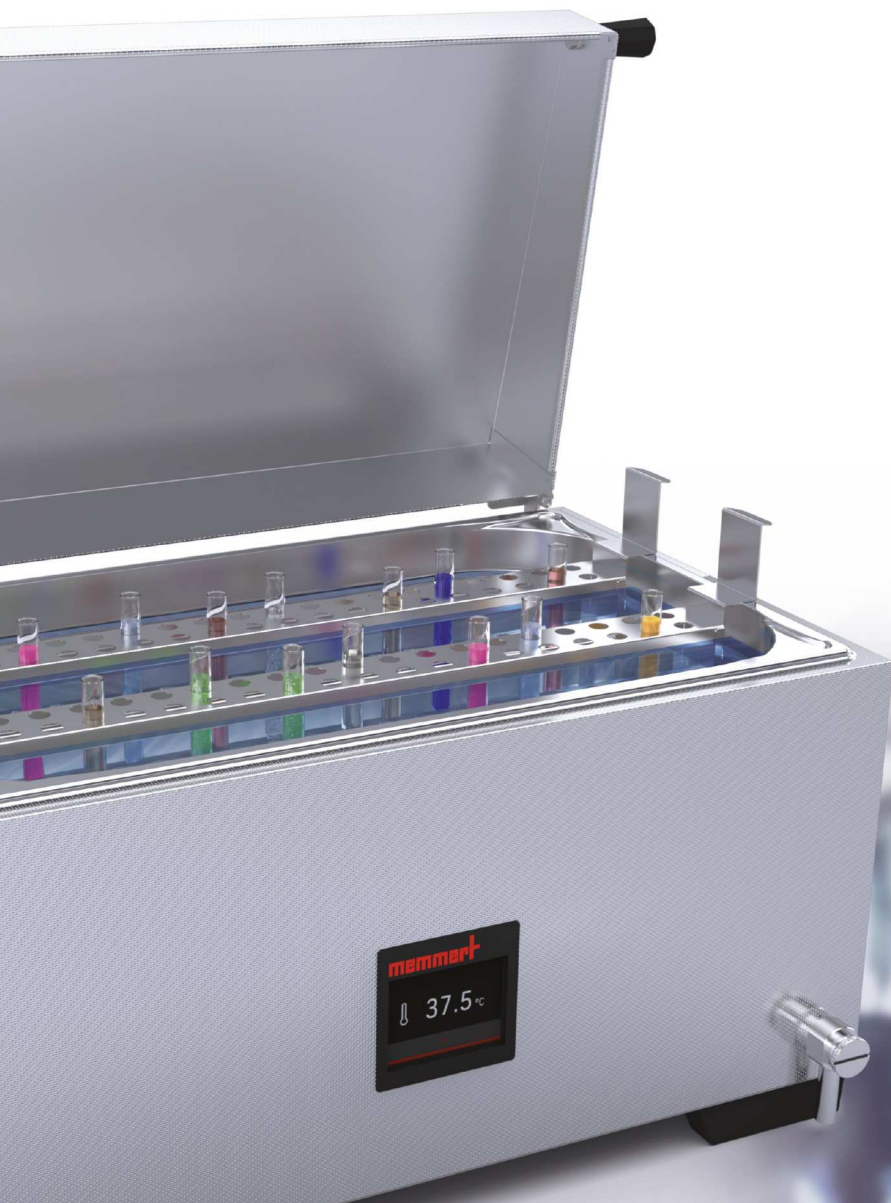


**memmert**

# Waterbaths

PRECISION AND SAFETY BROUGHT TO THE POINT.



WATERBATH WTB

MADE IN GERMANY.

[www.memmert.com](http://www.memmert.com)



# Intuitive. Flexible. Easy calibration.

A success story right from the start.

Since the 1970s, the temperature control bath has been an integral part of the Memmert product range. More than several hundred thousand waterbaths have left our factory in Buechenbach to date and are used on all continents of the world. In 2020, the new generation of waterbaths was introduced – with a convenient design and unique operation.

The Memmert waterbath WTB is a prime example of successful appliance design: modular, compact, with a convincing operating concept and dynamic heating and control technology.

