

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

MELAtherm – 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 **MELAtherm 10**, which has already found use in over 12,000 dental practices.

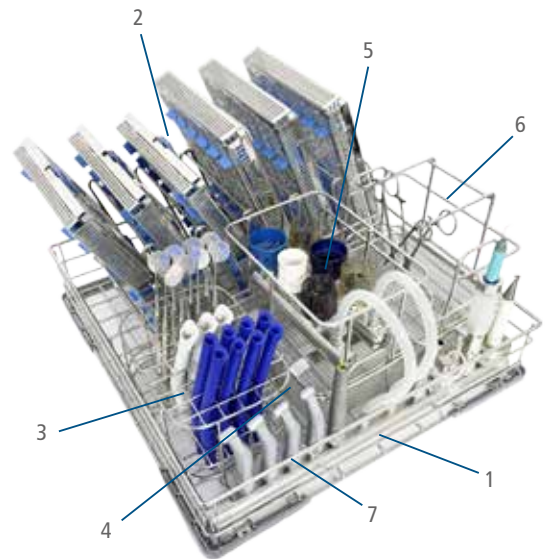
MELAtherm 10

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 MELAtherm 10 provides a range of treatment options, for example the treatment of ultrasonic scaler tips.



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

1. Basis basket with injector rail with central filter
2. Insert rack for MELAstore-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



MELAtherm 10 with MELAstore and MEtherm

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

MELAstore

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 MELAstore satisfies these requirements by enabling an optimal instrument workflow from the decontamination to the storage. The loading system MELAstore consists of MELAstore-Trays and MELAstore-Boxes.

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

The tray mounts developed especially for MELAstore-Trays enable the simultaneous cleaning and disinfection of 12 MELAstore-Trays 100 or 24 MELAstore-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 MELAtherm 10.

The advantages of the MELAstore 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)



MELAtherm 10 with twelve MELAstore-Trays 100

MEtherm – The new process agents for the MELAtherm 10

NEW

With the introduction of the new MEtherm process agents for MELAtherm 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 **MEtherm 50** (mild alkaline and enzymatic), the neutralizer **MEtherm 55 C** based on citric acid (especially suitable for the treatment of transfer instruments and other delicate instruments) and the rinse aid **MEtherm 60**.



The advantages of the MEtherm process agents at a glance

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

MELAseal – Standard conform packing

Quick and safe packing with validatable sealing devices.

MELAseal 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

MELAseal 100+

Optically identical to the MELAseal 200 we also have a worldwide thousandfold proven and good value device in our program.

MELAseal Pro

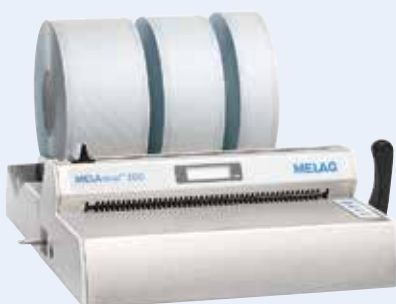
- Easy-to-use, validatable **rotary** sealing device
- Additional instrument protection and safety from a 14 mm seal seam width
- Very high processing speed of 8 m/min
- Checking of all the process relevant parameters
- Documentation interface



MELAseal 200 with the especially easy-to-use roll dispenser "Deluxe"



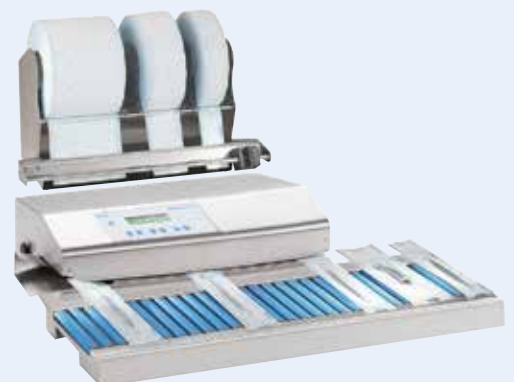
MELAseal Pro rotary sealer



MELAseal 200 with the practical roll dispenser "standard"



MELAseal Pro with roll dispenser with the work table "standard"



MELAseal Pro with roll dispenser with the work table "comfort"

