MELAG
competence in hygiene

MELAdem®

Everything you need for water treatment

Now with video tutorials

Quality – made in Germany

The success of an owner-operated family company

System solution, innovation & quality

Would you like to save time and money on instrument reprocessing? With our aligned products from the MELAG system solution, we implement your reprocessing procedure simply, safely and with the highest quality. As an owner-operated family company founded in 1951, we specialize in products aiming at optimized hygiene workflows. Discover our unique advantages:

Experience
Specialization since 1951

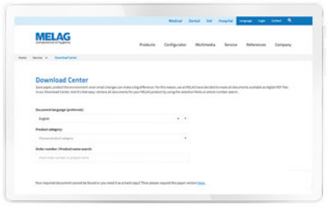
Trust
Over 500,000 units sold worldwide

Quality
Made in Germany

Innovation
450 specialized employees

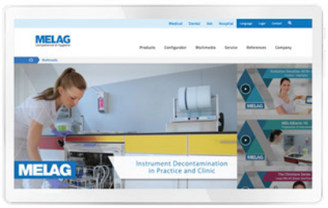
Our Digital Tools

Smart workflows in instrument decontamination: Our Download Center, Troubleshooting Portal and Multimedia Channel support you in everyday practice. Discover our Digital Tools at **www.MELAG.com**



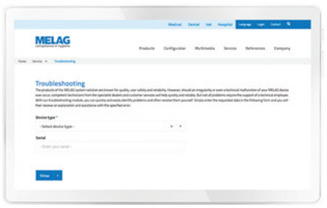
Download Center:
The Download Center offers you the ideal assistance to retrieve the documents you need.

www.melag.com/en/service/downloadcenter



Multimedia:
Access over 300 helpful videos and tutorials on safe instrument decontamination.

www.melag.com/en/multimedia



Troubleshooting:
By entering the event number, you will identify malfunctions and receive solutions.

www.melag.com/en/service/troubleshooting

The requirements

When reprocessing instruments, high-quality demineralized water is particularly important. This water is obtained from drinking or tap water: Containing a range of minerals requires the use of a water treatment unit. Water of a lower quality results in deposits or discolourations on the instruments as well as the chamber. Only the use of demineralized water guarantees optimal value-retention of your steam sterilizer and washer-disinfector and protects your valuable instruments.

The solution

All MELAG water treatment units provide high-quality demineralized water for the cleaning, disinfection and sterilization process. The water thus produced satisfies our recommendations and specifications for the operation of steam sterilizers and instrument decontamination in a washer-disinfector.

We offer a wide range of solutions to match your requirement for demineralized water. Depending on their characteristics, the units can be fitted easily in a floor unit, on the wall or the device. Water treatment units represent a cost-saving, environmentally-friendly and highly effective method for producing demineralized water of a constantly high quality in practices and clinics.

The advantages

Saving time: Water treatment units enable the automatic filling of demineralized water in the steam sterilizer and washer-disinfector. Moreover, the time-consuming acquisition and disposal of water canisters is now a thing of the past.

Value-retention: A constant supply of demineralized water ensures the optimal operation of your steam sterilizer and washer-disinfector. Demineralized water protects against corrosion and helps avoid the development of stains and surface alterations, thus protecting your devices and instruments.

Safety: The water quality in MELAG steam sterilizers and washer-disinfectors is subjected to automatic checks.

MELA*dem*® 40

The compact ion exchanger for steam sterilizers

This compact ion exchanger is designed to supply a steam sterilizer with demineralized water that is not used more than 3 - 4 times per day. The MELA*dem*® 40 holder allows the installation in the closer proximity or directly on all MELAG small steam sterilizers that are intended for automatic water replenishment. The replacement of the mixed bed resin cartridges can be performed quickly and easily by the personnel using the cartridge key.

Art. no. ME01049

Learn in our video tutorial how to replace the MELA*dem*® 40 filters quickly and easily: www.melag.com/en/multimedia

MELA*dem*® 47

The reverse osmosis unit for steam sterilizers and Careclave®

The reverse osmosis system offers an especially economically and environmentally friendly method of water treatment. The high capacity of up to 1,900 liters allows the connection to Careclave® or several steam sterilizers. The removal valve included in the scope of delivery enables the use of high-quality demineralized water for other purposes.

If the static water pressure is less than 3 bar relative, an additional pressure increase pump for MELA*dem*® 47 is required when using Careclave®.

Art. no. ME01047 MELA*dem*® 47
Art. no. ME22500 Pressure increase pump

Find out more about replacing the MELA*dem*® 47 filters in our video tutorial: www.melag.com/en/multimedia

MELA*dem*® 53 and MELA*dem*® 53 C

Ion exchanger for MELA*therm*® und Careclave®

MELA*dem*® 53 and 53 C work according to the ion exchange procedure and are suitable for practices and clinics with large requirements for demineralized water. MELA*dem*® 53 presents a standard size and capacity, whilst the small MELA*dem*® 53 C is suitable for especially compact installation situations. The scope of delivery consists of two filled cartridges: If the capacity of the first cartridge has been exhausted and it requires regeneration, the second must be connected.
The high performance of the MELA*dem*® 53 system enables the connection of multiple steam sterilizers in addition to MELA*therm*® or Careclave®.