**Intelligent design looks simple.**

**WATERBATHS WTB**

**PAGE 4 - 14**

Temperature control of samples, plates, breeding media and emulsions in the laboratory, long-term exposure to heat of plastics to determine dimensional stability and post-shrinkage, softening temperature testing of plastic, warming of baby food

**ADDITIONAL INFORMATION**

**PAGE 15**



Waterbath WTB

Model sizes:

6 / 11 / 15 / 24 / 35 / 50

+10 °C above ambient to +100 °C

**WATERBATH WTB** What makes this modern, compact generation of waterbaths from Memmert so extraordinary? The temperature bath adapts flexibly to your wishes. It maintains the temperature of nutrient solutions, samples, ointments and emulsions with absolute precision. It is easy to clean and it is best in class in safety.



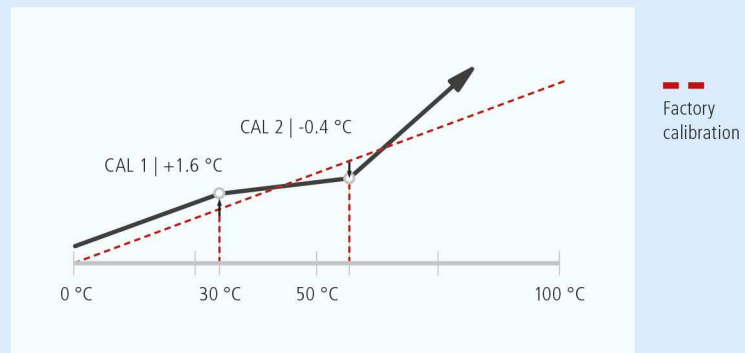
## Compact and easy to clean

Every square centimeter of space in the laboratory is valuable. That is why we have designed the Memmert WTB as totally compact that it can easily be placed on any laboratory bench. With its rounded corners, the high-quality stainless steel tub is easy to clean and can be emptied with the standard water drainage without tilting.



## 2-point calibration

Each Memmert waterbath is temperature-calibrated and adjusted before delivery. If readjustment is necessary, for example, due to the influence of the load, you can adjust the device using two self-selected adjustment temperatures.



- CAL 1 Temperature adjustment at low temperature
- CAL 2 Temperature adjustment at high temperature

## 3-level safety system

Memmert waterbaths WTB come with a unique, 3-stage safety system. The reliable protection of the silicone heating element against overheating saves high service costs for replacement and repair.

If there is no (more) water in the waterbath, the dry run protection switches off the heating. A soft start of the heating prevents critical temperature overshoots in the event of a safety shutdown. As the last safety measure, a thermal fuse on the heating element interrupts the circuit when a temperature of over +240 °C is reached.



## Unique control and menu navigation

Swipe, tap, done. Thanks to the intuitive touchscreen control and the minimalist menu navigation, the Memmert waterbaths WTB are ready for operation in no time. Perfectly coordinated heating and control technology guarantee maximum precision and safe operation with optimized water requirements.



## Personalizable remote screen CustomView

One, two or three: Immediately after switching on the Memmert waterbath, the CustomView view appears. It only shows the values that have been activated on the display – at least one, maximum three. The individual selection such as setting temperature, timer, alarm, 2-point calibration and temperature unit °C or °F can be easily changed in the device settings. Simply tap the display and the home screen appears.



## Fast and highly precise temperature control

The temperature is controlled by an extremely responsive silicone heating element in combination with a high-precision, digital temperature sensor on the bath. This ensures a high level of control accuracy during the entire program runtime.



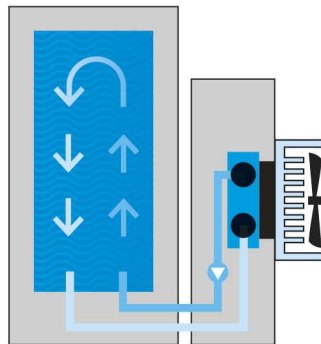
## Peltier-cooling device CDP115

The advantages: compact design and cooling with environmentally friendly Peltier technology without time-consuming installation on the waterbath.

