Instrument treatment in dental practice

For your safety: MELAG – a one-stop shop.

The **MELAG** dental program at a glance

Quality – made in Germany

MELAG
competence in hygiene

MELA*therm* – The quickest cleaning and disinfection

Simple, safe and value-for-money.

Automatic cleaning and disinfection of the instruments using a washer-disinfector is the safest procedure in terms of patient and staff protection. As an international market leader in the infection prevention sector, we do not just want to provide the best devices, but seek to improve the decontamination process, so that you have more time for more important matters.

We have drawn on our decades of experience with practice steam sterilizers to develop a world-class washer-disinfector, the **MELA*therm* 10**, which has already found use in over 12,000 dental practices.
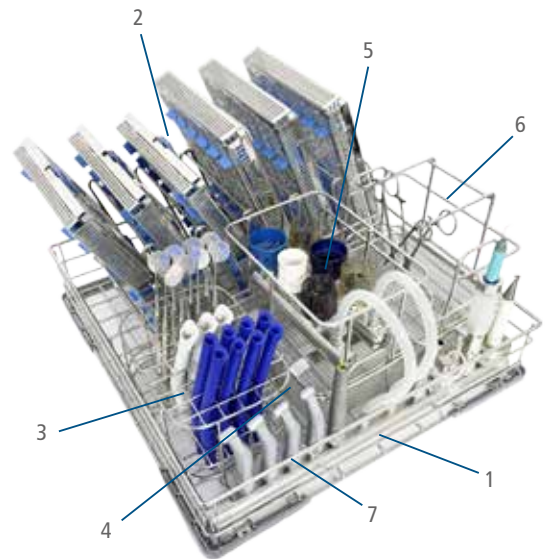
MELA*therm* 10

All available **at no extra cost**:

1. Instrument protection through active drying

2. An integrated metering module and integrated drawer for the process agents

3. Integrated documentation with two network interfaces and a CF card

4. The practice-optimized washing chamber provides considerable space for your instruments and enables record operating times with economical consumption.

The treatment of hollow loads is accorded central importance. The MELA*therm* 10 provides a range of treatment options, for example the treatment of ultrasonic scaler tips.

To enable full use of the decontamination chamber, MELA*therm* 10 provides a wide range of different insert racks, for example:

1. Basis basket with injector rail with central filter

2. Insert rack for MELA*store*-Trays 50 / 100

3. Instrument basket compact

4. Flex basket 2

5. Injector basket korb flex 1 for ultrasonic tips

6. Insert rack for impression trays, scissors and clamps

7. Special adapters for hollow instruments

MELA*therm* 10 with MELA*store* and ME*therm*

The perfect combination for safe decontamination and even greater time savings.

MELA*store*

Instrument decontamination with a fully-integrated system does not just save time and money but is also expressly recommended by many national and international authorities. The new loading system MELA*store* satisfies these requirements by enabling an optimal instrument workflow from the decontamination to the storage. The loading system MELA*store* consists of MELA*store*-**Trays** and MELA*store*-**Boxes**.

The capacity of the MELAtherm was increased by 50 % in order to enable the cost-saving deployment of the MELA*store* system.

The tray mounts developed especially for MELA*store*-Trays enable the simultaneous cleaning and disinfection of 12 MELA*store*-Trays 100 or 24 MELA*store*-Trays 50. This corresponds to a 50 % increase in the load quantity with concurrent retention of the compact exterior dimensions and the economical consumption values of the MELA*therm* 10.

The **advantages** of the MELA*store* loading system at a glance

- Saves time in the loading and unloading of the instruments from the washer-disinfector and the steam sterilizer
- Increases the quality of the overall treatment through standardization and documentation
- Safe instrument storage provides protection against personal injury and damage to the instruments
- Reduces of practice waste (sterilization packages)

MELA*therm* 10 with twelve MELA*store*-Trays 100

ME*therm* – The new process agents for the MELA*therm* 10

NEW

With the introduction of the new ME*therm* process agents for MELA*therm* 10, we are able to combine best cleaning results, more safety for the practice and less consumption. An additional significant advantage is offering one point of contact for all questions regarding cleaning and disinfection of your instruments.

