# MELA*quick*®12+
# Compact. Fast. Strong.

**MELAG**
competence in hygiene

# The requirement.

Requirements for the preparation of dental instruments are defined by official hygiene experts. Instruments for "semi-critical" use (restorative treatment) have to be prepared and treated after each patient, preferably in a validated, mechanised disinfection and cleaning process. If no mechanical preparation and treatment process is used, a manual process can be selected, but it has to be concluded with sterilization of the instruments. "Critical" hand pieces and turbines used for paradontological, endodontic and surgical treatment have to be sterilized at the end of the reprocessing according to the mechanical preparation prescribed in these cases.

# The solution.

This quick autoclave will help you save time and money during the preparation of handpieces and turbines that conform to the hygiene standards. Handpieces, prophylaxis instruments and much more can be quickly sterilized between treating patients in only about 7 minutes. The use of MELA*quick*®12+ is the ideal alternative to the sterilization of handpieces and turbines in your normal practice autoclave with its inevitably longer cycle times. Up to 12 handpieces and/or turbines can be inserted into MELA*quick*®12+. The short running times enable complete hygiene in the practice even without acquiring additional handpieces and turbines.

Example of loading with unwrapped instruments



Example of loading with wrapped instruments

# High quality preparation.

Both air removal and drying are of the utmost importance in the sterilization of handpieces and turbines. The fractionated gravity method creates the ideal conditions for sterilization safety in accordance with European Standard 13060—programs in line with the standard. Drying takes place by connecting the MELA*quick*®12+ to the compressed air supply of the practice in the preparation room. To protect the instruments and to preserve the value of the device MELA*quick*®12+ has an integrated water quality measurement, which displays a warning signal when using a worse quality of water or does not let the autoclave start up.

# Big inside— small outside.

MELA*quick*®12+ requires significantly less installation space than all other autoclaves. Two 5 litre containers are provided for the demineralized feed water as well as for the already used and re-condensed water. These containers can be placed below the work surface.

# Operation—
# no compromises.



All programs and options can be selected easily and quickly using the four soft keys found on the display.

# The programs—
# fast and multifunctional.

Three class S programs are provided: One Quick-Program for unwrapped instruments and two programs for wrapped instruments. All programs in accordance with the European Standard 13060.

| Programs | Packaging | Sterilization time | Operating time* | Drying | Loading** |
|---|---|---|---|---|---|
| Quick-Program S | unwrapped | 3.5 min at 134 °C | 6–8 min | ~1 min | 1 kg |
| Universal-Program S | wrapped | 5.5 min at 134 °C | 13–15 min | ~8 min | 1 kg |
| Prion-Program S | wrapped | 20.5 min at 134 °C | 28–34 min | ~8 min | 1 kg |

*Without drying and dependent on loading and installation conditions such as mains voltage and air pressure, for example. We reserve the right to technical modifications. **Maximum load for unwrapped instruments.



Universal basket on a frame



Small parts insert for universal basket



Support with ISO adapters on a frame



Package holder for wrapped instruments

# Interfaces and connections.

Device fuse—16A gRL

Device fuse—10 AT

Connection for monitoring the feed water container

Connection for monitoring the waste water container

Plug on the side for sterile filter (only in MELA*quick*®12+ p)

Connection for external waste water container

Serial interface (RS232) for documentation

Spring safety valve

Slit for emergency unlocking

Connection for compressed air (only in MELA*quick*®12+)

Connection for external feed water container

Mains connection for IEC plug

# MELA*quick*®12+p
## The stand-alone device.

This innovative device concept can also be used if there is no compressed air connection in the preparation room. MELA*quick*®12+p has a compressor pump integrated into the device, which permits operation of the autoclave irrespective of location. The functionality and short operating times are identical in both MELA*quick*®12+ devices.

# Documentation and approval.

Possibilities for documentation, batch release and re-tracing known from the Pro- and Premium-Class MELAG device series are also available for the MELA*quick*®12+. Starting with MELA*flash* through the MELA*net* Box for network integration up to approval and marking of the instruments with MELA*trace*®.

# Data and facts.

| | |
|---|---|
| Air removal principle | Fractionated gravity method |
| Drying | Pulsating overpressure drying |
| Feed water | Demineralized water, distilled water |
| Device dimensions (Width x Height x Depth) | MELAquick 12+      19.5 x 43 x 47 cm<br>MELAquick 12+ p   20.5 x 43 x 46 cm |
| Chamber (Ø x Depth) / Volume | 9 x 20 cm / 1.35 l |
| Weight (empty) | MELAquick 12+      approx. 23 kg<br>MELAquick 12+ p   approx. 24 kg |
| Operating overpressure / Operating temperature | 2.2 bar / 136 ºC |
| Electrical supply | 220 – 240 V, 50 / 60 Hz, 9.5 A, 2050 W |

**We manufacture autoclaves according to the following directives and standards:**
93/42/EEC  Medical device class IIb (Medical device directive), 97/23/EC (Pressure equipment directive), 2006/42/EC (Machinery directive), EN 13060 (Small steam sterilizers), EN 61010-1/-2-040 (Safety directives for electrical measurement, control and laboratory devices – part 1 and part 2), EN 61326-1 (Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements) EN 60601-1-2 (General Requirements for Safety including important Performance Characteristics-Supplementary Standard: Electromagnetic Compatibility-Requirements and Tests), EN ISO 9001 and EN ISO 13485 (Quality management certification), EN 1717 (Protection against pollution of potable water)

You can find additional information on our homepage: **www.melag.com**

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EN ISO 13485:2012
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