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## One cooling device for all sizes

It extends the temperature range of the Memmert waterbaths from 10 °C and fits all baths sizes (from 7 to 51 liters bath volume). The water is continuously circulated and cooled in the process using special water cooling hoses. Simply place the CDP115 next to the waterbath, connect the hoses, connect to the power supply and off you go! Simultaneous operation with the shaking device is possible without any problems.



Liquid circulation




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## Safety and precision when it comes to cooling

The desired temperature for cooling is also set on the touchscreen of the waterbath WTB. Frost protection switches off the cooling element if there is no liquid flow and thus protects the Peltier through-flow cooling unit from freezing. After the fault has been eliminated, the frost protection switch is automatically reset. The cooling device CDP115 can be switched on and off via its own main switch.



## **FLEXIBLE AND MODULARLY EXPANDABLE**

The waterbath WTB adapts to your needs with its modular concept. If the application requires it, a circulation pump, Peltier-cooling unit or shaking device, can easily be retrofitted. Thanks to the racks for test tubes and flasks, the reaction vessels are gently and safely heated in the waterbath.



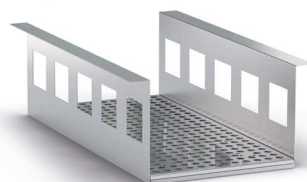


## Shaking device SV



If the liquid in the reaction vessels must not rest, the shaking device SV, which is placed on the waterbath, ensures constant movement in the horizontal direction. The shaking frequency, freely selectable between 30 and 150 strokes per minute, can be set on the display of the shaking device - as can the program runtime and alarm protection.

We have suitable racks in our range so that the reaction vessels do not tip over in the temperature control bath. The support basket with integrated perforated mounting shelves prevents the flasks from slipping or even falling over. Please note: Pay close attention to the flask size when ordering the fixation clips. The shaking device can only be used with a special gable cover.



## Special racks for shaking device SV

When using a shaking device, the flasks are securely held in a support basket with a perforated fixing mounting shelf. They are firmly fixed on the perforated shelf with clips and can neither slip nor tilt.

For the safe storage of the test tubes, we have racks specially designed for the shaking device in our range. They are available for three different glass sizes ( $\varnothing$  14.5 / 18 / 32 mm). Only one insert rack per waterbath is possible. Normal test tube racks cannot be used when using a shaking device SV.

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## Pump device CPM



The continuous circulation of the tempering medium with a Memmert pump device CPM improves the thermal homogeneity. This self-priming pump is suitable for continuous operation. The flow capacity is 1.2 liters per minute. The device has its own power plug and can be flexibly switched on or off at any time using the ON/OFF switch. Please note that the circulation pump cannot be used in combination with the cooling device.

## Waterbath covers



In order to protect the bath contents from foreign objects, we also recommend the use of a gable or flat cover. With a cover, your waterbath also works more efficiently and saves energy, because the heat is stored and evaporation is reduced.

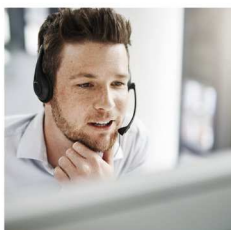
Choose a gable cover if you want to temper test tubes and a flat cover for experiments with flasks. The openings for the flasks recessed in the flat cover can be flexibly closed with ring sets. The gable cover is equipped with one or two handles and can be mounted to the left or right as required. When using with cooling, pumping or shaking devices, suitable special covers with additional cutouts must be used for an optimal fit.

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## Reversible bottom shelves

If the load is placed on the waterbath bottom without a shelf, the heater transfers the heat directly to the load and thus prevents the tempering medium from heating up evenly. The load may have the same weight as the maximum filling volume of the bath. Reversible bottom shelves for the Memmert waterbath can alternatively be used with a height of 30 or 60 mm.





## SERVICES FOR THE WATERBATH WTB

### IQ/OQ documents



We carry out IQ/OQ measurements in our factory. You can freely select a temperature value; the distribution measurement is carried out according to DIN 12876.2 for nine measuring points in the waterbath. Further temperature values and validation on site are available upon request.



### Maintenance

The Memmert service team will be happy to maintain your temperature control bath at your location. Documentation (available upon request) is made of the maintenance accordingly.

To ensure that your device remains intact over a long service life and errors are detected and rectified at an early stage, we offer you a one-time maintenance and a maintenance contract on special terms. The minimum duration for a maintenance contract is three years – the maintenance is carried out by our service team in Germany, Austria and France. If you would like maintenance in another country, please contact us for getting in touch with our broad service network.

### Calibration

To ensure that the temperature shown in the display actually corresponds to the temperature measured in the waterbath, we recommend that the temperature bath is regularly calibrated. As with an IQ/OQ measurement, the calibration value can also be freely selected here and any number of temperature values can be calibrated. We also offer this service in Germany, Austria and France, and other areas upon request.

Our team will be happy  
to answer any questions you may have:

 [service@memmert.com](mailto:service@memmert.com)

 +49 9171 9792-911

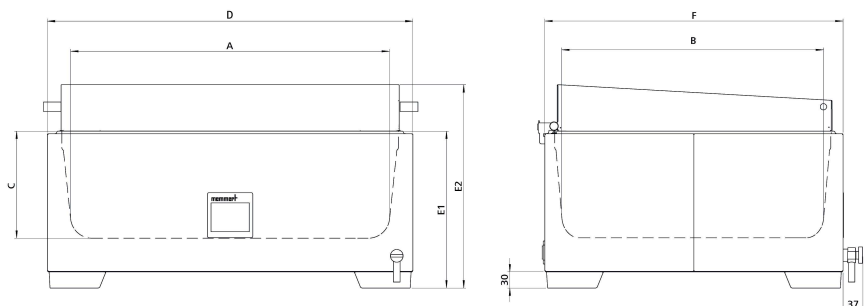
## WATERBATHS WTB

according to DIN 12876-3, EN 61010, EN 61010-1 (IEC 61010-1), EN 61010-2-010

Standard units are safety-approved and bear the test marks:



- Interior:** Deep-drawn stainless steel tray (stainless steel W.St. 1-4301), heating mounted from the outside, without corners and edges for easy cleaning incl. central drain (no disturbing installations)
- Housing:** textured stainless steel (material 1.4301) intuitive 3.5" colour graphic display with touch screen  
cover is not included in standard delivery, but available as accessory
- Connection:** mains cable with plug (German type)
- Installation:** 4 feet



Model sizes/Description			6	11	15	24	35	50
Stainless steel interior	Contents	approx. l	7.5	10	17.1	23.1	37.5	51
	Length	(A) mm	277	267	482	472	602	592
	Width	(B) mm	217	207	277	267	482	472
	Height	(C) mm	150	200	150	200	150	200
Textured stainless steel exterior	Width	(D) mm	349		554		674	
	Height (with flat cover)	(E1) mm	245	295	245	295	245	295
	Height (with gable cover)	(E2) mm	348	398	348	398	348	398
	Depth	(F) mm	289		349		554	
Temperature	Setting accuracy	°C	0.1					
	Working temperature range	°C	at least 5 above ambient to +100 (with cover, depending on ambient pressure)					
	Setting temperature range	°C	+10 to +100					
Further data	Electrical load at 230 V, 50/60 Hz	approx. W	1000		1420		2800	
	Electrical load at 115 V, 50/60 Hz	approx. W	1000		1420		2000	
Packing data	Net weight (with one cover option)	approx. kg	6	7	9	10	14	16
	Gross weight (in carton)	approx. kg	10	12	14	16	20	23
	Length	approx. mm	570		670		910	
	Width	approx. mm	450		530		610	
	Height	approx. mm	420	380	400	460	400	460