The range consists of the highly powerful cleanser **ME*therm* 50** (mild alkaline and enzymatic), the neutralizer **ME*therm* 55 C** based on citric acid (especially suitable for the treatment of transfer instruments and other delicate instruments) and the rinse aid **ME*therm* 60**.

The **advantages** of the ME*therm* process agents at a glance

- Less consumption and better cleaning results
- Improved safety and one point of contact

Free starter set with every new MELA*therm* 10

MELA*seal* – Standard comform packing

Quick and safe packing with validatable sealing devices.

MELA*seal* 200

- A validatable and compact sealing device of superior quality
- Checks and documentation of the process-relevant parameters pressure, temperature and sealing time
- Two USB interfaces for documentation
- Seal seam width of 10 mm
- Satisfies the specifications of EN ISO 11607-2
- The roll dispenser "Deluxe" enables trouble-free film infeed

MELA*seal* 100+

Optically identical to the MELA*seal* 200 we also have a worldwide thousendfold proven and good value device in our program.
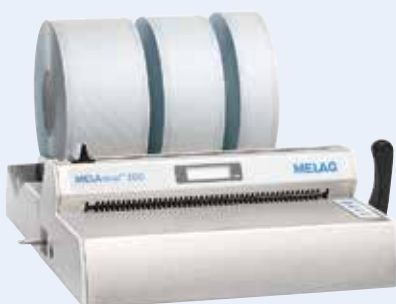
MELA*seal* Pro

- Easy-to-use, validatable **rotary** sealing device
- Additional instrument protection and safety from a 14 mm seal seam width
- Very high processing speed of 8 m/min
- Checking of all the process relevant parameters
- Documentation interface

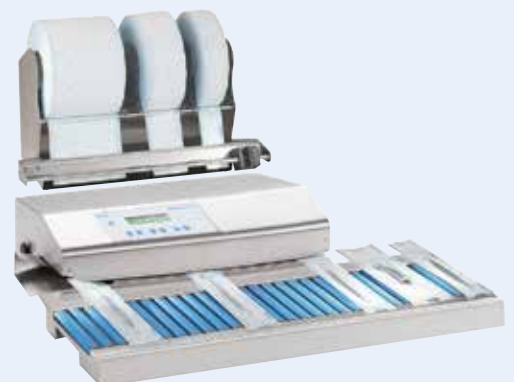MELA*seal* 200 with the especially easy-to-use roll dispenser "Deluxe"

MELA*seal* Pro rotary sealer

MELA*seal* 200 with the practical roll dispenser "standard"

MELA*seal* Pro with roll dispenser with the work table "standard"