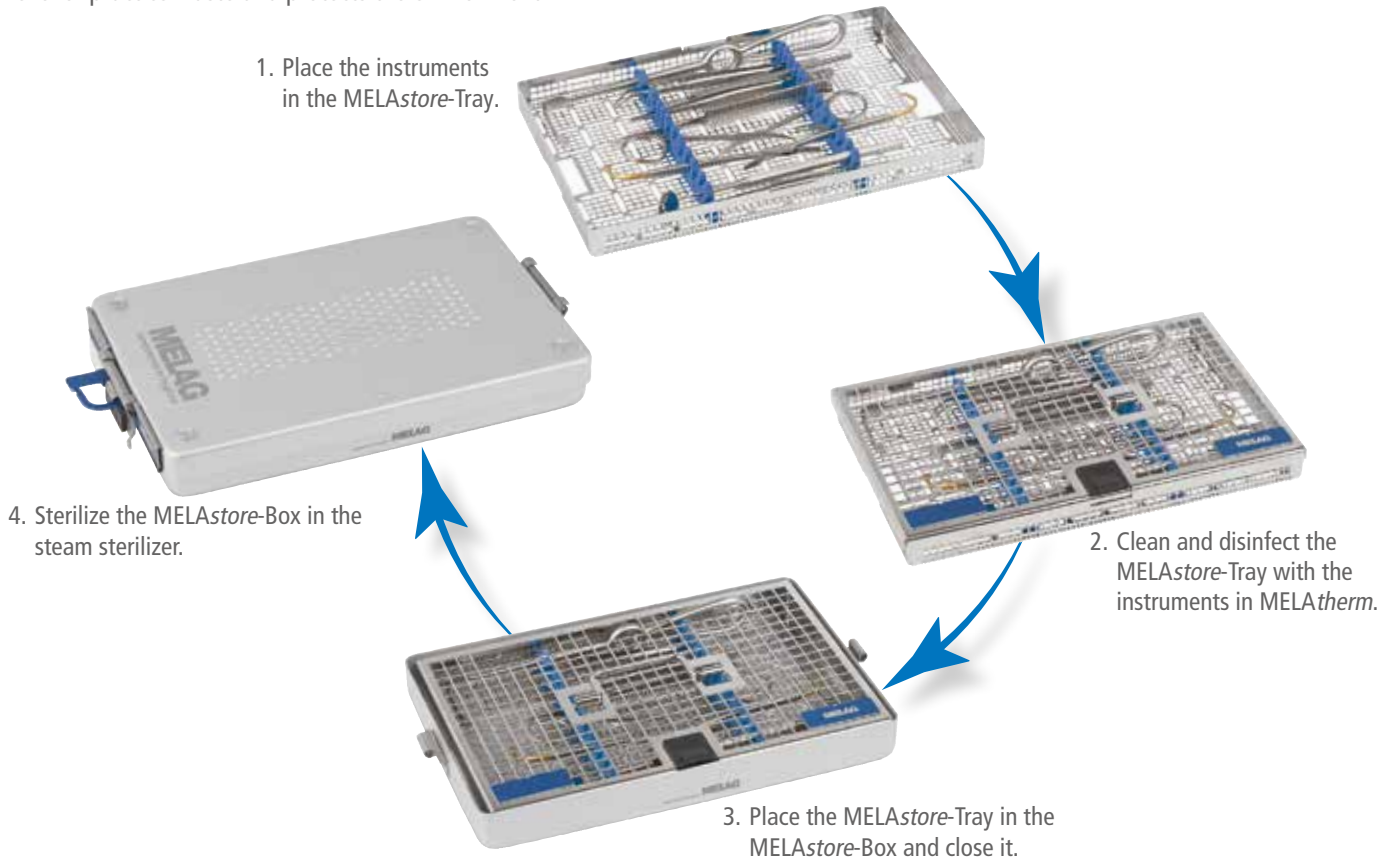
MELAstore – For an optimal workflow

For even quicker and safer operation.

MELAstore – 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. MELAstore 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



MELAstore – The flexible system for the dental practice

The integrated MELAstore-Trays and MELAstore-Boxes are ideal for combination.

The flexible system



MELAstore-Box 100 with two MELAstore-Trays 50



MELAstore-Box 100 with one MELAstore-Tray 100



MELAstore-Box 200 with one MELAstore-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 operating 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 MELAstore

9 kg load quantity with MELAstore.

Up to 4 MELAstore-Boxes 100 or 3 MELAstore-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, MELAtrace



Cliniclave – The economical large steam sterilizers

The ideal solution for large practices and clinics.

NEW also available as
Double-door version

- 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

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)



The best solutions for all medical disciplines



15 MELAstora-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)

Twin-Chamber-Technology ✓
DRYtelligence® ✓



The practical loading trolley for the Cliniclave-Series

MELAtrace – The ultimate documentation software

Documentation – load management – approval – traceability.

