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MELAG

User manual

Instrument washer

MELA*clean*®

Dear Doctor:

Thank you very much for the trust that you have shown in our products by purchasing this unit .

For more than 55 years now, MELAG — a medium-sized, family owned and operated business — has specialized in the production of sterilization equipment for medical applications. During this period, MELAG has succeeded in becoming a leading manufacturer of sterilization equipment. More than 410,000 MELAG units sold throughout the world testify to the exceptional quality of our sterilization systems — which are manufactured exclusively in Germany.

Before placing this unit into operation, please carefully read this Installation and Operating Manual.

The staff and management of MELAG

CE

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1 Application Area

The MELA*clean*® Instrument washer is based on a chemo-thermal process and allows secure conditioning of medical instruments before sterilization.
The machine replaces the manual conditioning with the significantly more reliable automatic conditioning as approved by the guidelines of the German Robert-Koch-Institute.
Improved security for staff and less labor time, including reproduceable improvement of hygiene in the practise, are advantages that endorse the use of MELA*clean*®
Several certificates back up the good cleaning ability of MELA*clean*® in connection with the MELA*clean*® disinfection cleanser (Art.-no. 00134). The automated conditioning with MELA*clean*® is suitable for metal instruments and items, except anodized aluminum, glass ceramics and thermally instable materials (plastic). These following items are not applicative: instruments with narrow hollow spaces, handpieces, endoscopical instruments and textiles. Depending on the quality of the anodizing material, coloration and dull spots may occur. Please follow the instructions supplied by the manufacturers of your instruments.
After conditioning the instruments and before using them on patients, sterilization is absolutely necessary.

2 Safety instructions

Before placing the MELA*clean*® Instrument washer into operation, please carefully read the information contained in this Installation and Operating Manual. This manual contains important instructions for the installation, use, and maintenance of the MELA*clean*® machine.
Please keep this Installation and Operating Manual in a safe place where it can always be found.

MELAG cannot be held responsible for any claims if the following instructions are not followed.

1. If this unit or its packing has been damaged during transport, do not try to place it into operation.
2. Use the MELA*clean*® only for the purpose for which it has been designed.
3. Set up the unit and connect it, according to the Installation Instructions given in Section 8.1 below. The power ratings of the sockets in your rooms must conform to the electrical specifications on the rating plate (nameplate) on the unit (see Fig. 2 for location of the rating plate).
4. The electrical safety of the unit is assured only if the earthing (grounding) system of the electrical system in the building is in proper working condition, in accordance with pertinent regulations.
5. Do not use extension cords or cables, or trailing sockets, to connect the unit to the building power outlets.
6. Only specially trained after-sales engineers may open the unit or repair it.
7. If the unit malfunctions, or if it requires service or repair, it must first be disconnected from mains power. To do this, pull out the power plug, or switch off the fuse. When pulling out the power plug, pull on the plug and not on the cable. Also close the water tap.
8. Do not allow children to have access to MELAclean® Disinfection Cleanser, or to the MELA*clean*® Rinse Agent used with the unit. Also do not allow children to access the inside of the unit: residue of Disinfection Cleanser or Rinse Agent may still be inside the machine.
9. Do not drink the water from the washing compartment; it is not potable.
10. **DANGER:** Do not place or use any solvents in the washing compartment. **This could cause an explosion**.
11. Protect the hoses and cables from any sources of heat and from any high temperatures.
12. If the MELA*clean*® is installed to be free-standing (i.e., not in a cupboard or cabinet), it must be secured against tipping and falling over toward the front. See the Installation Instructions given in Section 7.1 below.
13. Use only the MELA*clean*® Disinfection Cleanser and the MELA*clean*® Rinse Agent as instructed in these pages.
14. **Caution**: Do **not** connect the MELA*clean*® to a hot water supply. If hot water is used, and if temperatures rise above 40°C, there is a danger that contamination containing protein will coagulate on the instruments, and that they will not be cleaned properly.
15. Only use adequate instruments in MELA*clean*®. Please read the information in chapter 4.5 on damages to certain kinds of objects during cleaning.

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The proper functioning and the sufficiently long service life of this unit depend on the following:

1. That the unit is properly set up and installed
2. That the unit is properly maintained and serviced
3. That only the high-quality disinfection and rinse aids specified above are used in the unit: MELA*clean*® Disinfection Cleanser and MELA*clean*® Rinse Agent

3 Description of the unit

3.1 View of MELAclean®



Fig. 1: **Front view**

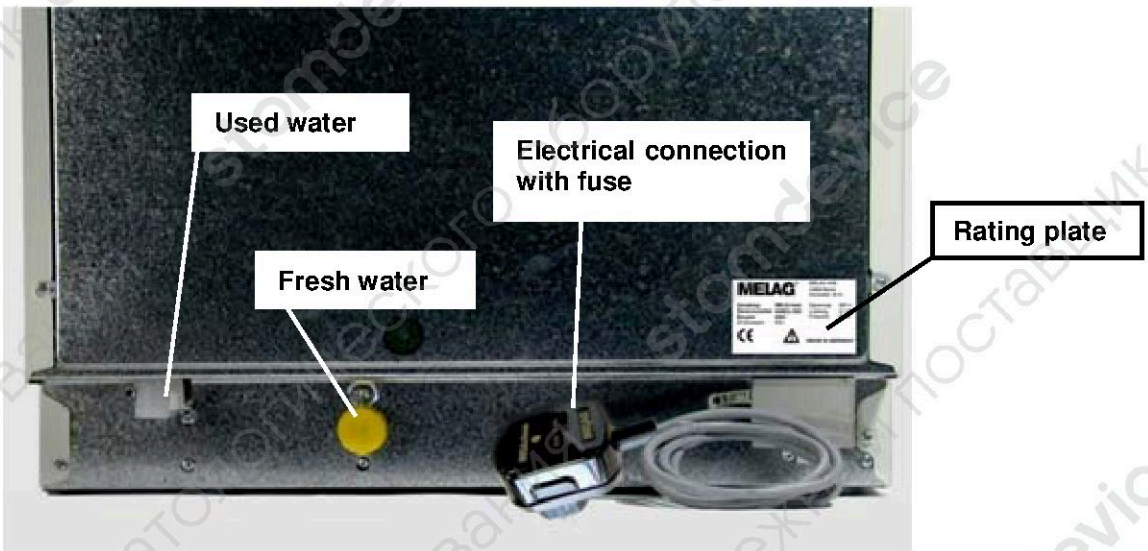


Fig. 2: **Rear view of the lower part of the unit**

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3.2 Power and water connections for MELA*clean*®

The unit must be installed so as to be level and stable. Follow the Installation Instructions given in chapter 8.1. Make sure that the following services and utilities are available:

- **Drain for used water:** Follow the Installation Instructions given in Fig. 22 to Fig. 25. Use the parts supplied with the unit to make these connections.