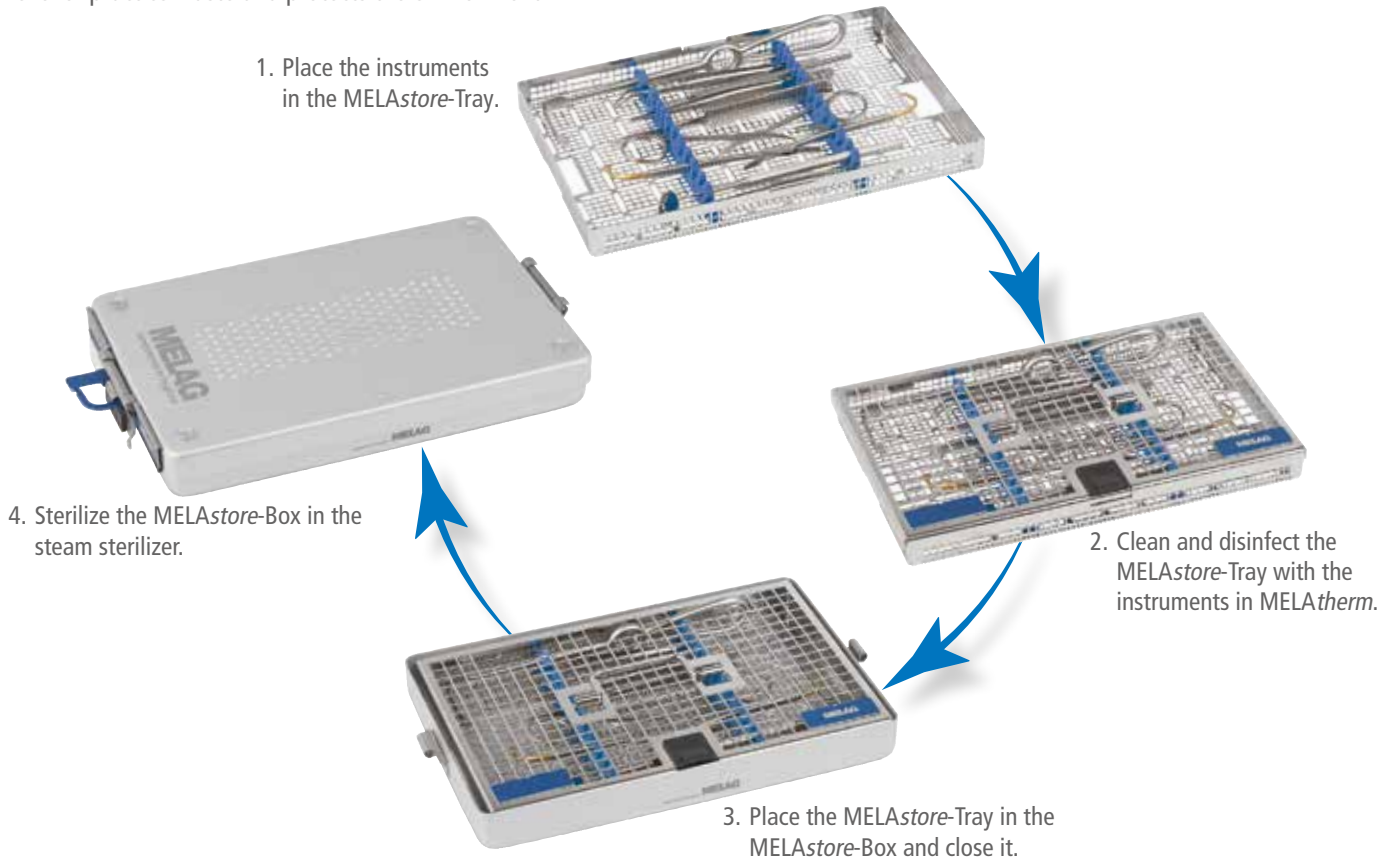MELA*seal* Pro with roll dispenser with the work table "comfort"

MELA*store* – For an optimal workflow

For even quicker and safer operation.

MELA*store* – Optimizing the workflow in 4 steps

The short and simple packing process increases the level of standardization of instrument treatment and optimizes the quality management process. MELA*store* requires significantly less sterilization packaging than previous approaches. This saves costs, reduces the level of practice waste and protects the environment.

It saves 8 minutes in the treatment of 14 instruments

1. Place the instruments in the MELA*store*-Tray.

4. Sterilize the MELA*store*-Box in the steam sterilizer.

2. Clean and disinfect the MELA*store*-Tray with the instruments in MELA*therm*.

3. Place the MELA*store*-Tray in the MELA*store*-Box and close it.

MELA*store* – The flexible system for the dental practice

The integrated MELA*store*-Trays and MELA*store*-Boxes are ideal for combination.

The flexible system

MELA*store*-Box 100
with two MELA*store*-Trays 50

MELA*store*-Box 100
with one MELA*store*-Tray 100

MELA*store*-Box 200
with one MELA*store*-Tray 200

Vacuklav – Benchmark for steam sterilizers

The new Evolution-Series of the Premium-Class and the Pro-Class.

