

Translation of the original Manual

english

Elma Mutebox

Elmasonic Accessories



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Subject to technical and visual modifications.

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1 About this manual

NOTE Please read the manual before using the product. This manual forms part of the contents supplied with the unit. Keep the manual in an accessible place close to the product, and keep it with the product if it is sold on.

Meaning of the symbols used:

- This symbol denotes lists.
- ✓ This symbol denotes requirements.
- 1. Numbers with a dot denote actions.
- This symbol denotes individual actions.
- ⇒ This symbol denotes interim results.
- ➔ This symbol denotes the result of an action.
- 1 Numbers without a dot denote image labels.

1.1 User

In the manual, the term User refers to all persons who transport, set up, connect, operate and maintain the unit. The manual is aimed at persons with appropriate technical knowledge and experience in handling similar units.

The user is at least 16 years old. They must have read and understood the manual and be capable of following all notes and instructions.

All tasks that go beyond the pure operation of the unit within the scope described here must be performed by qualified and authorised specialists.

1.2 Other applicable documents

In addition to the specifications given in this manual, the following documents and directives also apply and may take precedence. This list is not exhaustive:

- Regional safety regulations and other locally applicable provisions.
- Safety data sheet and dosing instructions of the cleaning agents used.
- All serious incidents that occur in connection with the product must be reported to the manufacturer and the responsible authority of the member state in which the operator and/or the patient are resident.

1.3 CE mark

This unit fulfils CE marking requirements in line with EU (EC/EEC) directives. Details are stated in the EU declaration of conformity that can be obtained from the manufacturer.

Technical changes to the unit must be approved by the manufacturer. The unit is no longer CE compliant if opened by an unauthorised person.

2 Proper use

2.1 Elma Mutebox

The Elma Mutebox is an accessory for ultrasonic cleaning devices used for passive reduction of the level of noise to which the operator is exposed during operation.

The operator can place the ultrasonic cleaning device inside the box for this purpose. Manually switched on, active exhaust air prevents the condensation of water vapour in the Elma Mutebox both during and after operation of the ultrasonic cleaning device.

The Elma Mutebox is only intended for use in the commercial sector and may only be operated indoors.

Refer to the technical data (see Chapter Technical data [▶ 7]) to find out which Elma units can be operated inside the Elma Mutebox.

The Elma Mutebox must be operated in accordance with the specifications in the manual. The set-up conditions must be observed.

Using the unit in any other way is considered improper use.

2.2 Misuse

Misuse refers to any use of the unit that deviates from proper use. Any misuse takes place at the user's own risk and incurs the following consequences:

- The warranty is invalidated if the unit is misused.
- All liability for personal injuries and damage to property caused by misuse is excluded.

Therefore, it is vital to prevent misuse. This particularly applies to foreseeable misuse that can, for instance, arise in the following circumstances:

- Operation by persons who are incapable of operating the unit safely due to their physical, sensory or mental abilities or due to inexperience or a lack of knowledge. In particular, the unit must be kept out of reach of children at all times.
- Failure to observe safety and warning information and maintenance and repair regulations.
- Failure to observe the conditions defined in the manual for setup and operation.
- Operation using unapproved cleaning agents.
- Operation in areas with explosive atmospheres.

3 Safety

3.1 The structure of warnings



SIGNALWORD

Type and source of the danger


Possible consequences of the danger if disregarded

➤ Measures to prevent the danger










Signal word	Meaning	Consequences if disregarded
DANGER	Immediate danger	Death or serious injury
WARNING	Possible dangerous situation	Death or serious injury
CAUTION	Possible dangerous situation	Slight injuries, damage to components or units
NOTE	Useful information or tip	No risk of personal injury, but possible damage to components or units

Table 1: Meaning of the signal words

3.2 Meaning of symbols on the unit

	<p>Avoid condensation water in the box</p> <p>As long as the medium in the unit is hot, the box must be switched on or the lid open.</p>
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3.3 Meaning of symbols on the nameplate

	Read the manual
	Manufacturer
	Date of production
	Order number
	Serial number
	Temperature limit
	CE mark
	Disposal information
	DC voltage polarity

3.4 Safety information on specific types of hazard

Electrical power

- Always unplug the ultrasonic unit from the socket first before unplugging the mains connection cable from the socket of the ultrasonic unit.

