

Calibration Bath

(+ 40 °C ...+ 250 °C)

OB-7/2

OB-22/2

OB-50/2

OB-200/2

High temperature calibration baths - metrology performance:

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



Temperature



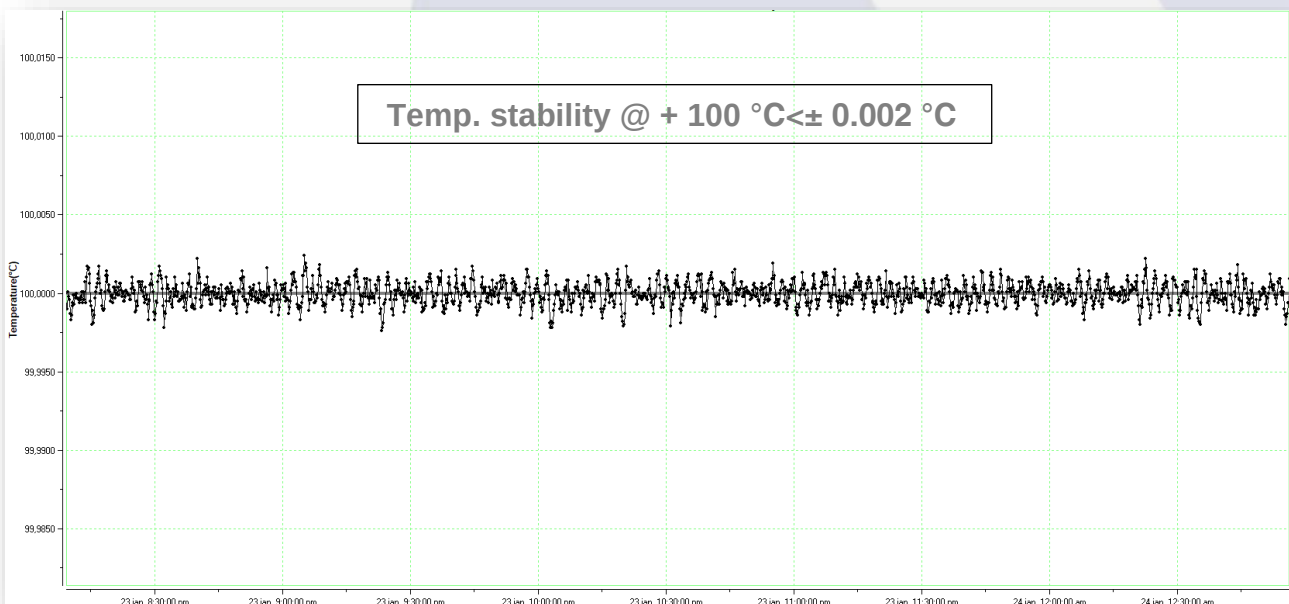
Device description:



Controller functions:



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



Technical data:

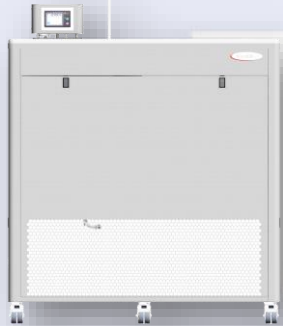
	OB-7/2	OB-22/2
		
External dimensions (WxHxD) in mm	480 x 1080 x 470	600 x 1240 x 550
Internal dimensions (diameter x immersion depth) in mm	Ø 100 x 270	Ø 147 x 500
Volume (L)	~ 7	~ 22
Fluid quantity for operation (L)	10	25
Temperature range (°C)	+ 40 ...+ 250	+ 40 ...+ 250
Temperature display resolution (°C)	0.001	0.001
Temperature set resolution (°C)	0.001	0.001
Temperature stability (°C)	± 0.001 @ 50 °C ± 0.002 @ 100 °C ± 0.006 @ 250 °C	± 0.001 @ 50 °C ± 0.002 @ 100 °C ± 0.006 @ 250 °C
Temperature uniformity (°C)	< ± 0.007 @ 100 °C	< ± 0.007 @ 100 °C
Heating rate	~ 50 min (+ 100 °C ...+ 250 °C)	~ 60 min (+ 100 °C ...+ 250 °C)
Cooling rate	N/A	N/A
Temperature Control	PID	PID
Noise level (dBA)	< 48dBA	< 48dBA
Cooling (Built in cooling coil for external cooling)	N/A Natural	N/A Natural
Power supply	230 V 50/60 HZ (± 10 %)	230 V 50/60 HZ (± 10%)
Wattage (W)	1100	2100
Interface	RS 232 (USB as option)	RS 232 (USB as option)
Weight (kg)	~ 54	~ 72

*All performance data with fluid KDC 200.50

*All performance in controlled environment ($T_{\text{ambient}} = 22 \text{ °C} \pm 3 \text{ °C}$)!

*Accessories might affect performance!

