

Dreamlike Performance

The Premium Class

Only 17 minutes
for a real „class B“ cycle

Vacuquick®
– the quickest –



MELAG

Evidence Based Sterilization

Competence spells success

There are over 100 manufacturers of sterilizers world-wide for use in medical and dental practices. But MELAG is the only producer on the international scene who concentrates exclusively on one single product line alone: sterilizers.

This focus on core competence is the foundation of our international success, a success which must be continually tested and proven. Every MELAG employee works towards this end with the greatest commitment, knowing that when "his" autoclaves aren't successful, then neither is the company. And that affects every single employee.

The MELAG recipe for success:

Conscious concentration to one core competency.



Quality and innovation

Manufacturers who produce autoclaves as one of many products can perhaps afford to go through a business slump in this field. But those who concentrate on only one product line do not enjoy that luxury. Such a one-product company has to be continually better and less expensive than the competition.

The success of our worldwide sales proves that our autoclaves are not only better because of their quality. Innovation also makes them to the best. As first manufacturer we have introduced and produced our autoclaves suited for medical and dental practices which demonstrate trend-setting technology and design, in series production. A few examples: the one-way water system, the automatic water feed, documentation via PC in the practice or over the network, the fractionated pre-vacuum and post vacuum for autoclaves, and much more.

We would only be able to offer our products at lower prices if we could save on the purchase of components and materials. And if we would have our products manufactured in low cost foreign countries, instead of in Germany with its highly trained and quality-conscious workforce.

Innovations are only worth while if they can increase customer benefits! That also applies to innovations of the premium class, since they provide top-of-the-line autoclaves with their improved **speed, comfort, and design**



SPEED

COMFORT

DESIGN

New dimensions

More speed, because many practicing physicians and dentists buy lesser quantities of expensive instruments to save costs, but these have to be ready for use again in shorter periods of time.

More comfort, because the autoclaves should be easy to operate and function reliably.

More design, because fulfilling top safety criteria should also be visible to the eye.

Quick autoclave in two variants

The *Vacuquick*[®] autoclaves breach a gap, since they combine the advantages of a quick autoclave with those of a compact practice autoclave in one unit with a small footprint.

They are sufficiently compact to be able to be used as small "class B" autoclaves for the quick sterilization of unwrapped instruments. Unwrapped instruments are already sterilized after 7 minutes in the quick program. In contrast to several other quick autoclaves on the market, this unit functions with a fractionated vacuum!

And yet they are large enough to be employed as full-quality practice autoclaves, since they can handle more than 70 kg of wrapped instruments in loads of 4 trays in continuous operation during an 8-hour work of a practice.

Vacuquick[®]13-B is a "stand alone" autoclave with integrated water tank and patented cooling system.

Vacuquick[®]14-B is connected to the water supply and drainage over a water treatment unit *MELAdem[®]40* or *MELAdem[®]47*. Part of the tap water is treated and then used to generate steam, another part to cool the vacuum pump. The heat emission of this unit is therefore kept at minimal level.

Vacuquick[®]13-B and **Vacuquick[®]14-B** are "class B" autoclaves and thus conform to the highest demands of the European Standard EN 13060.



Outside: compact and informative

SPEED COMFORT DESIGN



Making it easier to operate a device and avoid errors means lowering the learning costs. The *Vacuquick*[®] autoclaves are intuitively operated. The autoclave is turned on and communicates with the operator without the necessity of consulting long and complex operating instructions. Unintended errors in operation are eliminated from the start. The large high-quality display shows all the operating functions and status information on a clear and well-organized screen. Information menus provide portions of the operating instructions, information about instrument sterilization, and much more.

The automatic door lock functions simply with a light pressure on the autoclave door. The *Vacuquick*[®] takes over the rest automatically and reliably all by itself. That saves time and ensures proper closure.

Inside: quick and innovative

SPEED COMFORT DESIGN



Whether treating wrapped handpieces or unwrapped material to be sterilized, sterilization is always conducted with the greatest safety. Thanks to its compact exterior dimensions, the *Vacuquick*[®] autoclaves of the Premium Class also fit into the openings of older built-in cupboards, so that a "class B" autoclave can also be installed in these practices in the same familiar spot.

The trend-setting technology of *Vacuquick*[®] autoclaves is combined with minimal space requirements.

Ideal for small practices with little space, as universal compact autoclave of the highest safety "class B".

But also ideal for large practices which want to sterilize the handpieces in a quick autoclave with fractionated pre-vacuum after every patient use. In record time!

