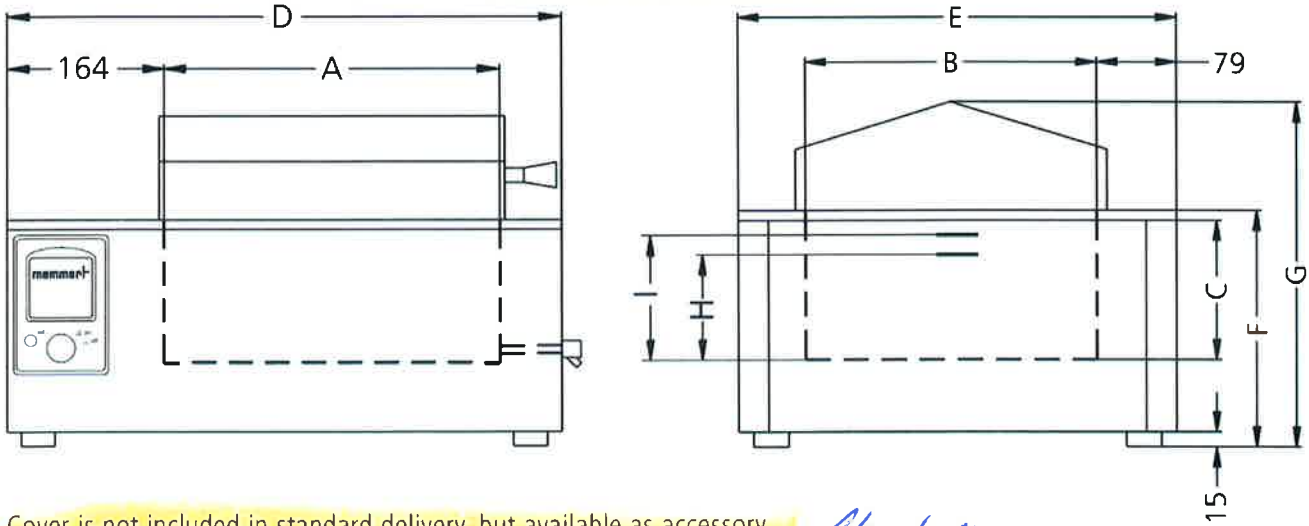
Product specification

Waterbath

WNB 14

The combination of corrosion-resistant stainless steel, precise electronics and multiple temperature protection guarantees the highest level of safety in the laboratory.

On this page, you can find all the essential technical data on the Memmert water bath. Our customer relations team will be pleased to help if you want further information. If you should require a customised special solution, please contact our technical specialists at myAtmoSAFE@memmert.com.



Cover is not included in standard delivery, but available as accessory.

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Temperature

Setting temperature range	+10 to +95 °C and boiling stage
Working temperature range in °C	min. 5 above ambient up to +95 °C with additional boiling mode

Control of standard components

Temperature sensor	1 Pt100 sensor class A in 4-wire-circuit
Timer	integrated digital timer from 1 min. to 99,59 hours for:ON continuous operationWAIT (delayed on for continuous andlimited timed operation)HOLD

Safety

Temperature control	mechanical temperature limiter TB protectionclass 1 switching the heating off at approx. 30°Cabove max. temperature of the bath
Temperature control	in case of overtemperature due to failure,the heating is switched off at approx. 10°Cabove the set temperature (fixed value)
Autodiagnostic system	microprocessor PID-temperature controllerwith integrated autodiagnostic system withfault indicator

Heating concept

Heating Baths	corrosion-proof large-area heating onthree sides

Standard equipment

Controller	digital display (LED) of set and actualtemperature (0,1°C resolution) and of (remaining)programme time

Stainless steel interior

Dimensions W x H x D in mm	$w_{(A)}$ x $h_{(C)}$ x $d_{(B)}$: 350 x 140 x 290 mm
Interior	easy-to-clean interior, made of stainlesssteel, reinforced by deep drawn ribbing,material no. 1.4301 (ASTM 304), laser-welded
Volume	14 l
Liquid level min.	(H) 97 mm
Liquid level max.	(I) 120 mm

Textured stainless steel casing

Dimensions	$w_{(D)}$ x $h_{(G)}$ x $d_{(E)}$: 578 x 347 x 436 mm

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Electrical data

Voltage	230 V, 50/60 Hz
Electrical load	approx. 1800 W (during heating) 11 Satz

Ambient conditions

Installation	The vent openings in the left and back side must remain unobstructed. Minimum wall spacing on all sides is 80 mm. The minimum spacing from the top of the bath to the next ceiling is 750 mm.
Ambient temperature	+5 °C to +40 °C
Humidity rh	max. 80 %, non-condensing
Overvoltage category	II
Pollution degree	2

