

JULABO Water Baths are clearly superior to other water baths. They provide numerous features and significant benefits for YOU and YOUR work. The sloped tank rim keeps the water in the stainless steel bath tank where it belongs. No dripping, no condensation – even when the lid is opened.

Features of TW2

- Space-saving design, suitable for samples and up to 24 test tubes
- For dental applications

TW8, TW12, TW20 provide

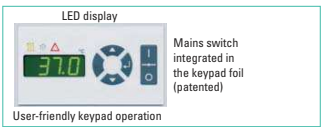
- Drain screw
- Handles for easy relocation

Benefits:

- Overall splash-water protection
- Keypad with water-protected mains switch
- User-friendly operation, best reproducibility of the set values
- Bright temperature indication (LED) for actual and setpoint values
- Display resolution: 0.1 °C
- Dry-running protection
- Audible warning signal with optical indication for the cut-off function
- Removable bottom plate

Applications

- Routine laboratory applications
- Cell cultivation
- Temperature testing of food and luxury articles
- Temperature control of samples
- Incubations
- Material testing
- Corrosion tests



Lift-up covers are optionally available for all models.
Details see page 59.



TW2, TW12 and TW20 models are illustrated with Makrolon® cover.

JULABO Order No.	JULABO Model	Working temp. range °C ¹⁾	Temperature stability °C	Heat. cap. kW ²⁾	Bath opening/ bath depth W x L / D cm	Insert capacity test tube racks 13 mm dia.	Filling volume 17 mm dia., liters	Dimensions W x L x H cm w/o / with cover	Weight kg
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Water Baths

Technical features
(see fold-out page)



9 550 102	TW2	20 ... 99.9	±0.2	1 / 1	15 x 13 / 11	--	24	1.2	17 x 16 x 26/37	3.5
9 550 108	TW8	20 ... 99.9	±0.2	2 / 1	23 x 27 / 14	180	120	3.8	29 x 32 x 28/44	8.1
9 550 112	TW12	20 ... 99.9	±0.2	2 / 1	35 x 27 / 14	270	180	5.12	40 x 32 x 28/44	9.8
9 550 120	TW20	20 ... 99.9	±0.2	2 / 1	50 x 30 / 18	360	240	8.22	56 x 35 x 32/49	14.2

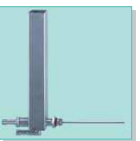
¹⁾ For applications at or near ambient temperature: Counter-cooling with tap water and liquid level/cooling set (accessory)
²⁾ At voltage 230V/50-60Hz / 115V/50-60Hz

Lift-up covers

The lift-up Makrolon® or stainless steel covers are recommended for use at working temperatures above +60 °C, particularly to protect samples from contamination.

Liquid level/cooling set

- for continuous water supply
- to maintain a constant liquid level at high temperatures
- for counter-cooling of applications at or near ambient temperature



Liquid level/cooling set

JULABO Order No.	Description	for model	Remarks
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Lift-up Makrolon® covers (to +80 °C)

Dimensions			
8 970 289	17 x 16 x 16 cm	TW2	Prevents liquid losses due to evaporation, protects samples from contamination
8 970 286	29 x 32 x 16 cm	TW8	
8 970 287	40 x 32 x 16 cm	TW12	
8 970 288	56 x 35 x 17 cm	TW20	

Lift-up stainless steel covers (to +100 °C)

8 970 259	Lift-up stainless steel cover	TW2	Prevents liquid losses due to evaporation, protects samples from contamination
8 970 266	Lift-up stainless steel cover	TW8	
8 970 267	Lift-up stainless steel cover	TW12	
8 970 268	Lift-up stainless steel cover	TW20	

Flat stainless steel bath covers with sets of rings

8 970 270	with 1 opening	190 mm dia.	TW8	Beakers or Erlenmeyer flasks can be placed directly onto the perforated stainless steel bottom plate.
8 970 271	with 4 openings	92 mm dia.	TW8	
8 970 278	with 6 openings	92 mm dia.	TW12	
8 970 272	with 2 openings	190 mm dia.	TW20	
8 970 273	with 6 openings	115 mm dia.	TW20	

Cooling installation/continuous water supply

8 970 415	Liquid level/cooling set (see illustration above)	TW8, TW12, TW20	To maintain a constant liquid level, for counter-cooling
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Test tube racks to +80 °C, Polypropylene®

8 970 380	for 60 test tubes	16/17 mm dia.	Insert capacity test tube racks			
8 970 381	for 90 test tubes	12/13 mm dia.		TW8	TW12	TW20
8 970 382	for 90 microliter tubes	11/12 mm dia.				
8 970 383	for 21 test tubes	30 mm dia.		2	3	4

Test tube racks to +100 °C, stainless steel

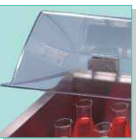
8 970 330	for 24 test tubes	16/17 mm dia.	TW2	Insert capacity test tube racks				
8 970 344	for 50 test tubes	16/17 mm dia.	TW8, TW12, TW20					
8 970 345	for 90 test tubes	12/13 mm dia.						
8 970 346	for 90 microliter tubes	11/12 mm dia.						
8 970 347	for 21 test tubes	30 mm dia.			1	2	3	4

Additional accessories

8 970 331	Stents lifter	TW2, TW8, TW12, TW20
8 970 339	Hygiene insert, stainless steel	
8 970 453	Drain tap with tube 8 mm dia.	
8 970 010	Hollow balls, Polypropylene®, 20 mm dia. (pack of 1000)	

Water bath protective media 'Aqua-Stabil'

8 940 006	6 bottles, 100 ml each	To prevent contamination and formation of algae
8 940 012	12 bottles, 100 ml each	



Makrolon® cover



Flat bath covers



Polypropylene® test tube racks



Stainless steel test tube racks

JULABO Shaking Water Baths provide features that you will always find useful. The sloped tank rim keeps the water in the

stainless steel bath tank where it belongs. No dripping, no condensation - even when the lid is opened.

Benefits:

- Overall splash-water protection
- Keypad for adjustment of setpoint temperature, shaking frequency and early warning functions
- User-friendly operation, best reproducibility

- SW22:** for routine applications
SW23: for demanding applications requiring best temperature stability and uniformity achieved by constant bath circulation

Applications

- Biochemical research
- Material testing
- Enzyme and tissue studies
- Homogenization
- Temperature testing of food and luxury articles
- Routine laboratory applications
- Corrosion tests
- Fermentation
- Incubations
- Thawing of blood plasma



- MULTI-DISPLAY (LED) for actual value, setpoint, high/low temperature early warning functions and shaking frequency
- Display resolution: 0.1 °C or 1 rpm
- Dry-running protection
- Audible signal for warning and cut-off functions
- Electronic timer (0... 10 operating hours)



- Shaking carriage is removable: No direct contact with the bath fluid, carrier trays can be assembled outside the bath.

All units have a handle for easy relocation. Upon removing the drain screw, a cooling coil can be fitted to provide counter-cooling with tap water.

For details on accessories, please refer to page 61.



SW22 with optional lift-up Makrolon® cover and carrier tray (accessories)

JULABO Order No.	JULABO Model	Working temp. range °C ¹⁾	Temperature stability °C	Heat. cap. kW ²⁾	Bath opening/ bath depth W x L / D cm	Filling volume liters	Shaking frequency rpm	Shaking stroke mm	Dimensions W x L x H cm w/o / with cover	Weight kg
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Shaking Water Baths

Technical features (see fold-out page)

9 550 322	SW22	20 ... 99.9	±0.2	2 / 1	50 x 30 / 18	8 ... 20	20 ... 200	15	70 x 35 x 26 / 43	19.4
9 550 323	SW23	20 ... 99.9	±0.02	2 / 1	50 x 30 / 18	8 ... 20	20 ... 200	15	70 x 35 x 26 / 43	21.4

¹⁾ For applications at or near ambient temperature: Counter-cooling with tap water and liquid level/cooling set (accessory)
²⁾ At voltage 230V/50-60Hz / 115V/60Hz

- The lift-up Makrolon® cover is recommended for use at working temperatures above +60 °C for both models.
- Large selection of carrier trays for Erlenmeyer flasks and test tubes is available.
- For counter-cooling at or near ambient temperature, use the cooling coil (order no. 8 970 416).
- To maintain a constant liquid level: use the liquid level/cooling set (order no. 8 970 415)

JULABO Order No.	Description	JULABO Order No.	Description
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Bath covers / Hollow balls

8 970 288	Lift-up Makrolon® cover (to +80 °C)
8 970 268	Lift-up stainless steel cover (to +100 °C)
8 970 010	Hollow balls, Polypropylene®, 20 mm dia. (pack of 1000)

Cooling installation/continuous water supply

8 970 415	Liquid level/cooling set (ill. page 59)	8 970 416	Cooling coil (fig. 1)
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All-purpose spring tray (fig. 2)

8 970 630	All-purpose spring tray pre-assembled for 11 Erlenmeyer flasks 250 ml incl. set of springs for Erlenmeyer flasks 25...1000 ml
8 970 631	Set of springs consisting of 12 springs 135 mm and 5 springs 190 mm (for tray 8 970 630)

Standard carrier trays (fig. 3)

8 970 360	for 45 flasks	25 ml
8 970 361	for 32 flasks	50 ml
8 970 362	for 18 flasks	100 ml
8 970 363	for 15 flasks	200 ml
8 970 364	for 11 flasks	250-300 ml
8 970 365	for 8 flasks	500 ml
8 970 366	for 5 flasks	1000 ml

Carrier tray and spring clamps (fig. 4)

8 970 620	Basic tray for assembling spring clamps on a mix and match basis
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Spring clamps

8 970 601	for 10 ml flasks
8 970 602	for 25 ml flasks
8 970 603	for 50 ml flasks
8 970 604	for 100 ml flasks
8 970 606	for 200-250 ml flasks
8 970 607	for 300 ml flasks
8 970 608	for 500 ml flasks
8 970 609	for 1000 ml flasks

Fig. 4 shows the basic tray assembled with different spring clamps.

Carrier tray with test tube racks (fig. 5)

8 970 369	Basic tray for assembling a maximum of 4 test tube racks
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Test tube racks
 made of Polypropylene® (to +80 °C)

8 970 380	for 60 test tubes, 16/17 mm dia.
8 970 381	for 90 test tubes, 12/13 mm dia.
8 970 382	for 90 microtiter tubes, 11/12 mm dia.
8 970 383	for 21 test tubes, 30 mm dia.

Test tube racks
 made of stainless steel (to +100 °C)

8 970 344	for 50 test tubes, 16/17 mm dia.
8 970 345	for 90 test tubes, 12/13 mm dia.
8 970 346	for 90 microtiter tubes, 11/12 mm dia.
8 970 347	for 21 test tubes, 30 mm dia.

Fig. 5 shows the basic tray assembled with different test tube racks.

Carrier trays with test tube racks (complete)

(to +80 °C)

8 960 440	for 240 test tubes, 16/17 mm dia.
8 960 441	for 360 test tubes, 12/13 mm dia.
8 960 442	for 360 microtiter tubes, 30 x 11/12 mm dia.
8 960 443	for 84 test tubes, 30 mm dia.

Lab automation

8 901 102	'EasyTemp' control software (free download www.julabo.de)
8 980 075	RS232 interface cable, 3 m for direct PC connection
8 900 110	USB Interface adapter cable

Option

8 810 050	Shaking tray positioner
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The shaking water bath must be factory-prefitted with the shaking tray positioner. Please specify when placing an order. It cannot be retrofitted.



Cooling coil



All-purpose spring tray



Standard carrier tray



Basic tray with spring clamps



Carrier tray with test tube racks