NEW

The Evolution-Series of the Premium-Class

- The patented **Twin-Chamber-Technology** enables record opterating times of only 10 minutes for unwrapped instruments and only 19 minutes for wrapped instruments

- Up to 9 kg can be sterilized in a single procedure

- With patented **DRYtelligence®** for optimal drying results

- XXL-Colour-Touch-Display with integrated software for documentation and approval

- An integrated LAN interface (RJ 45) and CF card slot

Twin-Chamber-Technology ✓
DRYtelligence® ✓

The new Evolution-Series of the Premium-Class and the Pro-Class – diversity in four designs

As practices place different demands on the operation of their steam sterilizers, our steam sterilizers are available in four different designs. The designs differ in type of water supply and chamber depth.

Evolution-Series of the Premium-Class:

Vacuklav 40 B+ Evolution
Fixed water connection, chamber depth 35 cm
Vacuklav 41 B+ Evolution
Stand-alone, chamber depth 35 cm
Vacuklav 44 B+ Evolution
Fixed water connection, chamber depth 45 cm
Vacuklav 43 B+ Evolution
Stand-alone, chamber depth 45 cm

Pro-Class:

Vacuklav 30 B+
Fixed water connection, chamber depth 35 cm
Vacuklav 31 B+
Stand-alone, chamber depth 35 cm
Vacuklav 24 B+
Fixed water connection, chamber depth 45 cm
Vacuklav 23 B+
Stand-alone, chamber depth 45 cm

The Evolution-Series and MELA*store*

9 kg load quantity with MELA*store*.

Up to 4 MELA*store*-Boxes 100 or 3 MELA*store*-Boxes 100 and 2 narrow trays for individually packed instruments (as shown on the right) can be sterilized in the Vacuklav Premium-Class steam sterilizers of the Evolution series in a record time of only about 30 minutes.

Use of the patented Twin-Chamber-Technology enables a load capacity is 9 kg with low water and energy consumption. The Premium-Class steam sterilizers of the Evolution series are the most powerful steam sterilizers of their class.

NEW

Also new: the tray mount for 6 large and 2 narrow trays.
This enables even better use of the space in the Vacuklav Premium-Class steam sterilizers of the Evolution series for wrapped and unwrapped instruments.

The Pro-Class

- The worldwide market leader for class B steam sterilizers

- They convince through their simple operation, robustness and short operating times (including the fractionated pre-vacuum and drying)

- Versatile documentation methods – CF card, printer, practice network, MELA*trace*

Cliniclave – The economical large steam sterilizers

The ideal solution for large practices and clinics.

- The patented **Twin-Chamber-Technology** enables sterilization of 35 kg wrapped instruments or 7 kg of textiles in record time
- With patented **DRYtelligence®** for optimal drying results
- XXL-Colour-Touch-Display with integrated software for documentation and approval
- An integrated LAN interface (RJ 45) and CF card slot
- Significantly improved ergonomics of the device with its new loading system and practical loading trolley

NEW also available as **Double-door version**

Feedback from the practices which already work with the Cliniclave 45:

"The large load volumes and short operating times make an important contribution to improving the efficiency of our practice."

Kirsten (Oral surgical practice Dres. Frey)

"The loading and unloading of the Cliniclave 45 using the loading system and the loading trolley guarantees ergonomic and safe working practices."

Sabine (Speedocs in the Clinica Vita)

Twin-Chamber-Technology ✓
DRYtelligence® ✓

Cliniclave 45

The practical loading trolley for the Cliniclave-Series

The best solutions for all medical disciplines

15 MELA*store*-Boxes 100

24 dental trays

Four trays
(30 x 5 x 59 cm)

An instrument basket and two trays

A sterilization container
(30 x 30 x 60 cm)

Two half containers
(each 30 x 15 x 60 cm)

MELA*trace* – The ultimate documentation software

Documentation – load management – approval – traceability.

