

THE PREMIUM EVOLUTION SERIES

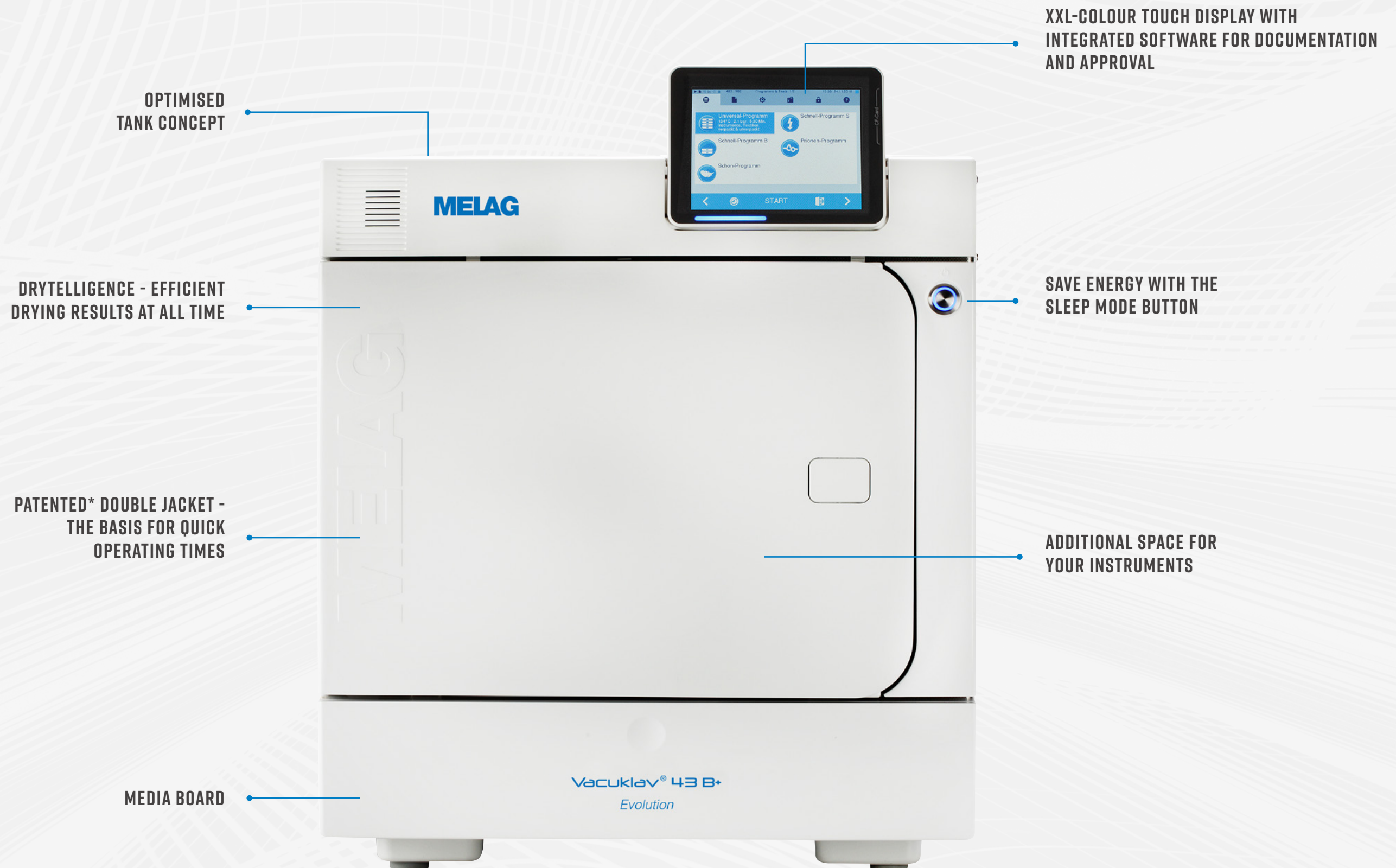
AN INNOVATIVE STEP FORWARD FOR STEAM STERILISERS



EVOLUTION

Our more than 65 years of experience in designing and manufacturing of practice steam sterilisers and large steam sterilisers for hospitals, combined with the innovation power of our 165 specialised engineers, has led to innovative and energy-efficient steam sterilisers:

The latest example of this success story is the Evolution series of the Premium-Class, a further development of the worldwide successful Vacuklav 40-44 B+.



