

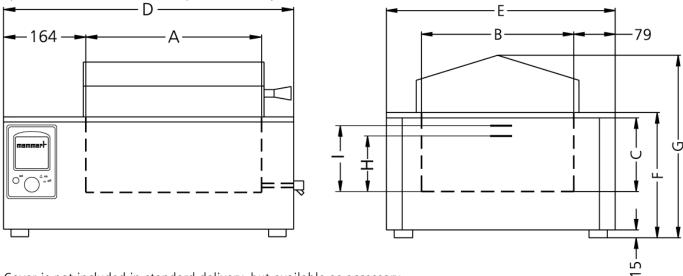
# Waterbath

WPE 45

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 <u>myAtmoSAFE@memmert.com</u>.



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

#### Temperature

Temperature range in °C	min. 15°C above ambient up to +95°C
resolution of display and setting accuracy	0,1°C up to +99,9°C / 1°C from 100°C

#### **Control of standard components**

Circulation pump	pump can be switched on and off
Circulation pump	pump is switched off at programme end
Controller	digital display (LED) of all set parameters, such astemperature and alarm values (0,1°C resolution)as well as time values
Timer	digital timer from 1 min. up to 999 hours for:ON (continuous operation),DELAYED ON,HOLD or HOLD set-temperature dependentwith guaranteed holding time
Calibration	on controller

# **Control technology**

Control technology	
Controller	Electronic microprocessor temperature controller with auto-diagnostic system
Safety	
Temperature control	2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over theperformance at the same temperature value
Temperature control	mechanical temperature limiter TB protectionclass 1 switching the heating off at approx. 30°Cabove max. temperature of the bath
Temperature control	independently working, electronicovertemperature controller TWWprotection class 3.1 or overtemperaturelimiter TWB protection class 2, adjustablein set-up menu by customer
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	fuzzy-supported PID microprocessor controllerwith integrated autodiagnostic system withfault indication

Alarm	visual and acoustic alarm at programme endand as input acknowledgement as well asin case of low liquid level,heating is switched off automatically

## Heating concept

Stainless steel interior	

# Dimensions W x H x D in<br/>mm $w_{(A)} x h_{(C)} x d_{(B)}$ : 590 x 220 x 350 mmInterioreasy-to-clean interior, made of stainlesssteel, reinforced by deep drawn ribbing,material no. 1.4301<br/>(ASTM 304), laser-weldedVolume45 lLiquid level min.(H) 177 mmLiquid level max.(I) 200 mm

#### Textured stainless steel casing

Dimensions	w <sub>(D)</sub> x h <sub>(G)</sub> x d <sub>(E)</sub> : 818 x 401 x 516 mm

#### **Electrical data**

Voltage	230 V, 50/60 Hz
Electrical load	approx. 2800 W (during heating)

#### **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	ll
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-RegNo.	DE 66812464
Dimensions approx incl. carton	w x h x d: 910 x 610 x 460 mm
Net weight	approx. 26 kg
Gross weight carton	approx. 33 kg

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