Determine the loading of the washer-disinfector and steam sterilizer

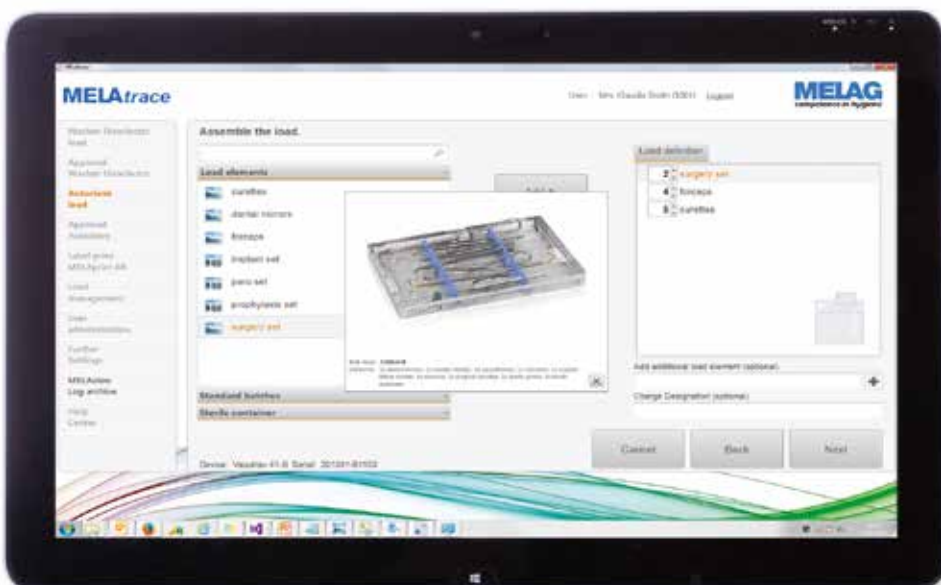Label printing and marking the packaging

MELA*trace*

MELAtrace is the first choice for safe and professional documentation across the whole instrument treatment process.

MELAtrace enables the connection of the treatment steps cleaning, disinfection and sterilization.
All process steps, program logs and instrument treatment decisions are fully documented and archived securely.
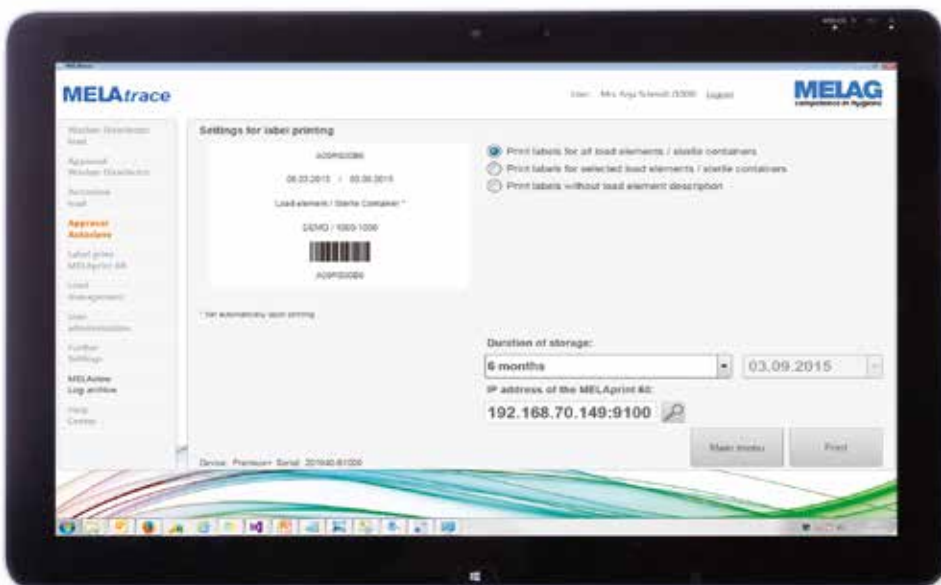
Barcode labels can then be printed on the MELAprint 60 to facilitate traceability of the individual load elements. This can be read-in via a scanner and added to the patient administration system.

