

# CALIBRATION BATH

(+ 40 °C ...+ 250 °C)

OB-7/2

OB-22/2

OB-50/2

## High temperature calibration baths - metrology performance:

- Uniformity and stability in mK range
- Calibrate sensors of any dimension
- Fluid ensures perfect heat transfer
  - Up to 500 mm immersion depth
  - Unique vertical flow design
  - State of the art solution
  - Three bath sizes

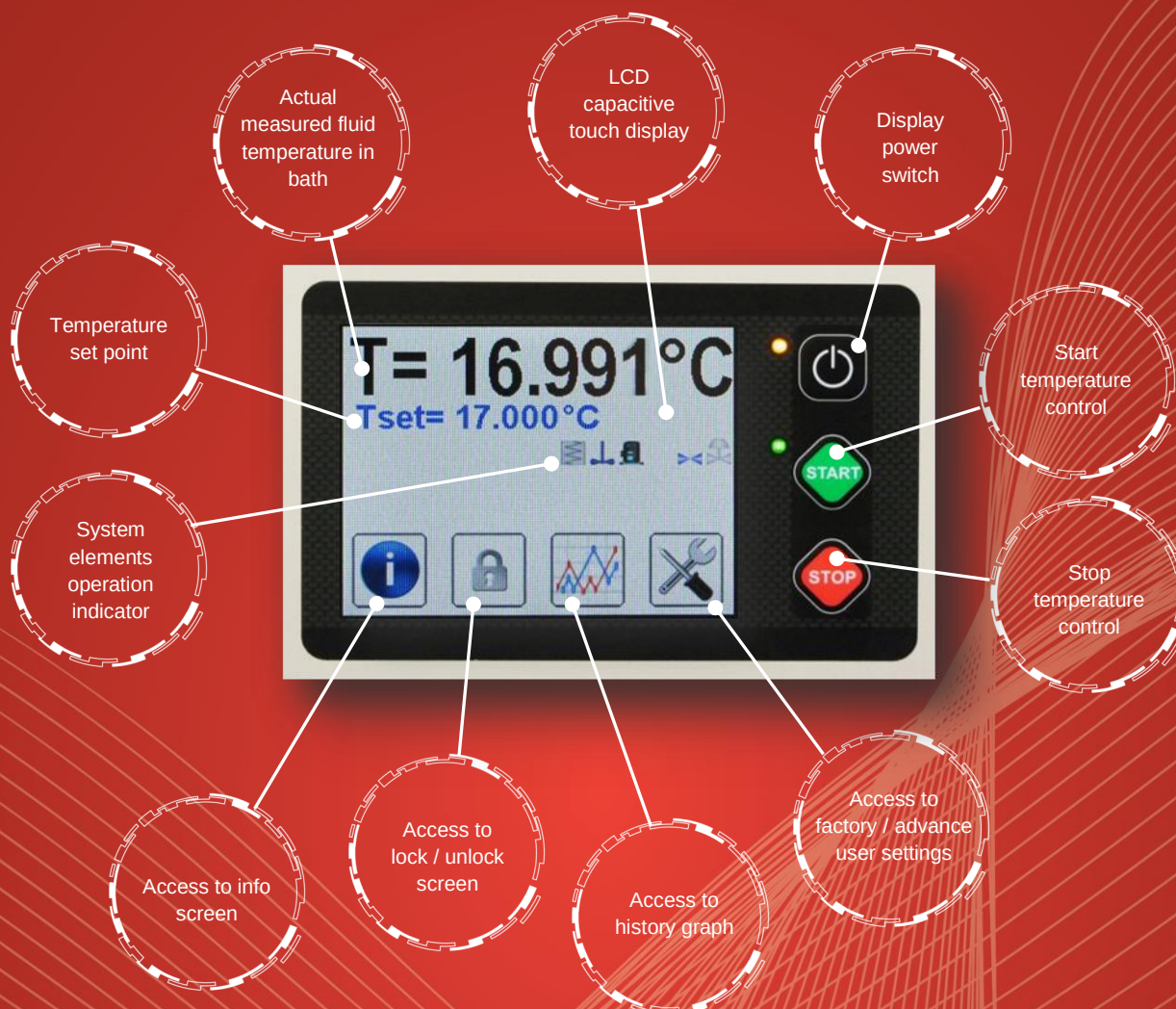




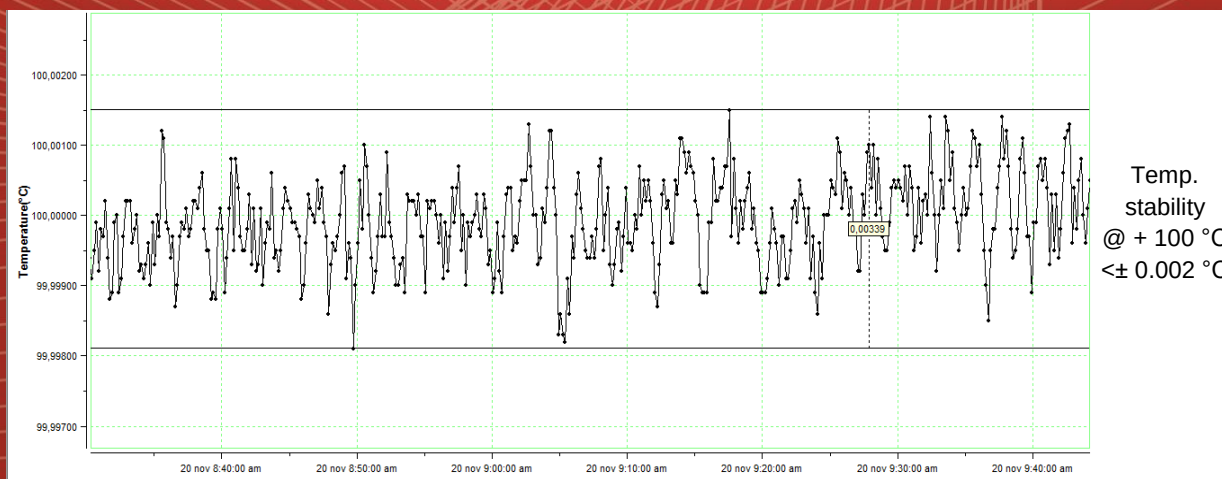




## Controller functions:



## Bath's temperature stability graph at + 100 °C:





## Technical data:

|                                                         | OB-7/2                                                                            | OB-22/2                                                                            | OB-50/2                                                                             |
|---------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                         |  |  |  |
| External dimensions (WxHxD) in mm                       | 480 x 1080 x 470                                                                  | 600 x 1240 x 550                                                                   | 745 x 1240 x 495                                                                    |
| Internal dimensions (diameter x immersion depth) in mm  | Ø 100 x 270                                                                       | Ø 147 x 500                                                                        | Ø 320 x 500                                                                         |
| Volume (L)                                              | ~ 7                                                                               | ~ 22                                                                               | ~ 50                                                                                |
| Temperature range (°C)                                  | + 40 ...+ 250                                                                     | + 40 ...+ 250                                                                      | + 40 ...+ 250                                                                       |
| Temperature display resolution (°C)                     | 0.001                                                                             | 0.001                                                                              | 0.001                                                                               |
| Temperature set resolution (°C)                         | 0.001                                                                             | 0.001                                                                              | 0.001                                                                               |
| Temperature stability (°C)                              | ± 0.001 @ 50 °C<br>± 0.002 @ 100 °C<br>± 0.006 @ 250 °C                           | ± 0.001 @ 50 °C<br>± 0.002 @ 100 °C<br>± 0.006 @ 250 °C                            | ± 0.001 @ 50 °C<br>± 0.002 @ 100 °C<br>± 0.006 @ 250 °C                             |
