

MELAdem[®]47 / MELAdem[®]55

Water treatment units according to the principle of reverse osmosis

Benefit from the many advantages provided by connecting your autoclave to a MELAG water treatment unit:

- Always fresh aqua dem which protects your instruments and your autoclave. This means years of **safeguarding value**.
- Automatic water feed supply, e.g. in connection with MELAG Vacuklav[®], Vacuquick[®], Euroklav[®] und Kliniklav[®]25. This means **efficiency**.
- Manual filling of distilled / demineralized water in the autoclave is no longer required. This means **time saving**.
- Automatic monitoring of the water quality when connected to a MELAG Vacuklav[®], Vacuquick[®], Euroklav[®] oder Kliniklav[®]25. This means a high degree of **security**.
- No danger of „spillage“ of demineralized water (short circuit hazard!)
- No soiled water storage tank, which takes valuable time to clean.
- No necessary checking of the water level in the water storage tank.
- No time-intensive procurement of demineralized or distilled water, which often does not even conform to the VDE 510 standard requirements.
- No time-consuming disposal of empty cans

The sure way to „good“ water

An excellent and reasonably priced method of producing demineralized water with consistently high quality in the practice is to use a water treatment unit. An autoclave should be exclusively used in the one-way water system, which protects the instruments. We recommend the MELAdem[®] water treatment units. Thanks to their compact construction, they may be mounted without difficulty in a lower cabinet or on the wall.

Environmentally friendly

A regeneration of the equipment with acids and alkaline solutions is not required. The water treatment units MELAdem[®]47 and MELAdem[®]55 work according to the environmentally-friendly reverse osmosis method. Recognized institutions recommend water treatment units which work on the principle of reverse osmosis.

Quality - made in Germany



Thrifty

MELAdem[®] units require no electric power connection. Depending on the quality of the tap water and consumption, the filter cartridges are only replaced after 6 to 12 months (or even later). Thus MELAdem[®]47 and MELAdem[®]55 are especially thrifty in their consumption and maintenance.

Safe and reliable

Due to quality control. Because MELAdem[®]47 and MELAdem[®]55 feature a conductance measuring option which makes it possible to check the water quality at all times. This monitoring is integrated in the MELAG autoclaves Vacuklav[®], Vacuquick[®], Euroklav[®] und Kliniklav[®]25 as part of the standard series.

Versatile

MELAdem[®]47 not only delivers high-grade demineralized water for operating an autoclave. The supplied faucet can also meet the requirements for high-quality demineralized water for many other applications in the practice as well.

Automatic

MELAdem[®]47 and MELAdem[®]55 permit a direct connection to the MELAG autoclaves Euroklav[®], Vacuklav[®], Vacuquick[®] und Kliniklav[®]25 automatically feed the demineralized water required to generate steam.

MELAG

Evidence Based Sterilization

MELAdem®47 / MELAdem®55

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Why does bad water cause damage?

Demineralized water (quality according to VDE 510) is required for steam sterilization. Unfortunately the quality of the water fluctuates depending on the source and production method (e.g. pharmacy, drugstore, do-it-yourself market etc.). Water of inferior quality can lead to deposit formation in the chamber and in the water storage tank of the autoclave, on the instruments and on other parts which come in contact with the water steam.

At longer exposure times, especially with chloride-containing residues, damage to the passive protective coat of stainless steels formed by atmospheric oxygen is possible. If iron or rust molecules penetrate this passive coating, even the initiation of the rusting process on stainless steel instruments cannot be excluded.

More performance

The water treatment units MELAdem®47 and MELAdem®55 not only filter out sodium, calcium and magnesium, but also hydrocarbons, chlorine, pesticides etc. from the tap water. In comparison, in many conventional units only anions and cations are removed from the tap water.

Quality und precision for most exacting hygienic requirements

More than 50 years ago, MELAG began in Berlin to specialize in the manufacture of sterilization equipment. As a result of high-level quality consciousness, reliability, and innovative eagerness – together with the highest in safety objectives – the family-run enterprise MELAG has succeeded in becoming a leading



In two sizes: MELAdem®47

The water treatment unit for the practice with an average consumption of high-quality demineralized water for the autoclave and for the additional removal of water for other purposes in the practice. MELAdem®47 creates about 3 liters per hour, the supplied water storage tank has a volume of about 5 liters of demineralized water.

MELAdem®47 ① is installed in a lower cabinet with the water storage tank ② and tap ③



Technical data (W x H x D)

MELAdem® module	39 x 47 x 15cm
storage tank	Ø 24 x 51cm

MELAdem®55

The water treatment unit for the practice which requires a great deal of high-quality demineralized water for the MELAG autoclave Cliniklav®25. MELAdem®55 creates about 7 liters per hour, the supplied water storage tank has a volume of about 15 liters demineralized water.

MELAdem®55 with storage tank



Technical data (W x H x D)

MELAdem® module	39 x 47 x 15cm
storage tank	23 x 42 x 27cm

Advantage of reverse osmosis

Water treatment units which work on the principle of reverse osmosis, e.g. MELAdem®47 and MELAdem®55, require no regeneration of components needing large quantities of acids and alkaline solutions.

The reversion of the physical principle of osmosis, where the pure water diffuses from a solution of higher concentration through a

semipermeable membrane, is therefore an extremely economical and environmentally-friendly type of water treatment.

MELAdem®47 and MELAdem®55 additionally feature an extremely simple operation.

The desalination rate is 90-98%.

The yield of demineralized water is 25-30% of the tap water.

medium-size business to employ its highly specialized development team to effectively satisfy market demands and to further develop the MELAG line of products on a leading international level. 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.

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