Art. no. ME01038 MELA*dem*® 53
Art. no. ME01036 MELA*dem*® 53 C

In our video tutorial, we present the regeneration process for MELA*dem*® 53 in detail: www.melag.com/en/multimedia

MELA*dem*® 56 and MELA*dem*® 56 M

The reverse osmosis unit for the Cliniclave® 45 Series

MELA*dem*® 56 was designed for the special requirements of Cliniclave® 45 and 45 D. MELA*dem*® 56 M was developed for use with the very large autoclave Cliniclave® 45 M and 45 MD (2 StU). This water treatment unit has a considerably larger storage container.
Both appliances (together with their storage containers) can be integrated in the floor unit of the Cliniclave® 45 Series in a breeze.

Art. no. ME11056 MELA*dem*® 56
Art. no. ME11057 MELA*dem*® 56 M

MELA*jet*® for MELA*dem*® 40 and MELA*dem*® 53

Spraying off and through the instruments and the removing of demineralized water

We recommend that the instruments are supposed to be sprayed off and through with demineralized water after manual cleaning and disinfection and before their automated reprocessing or sterilization. The MELA*jet*® spray pistol enables the spraying of cleaning fluids and disinfectants with a point jet or cone spray. With the modular spray pipe, various adapters for Luer-Lock or hose connections can be deployed for spraying through the hollow bodies of instruments. MELA*jet*® is connected directly to the water treatment system MELA*dem*® 40 or MELA*dem*® 53 and ensures the convenient removal of demineralized water for other purposes.

- Throughflow rate (point jet): at 3 bar max. 0.9 l / min
- Water pressure (min. / max.): 2 – 10 bar
- Pistol length total: c. 32 cm
- Hose length: 1.5 m
- Weight: 0.45 kg

Art. no. ME27300

MELA*test* 60

Conductivity meter for checking the quality of the feed water

To protect instruments and steam sterilizers without an integrated conductivity measurement system from poor water quality, the demineralized water can be checked manually with MELA*test* 60.

- Dimensions (W × H × D): 41 × 175 × 23 mm
- Measurement range : 0.1 – 99.9 µS / cm
- Measurement increments: 0.1 µS / cm
- Deviation tolerance: ± 2.0 µS / cm
- Batteries (included in the scope of delivery): 4 × 1.5 V

Art. no. ME01060

Water stop valve

Safety valve for the water supply

When using water treatment systems or washer-disinfectors and autoclaves with a fixed water connection, the water stop valve interrupts the water supply in the event of water leakage and an acoustic signal sounds. Installation of the water stop valve thus helps prevent water damage resulting from leaks.

- Dimensions control device (W × H × D): 54 × 79 × 126 mm
- Dimensions solenoid valve (W × H × D): 41 × 102 × 82 mm
- Voltage supply: 220 / 240 V, 50 / 60 Hz
- Power supply: c. 3 W
- Working pressure solenoid valve (max.): 6 bar
- Cable length control device: 2 m
- Cable length solenoid valve: 1 m

Art. no. ME01056

Technical data

Facts and figures at a glance

Technical data	MELA*dem*® 40	MELA*dem*® 47	MELA*dem*® 53	MELA*dem*® 53 C	MELA*dem*® 56	MELA*dem*® 56 M
Art. no.	ME01049	ME01047	ME01038	ME01036	ME11056	ME11057
Dimensions (W × H × D)	31,5 x 35 x 15,5cm	40 x 46 x 18 cm	Ø 24 × 57* cm (*61,5 cm including connecting bend)	Ø 24 × 45* cm (*49 cm including connecting bend)	50 × 44,4 × 17,3 cm	50 × 48,1 × 70 cm
Storage container (Ø × H)	–	Ø 28 × 40 cm	–	–	Ø 30,5 × 44 cm	Ø 31,8 × 47 cm
Weight	3,7 kg	9,8 kg (2)	18 kg	14 kg	18 kg (2)	26 kg (2)
Volume	1,4 l (mixed bed resin)	10,5 l (Storage container)	20 l	15 l	13 l	21 l
Max. trough-flow volume	120 l / h	3 – 5 l / h	800 l / h	800 l / h	4 – 7,5 l / h	4 – 7,5 l / h
Resulting water quality	1– 5 µS / cm	< 1 µS / cm	1– 5 µS / cm	1– 5 µS / cm	< 1 µS / cm	< 1 µS / cm
Capacity at 10°dH	c. 210 l	c. 1900 l	c. 2800 l	c. 2100 l	c. 1900 l	c. 1900 l
Capacity at 20°dH	c. 105 l	c. 1250 l	c. 1200 l	c. 960 l	c. 1250 l	c. 1250 l
Min. / Max. water pressure	1,5 – 10 bar	2 – 6 bar	1,5 – 10 bar	1,5 – 10 bar	–	–
Wall mount	+	+	-	-	-	-
Mounting on the device	+	-	-	-	+	+
Careclave®	-	+(3)	+	+	-	-
Premium-Class Evolution	+	+	+(1)	+(1)	-	-
Pro-Class	+	+	+(1)	+(1)	-	-
Euroklav®	+	+	+(1)	+(1)	-	-
MELA*quick*® 12+ / 12+ p	+	+	+(1)	+(1)	-	-
Cliniclave® 45 / 45 D	-	-	-	+	+	-
Cliniclave® 45 M / 45 MD	-	-	-	+	-	+
MELA*therm*® 10	-	-	+	+	-	-
MELA*therm*® 10 Evolution	-	-	+	+	-	-

\+ compatible
\+(1) compatible only in connection with MELA*therm*® or Careclave®
\+(3) With a static water pressure of less than 3 bar relative, an additional pressure increase pump is required.
\- incompatible
(2) with filters and storage container (unfilled)

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For further information:
www.melag.com

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Save paper, protect the environment:
To reduce paper, we provide the user documentation for our products electronically in our download center.
You will find further information on www.melag.com