

Temperature Bath (Oil Filled) Delta200



High Performance Specification

The oil bath calibrator offers immersion depth of 180mm, which allows the requirements of "Supplementary Information to the ITS-90" to be met. This publication from BIPM recommends immersion depths of 15 to 20cm from -50°C to 50°C, and from 20 to 27cm at 200°C.

Many high temperature oil baths in this price range are simply not deep enough to meet this requirement. Rather than simply stirring a square tank of liquid, the Delta temperature bath uses parallel tube action for superior temperature uniformity.

Like other liquid baths, the calibration volume is cylindrical to suit thermometers, not a large square tank. The calibration bath is filled with Silicon Oil, reducing filling and ongoing cost of ownership as liquids are replenished.

The calibrator come with a cooling coil, which can be attached to an external source of either cold water or gas to further reduce cool-down times



- Large Liquid Crystal Display with backlight
- Stability: Better than $\pm 0.015^{\circ}\text{C}$ (Over the complete temperature range)
- Best Uniformity: $\pm 0.002^{\circ}\text{C}$
- Immersion Depth: 180mm

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Technical Specifications

| Function | Range / Values |
|-----------------------|--|
| Temp Range | 30 °C to 200 °C |
| Accuracy | ±0.25 °C |
| Resolution | 0.01 °C |
| Volume | 70 mm dia. x 180 mm deep |
| Stability | ±0.015 °C |
| Uniformity | ±0.002 °C |
| Heating Time | 25 °C to 200 °C < 35 minutes |
| Cooling time | 200 °C to 80 °C < 35 minutes |
| Communications | Includes Serial Interface, PC Cable and Software |
| Dimensions | W 405mm X D 610mm X H 950mm |
| Safety | Compliant to CE Regulations |
| Power | 110V 50/60Hz or 230V 50/60Hz |
| Interface | USB |
| Data Logging/Memory | Yes |
| Operating temperature | - 10 °C to 50 °C |
| Storage temperature | -20 °C to 60 °C |
| Humidity | 90% RH |
| Weight | 7 kg |

Ordering Information

| Code | Description |
|----------|---|
| Delta200 | Temperature Bath (Oil Filled) with Calibration certificate, User manual, Carrying Case |

Ordering Information - Optional Accessories

| Code | Description |
|---------------------|--|
| Tank Extender | 100mm (To extend the capacity of the Tank) |
| Silicone Oil 200.20 | Type: 200.20 (Range: ≤10 °C to ≥230 °C) Standard quantity: 1ltr |