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

	OB-50/2	OB-200/2
		
External dimensions (WxHxD) in mm	745 x 1240 x 495	1264 x 1485 x 995
Internal dimensions (diameter x immersion depth) in 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 ± 0.002 @ 100 °C ± 0.006 @ 250 °C	± 0.002 @ 50 °C ± 0.003 @ 100 °C ± 0.008 @ 250 °C
Temperature uniformity (°C)	< ± 0.007 @ 100 °C	< ± 0.007 @ 100 °C
Heating rate	~ 175 min (+ 100 °C ...+250 °C)	~ 10 h (+ 100 °C ...+250 °C)
Cooling rate	N/A	N/A
Temperature Control	PID	PID
Noise level (dBA)	< 48dBA	< 48dBA
Cooling (Built in cooling coil for external cooling)	N/A Natural	N/A Natural
Power supply	230 V 50/60 HZ (± 10 %)	3x400 V 50/60 HZ (± 10 %)
Wattage (W)	2100	3600
Interface	RS 232 (USB as option)	RS 232 (USB as option)
Weight (kg)	~ 85	~ 220

*All performance data with fluid KDC 200.50

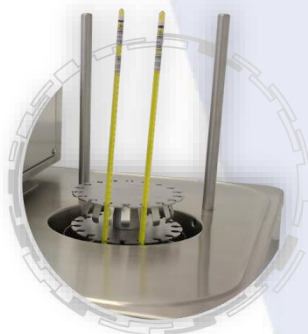
*All performance in controlled environment ($T_{\text{ambient}} = 22 \text{ °C} \pm 3 \text{ °C}$)!

*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



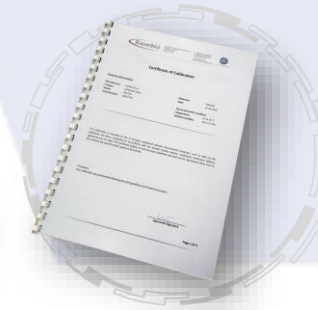
- Foldable shelf



- 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
Calibration bath OB-200/2	2973
USB interface	1466
Evaluation report – performed by Kambic	1719
Evaluation report (accredited ISO/IEC 17025:2017)	2997
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
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



SHIPPING	
W	660
H	1330
D	630

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

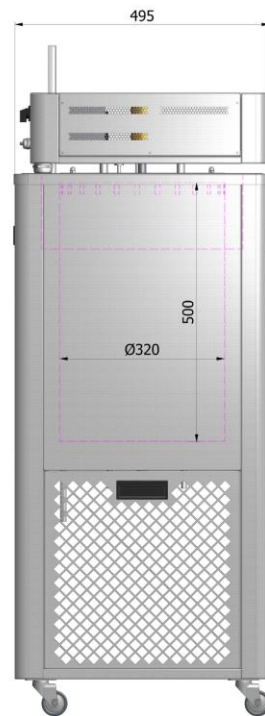
DIMENSIONAL DRAWING	PRODUCT	MODEL
	CALIBRATION BATH	OB-7/2 OB-7/2 LT



SHIPPING	
W	735 mm
H	1460 mm
D	685 mm

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

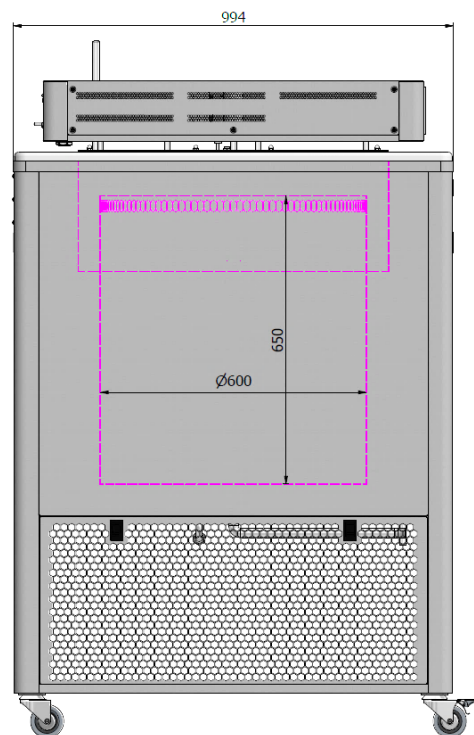
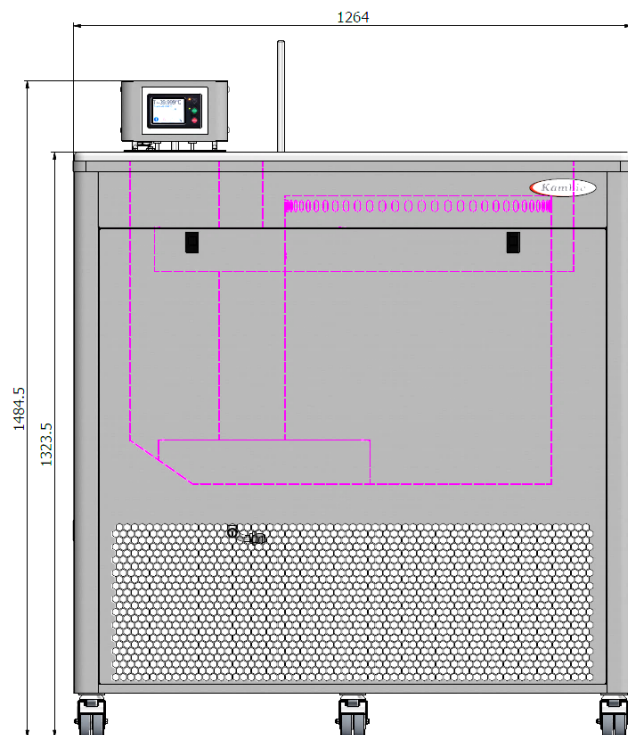
DIMENSIONAL DRAWING	PRODUCT	MODEL
	CALIBRATION BATH	OB-22/2 OB-22/2 LT



SHIPPING	
W	810 mm
H	1460 mm
D	630 mm

WEIGHT: 112/161kg * we reserve the right to modifications

DIMENSIONAL DRAWING	PRODUCT	MODEL
	CALIBRATION BATH	OB-50/2
		OB-50/2 LT



SHIPPING	
W	1450
H	1750 mm
D	1200

WEIGHT: * we reserve the right to modifications

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