Accessories for documentation and water treatment

Documentation – for your own safety You have the choice

The documentation with the Premium-Class autoclaves as a proof for an effective and safe sterilization can very easy and comfortable be done by the operator. The complete documentation secures evidence in case of presumed infection in the medical or dental practice or clinic. In the

context of public health department checks or medical practice inspections, proper documentation and batch control are also considered important criteria for the „release“ of instruments by the doctor’s assistant after sterilization.

Batch control with MELAcontrol®

The EN 867-5:2001 defines a test body for “class B” autoclaves which simulates the most difficult demands for the sterilization of instruments with hollows. The MELAcontrol® system consists of a test body (“Helix”) containing an indicator. This must be dated after completion of the sterilization and archived as evidence.



MELAcontrol®Helix



Black on white

The MELAprint®42 connection via the Ethernet adapter allows for the traditional documentation of periodic data on a paper printout.



Mobile with CF Card

The autoclaves of the Premium Class also have a CF card slot. All sterilization data are automatically written on the CF card and can be directly read into any PC (for instance over the card reader MELAflash®) and stored electronically.



Networked at last

The autoclaves of the Premium Class are furnished with one Ethernet connection on the front of the unit, as well as one on the back. The autoclaves can be directly networked without any conversion, adapter, or special administration program.

Vacuquick® and MELAdem®40 – a system which ensures quality and saves time

The Vacuquick® autoclaves use fresh demineralized water for every sterilization. This water can be inexpensively produced in the practice with MELAdem®40. This saves time and work otherwise expended for procuring, transporting, storing, and disposing of the plastic containers, as well as filling and emptying the storage tank of the autoclave.

The Vacuquick®14-B (with tap water connection) works perfectly with MELAdem®40. The entire water throughput runs fully automatically: from the water pipe through MELAdem®40 and then into the autoclaves and subsequently into the wastewater system. But the “stand-alone“ autoclave Vacuquick®13-B can also be connected to MELAdem®40.

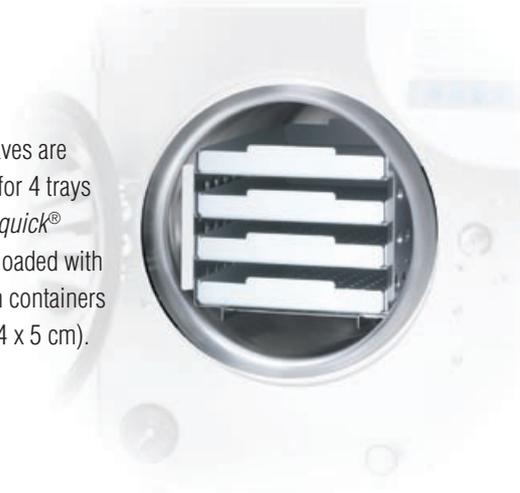


MELAdem®40 can alternatively be mounted on the Vacuquick® or on the wall. The spray pistol MELAJet® rinses off the residues from the instruments after disinfecting and cleaning.

Two possibilities for using the sterilization compartment



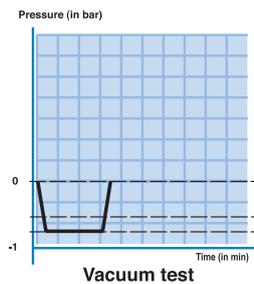
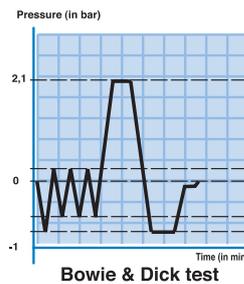
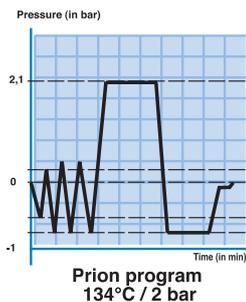
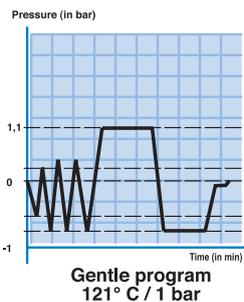
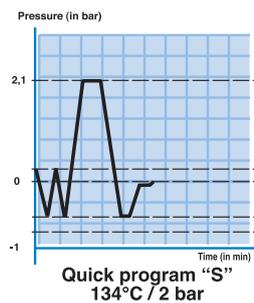
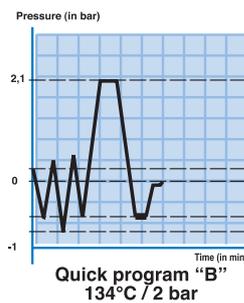
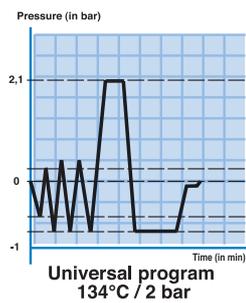
The *Vacuquick*® autoclaves are delivered with a mount for 4 trays (19 x 14 cm). The *Vacuquick*® autoclaves can also be loaded with two MELAG sterilization containers 17 K (w x d x h: 20 x 14 x 5 cm).



