

Water and Oil Baths, Memmert

Water bath models WNB

Standard scope of delivery

Control systems:

- Micro-processor PID-temperature control with integrated self-diagnostics system to find errors quickly
- non-contacting switching element
- one Pt100 DIN-class A in 4-conductors measurement
- integrated digital clock from 1 min. to 99.59 hrs. for: ON permanent operation WAIT (delays on for duration and limited-time operation) HOLD
- digital display (LED) of target and actual temperature (resolution 0.1°C), as well as (remaining) programme run time
- Status-LEDs to monitor programme run

Overheat protection (double):

- in case of error-caused excess temperature, the heating is turned off at ca. 10°C above target temperature
- mechanic temperature limit TB protection class 1 to turn off heating at 30°C above max. bath temperature

Structure stainless-steel housing:

- Substance 1.4301 (ASTM 304), corrosion-resistant

Interior - heating concept:

- easy-to-handle, stainless steel workspace enforced by deep-drawing ribbing, substance no. 1.4301 (ASTM 304), laser-welded
- corrosion-protected, large-sized heating placed on 3 sides

Temperature range:

- from + 10°C (but at least 5°C above room temperature) to + 95°C with additional boiling level (100°C)

Power / Power input:

- 230 V (+/- 10%), 50/60 Hz



Type	Vol. approx. l	Useful dimensions LxWxH mm	Outer dimensions LxWxH with flat (sloping) lid mm	P rating approx. W	Order No.
① WNB 7	7	240x210x140	468x356x238 (337)	1200	44 26 30007
WNB 10	10	350x210x140	578x356x238 (337)	1200	44 26 30010
WNB 14	14	350x290x140	578x436x238 (347)	1800	44 26 30014
② WNB 22	22	350x290x220	578x436x296 (405)	2000	44 26 30022
WNB 29	29	590x350x140	818x516x238 (343)	2400	44 26 30029
WNB 45	45	590x350x220	818x516x296 (401)	2800	44 26 30045



Water bath models WNE

Standard scope of delivery

Control systems:

- PID-micro processor control with fuzzy support and self-diagnostics system to find errors quickly
- non-contacting switching element
- 2 Pt100-sensors DIN-class A in 4-conductor measurement with changing monitoring and function adaption at exactly the same temperature
- digital countdown clock from 1 min. to 999 hrs. for: ON (permanent operation) WAIT (delays on) HOLD or HOLD dependent on target temperature with „Holding time guarantee“
- digital display of all default values: temperature and alarm values (resolution 0.1°C), as well as time values
- calibration possibilities at the control
- acoustic and optical display in case of alarm, programme end and to confirm receipt as well as at low filling level; heating is turned off automatically

Overheating protection (3-fold):

- in case of erroneous excess temperature, the heating is turned off at 10°C above target temperature
- separate electronic temperature selection guard TWW protection class 2, can be adjusted by customer in set-up
- Display resolution/setting accuracy 0.1°C to 99.9°C; 1°C from 100°C
- mechanic temperature limit TB protection class 1 to turn off heating at ca. 30°C above max. bath temperature

Structure stainless-steel housing:

- Substance 1.4301 (ASTM 304), corrosion-resistant

Interior - heating concept:

- easy-to-handle stainless-steel workspace enforced by deep-drawing ribbing, substance no. 1.4301, laser-welded
- corrosion-protected, large-sized heating placed on 3 sides

Temperature range:

- from + 10°C (but at least 5°C above room temperature) to + 95°C with additional boiling level (100°C)

Power / Power input :

- 230 V (+/- 10%), 50/60 Hz



Type	Vol. approx. l	Useful L x W x H mm	Outer L x W x H with flat (sloping) lid mm	P rating approx. W	Order No.
WNE 7	7	240x210x140	468x356x238 (337)	1200	10 26 03007
③ WNE 10	10	350x210x140	578x358x238 (337)	1200	10 26 03010
④ WNE 14	14	350x290x140	578x436x238 (347)	1800	10 26 03014
WNE 22	22	350x290x220	578x436x296 (405)	2000	10 26 03022
WNE 29	29	590x350x140	818x516x238 (343)	2400	10 26 03029
WNE 45	45	590x350x220	818x516x296 (401)	2800	10 26 03046