### Order No. Waterbaths

WTB6    WTB11    WTB15    WTB24    WTB35    WTB50

Options	6	11	15	24	35	50
Voltage 115 V, 50/60 Hz				X2		
Works calibration certificate +37 °C				D00123		
Accessories	6	11	15	24	35	50
Stainless steel gable cover		B39844		B39845		B39846
Special stainless steel gable cover (only in combination with CDP115/ CDP115X2/ CPM650/ SV1524/ SV1524X2/ SV3550/ SV3550X2)		B50775		B50763		B50764
Flat stainless steel cover with openings and concentric ring sets; 3 openings, Ø 87 mm		B48804		-		-
Flat stainless steel cover with openings and concentric ring sets; 6 openings, Ø 107 mm		-		B48805		-
Flat stainless steel cover with openings and concentric ring sets; 8 openings, Ø 107 mm			-			B48806
Special flat stainless steel cover with openings and concentric ring sets; 3 openings, Ø 87 mm (only in combination with CDP115/ CDP115X2/ CPM650)		B48807		-		-
Special flat stainless steel cover with openings and concentric ring sets; 6 openings, Ø 107 mm (only in combination with CDP115/ CDP115X2/ CPM650)		-		B48808		-
Special flat stainless steel cover with openings and concentric ring sets; 8 openings, Ø 107 mm (only in combination with CDP115/ CDP115X2/ CPM650)			-			B48809
Perforated bottom shelf, reversible for 2 heights (30 or 60 mm), stainless steel		B50767		B50769		B50771
Peltier-cooling device CDP115 for waterbaths for temperatures below ambient from +10 °C, Voltage 230 V, 50/60 Hz. Please do not forget to order the installation and connection set (B48813)!				CDP115		
Peltier-cooling device CDP115 for waterbaths for temperatures below ambient from +10 °C, Voltage 115 V 60 Hz. Please do not forget to order the installation and connection set (B48813)!				CDP115X2		
Pump device for continuous circulation of the tempering medium. Voltage 230 V, 50/60 Hz. Please do not forget to order the installation and connection set (B48813)!				CPM650		
Installation and connection set for Peltier cooling device CDP115 or pump device CPM650 (incl. mounting bars for all different bath sizes)				B48813		
Shaking device for waterbaths incl. support frame, shaking frequency 30 - 150 strokes per minute (horizontal back/forth movement), requires special gable cover. Voltage 230 V, 50/60 Hz. Please do not forget to order the support basket.		-		SV1524		SV3550
Shaking device for waterbaths incl. support frame, shaking frequency 30 - 150 strokes per minute (horizontal back/forth movement), requires special gable cover. Voltage 115 V, 60 Hz. Please do not forget to order the support basket.		-		SV1524X2		SV3550X2
Support basket with perforated mounting shelf (stainless steel) with grid perforations to take clips for conical flasks (use of test tube racks not possible)		-		B48814		B48815
Clip for 100 ml flask, max. flasks see sketch on demand		-			B02692	
Clip for 200 ml flask, max. flasks see sketch on demand		-			B02693	
Clip for 300 ml flask, max. flasks see sketch on demand		-			B02694	
Clip for 500 ml flask, max. flasks see sketch on demand		-			B02695	
Rack for shaking device for 171 test tubes Ø 14.5 mm		-		B48816		-
Rack for shaking device for 475 test tubes Ø 14.5 mm			-			B48817
Rack for shaking device for 119 test tubes Ø 18 mm		-		B48818		-
Rack for shaking device for 357 test tubes Ø 18 mm			-			B48819
Rack for shaking device for 45 test tubes Ø 32 mm		-		B48820		-
Rack for shaking device for 117 test tubes Ø 32 mm			-			B48821
Test tube racks, holes 2-row racks, 34 holes, Ø 10 mm each		B48822				-
Test tube racks, holes 2-row racks, 58 holes, Ø 10 mm each		-		B48823		-
Test tube racks, holes 2-row racks, 74 holes, Ø 10 mm each			-			B50656
Test tube racks, holes 2-row racks, 30 holes, Ø 12 mm each		B48824				-
Test tube racks, holes 2-row racks, 58 holes, Ø 12 mm each		-		B48825		-
Test tube racks, holes 2-row racks, 66 holes, Ø 12 mm each			-			B50657
Test tube racks, holes 2-row racks, 26 holes, Ø 14.5 mm each		B48826				-
Test tube racks, holes 2-row racks, 46 holes, Ø 14.5 mm each		-		B48827		-
Test tube racks, holes 2-row racks, 58 holes, Ø 14.5 mm each			-			B50658
Test tube racks, holes 2-row racks, 22 holes, Ø 18 mm each		B48828				-
Test tube racks, holes 2-row racks, 38 holes, Ø 18 mm each		-		B48829		-
Test tube racks, holes 2-row racks, 50 holes, Ø 18 mm each			-			B50659
Test tube racks, holes 2-row racks, 18 holes, Ø 21 mm each		B48830				-
Test tube racks, holes 2-row racks, 34 holes, Ø 21 mm each		-		B48831		-
Test tube racks, holes 2-row racks, 44 holes, Ø 21 mm each			-			B50660
Test tube racks, holes 2-row racks, 14 holes, Ø 32 mm each		B48832				-
Test tube racks, holes 2-row racks, 22 holes, Ø 32 mm each		-		B48833		-
Test tube racks, holes 2-row racks, 30 holes, Ø 32 mm each			-			B50661
Test tube racks, holes 3-row racks, 33 holes, Ø 18 mm each		B48834				-
Test tube racks, holes 3-row racks, 57 holes, Ø 18 mm each		-		B48835		-
Test tube racks, holes 3-row racks, 75 holes, Ø 18 mm each			-			B50662
Test tube racks, holes 4-row racks, 44 holes, Ø 18 mm each		B48836				-
Test tube racks, holes 4-row racks, 76 holes, Ø 18 mm each		-		B48837		-
Test tube racks, holes 4-row racks, 100 holes, Ø 18 mm each			-			B50663