| Temperature uniformity (°C)                             | < ± 0.007 @ 100 °C                                                                | < ± 0.007 @ 100 °C                                                                 | < ± 0.007 @ 100 °C                                                                  |
| Heating rate                                            | ~ 50 min<br>(+ 100 °C ...+ 250 °C)                                                | ~ 60 min<br>(+ 100 °C ...+ 250 °C)                                                 | ~ 175 min<br>(+ 100 °C...+250 °C)                                                   |
| Cooling rate                                            | N/A                                                                               | N/A                                                                                | N/A                                                                                 |
| Temperature Control                                     | PID                                                                               | PID                                                                                | PID                                                                                 |
| Noise level (dBA)                                       | < 48dBA                                                                           | < 48dBA                                                                            | < 48dBA                                                                             |
| Cooling<br>(Built in cooling coil for external cooling) | N/A<br>Natural                                                                    | N/A<br>Natural                                                                     | N/A<br>Natural                                                                      |
| Power supply                                            | 230 V 50/60 HZ<br>(± 10 %)                                                        | 230 V 50/60 HZ<br>(± 10%)                                                          | 230 V 50/60 HZ<br>(± 10 %)                                                          |
| Wattage (W)                                             | 1100                                                                              | 2100                                                                               | 2100                                                                                |
| Interface                                               | RS 232<br>(USB or Ethernet as option)                                             | RS 232<br>(USB or Ethernet as option)                                              | RS 232<br>(USB or Ethernet as option)                                               |
| Weight (kg)                                             | ~ 54                                                                              | ~ 72                                                                               | ~ 85                                                                                |

\*All performance data with fluid KDC 200.50

\*All performance in controlled environment (Tambient = 22 °C ± 3 °C)!

