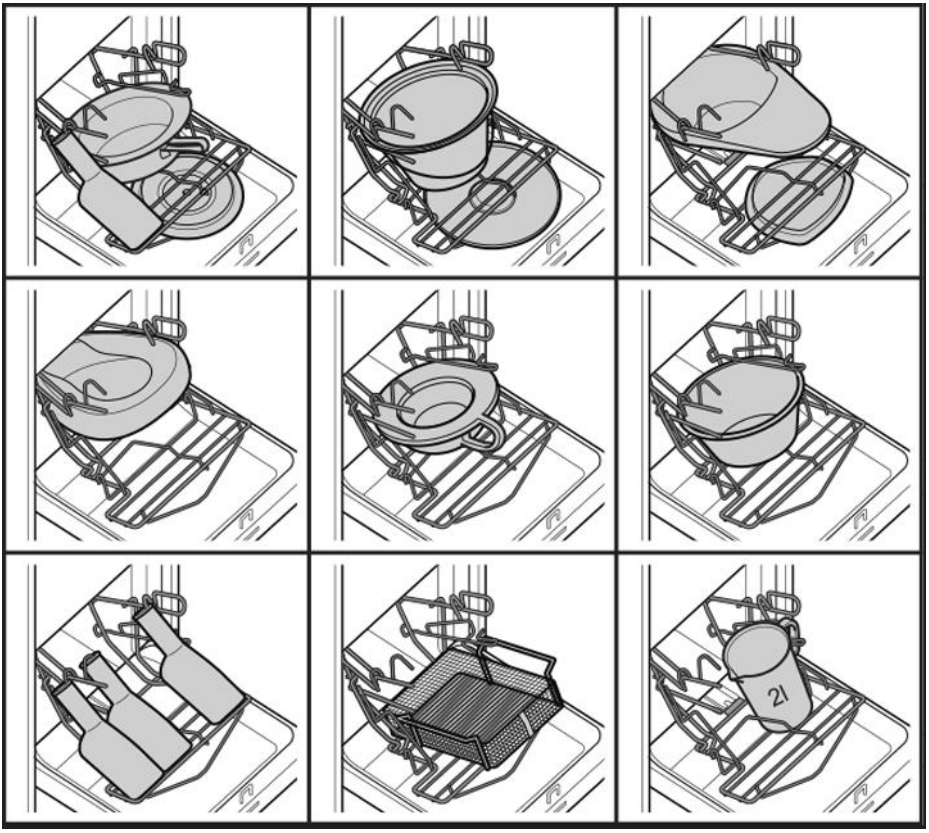


Holder SUH 2

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

Protection degree Protection class	MEIKO TOPIC 10/20/40: IP X4 Class I in accordance with VDE 0750 / IEC 601
Installation conditions	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 ± 10%, min. illuminance ambient light: 200 lx Floor conditions: The surface must be able to absorb a surface load of approx. 4 kN/m² (base area 450 × 500 mm) and a point load of 0.225 kN per adjustable foot (max. 4). The appliance must be installed on a level surface. The appliance must be placed horizontally with a maximum inclination of 1-2°. Install a seal in the installation area in accordance with DIN 18534. The floor covering must be resistant to chemicals, easy to clean and have an anti-slip design.
Fresh water supply line	Air gap group A, type A according to DIN 1988 / DIN EN 1717
On-site supply pipe	DN 20 (¾ inch), cold water 5-25°C, hot water 45-60°C. From a microbiological perspective, the fresh water must be of drinking water quality. This also applies to treated water.
Water flow pressure	100-500 kPa, before the solenoid valve
Water flow	18 l/min
Boiler content DT-NDV	2.1 l