- **Fresh water:** Make the connection for fresh water by following the Installation Instructions given in Fig. 22. The water pressure must be at least 0.3 bar, but not more than 10 bar. The water flow rate should be at least 10 litres per minute. After installing MELA*clean*®, be absolutely sure to carefully check the water connections on the unit, at the water-supply tap, and at the drain for used water, to ensure there are no leaks.
  In your building, you must also be sure to connect other consumers to the drinking-water network in accordance with the regulations given in the European standard EN 1717, in order to prevent any contamination of the water-supply network. The water separation is provided on the machine side, so no further measures are necessary.

  To prevent water damage, we recommend that you install a leak monitor with shut-off valve: the product Water stop valve from MELAG, article no. 01056. **Important:** if the unit is not planned to be used for a lengthy period of time, then it is very important to shut off the supply of water to it.

  Caution: Do not allow MELA*clean*® to operate without being supervised.

- **Electrical connection:** Connect the unit only to a 220 … 230 V AC power supply, to a power outlet that has been installed in accordance with pertinent regulations. The power outlet must be located near the MELA*clean*®.

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3.3 Operator - Panel



Fig. 3: **Operator-Panel**

1 – Door opener
2 – Indicator lamp (Is on, when the program is running)
3 – Start button (ON / OFF)
4 – Program selector knob
5 – Salt refill indicator (in this picture, it shows half full)

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3.4 View of interior



Fig. 4: **View of interior**

A – Serial number (also see Section 7.1; Fig. **21**)
B – Opening to refill the regeneration salt
C – Spray arm
D – Coarse and fine filters
E – Opening to refill the MELA*clean*® Rinse Agent
F – Opening to refill the MELA*clean*® Disinfection Cleanser

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4 Before starting the unit

4.1 Setting the water softener to the correct hardness

To function satisfactorily, the MELA*clean*® Instrument Washer requires good-quality water. A water softener is therefore built into the unit. This integrated water treatment system has been designed to optimally meet the requirements of the MELA*clean*®.
Important: Before placing the unit into operation, you must set the water softener for the degree of water hardness in your location. Ask your local waterworks for water hardness at your location. Then set the water softening system as shown in Fig. 6.
Important: After you have filled the regeneration salt, make sure that you have properly and tightly closed the salt container. **Caution:** Rinse water must not enter the container for regeneration salt.
Danger: Never put MELA*clean*® Disinfection Cleanser or any other cleanser in the salt container. This would destroy the water softener, and the guarantee will not apply to such cases.

4.2 Refilling with salt

Caution: use only special regeneration salt for dishwashers
Before starting the MELA*clean*® for the first time, fill about half a litre of water into the salt container before filling with salt. To fill the regeneration salt, turn the lid of the salt container anticlockwise as shown in Fig. 5, pull out the container, and fill with salt as shown in Fig. 7. When full, push the container back in and turn clockwise to tightly close the lid. We recommend a fine or coarse-grained regeneration salt: Use only the type made for dishwashers. **Caution:** Never use household salt, thawing salt, animal salt, or any other kind of normal salt. They contain insoluble constituents which interfere with the water softener. The salt container holds approx. 0.5 kg of regeneration salt. Refill the salt just before you start the program (otherwise, it may cause corrosion to the MELA*clean*® machine). To see when the salt container must be refilled, look at the salt refill indicator (see Fig. 3, no. 5).

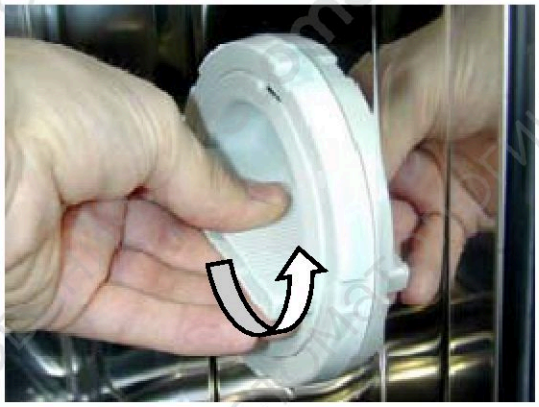
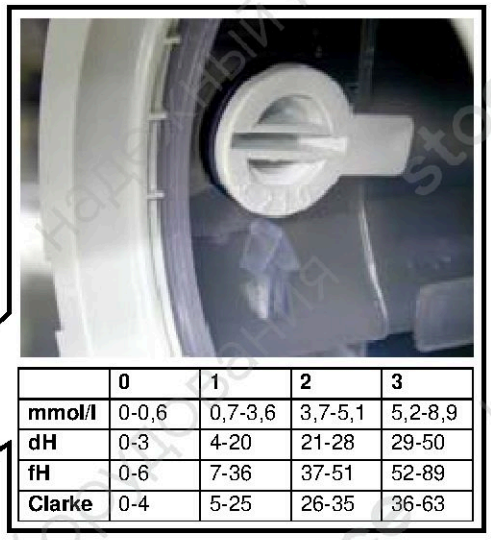


Fig. 5: **The container for regeneration salt**



	0	1	2	3
mmol/l	0-0,6	0,7-3,6	3,7-5,1	5,2-8,9
dH	0-3	4-20	21-28	29-50
fH	0-6	7-36	37-51	52-89
Clarke	0-4	5-25	26-35	36-63