Mechanical damage

- Do not carry the Elma Mutebox by its door or lid handles. Always carry the box from below to avoid damaging the door, lid and sheet-metal parts.

4 Technical data

Elma Mutebox	Unit	ML	XL
Ultrasonic cleaning device			
Units which can be operated in the respective Elma Mutebox		Elmasonic Select/ Med/Easy/P: 10, 20, 30, 40, 60, 100, 120, 180 Elmasonic TT: 30, 60	Elmasonic Select/Med/ Easy/P: 80, 150, 200, 300 Elmasonic TT: 120, 300
Mechanical data			
Max. external dimensions W/D/H (lid and door closed)	mm	545 / 530 / 525	860 / 605/ 525
Max. external dimensions W/D/H (lid and door open)	mm	555 / 975 / 1015	860 / 975 / 1085
Internal dimensions W/D (working dimensions)	mm	430 / 380 / 445	710 / 450 / 445
Weight (empty)	kg	19	27
Volume of the collection tank	L	1,2	2 x 1,2
Max. unit load	kg	45	60
Collection tank material		Plastic/Stainless steel	Plastic/Stainless steel
Material casing		Stainless steel	Stainless steel
Electrical data			
Mains voltage	V	100 - 240	100 - 240
Mains frequency	Hz	50 / 60	50 / 60
Protection class		II	II
Country adapter		EU/UK/USA/Japan/CH	
Low-voltage plug	mm	5,5 / 2,5	5,5 / 2,5
External/internal polarity		+ / -	- / +
DC supply voltage	V	24	24

Elma Mutebox	Unit	ML	XL
Performance data			
Total power consumption	W	9	16
Sound pressure level up to	%	30	30
Noise reduction up to	%	85	85
Ambient conditions			
Transport temperature	°C	+15 - +60	-45
Operating temperature	°C	+10 - +60	+10 - +60
Storage temperature	°C	+5 - +40	+5 - +40
Permissible relative humidity during transport and storage	% r.h.	90	90
Max. permissible relative humidity in operation	% r.h.	90	90
Air pressure during transport and storage	hPa	500 - 1060	500 - 1060