AN INNOVATIVE STEP FORWARD FOR STEAM STERILISERS

Besides the typical MELAG features such as fast operating times, intuitive operating concept, integrated documentation and approval, the steam sterilisers of the Evolution series offers a range of innovations, which has been developed by a specialist in hygiene and instrument decontamination.

The focus of the Evolution series is the combination of short operating times and fast instrument availability and energy savings.



THE MEDIA BOARD

The media board gives the practice team fast access to critical components, such as the print display of the double-jacket or the interface for technical service.

THE DOUBLE-JACKET TECHNOLOGY. A MELAG PATENT* SINCE 2007.

The Evolution steam sterilisers have high-quality, double-walled sterilisation chambers, as are also used in large steam sterilisers for hospitals. This patented* double-jacket technology supports rapid removal of air from the sterilisation chamber, sterilisation packs, and also from the cavities of instruments.

This technology ensures a particularly effective sterilisation process with the high saturated steam quality. For the practice this means time saving and high efficiency.



*Germany held patent only.

THE THREE MOST IMPORTANT ADVANTAGES OF THE EVOLUTION SERIES AT A GLANCE



SAVE TIME AND ENERGY

The patented* Drytelligence® technology is an innovation from MELAG: This intelligent drying technology is based on a sensor-controlled drying function. A specially developed algorithm allows the drying to be automatically adapted to the individual load of the steriliser. Wrapped and unwrapped instruments in a full or partial load are automatically dried through DRYtelligence® within a load-specific period of time. DRYtelligence® provides validated drying results at any time.



WORK EFFICIENTLY

The load volume of the Evolution series is 9kg. This makes the Evolution steam sterilisers one of the most powerful in their category. To be able to sterilise these large load volumes in the Evolution series steam sterilisers, successive mounts were developed, which help ensure complete use of the chamber capacity. Additional tray levels (up to eight trays) increase the capacity and also enable the sterilisation of individually wrapped handpieces and contra-angles. For the practice, this means: fewer sterilisation cycles, less energy consumption and lower costs.



DOCUMENT SECURELY

The XXL-colour-touch display with a modern so-called "flat design" allows intuitive handling and precision. The Evolution also includes integrated software for documentation, approval and tracking. Directly connected over the MELAprint 60 label printer or via a network with the documentation management system of the practice, these steam sterilisers give each practice their individually requested documentation concept.



SAVE TIME AND ENERGY

WITH LARGE LOAD VOLUMES AND SHORT OPERATING TIMES



The rapid re-availability of sterilised instruments and the re-use of consistently well-dried instruments is of particular importance in practices and clinics.

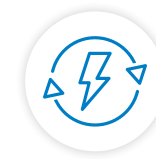
The patented* double jacket technology is the key prerequisite for the short operating times. The Evolution series also contains the patented* DRYtelligence® technology.

This intelligent drying is based on a sensor-controlled drying function. A specially developed algorithm allows the drying to be automatically adapted to the individual load of the steriliser. Wrapped and unwrapped instruments in a full or partial load are automatically dried through DRYtelligence® within a load-specific time. DRYtelligence® provides tailored drying results at any time.

SLEEP MODE

With the Sleep Mode button on the front of the device, steam sterilisers of the Evolution series are put into sleep mode with just one push of the button and are reactivated just as quickly. In this way, the power consumption, which is already low, can be reduced even further.

*Germany held patent only.



WORK EFFICIENTLY

WITH THE LOADING SYSTEM FOR ERGONOMIC LOADING AND UNLOADING

The load volume of the Evolution series is 9kg. To be able to sterilise these large load volumes in our Evolution series, tailor-made mounts were developed, which ensure full use of the chamber capacity.

Additional tray levels (up to eight trays) increase the capacity and also enable the sterilisation of individually wrapped handpieces and contra-angles, for examples, in combination with MELAstore boxes. For the practice, this means: improved efficiency for the practice.