Fig. 6: **Setting the water softener**

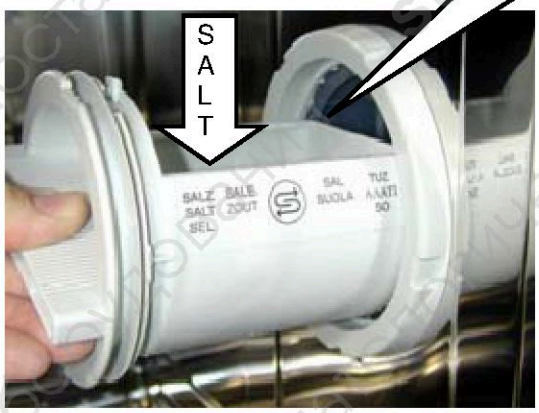


Fig. 7: **Refilling with regeneration salt**

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4.3 Refilling with MELA*clean*®- Rinse agent

MELA*clean*® Rinse Agent (art.-no. 00135) is necessary for a clear rinse and for neutralization after cleaning the instruments. MELA*clean*® Rinse Agent prevents the formation of spots on the instruments, and enhances drying results.
Use only MELA*clean*® Rinse Agent in the MELA*clean*®. Turn the lid of the container for the rinse agent to the left, and open the filling compartment (see Fig. 8 below).



Fig. 8: **Container for MELA*clean*® - Rinse Agent**

Fill the MELA*clean*® Rinse Agent into the opening until the light-coloured filling indicator (Fig. 9) has become completely dark. You can see if there is enough MELA*clean*® Rinse Agent in the MELA*clean*® by seeing how dark the indicator has become (fully dark = full). Then screw the lid shut again until it is tight. If you have spilled any Rinse Agent, wipe it up with a cloth. When you start the cleaning program, MELA*clean*® will automatically add the correct amount of Rinse Agent.

4.4 Refill indicator for MELA*clean*® - Rinse Agent

When the refill indicator becomes light-coloured, refill with MELA*clean*® Rinse Agent. When the indicator is dark, there is enough Rinse Agent in the machine.

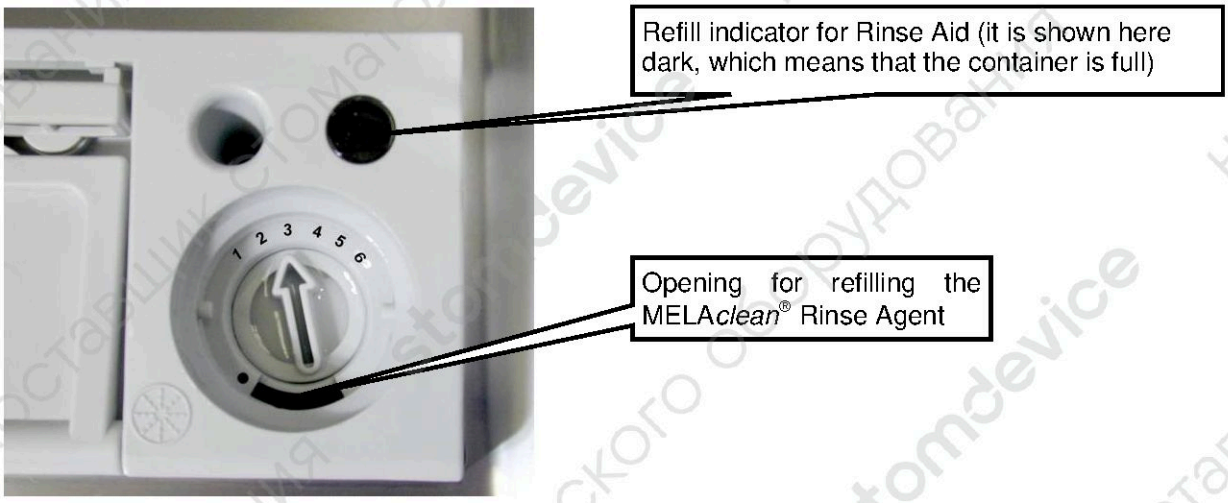


Fig. **9**: **Dosing regulator for MELA*clean*® - Rinse agent**

You can set the dosing regulator, continuously variable, from 1 to 6. The factory default setting is 3. Change this setting on the dosing regulator only if streaks or water spots appear on the instruments.

- If you see streaks on the instruments, then turn the dosing regulator slightly to the left (toward the lower numbers)
- If water spots appear, then turn the dosing regulator slightly to the right (toward the higher numbers).

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4.5 Loading with instruments

- To remove coarse or stubborn contamination (e.g., cement residue) please clean these instruments manually before loading into the MELA*clean*® .
- Do not use any other chemicals for preliminary cleaning of instruments.
- Load all vessel-shaped instruments – such as glasses, cups, etc. – with their openings downward.
- If objects have recesses or concave shapes, place them at an overturned angle so that the water can run out of them.
- Place high, narrow, and vessel-shaped objects in the middle area, where they are directly under the water spray. Suction canulas (Ø 16 mm dental) must be placed in the washing basket G with the wide opening facing up (see Fig. 11)!
- It is most effective to place long instruments horizontally, like in Fig. 11, washing basket K.
- Load the instruments next to each other in this way, vertically or horizontally, so that the spray of water can reach all places on the instruments.
- Good cleaning results depend on correct positioning of the load. Avoid the spray to be blocked off. The cleaning solution must reach all parts of the instruments, so that the following rinsing is completed successfully in the machine.

WARNING! In order to prevent injuries by pointed or sharp-edged instruments, we urgently advise that staff wear protective gloves. Always be careful when loading and unloading instruments from the baskets. **Follow the safety precautions. Generally, instruments must be examined for possible contamination residues after cleaning with the MELA*clean*® system.**

Damages to certain kinds of objects during cleaning:
Plastic parts sensitive to hot water, as well as aluminium parts, can become discoloured or faded as a result of the cleaning process. Poor-quality glass can also become murky after many cleaning cycles. Metallic instruments must consist of stainless material; otherwise, rust will form and film rust (transferred rust) will develop. MELA*clean*® is not suitable for instruments with narrow hollow spaces, handpieces, endoscopical instruments, as well as textiles and cellulose.