Programs for all occasions

The *Vacuquick*® autoclaves offer five sterilization programs and two test programs. The test programs can check and document the function of the autoclave in the medical or dental practice at any time. After selecting and

starting the desired program, the modern microprocessor controls and monitors the entire process automatically.



Programs and times

Programs *	Universal Pr. Steril.-time: 5 min.	Quick „B“ Pr. ** Steril.-time: 3,5min.	Quick „S“ Pr. *** Steril.-time: 3,5min.	Gentle Pr. Steril.-time: 20 min.	Prion Pr. Steril.-time: 20 min.
Vacuquick®13-B					
Warm start 0,5 kg instruments	13	11	7	25	30
Warm start 4,0 kg instruments	19	16	10	33	35
Warm start 0,7 kg textiles	17	15	–	29	33
Vacuquick®14-B					
Warm start 0,5 kg instruments	12	10	7	24	29
Warm start 4,0 kg instruments	15	14	9	28	33
Warm start 0,7 kg textiles	14	13	–	26	31

* Plus drying time with vacuum drying

** max. 1.5 kg wrapped instruments or 4 kg unwrapped instruments

*** only unwrapped instruments

All times given in minutes



Why a “class B” autoclave?

The European workgroup appointed by the EU Commission has passed the Europe Standard EN 13060 in the course of the harmonization of different national sterilization standards. The standard divides autoclaves into the classes “B”, “S” and “N”. “Class B” is the highest class conforming to the most stringent demands and therefore can be unrestrictedly used for the sterilization of all possible loads used in medical or dental practices (also with hollow instruments, hand-pieces and turbines) and for all kinds of sterilization packaging. A “class B” autoclave must in any case pass a Helix test as per EN 13060 by test body per EN 867-5:2001. According to expert opinion, that can only be achieved with a fractionated pre-vacuum procedure.

Vacuquick®13-B and **Vacuquick®14-B** conform to “class B” requirements and are therefore absolutely future-safe.

Technical data

	Vacuquick®13-B „stand alone“	Vacuquick®14-B tap water connection
chamber size	23 cm long x18 cm diameter	
chamber volume	5.7 litres	
loading quantity	4.0 kg instruments 0.7 kg textiles	
dimensions (w x h x d)	35 cm x 38 cm x 62 cm height including display 40 cm Feet of the unit fit on a 50-cm tabletop	35 cm x 38 cm x 57 cm height including display 40 cm
weight	39 kg	41 kg
power supply	230V, 50Hz	
power consumption	2900 W	

We manufacture our autoclaves in conformance with the following guidelines:

93/42/EWG Medical device class IIa (European Guideline for Medical Devices), 97/23/EWG (Guideline for Pressure Devices), EN 13060 (Small Steam Sterilizers), EN 61010-1-2 (Safety Regulations for Electrical Measuring, Controlling and Laboratory Devices - Part 1 and Part 2), EN 50081-1 and EN 50082-1 (Regulations on Electromagnetic Compatibility), EN ISO 9001: 12.2000 and EN ISO 13485/ 11.2000 (Quality Management / Certification), EN 1717 (Protection of Drinking Water from Contamination)



CE 0124

Quality and Precision

More than 55 years ago, MELAG began in Berlin to specialize in the manufacture of sterilization equipment. Quality consciousness, reliability, and innovative eagerness, plus the highest in safety standards, have by now made the family-run enterprise MELAG one of the world's leading producers of sterilization equipment. Verification of its success has been the sale of more than 410,000 units. The entire MELAG staff is proud to have made an important contribution to the protection of the health of patients and of medical staff, with the equipment and accessories it produces for reliable sterilization and safe storage of sterilized articles.



Quality - made in Germany



www.melag.com