Water bath with circulating pump model WPE 45

Standard scope of delivery

Control systems:

- PID-micro-processor control with fuzzy support and self-diagnostics system to find errors quickly
- non-contacting switching element
- 2 Pt100-sensors DIN-class A in 4-conductor measurement with changing monitoring and function adaption at exactly the same temperature
- digital countdown clock from 1 min. to 999 hrs for: ON (permanent operation) WAIT (delays on) HOLD or HOLD dependent on target temperature with „Holding time guarantee“
- Pump can be turned on or off
- Pump is turned off when programme is over
- digital display of all default values: temperature and alarm values (resolution 0.1°C), as well as time values
- Calibration possibility at the control
- Acoustic and optical display in case of alarm, programme end at to confirm receipt as well as low filling level; heating is turned off automatically

Overheating protection (3-fold):

- in case of erroneous excess temperature, the heating is turned off at ca. 10°C above target value
- separate electronic temperature selection guard TWW, protection class 3.1 or temperature limit TWB protection class 2 can be adjusted by customer in set-up
- display resolution/setting accuracy 0.1°C to 99.9°C; 1°C from 100°C
- mechanical temperature limit TB protection class 1 to turn off heating at ca. 30°C above max. bath temperature

Structure stainless-steel housing:

- Substance 1.4301, corrosion-resistant

Interior - heating concept:

- easy-to-handle stainless-steel workspace enforced by deep-drawing ribbing, substance no. 1.4301, laser-welded
- corrosion-protected, large-sized heating placed on 3 sides

Temperature range:

- from + 10°C (but at least 15°C above room temperature) to + 95°C

Power / Power input:

- 230 V (+/- 10%), 50 Hz

Type	Vol. approx. l	Useful LxWxH mm	Outer L x W x H with flat (sloping) lid mm	P rating approx. W	Order No.
⑥ WPE 45	45	590x350x220	818x516x296 (401)	2800	44 26 30145

Oil baths without cover, with adjustable temperature limiter

Type	Vol. approx. l	Useful LxWxH mm	Outer L x W x H with flat (sloping) lid mm	P rating approx. W	Order No.
ONE 7	7	240x210x140	468x356x238 (337)	1200	44 26 31007
ONE 10	10	350x210x140	578x356x238 (337)	1200	44 26 31010
ONE 14	14	350x290x140	578x436x238 (347)	1800	44 26 31014
ONE 22	22	350x290x220	578x436x296 (405)	2000	44 26 31022
⑦ ONE 29	29	590x350x140	818x516x238 (343)	2400	44 26 31029
ONE 45	45	590x350x220	818x516x296 (401)	2800	44 26 31045

Essential accessories for water and oil baths

Stainless steel flat covers with ring sets

Article	Order No.
for WNB/WNE/ONE 7	44 26 31107
for WB 10/OB 10	44 26 31110
for WNB/WNE/ONE 14	44 26 31114
for WNB/WNE/ONE 22	44 26 31122
for WNB/WNE/ONE 29	44 26 31129
for WNB/WNE/ONE/WPE 45	44 26 31145

Stainless steel gabled covers for bacteriological purposes

Article	Order No.
for WNB/WNE/ONE 7	44 26 31207
for WNB/WNE/ONE 10	44 26 31210
for WNB/WNE/ONE 14	44 26 31214
for WNB/WNE/ONE 22	44 26 31222
for WNB/WNE/ONE 29	44 26 31229
for WNB/WNE/ONE/WPE 45	44 26 31245



Stainless steel gabled lids for shaking water baths

Article	Order No.
Gabled cover for WNB/WBE 14	44 26 31314
Gabled cover for WNB/WNE 22	44 26 31322
Gabled cover for WNB/WNE 29	10 26 01329
Gabled cover for WNB/WNE 45	10 26 01345

Works calibration certificate

Article	Order No.
Works calibration certificate for water baths (at 37°C)	10 26 01304
Works calibration certificate for oil baths (at 160°C)	10 26 01305

For WNB, WNE and WPE only

Article	Order No.
Water level stabilizer	44 26 31350

For the following features, please quote the order numbers in addition:

Cooling system for faster cooling of the charge by means of water from the tap (not available for WNB/WNE 7).