Our recommendation:
Use the MELA*clean*® to prepare only instruments whose manufacturers have confirmed that they are suitable for automatic conditioning in such system.

The MELAG basket system:

In order to assure ease of handling of the entire instrument cycle in your medical work, and to provide universal loading conditions, we have developed baskets that you can directly load into an autoclave after the end of the MELA*clean*® Instrument Washer cycle. All baskets are made of high-quality stainless steel.
The MELA*clean*® comes with a **basic rack** (see **Fig. 10**), into which you place the individual washing baskets. The upright supporting rods, which can be folded down or up, allow washing of 4 vertically standing sterilization or washer trays. If anodized aluminium parts or trays are used, discolouration or dull spots can occur on these parts after washing if the anodized finish is of poor quality.



Fig. 10: **Basic rack with support bars in the upright position**

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Washing basket G
(MELAG article no. 00131)
For washing of upright instruments or dental aspirators. Forceps should be loaded in open position.
Suction canulas must be placed with the wide opening facing up

Fig. 11: **Washing basket G**



Washing basket K
(MELAG article no. 00132)
For loading of horizontal instruments. Up to 3 of these baskets can be stacked vertically.

Fig. 12: **Washing basket K**



Small parts container
(MELAG article no. 00133)
For loading drills, burrs, indo instruments, needles, or other small items.

Fig. 13: **Small parts container**



Washing basket Sp
(MELAG article no. 00136)
Designed especially for gynaecology surgeries. It can hold up to 7 Kristeller specula, or up to 14 Cusco or Semm specula. Two baskets fit into the basic rack of MELA*clean*®.
(For instructions of loading see 4.6)
2 Washing baskets fit into the basic rack.

Fig. 14: **Washing basket >Sp< for specula**

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4.6 Loading instructions for specula into washing basket >Sp<

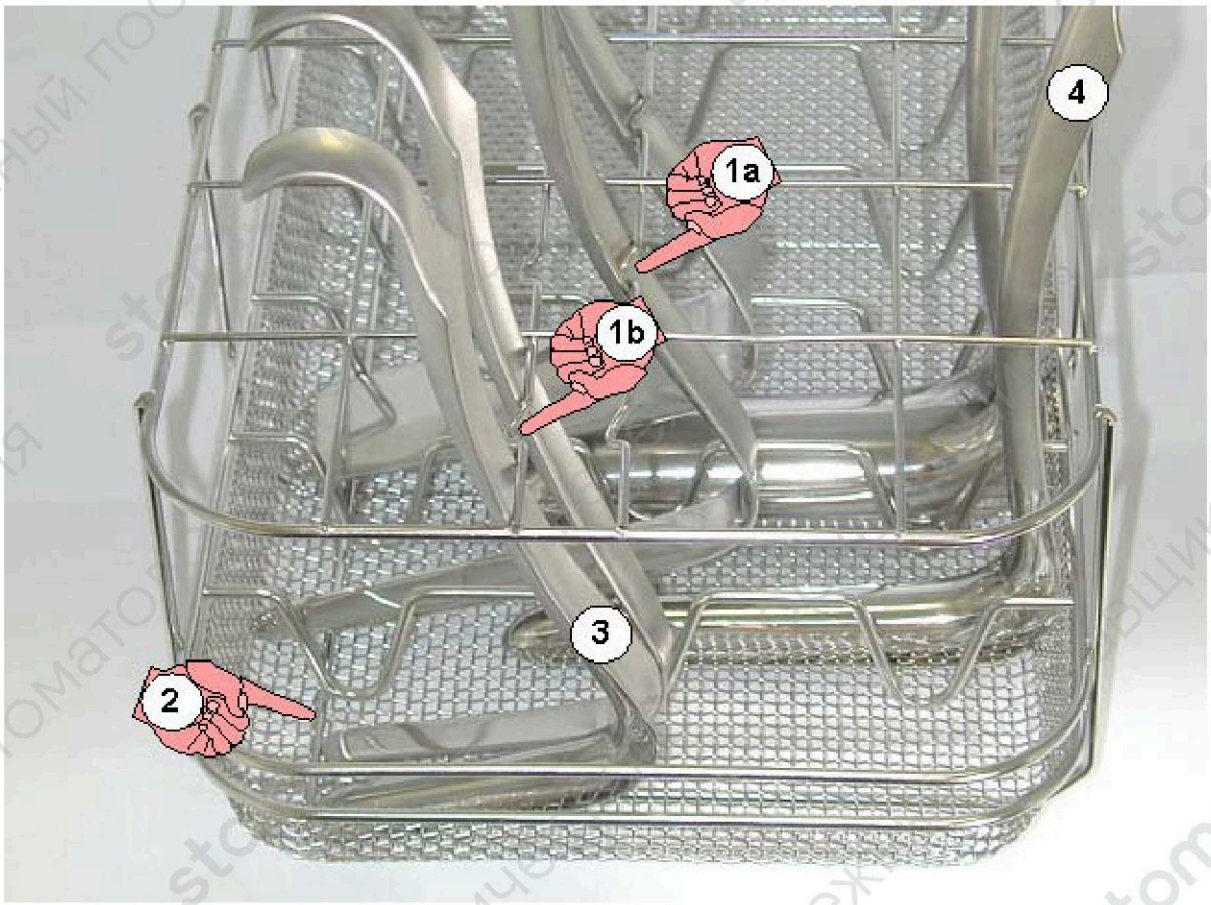


Fig 15: **Loading instructions for washing basket >Sp<**

Loops (1a and 1b) in the long wires serve to hold Kristeller vaginal specula for sterilization. For the desired inclined postion, these loop wires are used both as middle mount (1a) and also as separation mounting (1b) for each of the instruments being sterilized. – depending on the size of the Kristeller speculum.
It is possible to further raise this inclined position by using an additional support edge (2) on the bottom of the sieve bowl.
Taking advantage of this possibility improves the run-off of residual liquids.
Long Kristeller blades are positioned either inclined (3) or standing, depending on their size.

