

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 <sup>1)</sup>	Temperature stability °C	Heat. cap. kW <sup>2)</sup>	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

<sup>1)</sup> For applications at or near ambient temperature: Counter-cooling with tap water and liquid level/cooling set (accessory)

<sup>2)</sup> 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
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**Bath cover**

8 970 288 Lift-up Makrolon® cover

JULABO Order No.	Description
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**Cooling installation/continuous water supply**

8 970 415 Liquid level/cooling set (ill. page 59)

8 970 416 Cooling coil (fig. 1)

**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

**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

**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

**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 360 microliter 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 microliter 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 microliter 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

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