Noise emission	Workplace noise emissions: L_{pA} = 48.2 dB(A) The emission sound pressure level at the workplace for the documented load has been determined on the basis of: DIN EN ISO 11204; precision class 3, measurement reliability ± 5 dB. Sound power level L_{WA} = 58.5 dB(A) The sound power level from the acoustic pressure measurements was determined in accordance with the casing surface process on the basis of DIN EN ISO 3746; precision class 3, measurement reliability ± 3 dB.		
Disinfection performance	A_0 value can be adjusted from 60-3,000 (3,000 only possible with blower retrofit)		
Heat emission	for 9 programme runs/hour: Total 0.8 kW / sensitive 0.5 kW / latent 0.3 kW		
Total volume of the chamber	64.5 l		
Net weights (max.)	MEIKO TOPIC 10 75 kg	MEIKO TOPIC 40	97 kg (incl. plinth, automatic door, casing and 200 mm cabinet)
	MEIKO TOPIC 20 78 kg	MEIKO TOPIC 40 (700)	83 kg (with plinth, casing)
Area for operation and maintenance	There must be a free area in front of the appliance for operation and maintenance. This is (0.8 m or appliance width) × 0.8 m. The swivelling ranges of the wash chamber door and inspection doors must be planned.		

Transportation	
Temperature [°C]	-20°C–40°C
Max. rel. humidity [%]	80 %
Type of packaging	Only in the original transport packaging
Storage with transport packaging	
Temperature [°C]	-20°C–40°C

Max. rel. humidity [%]	80 %
Location	Also possible outdoors temporarily (max. 14 days), canopy recommended
Storage without transport packaging	
Temperature [°C]	-20°C–40°C
Max. rel. humidity [%]	80 %
Location	Indoors only

Dimensions [mm]		**MEIKO TOPIC 10**	**MEIKO TOPIC 20**	**MEIKO TOPIC 40**
	Height	1630	1730	900
	Width	500	500	900
	Depth	450	450	600

Electrical characteristics DT-NDV

Rated current	**Rated power**	**Mains voltage (± 10 %)**
11,8 A	2,6 kW	1 NPE, 220 V, 60 Hz
12,2 A	2,8 kW	1 NPE, 230 V, 50 Hz
12,2 A	2,8 kW	1 NPE, 230 V, 60 Hz
12,5 A	3,0 kW	1 NPE, 240 V, 50 Hz
18,7 A	4,5 kW *	1 NPE, 240 V, 50 Hz
11,5 A	2,3 kW	2 PE, 200 V, 50 Hz
11,5 A	2,3 kW	2 PE, 200 V, 60 Hz
12,5 A	3,0 kW	2 PE, 240 V, 50 Hz
13,2 A	3,6 kW	3 PE, 200 V, 50 Hz
13,2 A	3,6 kW	3 PE, 200 V, 60 Hz
14,2 A	4,3 kW	3 PE, 220 V, 50 Hz
14,5 A	4,6 kW	3 PE, 230 V, 50 Hz
14,2 A	4,3 kW	3 NPE, 220 V, 50 Hz
10,0 A	4,2 kW	3 NPE, 380 V, 50 Hz
10,0 A	4,2 kW	3 NPE, 380 V, 60 Hz
10,3 A	4,6 kW	3 NPE, 400 V, 50 Hz
10,7 A	5,0 kW	3 NPE, 415 V, 50 Hz
* Connection cross-section 4.0 mm²		

Electrical characteristics DT-NDV USA + Canada

Rated current	Rated power	Mains voltage (± 10 %)
10,1 A	2,2 kW	1 Gnd, 208 V, 60 Hz
11,8 A	2,8 kW	1 Gnd, 230 V, 60 Hz
12,5 A	3,0 kW	1 Gnd, 240 V, 60 Hz
12,5 A	3,0 kW	1 NGnd, 240 V, 60 Hz
10,1 A	2,2 kW	2 Gnd, 208 V, 60 Hz
11,8 A	2,8 kW	2 Gnd, 230 V, 60 Hz
12,5 A	3,0 kW	2 Gnd, 240 V, 60 Hz
13,6 A	3,9 kW	3 Gnd, 208 V, 60 Hz
14,6 A	4,6 kW	3 Gnd, 230 V, 60 Hz
10,6 A	4,5 kW	3 Gnd, 240 V, 60 Hz

6 Assembly

Note

To install the washer-disinfector, see installation instructions.

Authorisation for installation:

- Installation of the appliance may only be performed by a specialist company.
- Installation of the fresh water connection, waste water connection, and steam connection may only be carried out by water installation companies.
- Electrical installation may only be carried out by qualified electricians.

7 Commissioning

Note

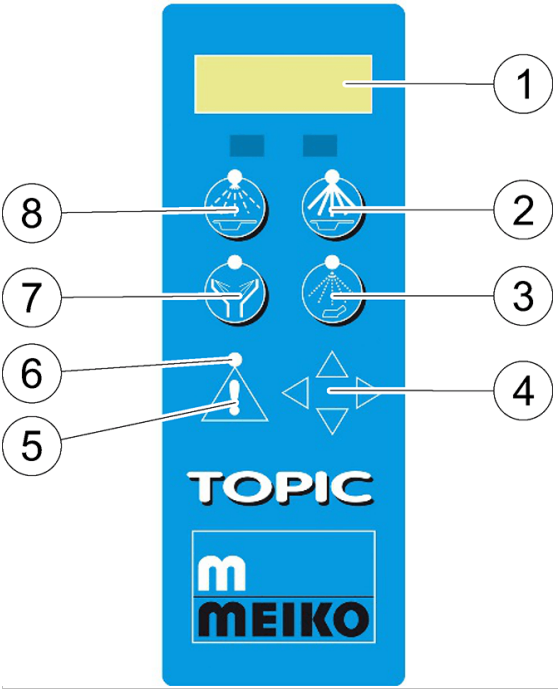
To set up the washer-disinfector, see installation instructions.

Authorisation for commissioning

- Commissioning may only be performed by a service technician authorised by MEIKO.

8 Operation/use

8.1 Membrane key pad



1 Display
2 Intensive programme programme key
3 Short programme programme key
4 Arrow keys
5 Error acknowledgement key
6 Error indicator
7 Slop sink flushing/wash chamber rinsing programme key (option)
8 Standard programme programme key

Error indicator

Error indicator status	Meaning
Error indicator off	The washer-disinfector is ready for operation.
Error indicator flashes	The washer-disinfector: • Has detected a fault. • Emits an acoustic signal. • Display shows the error message. To switch off the acoustic signal, acknowledge the fault: ➔ Press the error acknowledgement key ⚠.

Error indicator status	Meaning
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)

⚠ WARNING – Risk of explosion and fire due to solvents or flammable liquids

- Do not dispose of solvents or flammable liquids via the appliance.

⚠ WARNING – Scalding due to high temperatures

- Let care utensils cool sufficiently before removal.

⚠ 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 pollution degree and the type of care utensil, see page 32.

⚠ WARNING – Risk of infection from residual dirt

- Check the care utensils for residues when removing them from the appliance.

⚠ 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

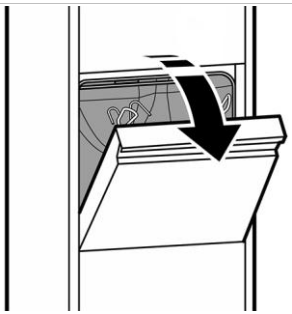
- Make sure that no foreign iron or other metal particles (e.g. copper filings) enter the washer-disinfector through the clean water supply.

8.2.1 Clean care utensils (basic version of the appliance)

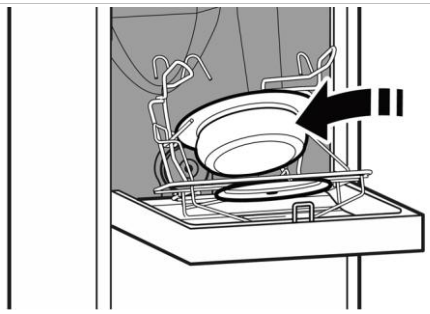
Only touch used care utensils when wearing protective gloves. Observe the hygiene regulations of the operator!

Recommendation

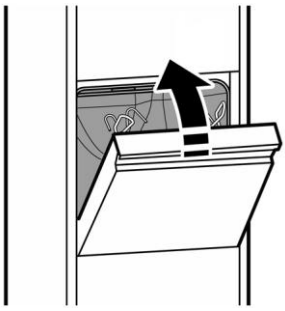
Clean care utensils immediately after use. The maximum non-use time for care utensils is 30 minutes.



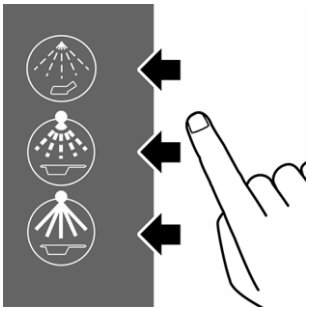
1. Open the wash chamber door.



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



3. Close the wash chamber door.



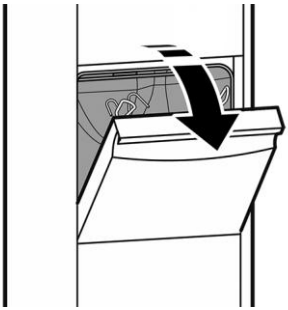
4. Select the cleaning programme, see page 26, and start it by pushing the corresponding programme key.

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

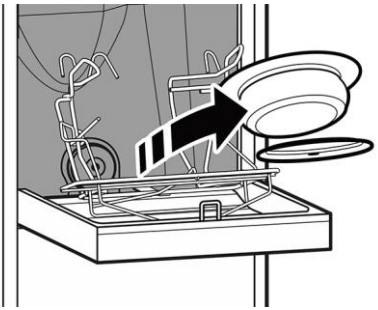
The cleaning and disinfection programme starts and automatically runs through to the programme end.

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

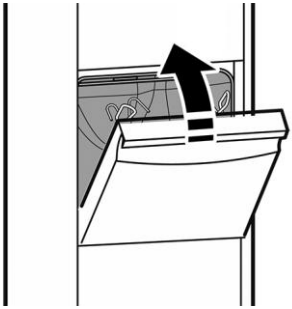
After end of programme:



5. Remove protective gloves, open wash chamber door.



6. Remove care utensils.

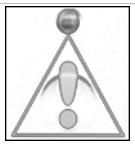


7. Close the wash chamber door.

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.

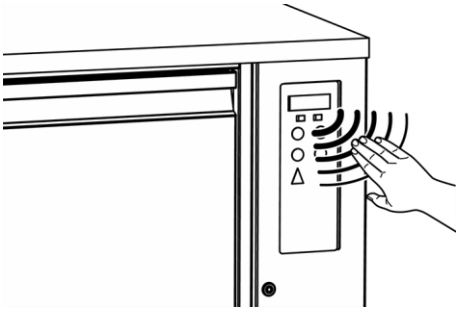
	
1. Press the error acknowledgement key.	2. Start cleaning programme, see page 26and by pushing the corresponding programme key.

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		**Short programme** Cleaning and disinfection of care utensils with liquids (e.g. urine bottles). A_0 value: 60 Running time: 400 s Minimum temperature 70°C
		**Standard programme** Cleaning and disinfection of care utensils with human excreta (e.g. bedpans). A_0 value: 60 Running time: 440 s Minimum temperature 70°C
		**Intensive programme** Cleaning and disinfection of care utensils with strongly adhering human excreta (e.g. commode buckets). A_0 value: 60 Running time: 490 s Minimum temperature 70°C
Options (optional)		**Slop sink flushing** Cleaning the separate slop sink unit. Running time: 23 s
		**Wash chamber rinsing** Cleaning the wash chamber

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

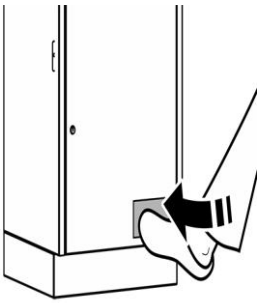


All AT (Automatic Door) models are equipped with a sensor which allows the wash chamber door to be open and shut automatically.

