

Temperature control

# Help provide trusted performance with every degree

## TSB Series Bath Circulators and TSLC Series Laboratory Chillers

Built around the needs of today's laboratories, Thermo Scientific™ TSB Series Bath Circulators and Thermo Scientific™ TSLC Series Laboratory Chillers help deliver reliable temperature control, flexibility, and the ease of use required to keep your work moving forward. These bath circulators and lab chillers are designed to reach and maintain precise temperatures without unnecessary complexity. Intuitive controls, configurable options, and durable components combine to reliably support day-to-day operations in a variety of laboratory environments.



### Features of the TSB Series Refrigerated and Heating Bath Circulators:

#### Trusted performance

- Refrigerated bath circulators offer a cooling capacity of up to 1kW
- Refrigerated bath circulators have available temperature ranges from -45°C to 200°C
- Enables a ±0.06°C temperature stability across all models

#### Adaptable for a variety of applications

- Available bath volumes range from 8L to 48L
- Two immersion circulator options provide a choice between standard and extended temperature ranges
- All bath models feature 10 programs: 5 step and 5 ramp programs with 10 segments each

#### Reliable and efficient design

- All bath models come with a connection for an external PT100 remote probe
- Stainless-steel baths that reliably maintain temperature and offer durability with ease of maintenance
- Low-GWP refrigerants to help deliver over 99% lower environmental impact*

### Thermo Scientific TSB Series Immersion Circulator specifications

| Description | Standard controller, TSB-SC100 | Extended temperature controller, TSB-XC200 |
|---|---|---|
| Temperature range†† | Up to 100°C | Up to 200°C |
| Temperature stability | ±0.06°C | ±0.06°C |
| Heater capacity, 115V / 230V | 1.2 kW / 1.5 kW | 1.4 kW / 1.8 kW |
| Max flow rate | 15 l/min | 25 l/min |
| Max pressure, 115V / 230V, 60 Hz / 50 Hz | 300 mbar / 250 mbar | 800 mbar / 700 mbar |
| Pump speed steps | 1 | 3 preset, or from 30% to 100% |
| Electrical | A=115V/60Hz, D=208V/60Hz (extended only), V=230V/50Hz | |

†† In order to reach temperatures near or below ambient, a refrigerated bath or supplemental cooling is required.
**Note:** For detailed specifications, refer to the product manual.

## Thermo Scientific TSB Series Refrigerated Bath Circulators ordering information

| Volume | Workspace dimensions (w x l x d) | Temperature range S= standard, X= extended | Cooling capacity at 20°C | 60 Hz Cat. No. | 50 Hz Cat. No. |
|---|---|---|---|---|---|
| 8 L | 16 x 17 x 20 cm | S = -20°C – +100°C | 450W | TSB8-SR20-A | TSB8-SR20-V |
| | 16 x 12 x 20 cm | X = -20°C – +200°C | 450W | TSB8-XR20-A | TSB8-XR20-V |
| 12 L | 20 x 25 x 20 cm | S = -40°C – +100°C | 600W | TSB12-SR40-A | TSB12-SR40-V |
| | 20 x 20 x 20 cm | X = -40°C – +200°C | 900W | TSB12-XR40-D | TSB12-XR40-V |
| | 20 x 20 x 20 cm | X = -45°C – +200°C | 1000W | TSB12-XR45-D | TSB12-XR45-V |
| 24 L | 35 x 25 x 20 cm | S = -20°C – +100°C | 600W | TSB24-SR20-A | TSB24-SR20-V |
| | 35 x 20 x 20 cm | X = -20°C – +200°C | 600W | TSB24-XR20-A | TSB24-XR20-V |
| | 35 x 25 x 20 cm | S = -40°C – +100°C | 600W | TSB24-SR40-A | TSB24-SR40-V |
| | 35 x 20 x 20 cm | X = -40°C – +200°C | 1000W | TSB24-XR40-D | TSB24-XR40-V |

## Thermo Scientific TSB Series Heated Bath Circulators ordering information

| Volume | Workspace dimensions (w x l x d) | Temperature range S= standard, X= extended | 60 Hz Cat. No. | 50 Hz Cat. No. |
|---|---|---|---|---|
| 8 L | 16 x 11 x 20 cm | S = ambient +8°C – +100°C | TSB8-SH100-A | TSB8-SH100-V |
| | | X = ambient +10°C – +200°C | TSB8-XH200-A | TSB8-XH200-V |
| 12 L | 24 x 11 x 20 cm | S = ambient +8°C – +100°C | TSB12-SH100-A | TSB12-SH100-V |
| | | X = ambient +10°C – +200°C | TSB12-XH200-A | TSB12-XH200-V |
| 24 L | 30 x 29 x 20 cm | S = ambient +6°C – +100°C | TSB24-SH100-A | TSB24-SH100-V |
| | | X = ambient +8°C – +200°C | TSB24-XH200-A | TSB24-XH200-V |
| 36 L | 30 x 29 x 30 cm | S = ambient +5°C – +100°C | TSB36-SH100-A | TSB36-SH100-V |
| | | X = ambient +6°C – +200°C | TSB36-XH200-A | TSB36-XH200-V |
| 48 L | 36 x 41 x 25 cm | S = ambient +5°C – +100°C | TSB48-SH100-A | TSB48-SH100-V |
| | | X = ambient +6°C – +200°C | TSB48-XH200-A | TSB48-XH200-V |

## TSLC Series Laboratory Chillers

**An excellent solution for external circulation in the lab.**

- Small laboratory footprint: 9.96 in. W × 20.55 in. D × 20.67 in. H
- Magnetic pump helps deliver powerful performance
- Low-level and temperature alarms included
- Low-GWP refrigerants to help deliver over 99% lower environmental impact*



## Thermo Scientific TSLC Series Laboratory Chillers specifications

| Cooling capacity at 20°C | Temperature range | Temperature stability | Electrical | Max flow rate | Supplied pressure | Cat. No. |
|---|---|---|---|---|---|---|
| 450 W | -20°C to 60°C | ±0.1°C | 115V/60Hz | 18 l/min | 800 mbar | TSLC450-A |
| 450 W | -20°C to 60°C | ±0.1°C | 220-230V/50Hz | 18 l/min | 700 mbar | TSLC450-V |

**We confidently stand behind our products, which are backed by an 18-month parts and labor warranty****

* When compared to models using R134a refrigerants

** Restrictions and exclusions apply: Warranty is void if the unit is not maintained as set forth in the operation manual.

Learn more at **thermofisher.com/bathcirculators**

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