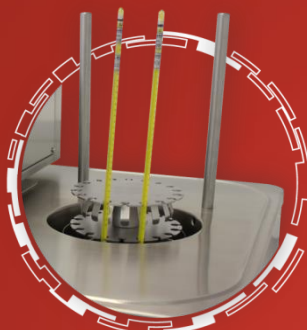
\*Accessories might affect performance!

\*Optional extended temperature range: + 40 °C ...+ 300 °C



## Accessories:

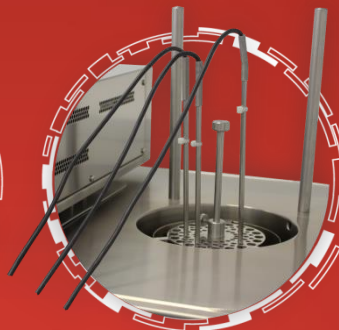
- LIG thermometer holder



- Vertical fixture



- Adjustable multiple probe fixture



- External fluid level for LIG



- Additional lid



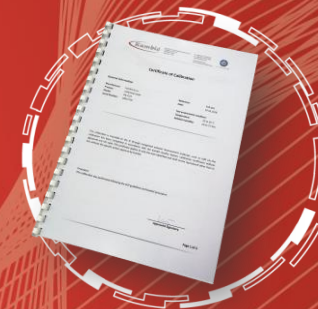
- Foldable shelf



- Fume hood



- Evaluation report



## Ordering information and accessories:

| Description                                         | Part no. |
|-----------------------------------------------------|----------|
| Calibration bath OB-7/2                             | 1603     |
| Calibration bath OB-22/2                            | 1607     |
| Calibration bath OB-50/2                            | 1608     |
| USB interface                                       | 1466     |
| Ethernet interface                                  | 1716     |
| Evaluation report – performed by Kambič             | 1719     |
| Evaluation report (accredited ISO/IEC 17025:2017)   | 1777     |
| OB-Tool (Monitoring and data collection software)   | 104      |
| External fluid level for LIG                        | 1655     |
| Vertical fixture                                    | 1657     |
| Adjustable multiple probe fixture                   | 1733     |
| LIG (liquid in glass thermometer) fixture           | 1735     |
| Local fume hood with fan                            | 1656     |
| Foldable shelf                                      | 1658     |
| Extra lid for OB-7/2                                | 1737     |
| Extra lid for OB-22/2                               | 1636     |
| Extra lid for OB-50/2                               | 2115     |
| Silicone oil fluid KDC 200.20 (+ 10 °C ...+ 230 °C) | 600      |
| Silicone oil fluid KDC 200.50 (+ 30 °C ...+ 278 °C) | 631      |
| Silicone oil fluid KDC 710 (+ 80 °C ...+ 300 °C)    | 2782     |



| SHIPPING |
|----------|
| W 660    |
| H 1330   |
| D 630    |

WEIGHT 75/110 kg \* we reserve the right to modifications

| DIMENSIONAL<br>DRAWING | PRODUCT          | MODEL               |
|------------------------|------------------|---------------------|
|                        | CALIBRATION BATH | OB-7/2<br>OB-7/2 LT |



| SHIPPING  |
|-----------|
| W 735 mm  |
| H 1460 mm |
| D 685 mm  |

WEIGHT 104/133kg \* we reserve the right to modifications

| DIMENSIONAL<br>DRAWING | PRODUCT          | MODEL                 |
|------------------------|------------------|-----------------------|
|                        | CALIBRATION BATH | OB-22/2<br>OB-22/2 LT |





| SHIPPING                                                  |         |
|-----------------------------------------------------------|---------|
| W                                                         | 810 mm  |
| H                                                         | 1460 mm |
| D                                                         | 630 mm  |
| WEIGHT: 112/161kg * we reserve the right to modifications |         |

| DIMENSIONAL<br>DRAWING | PRODUCT          | MODEL                      |
|------------------------|------------------|----------------------------|
|                        | CALIBRATION BATH | OB-50/2<br>OB-50/2 LT<br>/ |