Accessories	6	11	15	24	35	50
IQ/OQ document with device-specific works test data for one free-selectable temperature value, incl. temperature distribution survey at Memmert for 9 measuring points to DIN 12876.2. 305 € for further temperature values						D00125
Maintenance WTB - carrying out and documentation according to Memmert maintenance plan (excluding travel costs, not subject to discount, GER, AT, FR only)						S00321
Maintenance contract WTB - carrying out and documentation according to Memmert maintenance plan, minimum duration 3 years (excluding travel costs, not subject to discount, GER, AT, FR only)						S00321J
Calibration of one freely selectable temperature value (excluding travel costs, not subject to discount, GER, AT, FR only)						S00205
Calibration of an additional temperature value (not subject to discount)						S00215

## 24 HOURS AT YOUR SERVICE

[www.memmert.com](http://www.memmert.com)

Here you can find the latest news concerning our company and products, as well as detailed descriptions of every single product. Additional information on the technologies used will support your sales arguments. In addition to this, data sheets, certificates, operating instructions and brochures are available for download. Service notifications can be submitted to our service team using the corresponding form.

### Dedicated login area for our trading partners

- Technical information:  
Service instructions, software download, wiring diagrams, maintenance schedules etc.
- Marketing/sales information:  
Press releases, product photos, image photos, videos, order form for advertising material etc.
- Download of price list and customisation department price list
- Dates and registration form for sales and service trainings

#### Our tip:

.....  
Please consider the Memmert customer information, which we regularly send exclusively to our trading partners. We inform you about campaigns, upcoming product launches, service offers and new application reports!



## CLIMATE CHAMBERS

CONSTANT CLIMATE CHAMBERS HPPeco

HUMIDITY CHAMBERS HCP

CLIMATE CHAMBERS ICHeco / ICH

ENVIRONMENTAL TEST CHAMBERS CTC / TTC

## HEATING AND DRYING OVENS

UNIVERSAL OVENS U

PASS-THROUGH OVENS UF TS

PARAFFIN OVENS UNpa

VACUUM OVENS VO

## INCUBATORS

INCUBATORS I

CO<sub>2</sub> INCUBATORS ICO

COMPRESSOR-COOLED INCUBATORS ICPeco / ICP

PELTIER-COOLED INCUBATORS IPPeco

## MEDICAL DEVICES

UNIVERSAL OVENS Um

INCUBATORS Im

STERILISERS S

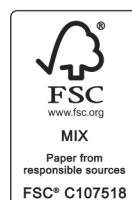
CO<sub>2</sub> INCUBATORS ICOmed

BLANKET WARMERS IFbw

## WATERBATHS

WATERBATHS WTB

YOUR MEMMERT PARTNER



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