5 Product contents

NOTE	<p>Check delivery for damage to the packaging. Document any damage immediately (e.g. photo), and report it to the manufacturer or dealer.</p> <p>Check that all parts of the delivery are complete and undamaged.</p> <p>Never put a damaged unit into operation.</p> <p>Dispose of packaging materials that are no longer required in an environmentally friendly manner.</p>
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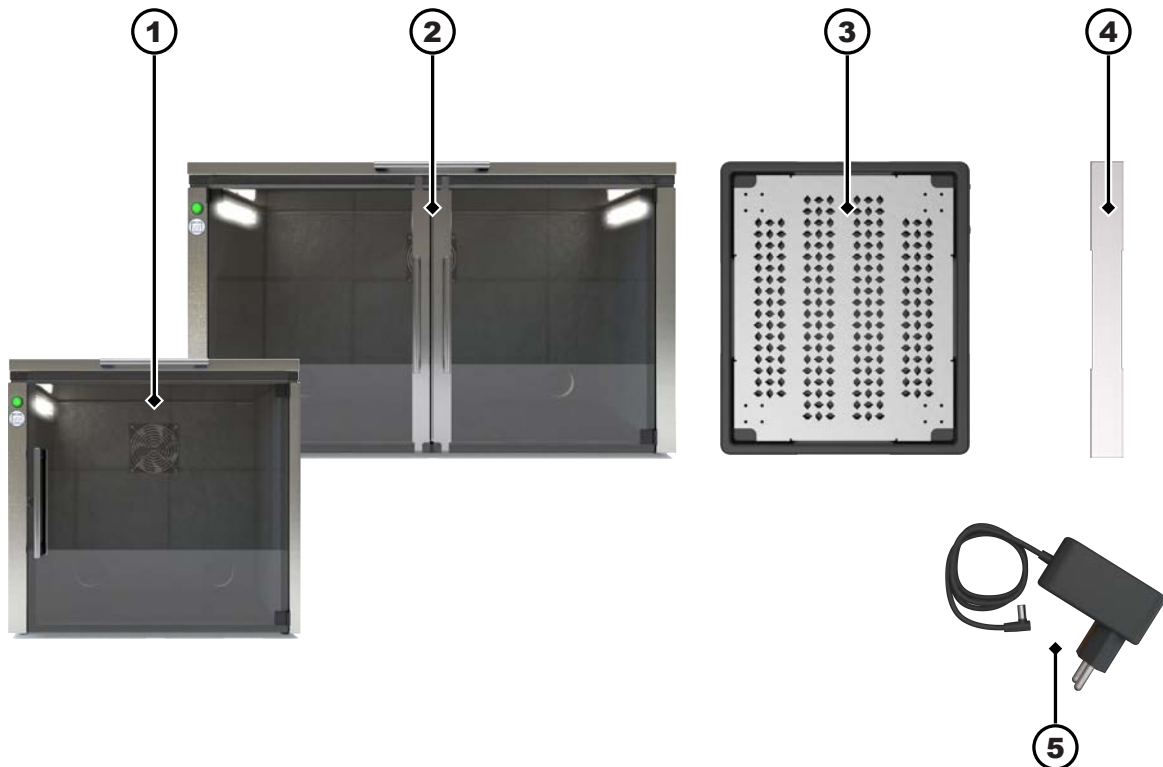


Illustration 1: Scope of delivery of Elma Muteboxes

1	Elma Mutebox ML
2	Elma Mutebox XL
3	Bottom tray with gland plate
4	Elma Mutebox XL splash plate
5	Power supply unit
6	Manual (not shown)

6 Unit description



Illustration 2: Elma Mutebox ML

- | | |
|------------------------------------|----------------------------------------------------------------------------------|
| 1 On/Off button | 6 Feedthroughs in the rear wall: for power cord and drain of the ultrasonic unit |
| 2 Lid handle | 7 Feet, non-slip |
| 3 Blower | 8 Door handle |
| 4 Connection for power supply unit | 9 Condensation water warning (sticker) |
| 5 Nameplate | |