Article	Order No.
Cooling device for WNB/WNE 10 to 22	44 26 31405
Cooling device for WNB/WNE 29 + WNB/WNE/WPE 45	44 26 31407

Shaking device

Incl. support frame (for test-tube racks or perforated shelves with support basket) for fitting into water baths WNB/E 14 and WNB/E 22 with electronic speed control (speed min. from 10 to 150 strokes per minute); stroke 15 mm (horizontal back/forth movements).

Article	Order No.
⑤ Shaking device for WNB/WNE 14 and 22	44 26 31500
Shaking device for WNB/WNE 29 and 45	10 26 01501

Perforated mounting shelf

With support basket (stainless steel) with grid perforations to take clips for conical flasks for models WNB/E 14 and WNB/E 22

Article	Order No.
Perforated mounting shelf WNB/WNE 14/22	44 26 31510
Perforated mounting shelf WNB/WNE 29/45	10 26 01511

Clips and racks

Article	Order No.
Clip for 100 ml flasks, max. quantity 12 flasks	44 26 31611
Clip for 200 ml flasks, max. quantity 6 flasks	44 26 31612
Clip for 300 ml flasks, max. quantity 6 flasks	44 26 31613
Clip for 500 ml flasks, max. quantity 5 flasks	44 26 31614
Rack for 110 test tubes, 14,5 mm Ø	44 26 31721
Rack for 90 test tubes, 18 mm Ø	44 26 31722
Rack for 25 test tubes, 32 mm Ø	44 26 31723

⑧ Test tube racks made of stainless steel for type WNB/WNE 7

Qty wells	Ø mm	Width mm	Order No.
56	18	200	44 26 40707
24	18	78	44 26 40708

⑨ Test tube racks made of stainless steel for types WNB/WNE/ONE 10 - 45

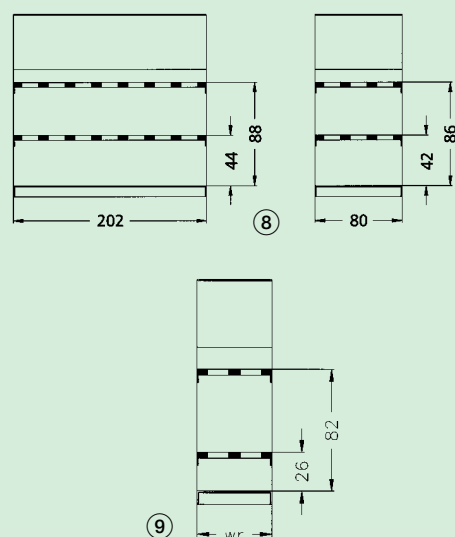
Racks with two rows

Qty wells	Ø mm	Width mm	Order No.
40	10	40	44 26 40201
40	12	40	44 26 40211
24	14.5	43	44 26 40221
24	18	50	44 26 40231
20	21	55	44 26 40241
12	32	80	44 26 40251

3-row racks

Qty wells	Ø mm	Width mm	Order No.
60	10	50	44 26 40301
60	12	55	44 26 40311
36	14.5	60	44 26 40321
36	18	70	44 26 40331
30	21	80	44 26 40341

Ausführungen (Maße in mm)



4-row racks

Qty wells	Ø mm	Width mm	Order No.
80	10	64	44 26 40401
80	12	75	44 26 40411
48	14.5	85	44 26 40421
48	18	95	44 26 40431
40	21	110	44 26 40441

Portable stainless steel racks

For 10 baby bottles, max. capacity for water baths WNB/WNE 10 (= 1 unit), WNB/WNE 14 (= 2 units), WNB/WNE 29 (= 4 units).

Article	Order No.
Stainless steel rack	44 26 50500

We reserve the right to make changes in technical specifications. Dimensions subject to confirmation.

Some of the illustrations in this publication include special accessories (at extra cost).