A few sterilisation containers can be sterilised in the Evolution steam sterilisers in **just 30 minutes**.





DOCUMENT SECURELY

WITH THE INTEGRATED SOFTWARE FOR THE APPROVAL AND TRACKING OF INSTRUMENTS.



BARCODE LABEL PRINTING
WITH MELAPRINT 60

The XXL-colour touch screen display with a modern so-called “flat design” enables intuitive operation and thereby ensures that the user is able to find all important information quickly.

The standard integrated documentation and approval software allows for full reproducibility and completeness.

All users can be equipped with an individual PIN for secure traceability of the batch approval. The approval is authenticated fast and securely on the display.

The Evolution steam sterilisers offer many possibilities for documentation - starting with the network integration via the Ethernet interface, to the printout of barcode labels for the labelling of wrapped instruments, through to the output of the protocols to the CF card.

The documentation software MELAtrace provides a great solution for practices and clinics that would like to securely document and approve their complete hygiene workflow.

MELAtrace makes it possible to connect all steps of the instrument decontamination, from cleaning and disinfection, to wrapping through to sterilisation.

All process steps, program protocols and the decisions related to instrument decontamination are fully documented and archived securely.

Barcode labels can be printed using the MELAPrint 60 printer in order to trace the load instruments, to easily read them using a scanner and to pass them on to the practice management software.

THE DOCUMENTATION SOFTWARE MELATRACE



ADDITIONAL DEVICE FEATURES THAT SIMPLIFY YOUR WORK

It is often the small tools that make work more comfortable. The diverse options of the Evolution series help to make work processes simpler. These features are integrated into all steam sterilisers of the Evolution series and can be directly activated via the XXL colour touch screen display.



START TIME PROTECTION

The start time preselection makes it possible to choose any program and to start at any chosen time, such as for routine test programs.



CONDUCTIVITY MEASUREMENT

To protect your valuable instruments, all steam sterilisers are not only fitted with especially powerful temperature sensors, but also with an integrated water quality measurement method, which warns against using poor quality water.

THE STEAM STERILISERS OF THE EVOLUTION SERIES IN COMBINATION WITH MELADEM

PRESERVING INSTRUMENTS WHILE SAVING TIME AND MONEY

Save the time and money that you would require when purchasing, transporting, storing and filling distilled or demineralised water in your steam steriliser and instead, connect your Evolution steam steriliser to a water treatment unit.

If there is a water supply and water drain near the steam steriliser, you not only automate the filling and dosing, but also the drainage of the used water. From the small practical MELAdem 40 to the economical and environmentally friendly reverse osmosis system MELAdem 47, through to the high-performance system MELAdem 53 (for simultaneous connection of a washer disinfectant), we offer the right solution for most desired application.



VACUKLAV 40 B+ EVOLUTION
WITH SIDE-MOUNTED MELADEM 40

THE EVOLUTION SERIES OF THE PREMIUM CLASS

Besides the typical MELAG features such as fast operating times, intuitive operating concept, integrated documentation and approval, the steam sterilisers of the Evolution series offers a range of innovations, which has been developed to high sophistication by a specialist for practice hygiene and instrument decontamination.

The focus of the Evolution series is the combination of even shorter operating times and thus faster instrument availability and energy savings.

VACUKLAV 40 B+ EVOLUTION AND VACUKLAV 44 B+ EVOLUTION



These steam sterilisers have a fixed water connection. Through the innovative water cooling of the vacuum pump, they represent efficient operating times and handling, as well as ensure quality and reliability.

VACUKLAV 41 B+ EVOLUTION AND VACUKLAV 43 B+ EVOLUTION

These steam sterilisers have a patented air-cooling system which makes them real “standalone” steam sterilisers, since they only need to be connected to an electrical outlet for operation. And of course, all four devices can be connected to a water treatment unit for the direct supply of demineralised water.



VACUKLAV® 40 B+ EVOLUTION




FIXED WATER CONNECTION

CHAMBER DEPTH: 35CM



VACUKLAV 41® B+ EVOLUTION




STAND-ALONE

CHAMBER DEPTH: 35CM

VACUKLAV® 44 B+ EVOLUTION




FIXED WATER CONNECTION

CHAMBER DEPTH: 45CM

VACUKLAV 43® B+ EVOLUTION




STAND-ALONE

CHAMBER DEPTH: 45CM



The tray holder racks are designed for particularly easy handling in daily operation. Sterilisation containers can also be inserted into the steam steriliser without a rack.

ADAPTABLE TO A VARIETY OF NEEDS

In order to allow each practice or clinic to individually organise the instrument decontamination workflow, we offer four options for suitable loading of the steam sterilisers with wrapped or unwrapped instruments or with boxes.



MOUNT E PLUS
for 6 standard trays
and 2 small trays



MOUNT F PLUS
for 3 boxes and
2 small trays



MOUNT D PLUS
or 2 boxes and
2 small trays



MOUNT C PLUS
for 3 boxes

THE SYSTEM SOLUTION - USE OF COMPATIBLE PRODUCTS

The use of compatible products from our system solution saves time and costs right from the beginning due to an efficient workflow of the instrument decontamination process.

Another practical benefit of the system solution lies especially in the saving of maintenance and validation costs. If the steam steriliser, the washer disinfector, the sealing device and the water treatment unit are provided by the same manufacturer, the appointments with technicians for maintenance and validation can be synchronised by the same technician and thus planned in a cost efficient and time saving manner.

Complete documentation of the entire instrument decontamination process, including the load management, approval and tracking with the MELAtrace documentation software is another important advantage. Easy to use in App design and with a touch interface, MELAtrace offers the practice an additional invaluable cost advantage. Instead of several individual licences, only one licence needs to be purchased and there are no annual recurring costs.

The system solution is thus not only designed for special security and workload reduction, but also especially for savings costs.

PROGRAMS, TIMES AND TECHNICAL DATA

PROGRAM CYCLE TIMES	UNIVERSAL PROGRAM Holding time 5.5 min	QUICK-PROGRAM B* Holding time 5.5 min	QUICK-PROGRAM S** Holding time 3.5 min	GENTLE-PROGRAM Holding time 20.5 min	PRION-PROGRAM Holding time 20.5 min
VACUKLAV 40 B+					
up to 6 kg instruments	16 - 21	14 - 15	8 - 11	31 - 38	31 - 36
up to 2 kg of textiles	23	-	-	40	38
VACUKLAV 41 B+					
up to 6 kg instruments	17 - 23	14 - 16	9 - 12	32 - 41	32 - 38
up to 2 kg of textiles	25	-	-	42	40
VACUKLAV 43 B+					
up to 7 kg instruments	17 - 25	15 - 16	9 - 13	32 - 42	32 - 39
up to 2.5 kg of textiles	28	-	-	46	44
VACUKLAV 44 B+					
up to 7 kg instruments	16 - 22	14 - 15	8 - 12	31 - 40	31 - 37
up to 2.5 kg of textiles	26	-	-	43	41
DRYING TIME	12	6	2	12	12

If needed, additional drying can be enabled for larger loads of up to 9 kg.

* max. 1.5 kg wrapped or 6 kg and 7 kg unwrapped | ** unwrapped

All times in minutes, depending on the load, power supply and water supply

TECHNICAL DATA	VACUKLAV 40 B+	VACUKLAV 41 B+	VACUKLAV 43 B+	VACUKLAV 44 B+
CHAMBER SIZE/VOLUME	Ø 25 cm x 35 cm long/18 litres		Ø 25 cm x 45 cm long/23 litres	
LOAD QUANTITY	max. 9 kg instruments / 2 kg textiles		max. 9 kg instruments / 2.5 kg textiles	
DIMENSIONS (WXHXD)	46 cm x 50 cm x 55 cm Height incl. display 56 cm Device feet fit on 50 cm table plate		46 cm x 50 cm x 68 cm Height incl. display 56 cm Device feet fit on 60 cm table plate	
WEIGHT	55 kg	60 kg	69 kg	64 kg
POWER SUPPLY	220 - 240V / 50 - 60Hz/3.400W			

For more product or pricing information, please contact your Biomedex representative.