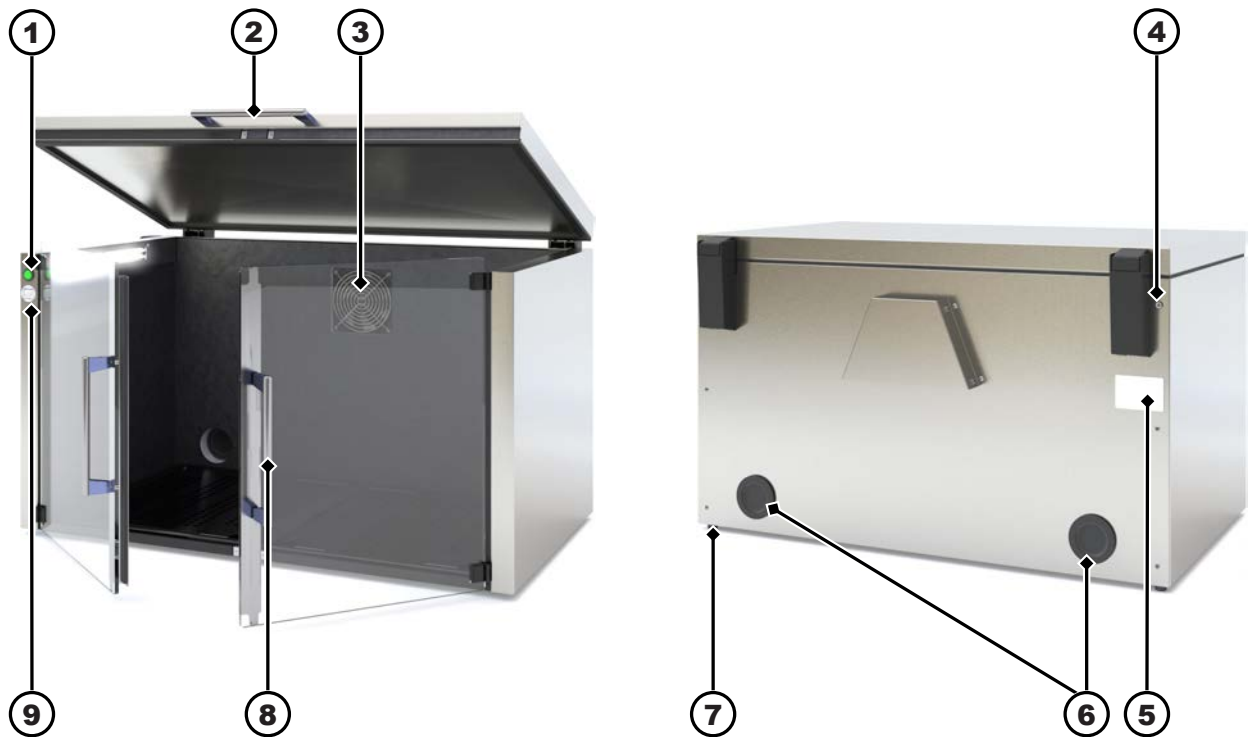


Illustration 3: Elma Mutebox XL

- 1 On/Off button
- 2 Lid handle
- 3 Blower
- 4 Connection for power supply unit
- 5 Nameplate
- 6 Feedthroughs in the rear wall: for power cord and drain of the ultrasonic unit
- 7 Feet, non-slip
- 8 Door handle
- 9 Condensation water warning (sticker)

7 Controls

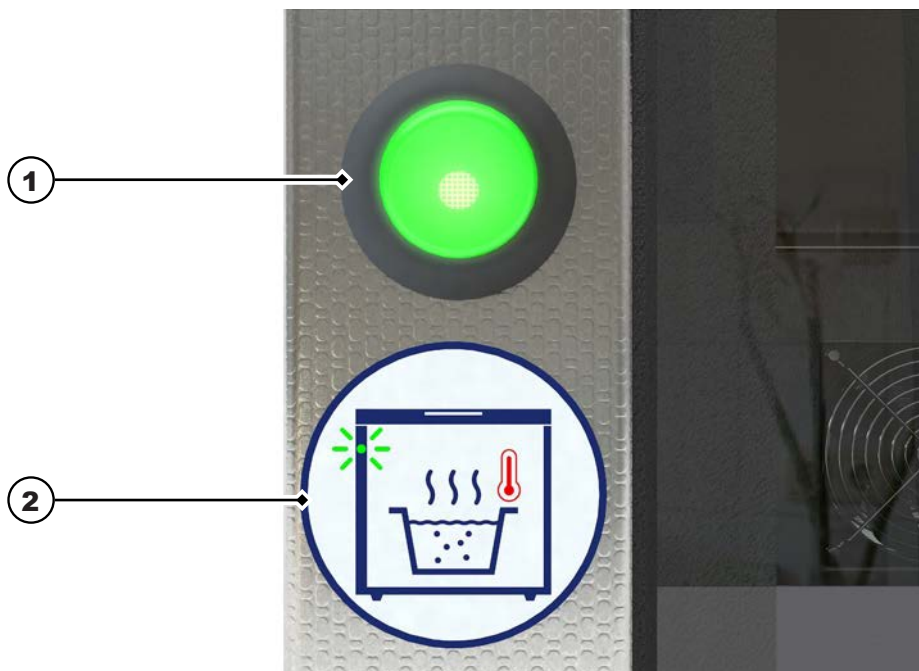


Illustration 4: Switch for blower/light

- | | |
|---|-----------------------------------------------------------------------|
| 1 | On/Off button for switching the unit (blower and light) on/off |
| 2 | Sticker Condensation water warning |

8 Set up and connect the unit

8.1 Notes on installation site

The unit is designed to be installed in commercially used premises such as laboratories, workshops, etc.