A range of user settings makes MELAtrace individually-configurable so as to satisfy all practice requirements.

The license for MELAtrace need only be acquired once, thereby eliminating all annual costs.

No (annual) costs

The verdicts of dental practices using MELA*trace*:

"MELAtrace is a practical and easy to operate system for the documentation and traceability of our instrument treatment process."

Dr. Appenzeller / Dr. Griethe

"With its simplified documentation, MELAtrace saves time, improves safety and is simple to use."

Dr. Frigge

"MELAtrace is safe and enables us to satisfy all the legal requirements placed on the documentation of the treatment of medical products."

Dental practice Jehsert / Kadow

MELA*dem* – Efficient water treatment units

MELA*dem* 40, fitted laterally to the steam sterilizer

If you operate a steam sterilizer 2-3 times a day,

then **MELA*dem* 40** is the right option for you. This compact ion exchanger can either be attached to the side of the steam sterilizer or fitted on the wall or the floor unit. The special cartridge key makes the (occasional) cartridge change very easy.

If you want to rinse instruments with demineralized water,

then the **MELA*jet*** spray pistol represents the ideal supplement for the water treatment units MELA*dem* 40 and MELA*dem* 53.
The adapter for the MELA*jet* Luer / Luer Lock accessories can be connected to the MELA*jet* to flush the instruments.
The MELA*jet* spray pistol enables removal of demineralized water for other purposes.

MELA*jet* spray pistol with adapters

MELA*dem* 53, fitted in a floor unit

If you operate a washer-disinfector and one or more steam sterilizers,

then **MELA*dem* 53** represents the ideal solution for your water treatment needs. The scope of delivery consists of two cartridges: if the first cartridge has been exhausted and requires regeneration, the second can be connected.

MELA*dem* 47 fitted in the floor unit, with removal valve and storage container

If you want to sterilize very often, or operate multiple steam sterilizers,

then **MELA*dem* 47** is the ideal solution. The reverse osmosis principle is not only highly economical but also very environmentally friendly. The high capacity of up to 1,900 l of demineralized water facilitates the problem-free connection of multiple steam sterilizers.

Versatility in documentation

If you want to document the sterilization procedures,

then you will not require any additional accessories for the steam sterilizers of the **Evolution-Series**. These steam sterilizers are already equipped with an integrated LAN interface (documentation via the practice network and integrated CF card printer).
If documentation is to be conducted via the network, the **Pro-Class** steam sterilizers are connected to the MELA*net* Box. If documentation is to be performed via a CF card, the MELA*flash* CF card printer can be connected.

MELA*net* Box   MELA*flash* CF card printer

If you wish to check the sterilization procedure with batch control

then you will require either the test body system MELA*control* or MELA*control* **Pro**.
With MELA*control*, the 250 test strips are always delivered with a new test body.
With MELA*control* **Pro** the test bodies need only be purchased once; the test strips can be re-ordered at an affordable price.

MELA*control*   MELA*control* Pro

If you would like to approve the sterilization procedures and label and trace the instruments,

When using steam sterilizers of the **Evolution-Series** you can perform this by using the integrated device software used in combination with the MELA*print* 60 label printer.
The easy-to-use software **MELA*trace*** for documentation, approval, labelling and traceability can be used together with all MELAG steam sterilizers and with MELA*therm*.
The practical hand scanner enables the transfer of the data into the digital patient documents.

MELA*print* 60 label printer for the printing of labels

MELA*trace* - documentation software

Hand scanner for reading in the data to the patient documents

If you want to use a manual system to provide approval,

then we recommend the manual MELA*doc* label printer and the MELA*doc* documentation. The labels are affixed to the sterilization packaging and serve the labelling and approval. They provide information regarding the sterilization date and expiry date, identify the person issuing approval and the batch number.