Packing/shipping data

Transport information	The appliances must be transported upright
Customs tariff number	8419 8998
Country of origin	Federal Republic of Germany
WEEE-Reg.-No.	DE 66812464
Dimensions approx incl. carton	w x h x d: 670 x 530 x 400 mm
Net weight	approx. 15 kg
Gross weight carton	approx. 21 kg

Standard units are safety-approved and bear the test marks

CE EAC

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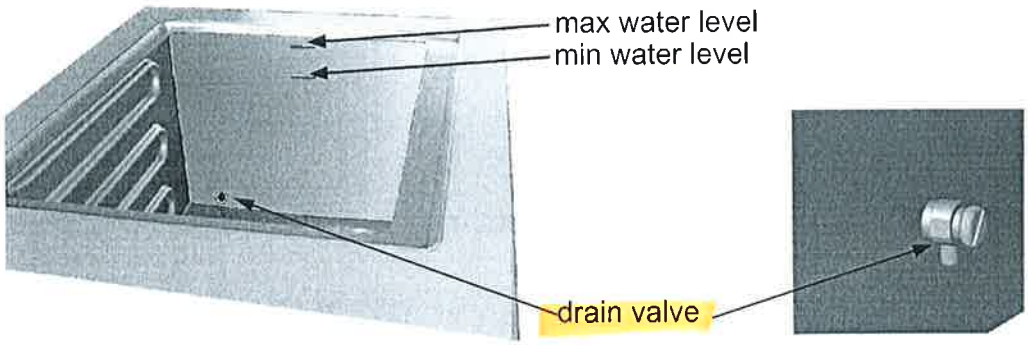


Operation with non-flammable thermostating liquids only!

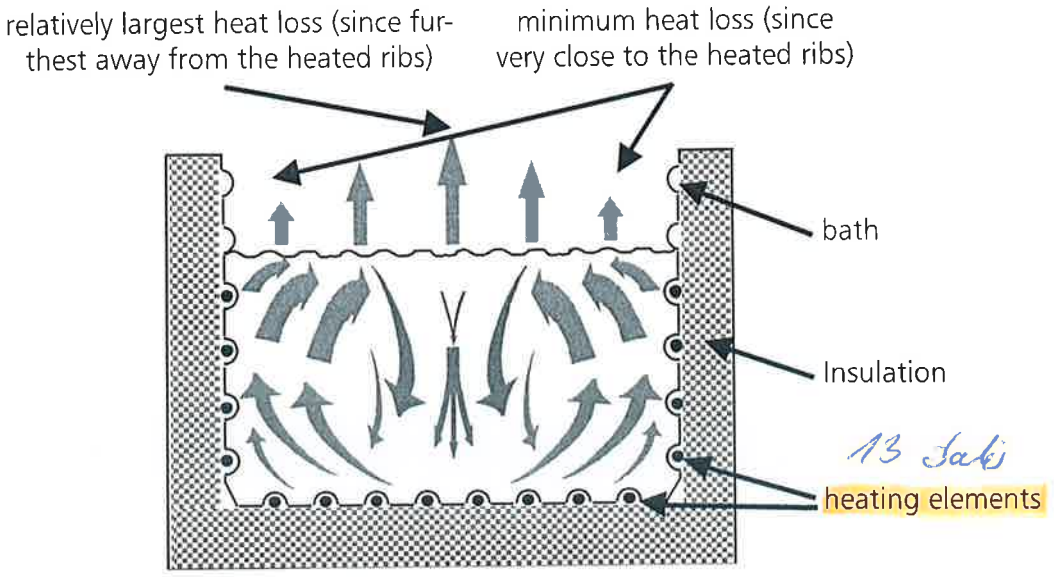
Note

- The tray may suffer damage as a result of corrosion and pitting, causing the temperature control fluid to infiltrate the heating system. Only ever use demineralised water with a conductance level of 5-10 microsiemens and a pH value between 5 and 7.

- The tray may suffer damage if ultrapure water or DI water with an electrical conductance level of below 5 microsiemens is used. Only ever use pretreated water with a conductance level of 5-10 microsiemens.

- When filling the bath, make sure you stop when the liquid level is between the two fill level marks on the right inside wall of the tray. Water baths may have a water level control feature (see section 9).

4 Bath construction and operation



The heating positioned on three sides around the tank ensures a natural water circulation of the liquid inside, thus securing an optimal uniform temperature distribution.

4.1 Controls and indications