- The installation site must be well ventilated.
- The permissible ambient conditions must be met.
- The unit must be installed on a sturdy, horizontal, non-slip, moisture-resistant work surface with the following characteristics:
 - The surface must be non-flammable.
 - There is sufficient space for safely opening the lid above the unit.

8.2 Set up the unit

- ✓ The unit is unpacked completely.
- ✓ We recommend two persons for installing the unit.
- 1. Place the unit on the selected surface.
 - i NOTE! Do not carry the Elma Mutebox by its handles! Always carry box from below!**
- 2. Insert floor pans, gland plates and the splash plate (Elma Mutebox XL) precisely into the Elma Mutebox.
- ➔ The unit has been installed.

8.3 Connect the unit

Placing an ultrasonic unit into the Elma Mutebox

- ✓ The power cord of the ultrasonic unit is unplugged.
- ✓ The drain of the ultrasonic unit is disconnected from the on-site wastewater disposal system.
 1. Open lid and doors of the Elma Mutebox.
 2. Place the ultrasonic unit into the Elma Mutebox.
 3. Guide drain through the grommet and reconnect it to the ultrasonic unit.
 4. Reconnect drain to the on-site wastewater disposal system.
 5. Check drain for leaks.
 - i NOTE! Always insert the mains connection cable of the ultrasonic unit into the ultrasonic unit first before inserting the mains connection cable into the socket.**
 6. Thread power cord of the ultrasonic unit through the opening in the Elma Mutebox and plug it into the ultrasonic unit.
 7. Reinsert power cord of the ultrasonic unit into the socket.
- ➔ The ultrasonic unit is located in the Elma Mutebox and is ready for operation.
 - i NOTE! When the ultrasonic unit is in operation, the Elma Mutebox must be switched on!**

Connecting power supply unit of the Elma Mutebox

- ✓ Ensure that the required power connection is available.
 1. Insert the plug of the power supply unit into the connection on the Elma Mutebox.
 2. Route the power cord in such a way that it does not pose a tripping hazard, cannot be damaged and is not exposed to moisture.
 3. Insert the power supply unit into the socket.
- ➔ The power supply of the Elma Mutebox is connected.

9 Operating the unit

9.1 Opening the unit

NOTE	The lid and doors of the Elma Mutebox can be opened independently of one another.
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Opening the Elma Mutebox ML

- ✓ The Elma Mutebox ML is ready for operation or in operation.
 1. Open lid and door.
 2. The Elma Mutebox can be switched off.
- ➔ The Elma Mutebox ML is open.

Opening the Elma Mutebox XL

- ✓ The Elma Mutebox XL is ready for operation or in operation.
 1. Open lid.
 2. Open right-hand door.
 3. Open left-hand door.
 4. The Elma Mutebox can be switched off.
- ➔ The Elma Mutebox XL is open.

9.2 Switching unit on and off

Switching the Elma Mutebox on

- ✓ The ultrasonic unit in the Elma Mutebox is put in operation as per the description in the manual of the ultrasonic unit.
 1. Close lid and doors of the Elma Mutebox.
 2. Switch Elma Mutebox on with the switch.
 3. Check that the blower of the Elma Mutebox is functioning.
- ➔ The Elma Mutebox is in operation.

Switching the Elma Mutebox off

- ✓ The ultrasonic unit in the Elma Mutebox is switched off.
 1. As long as the ultrasonic unit has not yet cooled sufficiently, proceed as follows so that condensation water cannot form inside the box:
 - The Elma Mutebox must remain switched on (switch is lit up).
 - **OR:** The lid must be open if the Elma Mutebox is switched off.
 2. When the ultrasonic unit has cooled down, the Elma Mutebox can be switched off with the switch.
- ➔ Light and blower of the Elma Mutebox are switched off.