MELA*doc* manual label printer and documentation

MELAdes – high-quality disinfectant at an affordable price

The MELA*des* series is a fully-integrated hygiene system enabling the disinfection of hands, surfaces, instruments and drill bits. The tolerance and activity spectrum of the MELA*des* range have been specially adapted to the needs of medical and dental practices. MELA*des* – high-quality disinfectant at an affordable price.
From MELAG, the full-provider for medical practice hygiene.

Technical data, dimensions and weights

Program runtimes of the steam sterilizers

	Vacuklav 30/31 B+	Vacuklav 23/24 B+	Vacuklav 40/41 B+	Vacuklav 43/44 B+	Cliniclave 45
Quick-Program S	15 min	15 min	~ 10 min	~ 12 min	~ 17 min
Quick-Program B	26 min	28 min	~ 14 min	~ 22 min	~ 20 min
Universal-Program	30 min	30 min	~ 21 min	~ 24 min	~ 35 min
Load	5 kg	5/7 kg	9 kg	9 kg	35 kg
Textiles Load	2/1.8 kg	1.8/2.5 kg	2 kg	2.5 kg	7 kg

All times not including drying

Program runtimes of MELA*therm*

	MELA*therm* DTA	MELA*therm* DTB
Quick-Program	30 min	47 min
Universal-Program	36 min	53 min
Intensive-Program	40 min	57 min
Load	15 kg	15 kg

All times not including drying

Technical Data ——— Steam sterilizers ——— **MELA*therm***

	Vacuklav 30/31 B+	Vacuklav 23/24 B+	Vacuklav 40/41 B+	Vacuklav 43/44 B+	Cliniclave 45	MELA*therm* DTA/DTB
Chamber size	Ø 25 x 35 cm	Ø 25 x 45 cm	Ø 25 x 35 cm	Ø 25 x 45 cm	Ø 44 x 72 cm	46.5 x 40.5 x 44.8 cm
Chamber volume	17 l	23 l	18 l	23 l	105 l	–
Dimensions (WxHxD)	42.5 x 48.5 x 63 cm	42.5 x 48.5 x 75/69 cm	46 x 56 x 55 cm	46 x 56 x 68 cm	65 x 93 x 88 cm	59.8 x 81.8 x 67.8 cm
Weight	45 kg	50/48 kg	57/59 kg	66/69 kg	190 kg	79 kg
Electricity supply	230 V, 50/60 Hz	230 V, 50/60 Hz	230 - 240 V, 50/60 Hz	230 - 240 V, 50/60 Hz	3 x 380 - 415 V, 50/60 Hz	400 V, 50 Hz **(DTA)** 220-240 V, 50 Hz **(DTB)**

Technical data of the water treatment units

	MELA*dem* 40	MELA*dem* 47	MELA*dem* 53	MELA*dem* 53 C
Volume	1.4 l (Amount of resin)	5.5 l (Storage container)	20 l (Amount of resin)	15 l (Amount of resin)
capacity at 10 °dH	c. 210 l	c. 1,900 l	c. 2,800 l	c. 2,100 l
Dimensions (WxHxD)	32 x 35 x 15 cm	39 x 47 x 15 cm	Ø 24 x 57 cm	Ø 24 x 44.3 cm
Weight	2.4 kg	12 kg	18 kg	14 kg
To be used in conjunction with	1 steam sterilizer*	1-3 steam sterilizers*	MELA*therm* and further devices	MELA*therm* and further devices

* The exception is the Cliniclave 45, which cannot be operated with the MELA*dem* 40 or the MELA*dem* 47.
Subject to technical alterations. The accessories depicted here are not included in the standard scope of delivery.

MELAG
competence in hygiene

Quality – made in Germany

MELAG – A world-leading family-owned and run company based in Berlin

As an owner-run and operated family concern founded in 1951, we have a long history of successful specialization in hygiene products for practice-based use. Working at our 25.000 m² Berlin premises, our 365 employees have produced a total of some 550.000 devices to date, making us a world leader in the instrument treatment sector.

Further information regarding our products are available under **www.melag.com** or on our YouTube-channel: