# CALIBRATION BATHS

## (+ 40 °C ...+ 250 °C)

**Model:**

**OB-7/2**

**OB-22/2**

**OB-50/2**

**OB-200/2**

- High temperature range - metrology performance
- Uniformity and stability in mK range
- Calibrate sensors of any dimension
- Fluid ensures perfect heat transfer
- Up to 650 mm immersion depth
- Unique vertical flow design
- State of the art solution
- Four bath sizes


Temperature

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## Device description:


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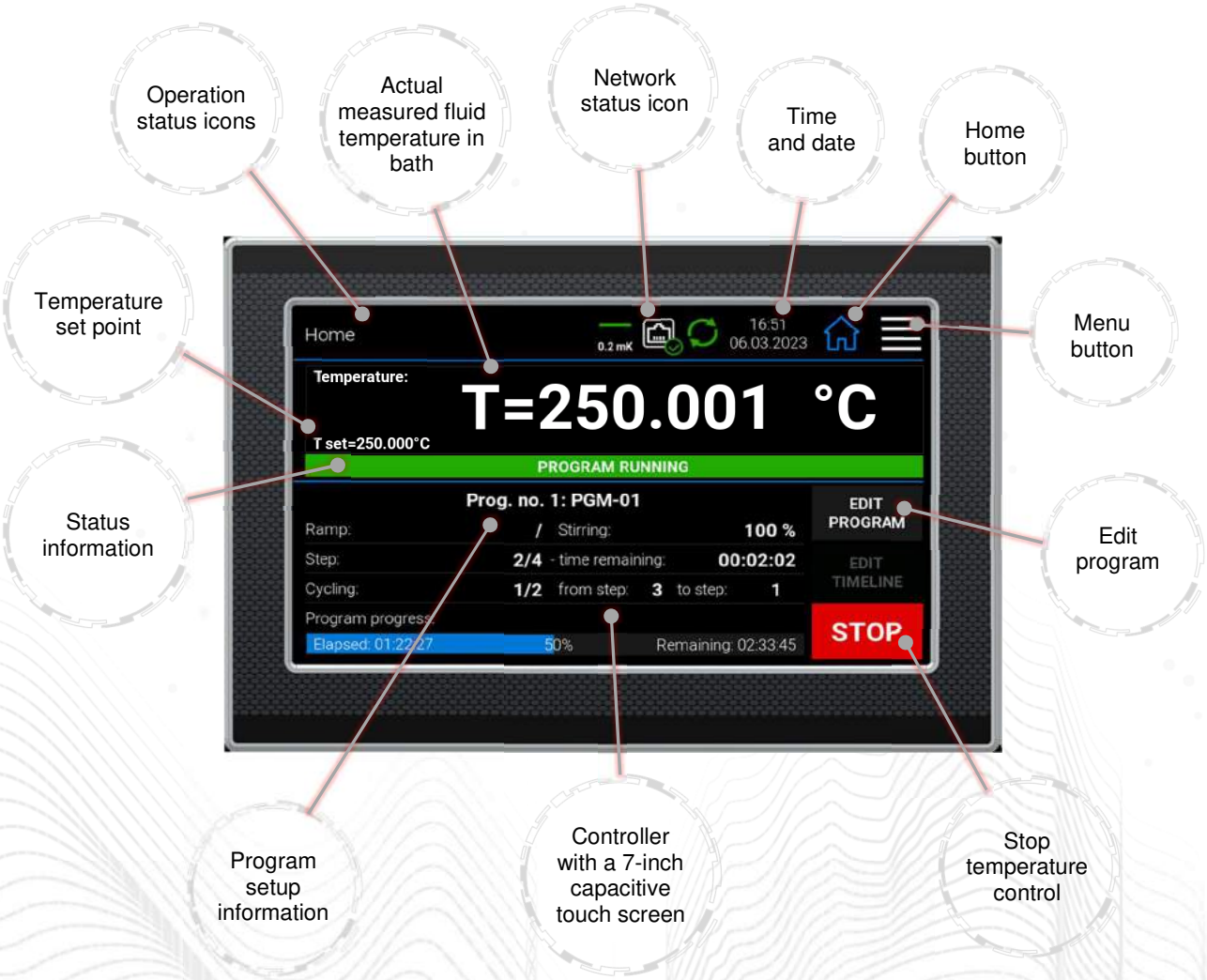
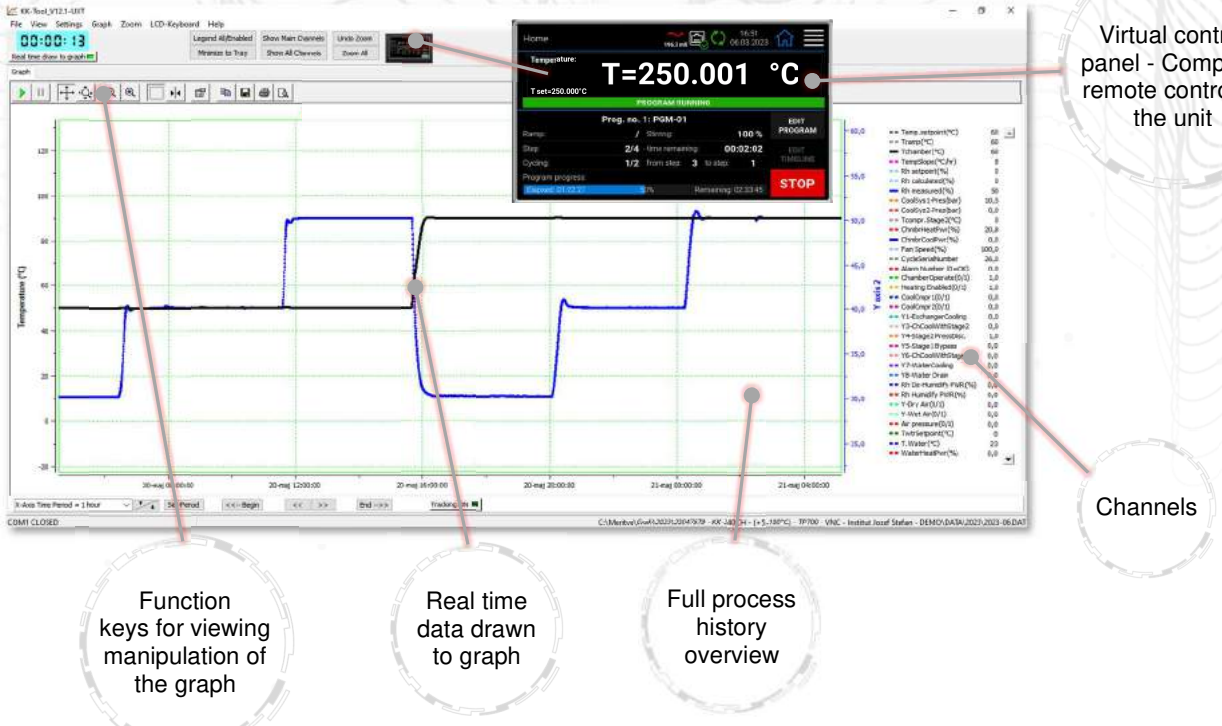
## Touch display with advanced controller functions:




## OB-Tool software for PC (free – included with every unit):

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## Technical data:

| | OB-7/2 | OB-22/2 |
|---|---|---|
| |  |  |
| External dimensions (WxHxD) [mm] | 484 x 1134 x 474 | 604 x 1231 x 554 |
| Internal dimensions (diameter x immersion depth) [mm] | Ø 100 x 270 | Ø 147 x 500 |
| Volume [L] | ~ 7 | ~ 22 |
| Fluid quantity for operation [L] | 10 | 25 |
| Temperature range [°C] | + 40 …+ 250 | + 40 …+ 250 |
| Temperature display resolution [°C] | 0.001 | 0.001 |
| Temperature set resolution [°C] | 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 |
| Temperature uniformity [°C] | < ± 0.007 @ 100 °C | < ± 0.007 @ 100 °C |
| Heating rate | ~ 1 hour<br>(+ 20 °C …+ 100 °C) | ~ 1 hour<br>(+ 20 °C …+ 100 °C) |
| Cooling rate | N/A | N/A |
| Temperature Control | PID | PID |
| Noise level [dBA] | < 58 | < 58 |
| Cooling<br>(Built in cooling coil for external cooling) | N/A<br>Natural | N/A<br>Natural |
| Power supply | 230 V 50/60 HZ<br>(± 10 %) | 230 V 50/60 HZ<br>(± 10 %) |
| Wattage [W] | 1200 | 2100 |
| Interface | Ethernet, USB | Ethernet, USB |
| Weight [kg] | ~ 54 | ~ 75 |

**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*

| | OB-50/2 | OB-200/2 |
|---|---|---|
| |  |  |
| External dimensions (WxHxD) [mm] | 749 x 1255 x 499 | 1264 x 1476 x 994 |
| Internal dimensions (diameter x immersion depth) [mm] | Ø 320 x 500 | Ø 600 x 650 |
| Volume [L] | ~ 50 | ~ 200 |
| Fluid quantity for operation [L] | 65 | 260 |
| Temperature range [°C] | + 40 …+ 250 | + 40 …+ 250 |
| Temperature display resolution [°C] | 0.001 | 0.001 |
| Temperature set resolution [°C] | 0.001 | 0.001 |
| Temperature stability [°C] | ± 0.001 @ 50 °C<br>± 0.002 @ 100 °C<br>± 0.006 @ 250 °C | ± 0.002 @ 50 °C<br>± 0.003 @ 100 °C<br>± 0.008 @ 250 °C |
| Temperature uniformity [°C] | < ± 0.007 @ 100 °C | < ± 0.007 @ 100 °C |
| Heating rate | ~ 1,5 hours<br>(+ 20 °C …+ 100 °C) | ~ 2,5 hours<br>(+ 20 °C …+ 100 °C) |
| Cooling rate | N/A | N/A |
| Temperature Control | PID | PID |
| Noise level [dBA] | < 58 | < 68 dBA |
| Cooling<br>(Built in cooling coil for external cooling) | N/A<br>Natural | N/A<br>Natural |
| Power supply | 230 V 50/60 HZ<br>(± 10 %) | 3x400 V 50/60 HZ<br>(± 10 %) |
| Wattage [W] | 3200 | 7000 |
| Interface | Ethernet, USB | Ethernet, USB |
| Weight [kg] | ~ 130 | ~ 370 |

**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*

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## Accessories:

- LIG thermometer holder

- Vertical fixture

- Adjustable multiple probe fixture

- External fluid level for LIG

- Additional lid

- Removable shelve

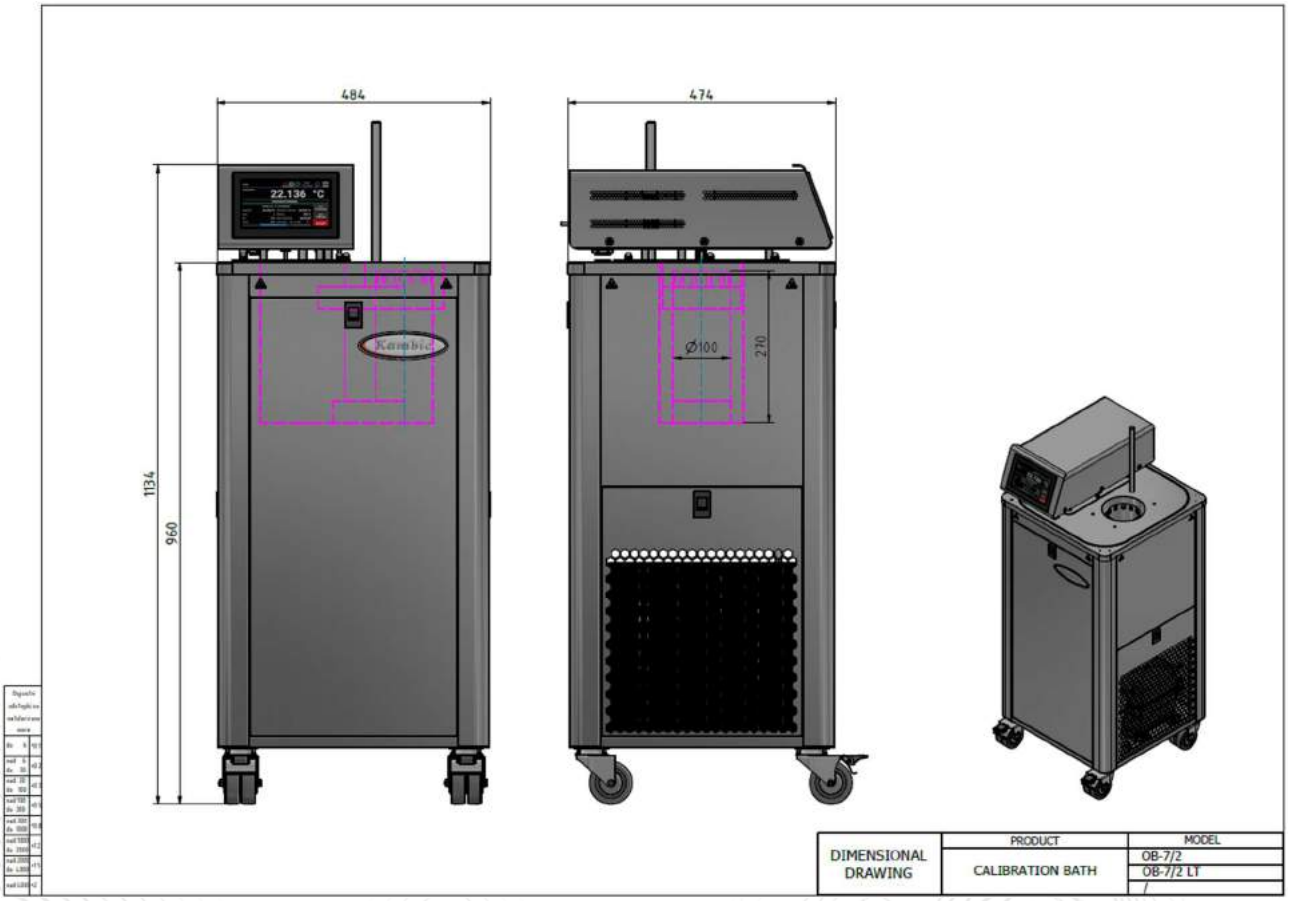
- Fume hood

- 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 |
| Calibration bath OB-200/2 | 2972 |
| Evaluation report – performed by Kambic | 1719 |
| Evaluation report (accredited ISO/IEC 17025:2017) | 2997 |
| 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 |
| Removable shelve | 1658 |
| Extra lid for OB-7/2 | 1737 |
| Extra lid for OB-22/2 | 1636 |
| Extra lid for OB-50/2 | 2115 |
| Extra lid for OB-200/2 | 812 |
| 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 |

**Accessories might affect performance!*




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


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

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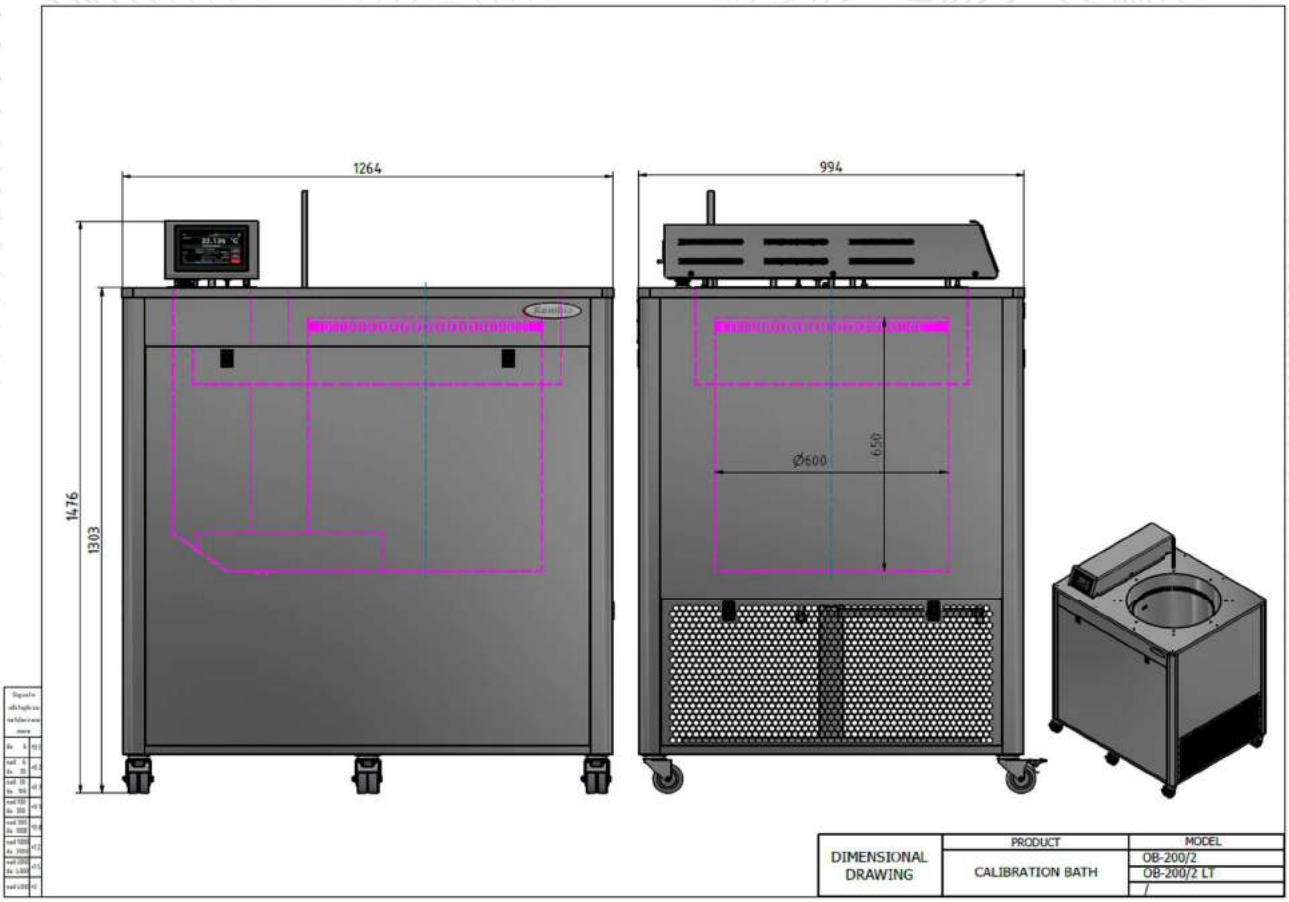
| PRODUCT | MODEL |
|---|---|
| CALIBRATION BATH | OB-50/2 |
| | OB-50/2 LT |




| DIMENSIONAL DRAWING | PRODUCT | MODEL |
|---|---|---|
| | CALIBRATION BATH | OB-200/2 |
| | | OB-200/2 LT |

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