9.3 Emptying floor pan

NOTE

While the ultrasonic cleaning device is in operation, water may come out of the pan. It will collect in the floor pans. To prevent overflow, the floor pans must be emptied regularly.

Emptying floor pan of the Elma Mutebox ML

NOTE

Always unplug the ultrasonic unit from the socket first before unplugging the mains connection cable from the ultrasonic unit.

- ✓ The ultrasonic unit has been removed from the Elma Mutebox.
 1. Open door.
 2. Remove floor pan and gland plate from the Elma Mutebox.
 3. Dispose of water in the floor pan.
 4. Clean floor pan and cover plate with washing-up liquid and water.
 5. Place floor pan back into the Elma Mutebox.
 6. Place gland plate back onto the floor pan.
- ➔ The Elma Mutebox ML is ready for operation again.

Emptying floor pans of the Elma Mutebox XL

NOTE	Always unplug the ultrasonic unit from the socket first before unplugging the mains connection cable from the ultrasonic unit.
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- ✓ The ultrasonic unit has been removed from the Elma Mutebox.
- 1. Open doors.
- 2. Remove splash plate between the floor pans.
- 3. Remove both floor pans and gland plates from the Elma Mutebox.
- 4. Dispose of water in the floor pans.
- 5. Clean floor pan, cover plate and splash plate with washing-up liquid and water.
- 6. Place both floor pans back into the Elma Mutebox.
- 7. Place gland plates back onto the floor pans.
- 8. Insert splash plate between the floor pans.
- ➔ The Elma Mutebox XL is ready for operation again.

10 Faults

Fault	Possible cause	Resolution
Blower is not spinning.	Unit not switched on or no power available.	<ul style="list-style-type: none"> • Switch on the unit. • Check that the power cable is correctly connected and undamaged; replace if necessary. • Check the power supply. • Contact the manufacturer.
Lighting is not working.		

11 Servicing

The following tasks must be carried out on a regular basis:

- During operation: Empty water from the floor pan (see Chapter Emptying floor pan [▶ 14]) so the floor pans do not overflow.
- Clean floor pans, gland plates and splash plate (Elma Mutebox XL) (see Chapter Cleaning the interior [▶ 16]).

11.1 Clean enclosure

NOTE	Please use only material-compatible cleaning agents and cloths so that the surface of the acrylic glass is not damaged. We recommend using a suitable plastic cleaner for acrylic glass with antiseptic properties, e.g. "elma opto clean", as the cleaning agent.
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- ✓ The housing is dirty.
- ✓ The power supply unit is unplugged.
- 1. Wipe all metal surfaces with a damp cloth.
- 2. Clean the acrylic glass panes with a plastic cleaner for acrylic glass if necessary.
- ➔ The housing has been cleaned.

11.2 Cleaning the interior

NOTE

Always unplug the ultrasonic unit from the socket first before unplugging the mains connection cable from the ultrasonic unit.

- ✓ The interior of the unit or the floor pans are dirty.
- ✓ The ultrasonic unit is removed.
- ✓ The power supply unit is unplugged.
 1. Remove floor pans (and splash plate in case of Mutebox XL).
 2. Clean floor of the Elma Mutebox with a moist cloth (the side surfaces of the interior cannot be cleaned).
 3. Rinse floor pans, gland plates and the splash plate.
 4. Allow the surfaces to dry.
 5. Reinsert floor pans and gland plates (and splash plate).
- ➔ The interior is clean.

11.3 Replacing power supply unit

- ✓ The power supply cable or plug contacts are visibly damaged.
 - Replace a damaged power supply unit immediately.
- ➔ The power supply unit is replaced.

12 Disposal

CAUTION

Once the unit has reached the end of its service life, ensure that the unit and accessories are disposed of safely and correctly:



- Clean and disinfect the old device and accessories before disposal.
- Do not dispose of old devices with household waste, but instead at the local collection and recycling points.
- Secure the old device against unauthorised access until removal; if necessary, dispose of the power cable separately.
- Observe regionally applicable disposal regulations.