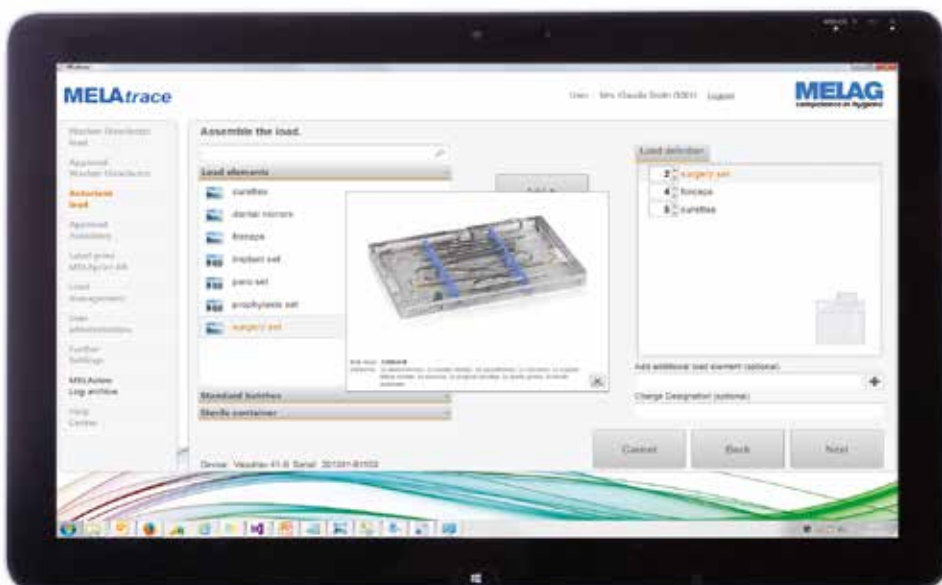
MELAtrace

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

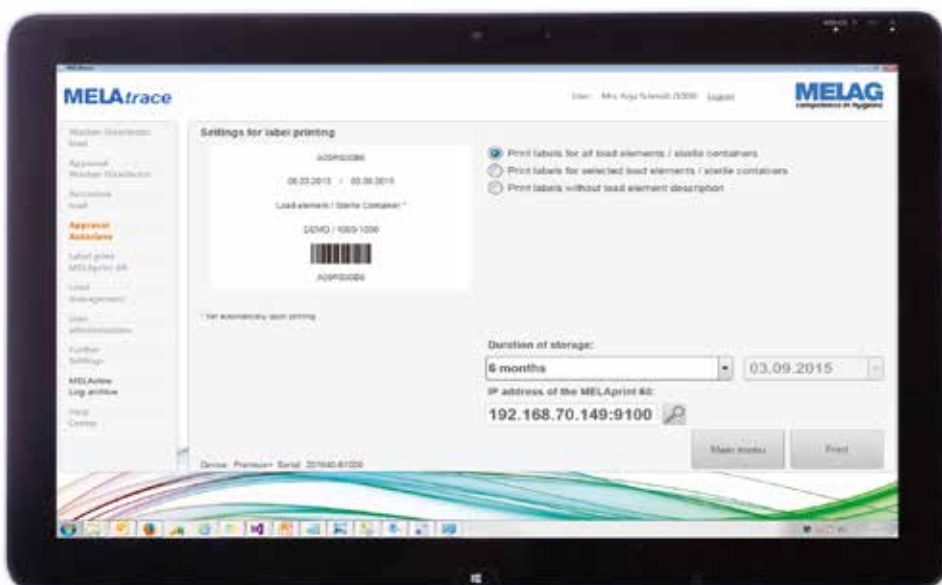
MELAtrace enables the connection of the treatment steps cleaning, disinfection and sterilization. All process steps, program logs and instrument treatment decisions are fully documented and archived securely.

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.



Determine the loading of the washer-disinfector and steam sterilizer



Label printing and marking the packaging

The verdicts of dental practices using MELAtrace:



"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

MELAdem – Efficient water treatment units



MELAdem 40, fitted laterally to the steam sterilizer

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

then **MELAdem 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 **MELAJet** spray pistol represents the ideal supplement for the water treatment units MELAdem 40 and MELAdem 53.

The adapter for the MELAJet Luer / Luer Lock accessories can be connected to the MELAJet to flush the instruments.

The MELAJet spray pistol enables removal of demineralized water for other purposes.



MELAJet spray pistol with adapters



MELAdem 53, fitted in a floor unit

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

then **MELAdem 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.

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

then **MELAdem 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.



MELAdem 47 fitted in the floor unit, with removal valve and storage container

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 MELANet Box. If documentation is to be performed via a CF card, the MELAflash CF card printer can be connected.



MELANet Box



MELAflash CF card printer

If you wish to check the sterilization procedure with batch control

then you will require either the test body system MELAcontrol or MELAcontrol Pro.

With MELAcontrol, the 250 test strips are always delivered with a new test body.

With MELAcontrol Pro the test bodies need only be purchased once; the test strips can be re-ordered at an affordable price.



MELAcontrol



MELAcontrol 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 MELAprint 60 label printer.

The easy-to-use software **MELAtace** for documentation, approval, labelling and traceability can be used together with all MELAG steam sterilizers and with MELAtherm.

The practical hand scanner enables the transfer of the data into the digital patient documents.



MELAprint 60 label printer for the printing of labels



MELAtace - 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 MELAdoc label printer and the MELAdoc 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.



MELAdoc manual label printer and documentation

MELAdes – high-quality disinfectant at an affordable price

The MELAdes series is a fully-integrated hygiene system enabling the disinfection of hands, surfaces, instruments and drill bits. The tolerance and activity spectrum of the MELAdes range have been specially adapted to the needs of medical and dental practices. MELAdes – 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 MELAtherm

| | MELAtherm DTA | MELAtherm 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

MELAtherm

| | Vacuklav 30/31 B+ | Vacuklav 23/24 B+ | Vacuklav 40/41 B+ | Vacuklav 43/44 B+ | Cliniclave 45 | MELAtherm 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

| | MELAdem 40 | MELAdem 47 | MELAdem 53 | MELAdem 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* | MELAtherm and further devices | MELAtherm and further devices |

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



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:

