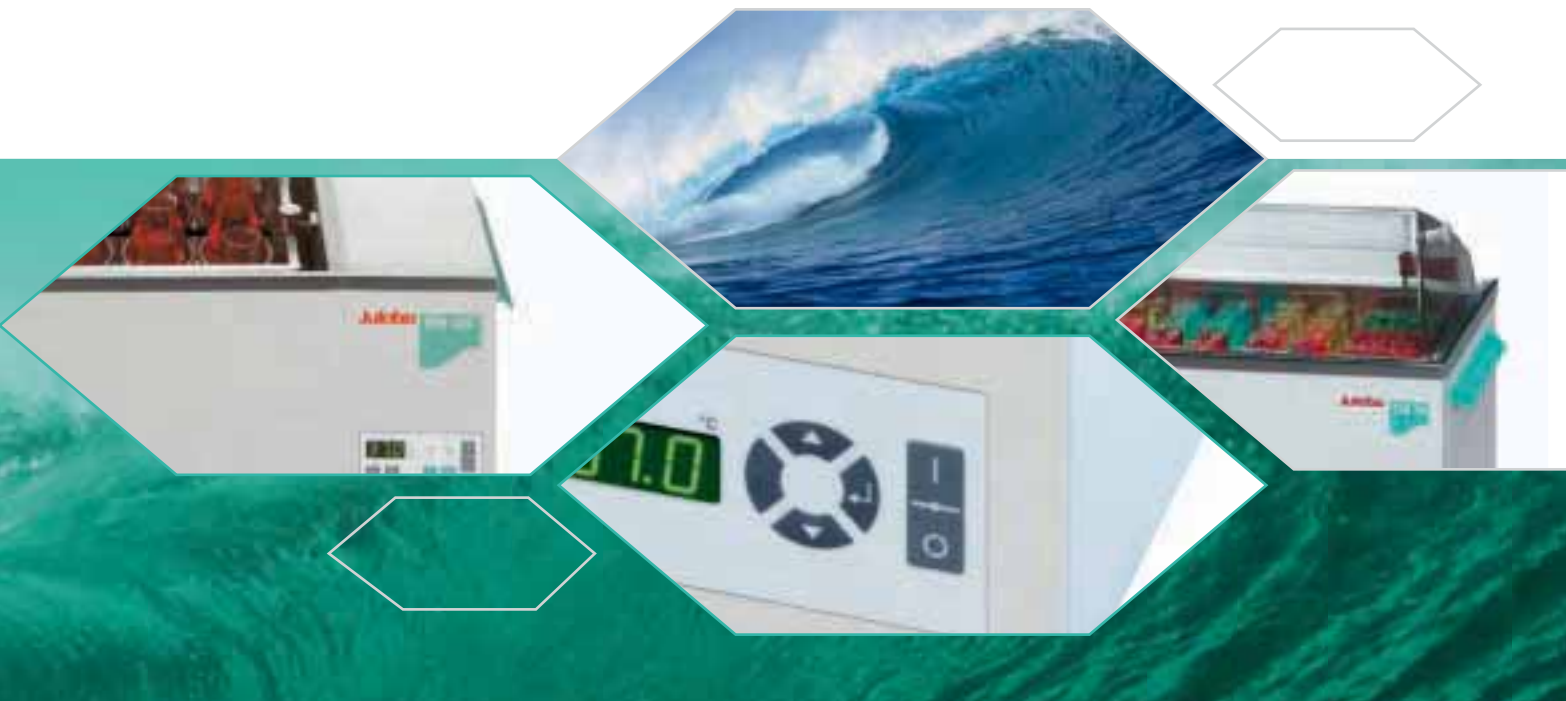


Quality Technology for Routine Applications





Water Baths and Shaking Water Baths

The TW and SW Water Bath Series are microprocessor-controlled, durable, and long-lasting high quality products that accommodate any common temperature application from +20 °C to +99.9 °C. Examples include temperature control of samples, incubations, material testing, corrosion tests, and cell cultivation.

- User-friendly operation via keypad
- Bright LED-Display
- Bath volumes from 2 to 26 liters
- Lift-up bath cover (optional)
- Splash-proof design
- Power switch integrated in keypad (patented)
- High temperature stability of ± 0.2 °C or ± 0.02 °C
- Dry-running protection with audible and optical alarm
- Warning and cut-off protection for high/low temperature
- Adjustable shaking frequencies from 20 to 200 RPM's in SW models
- Convenient bath drains
- Removable bottom plate and shaking insert
- Wide selection of accessories for temperature control of samples
- All wetted parts are made of stainless steel or high grade plastics

Large selection of accessories for all routine laboratory applications: For example: the all-purpose tray accommodates Erlenmeyer flasks in all common sizes. Various racks for test tubes and microliter tubes are also available.



TW Series



Water Baths

+20 °C ... +99.9 °C

4 different models
from 2 to 26 liters



User-friendly operation via splash water protected keypad with integrated power switch and bright LED temperature display.

SW Series



Shaking Water Baths

+20 °C ... +99.9 °C

2 different models
with 20 liters filling volume



Keypad with Multi-Display (LED) for adjusting setpoint, high/low temperature early warning function, and shaking frequency.

Features & Benefits



Wide Selection of Test Tube Racks



Durable Handles



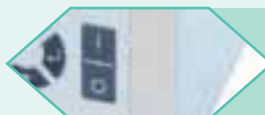
Integrated High Performance Heater

TW Models



Lift-up Bath Covers available in Makrolon® or Stainless Steel

User-Friendly Keypad with LED Display



Integrated Power Switch with Auto-Start Feature

Easy-Access Drain



High Quality Stainless Steel Bath Tank Design for Minimum Fluid Loss

Small Footprint – Large Bath Volume



SW Models

also offer:



Temperature Stability up to ± 0.02 °C



Adjustable Shaking Frequency (20 ... 200 rpm)

Removable Shaking Insert



Integrated Timer (0...10 Operating Hours)

RS232 Interface

RS232



Test tube racks and cover not included (optional).

Water Baths TW Series

for working temperatures from +20 °C to +99.9 °C

JULABO Water Baths provide many benefits for your common day-to-day laboratory tasks. Features like easy operation, splash water protection, and an optimized bath tank design maximize user-friendliness.

TW2

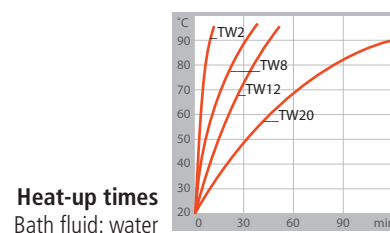
- Space-saving design, suitable for samples and for up to 24 test tubes

TW8, TW12, TW20

- Convenient bath drain
- Durable handles for easy transport
- Removable bottom plate for easy cleaning

Applications

- Routine laboratory applications
- Cell cultivation
- Food & cosmetics
- Temperature control of samples
- Incubations
- Material / corrosion tests



| JULABO Order No. | JULABO Model | Working temperature range °C | Temp. stability °C | Heating capacity kW | Bath opening / bath depth W x L / D cm | Insert capacity test tube racks | | Filling volume liters | Dimensions W x L x H cm w/o / with cover |
|------------------|--------------|------------------------------|--------------------|---------------------|--|---------------------------------|-----|-----------------------|--|
| 9 550 102 | TW2 | +20 ... +99.9 | ±0.2 | 1 | 15 x 13 / 11 | -- | 24 | 1 ... 2 | 17 x 16 x 26 / 37 |
| 9 550 108 | TW8 | +20 ... +99.9 | ±0.2 | 2 | 23 x 27 / 14 | 180 | 120 | 3 ... 8 | 29 x 32 x 28 / 44 |
| 9 550 112 | TW12 | +20 ... +99.9 | ±0.2 | 2 | 35 x 27 / 14 | 270 | 180 | 5 ... 14 | 40 x 32 x 28 / 44 |
| 9 550 120 | TW20 | +20 ... +99.9 | ±0.2 | 2 | 50 x 30 / 18 | 360 | 240 | 8 ... 26 | 56 x 35 x 32 / 49 |

Accessories

| JULABO Order No. | Description / Dimensions | Suitable for |
|--|--|----------------------|
| Lift-up Makrolon® covers (to +80 °C), transparent | | |
| 8 970 289 | Lift-up Makrolon® cover, 17 x 16 x 16 cm | TW2 |
| 8 970 286 | Lift-up Makrolon® cover, 29 x 32 x 16 cm | TW8 |
| 8 970 287 | Lift-up Makrolon® cover, 40 x 32 x 16 cm | TW12 |
| 8 970 288 | Lift-up Makrolon® cover, 56 x 35 x 17 cm | TW20 |
| Lift-up stainless steel bath covers (to +100 °C) | | |
| 8 970 259 | Lift-up stainless steel cover | TW2 |
| 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 |
| 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 | TW8, TW12, TW20 |
| Test tube racks to +80 °C, Polypropylene | | |
| 8 970 380 | for 60 test tubes 16/17 mm dia. | TW8, TW12, TW20 |
| 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. | TW8, TW12, TW20 |
| 8 970 383 | for 21 test tubes 30 mm dia. | TW8, TW12, TW20 |
| Test tube racks to +100 °C, stainless steel | | |
| 8 970 330 | for 24 test tubes 16/17 mm dia. | TW2 |
| 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. | TW8, TW12, TW20 |
| 8 970 346 | for 90 test tubes 11/12 mm dia. | TW8, TW12, TW20 |
| 8 970 347 | for 21 test tubes 30 mm dia. | TW8, TW12, TW20 |
| Additional accessories | | |
| 8 970 331 | Stents lifter | TW2 |
| 8 970 339 | Hygiene insert, stainless steel | TW2 |
| 8 970 453 | Drain tap with tube 8 mm inner dia. | TW8, TW12, TW20 |
| 8 970 010 | Hollow balls, Polypropylene, 20 mm dia. (1000 pcs.) | TW2, TW8, TW12, TW20 |
| Water bath protective media <i>Aqua Stabil</i> | | |
| 8 940 006 | 6 bottles, 100 ml each, to prevent formation of algae | |
| 8 940 012 | 12 bottles, 100 ml each, to prevent formation of algae | |

Lift-up Covers

Prevent liquid losses due to evaporation and protect samples from contamination. Made of either Makrolon® or stainless steel.



Flat Bath Covers

Beakers or Erlenmeyer flasks can be placed directly onto the perforated stainless steel bottom plate.



Liquid Level/Cooling Set

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



Insert Capacity

of test tube racks for water baths:

| | |
|------|---------|
| TW2 | 1 rack |
| TW8 | 2 racks |
| TW12 | 3 racks |
| TW20 | 4 racks |



JULABO Shaking Water Baths



Applications

- Biochemical research
- Material testing
- Enzyme and tissue studies
- Homogenization
- Corrosion tests
- Fermentation
- Incubations
- Blood plasma thawing
- Food & cosmetics

Test tube racks and cover not included (optional).

Shaking Water Baths SW Series

for working temperatures from +20 °C to +99.9 °C

JULABO Shaking Water Baths provide state-of-the-art features for your common day-to-day laboratory tasks. For example: sloped edges keep the water in the stainless steel bath tank - even when the lid is open.

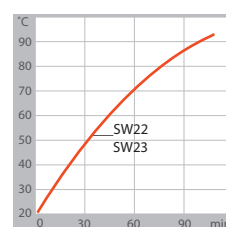
- Overall splash water protection
- Dry-running protection and audible warning / cut-off functions
- Integrated timer (0 ... 10 operating hours)
- Side drain
- User-friendly operation and consistent reproducibility
- 1-point calibration

Model SW22 is the basic model featuring a temperature stability of ± 0.2 °C.

Model SW23 is the advanced model featuring a temperature stability of ± 0.02 °C with integrated circulation pump.



The shaking insert is removable: No direct contact with the bath fluid, carrier trays can be assembled outside the bath.



Heat-up time
Bath fluid: water

| JULABO Order No. | JULABO Model | Working temperature range °C | Temp. stability °C | Heating capacity kW | 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 |
|------------------|--------------|------------------------------|--------------------|---------------------|--|-----------------------|-----------------------|-------------------|--|
| 9 550 322 | SW22 | +20 ... +99.9 | ± 0.2 | 2 | 50 x 30 / 18 | 8 ... 20 | 20 ... 200 | 15 | 70 x 35 x 26 / 43 |
| 9 550 323 | SW23 | +20 ... +99.9 | ± 0.02 | 2 | 50 x 30 / 18 | 8 ... 20 | 20 ... 200 | 15 | 70 x 35 x 26 / 43 |

Accessories

| JULABO Order No. | Description |
|------------------|-------------|
|------------------|-------------|

Lift-up bath covers / hollow balls

| | |
|-----------|--|
| 8 970 288 | Lift-up Makrolon® cover (to +80 °C), transparent |
| 8 970 268 | Lift-up stainless steel cover (to +100 °C) |

Cooling installation / continuous water supply

| | |
|-----------|---------------------------------|
| 8 970 415 | Liquid level/cooling set |
|-----------|---------------------------------|

All-purpose spring tray

| | |
|-----------|--|
| 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

| | | |
|-----------|---------------|--------|
| 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 |

Base tray and spring clamps

| | | |
|-----------|--|---------------------------------|
| 8 970 620 | Base tray for assembling spring clamps on a mix and match basis | |
| 8 970 601 | Spring clamp for 10 ml flasks | 8 970 606 for 200-250 ml flasks |
| 8 970 602 | Spring clamp for 25 ml flasks | 8 970 607 for 300 ml flasks |
| 8 970 603 | Spring clamp for 50 ml flasks | 8 970 608 for 500 ml flasks |
| 8 970 604 | Spring clamp for 100 ml flasks | 8 970 609 for 1000 ml flasks |

Carrier tray with test tube racks

| | | |
|--|--|--|
| 8 970 369 | Base 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. | 8 970 344 for 50 test tubes, 16/17 mm dia. |
| 8 970 381 | for 90 test tubes, 12/13 mm dia. | 8 970 345 for 90 test tubes, 12/13 mm dia. |
| 8 970 382 | for 90 Microliter tubes, 11/12 mm dia. | 8 970 346 for 90 Microliter tubes, 11/12 mm dia. |
| 8 970 383 | for 21 test tubes, 30 mm dia. | 8 970 347 for 21 test tubes, 30 mm dia. |

Complete carrier trays with test tube racks (to +80 °C)

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

Software

| | | | |
|-----------|--|-----------|---|
| 8 901 102 | <i>EasyTemp</i> software free of charge at www.julabo.de | 8 980 075 | RS232 interface cable, 3 m, for direct PC connection |
| 8 900 110 | USB Interface adapter cable | | |

Water bath protective media *Aqua Stabil*

| | |
|-----------|--|
| 8 940 006 | 6 bottles, 100 ml each, to prevent formation of algae |
| 8 940 012 | 12 bottles, 100 ml each, to prevent formation of algae |

| JULABO Order No. | Description |
|------------------|-------------|
|------------------|-------------|

| | |
|-----------|---|
| 8 970 010 | Hollow balls, Polypropylene 20 mm dia., (1000 pcs.) |
|-----------|---|

| | |
|-----------|--------------|
| 8 970 416 | Cooling coil |
|-----------|--------------|

| | |
|-----------|--|
| 8 970 631 | Set of springs consisting of 5 springs 190 mm and 12 springs 135 mm (for tray 8 970 630) |
|-----------|--|

| | | |
|-----------|---------------|------------|
| 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 |
|-----------|--------------|---------|

Lift-up Covers

prevent liquid losses due to evaporation and protect samples from contamination.



Makrolon® cover

For counter-cooling near ambient temperature use the cooling coil.



All-purpose spring tray



Standard carrier tray



Base tray with spring clamps



Carrier tray with test tube racks