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4.7 Filling with MELA*clean*® - Disinfection Cleanser

Before starting each program, fill one dosing spoon of MELA*clean*® Disinfection Cleanser (corresponding to 10g) into the container (see Fig. 16 or Fig. 4, item F). If the lid of the container is closed, open it by pressing the button shown by the arrow on Fig. 16.

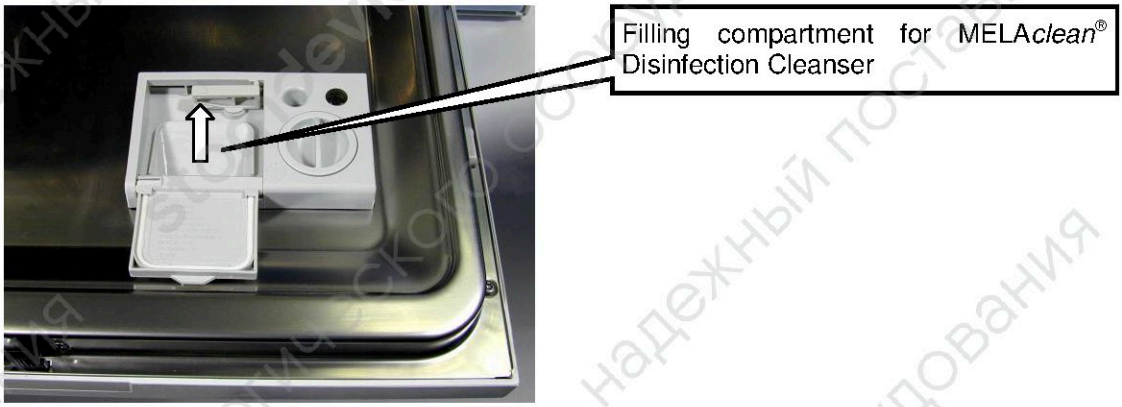


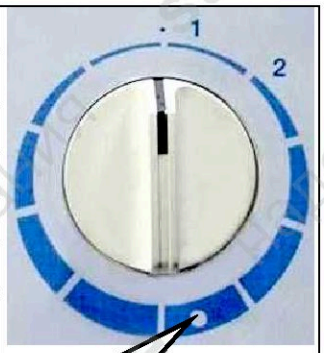
Fig. 16: **Filling compartment for MELA*clean*® - Disinfection Cleanser**

When the washing cycle is finished, the compartment for MELA*clean*® Disinfection Cleanser will always be open. **Warning: Use only MELA*clean*® Disinfection Cleanser in powder form.** Please read the instructions on the package for our recommendations on the amount to use. After filling the compartment, close the lid until you hear it lock with a click. During the washing cycle, the compartment lid will automatically open, and the water will wash the MELA*clean*® Disinfection Cleanser out into the washing compartment.

5 Overview of the programs

5.1 Selection of a program

Program:	**1**	**2**	**o**
Temperature:	65°C	65°C	30°C
Program-Description:	**„Intensive“**	**„Normal“**	**„Prewash“**
Objects loaded:	Instruments	Instruments	
Soiling level:	normal	heavy	
Duration of program:	85 min	75 min	45 min
Amount of MELA*clean*® Disinfection Cleanser:	10g	10g	10g



Additional prewash program:
Use this program to remove slight soiling on smooth glass or plastic surfaces, at only 30°C.
WARNING:
Even if you use MELA*clean*® Disinfection Cleanser for this program, it does not disinfect the objects in the machine.

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6 Running a program

6.1 Switch on the MELA*clean*®

Give the spray arm a spin to make sure it turns easily without obstruction (see Fig. 4, item C). If some object prevents it from turning, move this object out of its way.

- Close the door.
- Turn the water tap full on.
- Turn the program selector only in clockwise direction until it exactly points to one of the programs: i.e., to Program **1**, Program **2**, or "**o**" (see Fig. 3, item 4). **CAUTION:** Do not set the program selector to any other position but **1**, **2**, or "**o**".
- Press the START button (see Fig. 3, item 3). The indicator lamp will light up (see Fig. 3, item 2).
- When you press the START button the door will get locked. This feature prevents the door from being opened before the washing cycle has fully run (it is not possible, for example, for the user to stop the machine and load instruments that have been forgotten).

6.2 Indication of progress of program run

As the program runs, the program selector switch will run backward (clockwise), back toward the vertical start position, and will show the progress of the program. The selector switch will not move during the heating-up phase.

6.3 End of a program cycle

The washing program is finished when the program selector switch (Fig. 3, item 4) has finished turning and once again points vertically to the START position. After the washing cycle is finished, allow the objects inside to cool down for approx. 15 min. To do this, switch off the START button, and place the machine door in its first latching position immediately after the program ends. This will allow the objects to dry faster. The objects will dry even faster if you open the machine door completely when the program ends.
IMPORTANT: After successfully and proper cleaning of the instruments in the MELA*clean*®, all instruments should be sterilized, in order to assure optimal hygiene. Please remember that, in sterilizers with a round sterilization chamber, the longest instruments must be placed in the middle of the individual baskets.

6.4 Switching off the machine

After the end of the program, the program selector switch (see Fig. 3, item 4) has to show vertically to the START position.

- Press the START button (Fig. 3, item 3). The indicator lamp will go off (Fig. 3, item 2).
- When you press the START button, this will unlock the door.
- Turn off the water tap.

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6.5 Periodic care of the machine

Check both of the two filters (Fig. 19 and Fig. 20) regularly, especially if you have washed heavily soiled instruments. If you find residue in the filters, unscrew the filters by turning the threaded filter fastening in the direction indicated (see Fig. 17: “open” and “close”). Make sure that no residues and – in particular – no coarse particles can reach the drain pan. These particles and residues can cause the pump to malfunction. Remove the coarse filter and the fine filter and clean them. Then install them again.
Check the spray arm (Fig. 4, item C) to make sure that its openings are not clogged up. If they are clogged, clean them. The spray arm is only latched into place: it can be pulled off upward. After cleaning the spray arm, press it back into place until it latches securely.



Fig. 17: **Threaded filter fastening**



Fig. 18: **Enlarged view of filter fastening**

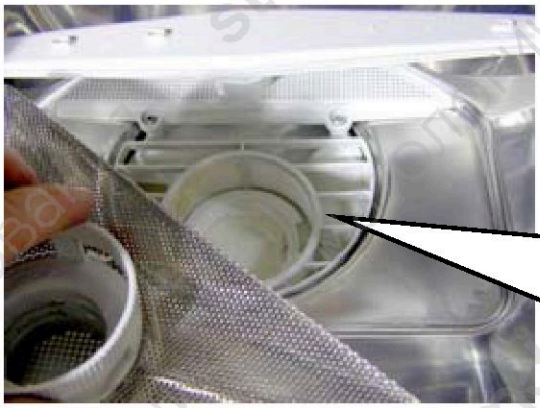


Fig. 19: **Coarse filter**

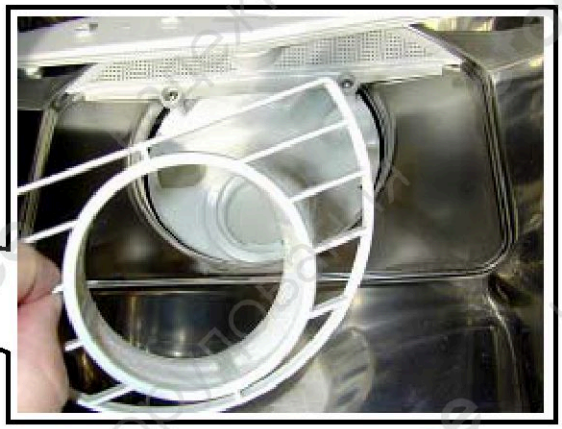


Fig. 20: **Enlarged view of fine filter**

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7 Problems in the program cycle

7.1 After sale service

If your unit is not functioning satisfactorily, please check the following pages to see if you can solve the problem yourself.

If you cannot correct the error yourself, please call your specialist MELAG dealer and have the serial number of the unit at hand. The serial number can be seen on the rating plate on the rear of the unit (shown in Fig. 21) as well as on the interior of the housing frame (top right).

This unit is subject to the relevant safety regulations that apply to electrical appliances. Only specialist technicians or engineers may repair electrical appliances. The user can suffer serious injuries or damages if repairs are not performed properly.



Fig. 21: **Rating-plate**

Annotation

Caution: Pay attention to accompanying documents

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7.2 Correct minor difficulties yourself

Difficulty:	Possible causes and correction:
The indicator lamp does not burn.	• The START button was not switched on. • The power plug has not been plugged in to the socket. • The fuse in your building or rooms has blown. • The fuse in the plug of MELA*clean*® has blown.
The MELA*clean*® machine does not start up.	• The door of the unit has not been completely closed.
The MELA*clean*® machine stops before the cycle is finished.	• You have not opened the water tap. • The filter in the fresh-water hose is clogged.
Water collects inside the MELA*clean*® machine.	• The used-water drain hose has a kink (a twist or curl). • The coarse or the fine filters inside the MELA*clean*® Instrument Washer may be clogged. Check them and clean them out if necessary.
The lid for the compartment for the MELA*clean*® Disinfection Cleanser cannot be closed.	• The last program cycle has not been finished. • You have placed too much MELA*clean*® Disinfection Cleanser powder in the compartment.
The spray arm is difficult to turn by hand.	• Pull off the spray arm and clean it. Also clean the bearing of the spray arm.
The door cannot be opened.	• You have not turned off the START button. • You have not pressed the door opener button
There is a white coating on the instruments.	• You may have not used the correct amount of MELA*clean*® Disinfection Cleanser and / or MELA*clean*® Rinse Agent. See Section 4.4 for the correct amounts. • There is no regeneration salt in the water softener. • The lid of the container for the regeneration salt may not have been securely closed. • The water softener may not be set to the correct hardness setting. Set the water softener (Fig. 6) to a higher hardness number: see Section 3.2.) • You may not have used a suitable type of disinfection cleanser. Use only MELA*clean*® Disinfection Cleanser. • You may not have used a suitable type of rinse agent. Use only MELA*clean*® Rinse Agent.
There are streaks on the instruments.	• You may have used too much MELAclean® Rinse Agent. • You may not have correctly adjusted the dosing regulator for the MELA*clean*® Rinse Agent. See Section 4.4.
After the drying phase, there are still drops of water on the instruments.	• You may have used too less MELAclean® Rinse Agent. • You may not have correctly adjusted the dosing regulator for the MELA*clean*® Rinse Agent. See Section 4.4.
There is a knocking sound from inside the machine.	• Make sure you have arranged the instruments properly in their baskets.

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Difficulty:	Possible causes and correction:
Rinsing is not satisfactory.	• You may have not used the correct amount of MELA*clean*® Disinfection Cleanser and / or MELA*clean*® Rinse Agent • After you filled the MELA*clean*® Disinfection Cleanser, you may have turned the program selection switch too far. This means that the MELA*clean*® Disinfection Cleanser will be added too soon. • The instruments have been loaded so as to prevent the spray arm from turning freely. • The coarse and/or fine filter may be clogged (see Figs. Fig. 19 and Fig. 20). • The filters may not have been inserted exactly correctly into their recesses (the edges of the filters may not be flush with the surface). • The spray holes in the spray arm may be clogged. • You may have selected a program that is too mild. • The filter may not have been screwed down securely. • Generation of foam inside the machine because of residues on the instruments.
The lid of the compartment for the MELA*clean*® Disinfection Cleanser has not opened.	• The loaded instruments may have blocked the lid of the compartment for the MELA*clean*® Disinfection Cleanser. • You may not have observed the proper sequence when switching the machine on.
Production of large amounts of foam (Foam and / or water runs out of the door)	• Residues from other disinfectants or from instrument bath liquids on the instruments to be loaded into the MELA*clean*®

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8 Installation possibilities

8.1 Installation instructions

IMPORTANT: For <u>all</u> installation possibilities, be sure to secure the fresh-water and the used-water hoses as they are shown below in "Installation Instructions 1".

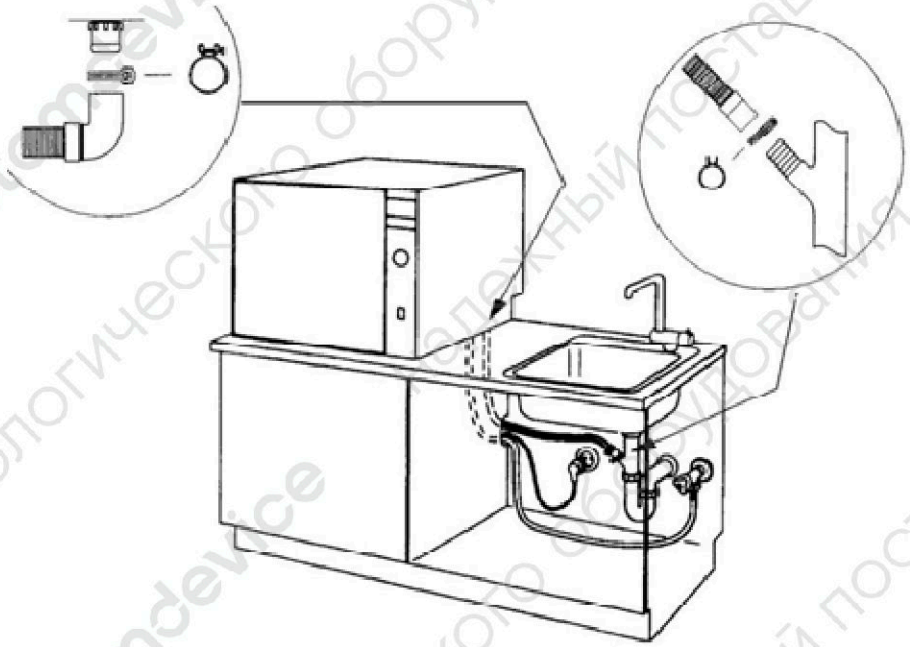


Fig. 22: **Installation instruction 1**

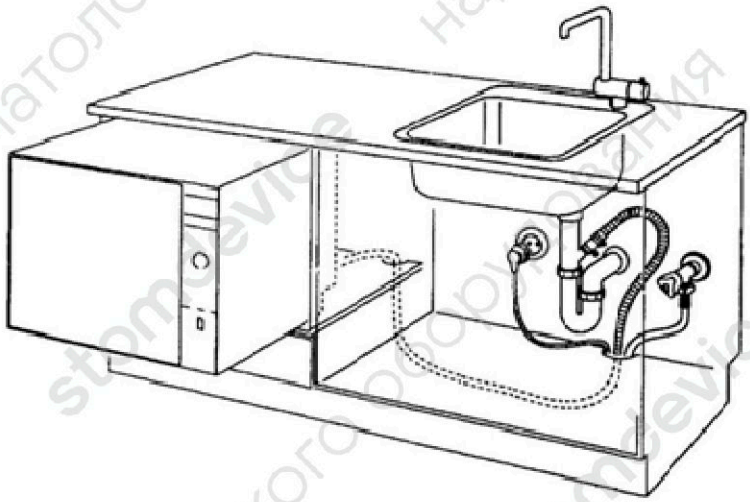


Fig. 23: **Installation instruction 2**

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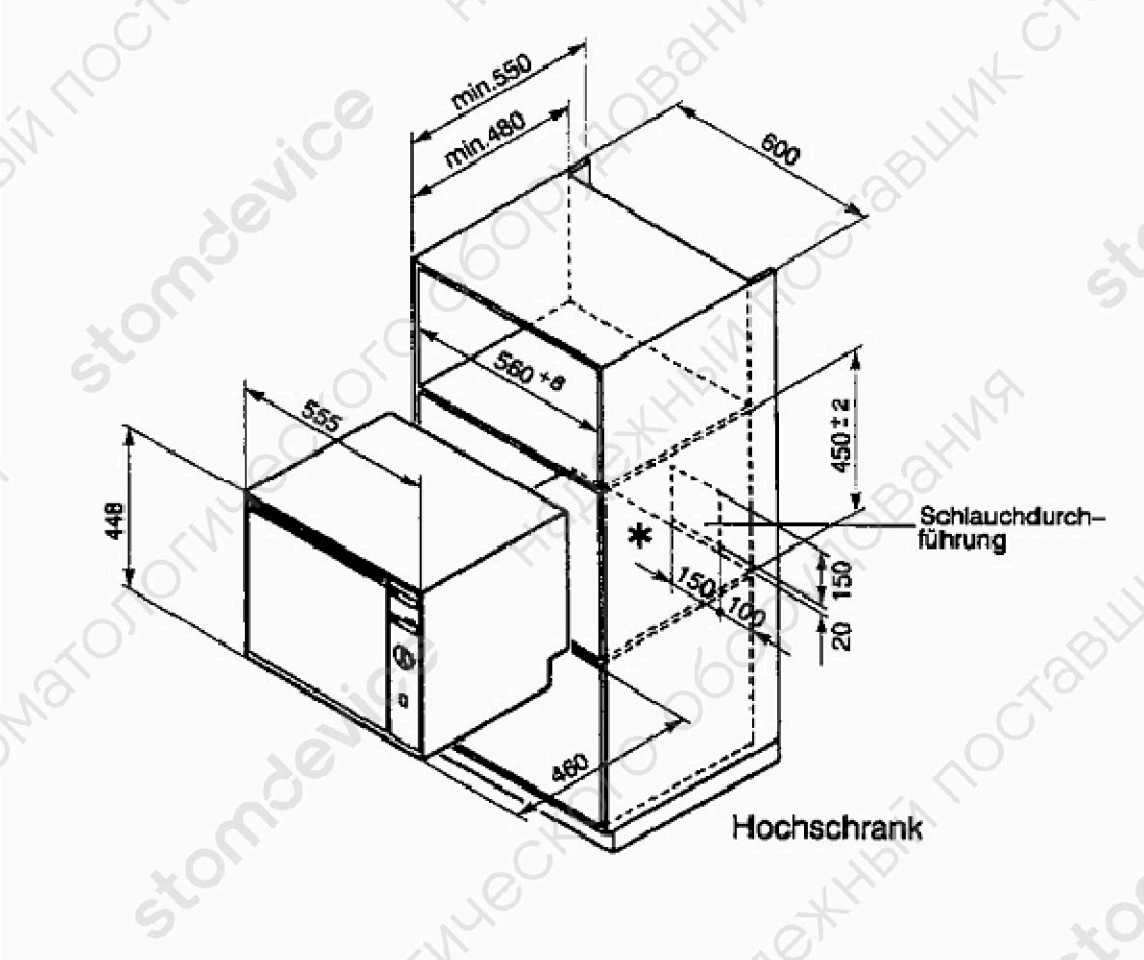


Fig. 24: **Installation instruction 3**

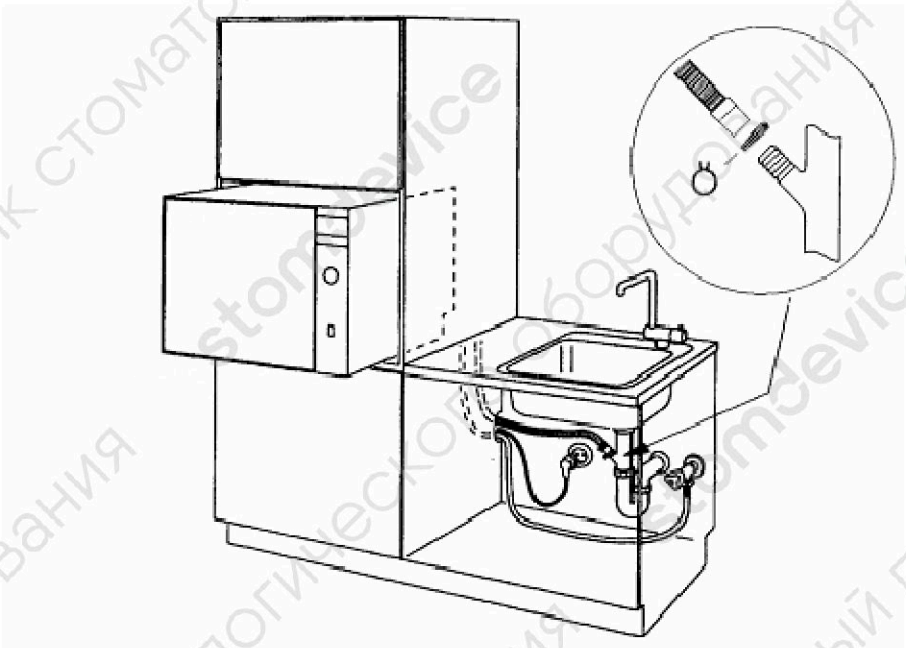


Fig. 25: **Installation instruction 4**

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9 Additional instructions

9.1 Technical information

- The MELA*clean*® was thoroughly tested before it left the factory. This testing procedure may have left behind small water spots. They will disappear, however, after the first washing cycle.
- Be sure to secure the MELA*clean*® against tipping over (please see the Installation Instructions).
- Transport the MELA*clean*® only in an upright position. If you try to transport the unit while tilted, any water remaining inside may run into a control unit and cause faulty program cycles.
- If you wish to dispose of your MELA*clean*®, immediately render it incapable of being operated. Unplug the power plug, cut through the power cable, and damage the door lock so that it is no longer functional. Then take the unit to an authorized disposal facility.
- Radio and television interference suppression is according to European Community Directive 87/308/EWG, and/or European Standard EN 55014.
- If the water pressure is less than 1 bar, the rinsing noise during the pre-wash program can be louder than otherwise.

9.2 Consumables and accessories for MELA*clean*®

MELA*clean*® Disinfection Cleanser	MELAG article number 00134
MELA*clean*® Rinse Agent	MELAG article number 00135
MELA*clean*® Basic rack (WxHxL: 41x12x39 cm)	MELAG article number 00130
MELA*clean*® Washer Basket G (WxHxL: 19 x 10 x 28 cm)	MELAG article number 00131
MELA*clean*® Washer Basket K (WxHxL: 17 x 4 x 32 cm)	MELAG article number 00132
MELA*clean*® Small parts container (⌀8 x 19 cm)	MELAG article number 00133
MELA*clean*® Washer Basket Sp (WxHxL: 19 x 12 x 34 cm)	MELAG article number 00136

9.3 Program and data of the machine

Program:	**1**	**2**	**o**
Duration of the program:	85 min	75 min	45 min
Power consumption:	0,9 kWh	0,7 kWh	0,5 kWh
Water consumption:	14 Liter	12 Liter	8 Liter
External dimensions:	55.5 cm wide x 45.5 cm high x 46.5 deep		
Interior dimensions:	42 cm wide x 33 cm high x 37 cm deep		
Depth when the door is opened:	78cm		
Weight :	23kg		
Length of the power cable:	180cm		
Length of the fresh-water hose:	190cm with ¾“ Connection		
Length of the used-water hose:	140cm corrugated hose made of PPN		
Electrical ratings required:	230V~50Hz; 2kW; 10A		

9.4 Operating conditions

Surrounding temperature	+ 10°C to + 40°C
Relative humidity	30% to 75%

9.5 Scope of supply

MELA*clean*® Instrument washer
Basis rack with support bars, that can fold-out
Pressure and sewage hose
MELAclean® regeneration salt (starter filling)
Operation manual / Conformity- and warranty declaration / Delivery record

We reserve the right to make technical modifications without prior notice.

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