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

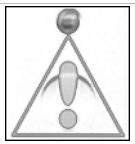
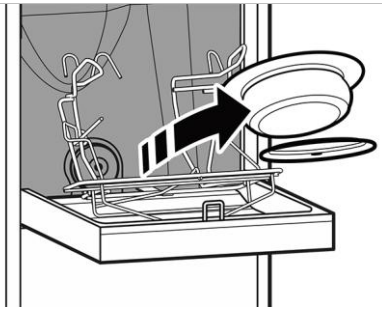
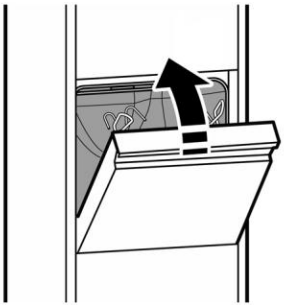
Operations that can be protected with code lock:

- Open 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 filled with care utensils and is waiting for the programme to start

CODE The code entry prompt appears.	△ ▽ or◁ ▷ 1. Use the arrow keys to set the value.
 2. Confirm the entered code by pressing the error acknowledgement key.	 3. Start the cleaning programme, see page 32, OR
 4. Remove care utensils as usual, see page 29.	 5. Close the wash chamber door.

8.3 Factory setting of the A_0 value

The factory setting for the disinfection parameter for the A0 value is 60.

To set another A0 value if required, contact MEIKO Service.

8.4 Select A_0 value

The A_0-Value can be increased up to 3,000 in predefined steps for a one-time programme run, depending on the parameterisation of the appliance. The selection menu only displays values that are greater than/equal to the preset A_0 value of the programme.

	**60 [600] 3000**
1. Activate the selection menu by pressing and holding a programme key. If the programme key remains pressed, the predefined A_0 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_0 value, the appliance optionally offers the possibility to temporarily increase the A_0 value for several/all appliances 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 eyeware.
- Wear protective gloves.
- Observe the safety regulations and safety data sheets of the manufacturers of the dosing agents.
- In case of emergency, follow the first aid measures of the manufacturers of the dosing agents.
- Hang up a description of the first aid measures near the appliance.

Note

The canisters containing the process chemicals may only be changed by an instructed in-house technician or a service technician authorised by MEIKO!

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.

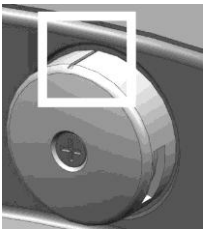
In particular, chemicals and higher temperatures in the process, as well as mechanical loads when holding and transporting, can have a negative impact on the washware.

Note

The canisters for the dosing agent are located in different places depending on the appliance, see page 17.

1. Open the door or drawer.
2. Pull the suction lance out of the canister.
3. Remove the empty canister.
4. Insert the new canister (still sealed), then remove the lid. The canister must stand up straight.
5. Connect the suction lance to the canister. The suction lance must be vertical in the canister.
6. Lock the door with the key.
7. Vent the dosing system, see page 49.

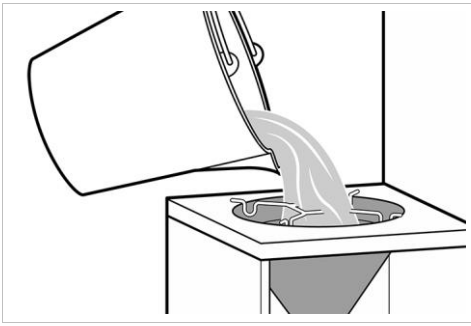
8.6 Perform slop sink flushing (option)

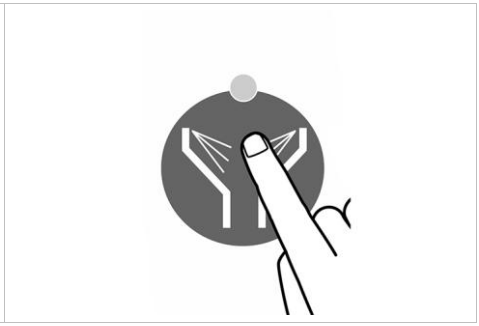


⚠ CAUTION – Poor cleaning result of the slop sink flushing and splashing water due to incorrectly aligned cleaning nozzles

- 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!





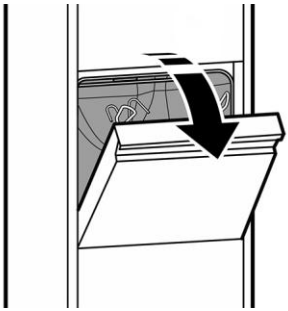
1. Empty the contents of the container.
2. Start slop sink flushing for the separate slop sink unit by pressing the slop sink flushing programme key.

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.

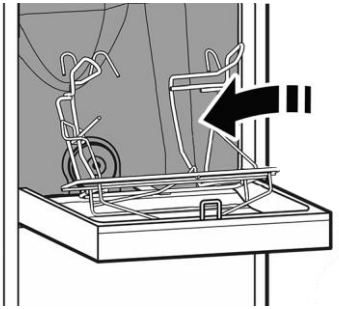
8.7 Wash chamber rinsing (option)

⚠ WARNING – Risk of infection due to a lack of disinfection

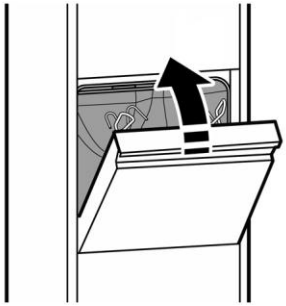
- Never use wash chamber rinsing for cleaning care utensils.



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 run, 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	• Reverse mode is activated automatically: the wash chamber door opens slightly and releases the blockage. • Operate the infrared proximity switch or foot switch to open the door completely. • Remove the blockage. • If there is no blockage, inform an in-house technician or service technician.
Door blockage when opening after programme end with sensor or foot switch	Care utensils that have fallen out of the holder are preventing the door from opening	• Reverse mode is not activated: the wash chamber door stops. The display shows error message 702. Infrared proximity switch and foot switch are deactivated. • Remove the blockage. • Confirm the error message. • Use the appliance as usual. • If there is no blockage, inform an in-house technician or service technician.
Incomplete cleaning cycle	Programme interruption by operator	• Run the complete cleaning cycle.

Malfunction	Possible cause	Note/remedy
		• In the event of an appliance malfunction, safe access to the care utensil in the appliance is only possible for authorised persons (e.g. service technicians).
Care utensils not clean after programme run	Care utensils unsuitable or incorrectly used Wrong programme selected Residues are too firmly dried	• Check position/suitability of the care utensil • Correct programme selection and start again • 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.

8.8.1 Messages

The display shows the following details:

- Information
- Operation messages
- Warnings
- Error messages

Note

About warnings and error messages see page 43.

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.

Display text	Meaning
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	• Washer-disinfector is ready for operation. • Loading with care utensils possible.
Filling Cold water >>	• Washer-disinfector filling cold water in the tank.
Filling >>>	• Washer-disinfector filling cold water in the low-pressure steam generator.
Cleaning Cold water >>>	• Wash pump starts. • Cleaning with cold water.
Filling Hot water >>>>>	• Washer-disinfector filling hot water in the tank.
Clean Hot water >>>>>>	• Wash pump starts. • Cleaning with hot water.
Heating … °C >>>>>>	• Only if a fixed waiting period and disinfection temperature is set. • Washer-disinfector heating low-pressure steam generator. • Display shows temperature in the wash chamber.
Disinfection … °C … s >>>>>>>>>>>	• Only if a fixed waiting period and disinfection temperature is set. • Washer-disinfector heating wash chamber and care utensils with steam. • Washer-disinfector disinfecting care utensils.
Heating low-pressure steam generator 50°C	• Only with A_0 value calculation. • Display shows the temperature in the low-pressure steam generator (NDV) until the pre-set value has been reached.
Disinfection (A_0) 0 from 60	• Only with A_0 value calculation. • Washer-disinfector heating wash chamber and care utensils with steam, until the A_0 - value is reached.

Display text	Meaning
Recooling filling ....°°C >>>>>>>>>>>>>>>	• Washer-disinfector filling cold water in the tank.
Cooling + drying	• Drying fan starts. • Care utensils cool down and dry.
Recooling Cleaning	• Wash pump starts. • Cleaning with cold water.
End of programme	• Cleaning programme finished. • Display shows temperature in the wash chamber. • Opening the wash chamber door is possible.
Programme interruption	• Programme already started was interrupted. • Wash chamber door remains locked. • Restart the programme.
Automatic door system	• Wash chamber door is opened or closed automatically.
Pump rim flushing	• Programme for slop sink flushing is running.
Special programme	• Wash chamber rinsing programme running.

The display shows warnings in order to prevent malfunctions. After carrying out the stated measure, the display deletes the warning.
Omitted measures may lead to malfunctions.

Display text	Meaning	Steps to take
Door open	Door contact not closed.	• Close door correctly.
Change rinse aid/water softener tank	Rinse aid/water softener or detergent storage tank alert.	• Provide rinse aid. • 25 programme runs left.
Change detergent		
Rinse aid/water softener tank empty	Rinse aid/water softener or detergent storage tank alert.	• Programme run not possible. Tank must be changed.
Detergent empty		
Min. impulse rinse agent not reached	Minimum rinse aid/water softener or detergent dosing monitoring impulse not always reached.	• No action required.
Min. impulse detergent not reached		
Perform maintenance	Perform maintenance.	• Arrange maintenance.
Please open the door	Cleaning programme finished.	• Open the door and take out the care utensils.
Key switch	Appliance with key switch function.	• Activate the key switch with the key before the programme.
Manual operation	Machine is remote-controlled via M-Commander (cable - PC-Palm).	• No action necessary. • No operation possible on the membrane key pad.
Wrong password	Wrong password entered.	• Re-enter password correctly.

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.	• Remove dirt or inform MEIKO Service.
`Error no. 401 Soft/rinse aid empty`	Tank with water softener/rinse aid empty. Suction lance set but not connected.	• Insert new canister, see page 35.
`Error no. 402 Soft/rinse aid dosing monitoring`	Sufficient rinse aid/water softener no longer added.	• Inform MEIKO Service.
`Error no. 501 Detergent empty`	Tank with detergent empty. Suction lance set but not connected.	• Insert new canister, see page 35.
`Error no. 502 Dosing monitoring Detergent`	Detergent no longer dosed in sufficient quantities.	• Inform MEIKO Service.
`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.	• Inform MEIKO Service. • Open the wash chamber door via setting in service level, see page 50.

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.	• Inform MEIKO Service.

9 Change service level/settings

⚠ CAUTION – Malfunction due to incorrect parameter

Before changing parameter settings:

- Contact an authorised in-house technician or MEIKO service.
- Observe the Service Manual.

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 levelCall 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	• Navigate in the menu. If a setting is being edited (selected value flashes): • Increase or lower value.
◁ or ▷ arrow keys	• Leave menu item. If a setting is being edited (selected value flashes): • Select the previous or next position.
Error acknowledgement key ⚠	• Access selected menu item. If a setting is being edited (selected value flashes): • Confirm entry.

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 ⚠. The 1st parameter in the list appears with the current value.
3. Using the △ or ▽ 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 ⚠. The value flashes.
5. Change the corresponding value with the △ or ▽ arrow keys.
6. Apply/save the value with the error acknowledgement key ⚠. (Cancel with the ▷ arrow.)

9.6 Open door or unlock door

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

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 ⚠.
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 ⚠ to save the setting.

- or -

Press the ▷ 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 lease 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 page 50).

- Clean the outside of the washer-disinfector, especially the door handle and membrane keypad, 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 Descaling

⚠ CAUTION – Destruction of plastic parts and seals from residues of descaling 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 eyeware, 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 50.
- Programme the time switch programme to start a programme every day.
- Close the local shut-off valve of the fresh water supply if the appliance is temporarily not in use.
- If the pipe system is not to be used for a longer period of time, have it drained by an authorised technician or MEIKO service.

12 Decommissioning

To decommission the washer-disinfector, see the Service Manual.

13 Dismantling and disposal

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

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 material
- Cardboard packaging (edge protection)
- Packaging strap (steel strip)
- Packaging strap (plastic (PP)
- If needed, transport safety bracket (stainless steel)

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 eyeware 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.

When disposing of the old appliance, the battery contained in the control system must be removed and disposed of separately.

Please do not dispose of the old appliance with residual waste.

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

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15 Notes

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