

CALIBRATION BATH

(- 40 °C ...+ 130 °C)

OB-7/2 LT

OB-22/2 LT

OB-50/2 LT

Low 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





Over temperature shut off device

Vertical fixture – one included as standard

Special double cylinder design with unique vertical flow across entire working volume

7L, 22L, 50L working chamber with immersion depth up to 500 mm

Touch screen based controller with user friendly interface, history graph advance settings options RS-232, USB or Ethernet communication ports

Insulation cover included - simple to drill and fix any size sensor

Full 4 side maintenance access

Extensive high performance heat insulation

All exterior and interior in stainless steel AISI 304 SB With rounded corners

Air cooled conventional compressor based refrigeration system

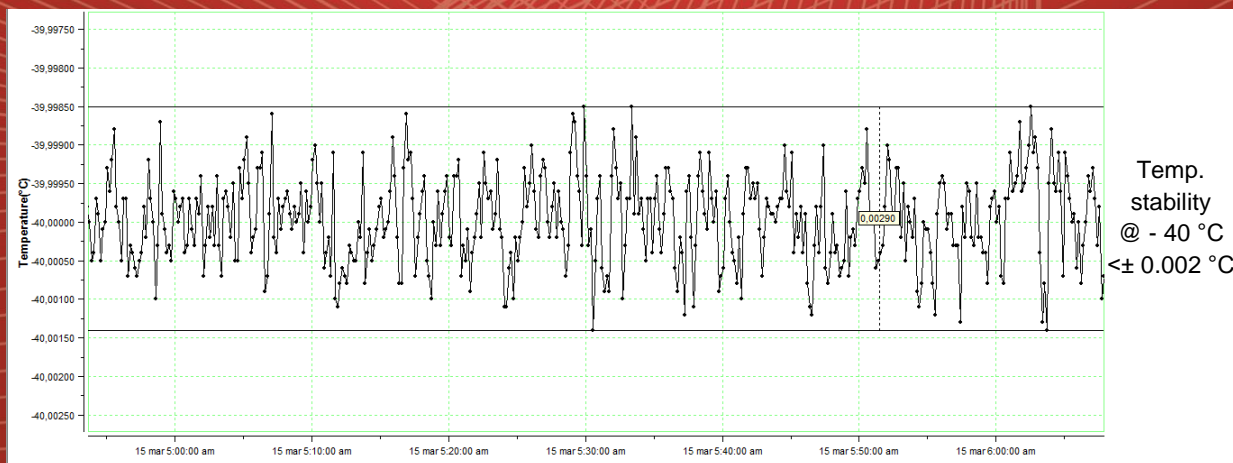
Mobile standalone unite, with built on swivel wheels with brakes

Overflow drain with catch pot and fluid drain valve neatly hidden behind the front cover panel

Controller functions:



Bath's temperature stability graph at - 40 °C:



Technical data:

	OB-7/2 LT	OB-22/2 LT	OB-50/2 LT
			
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 ...+ 130	- 40 ...+ 130	- 40 ...+130
Temperature display resolution (°C)	0.001	0.001	0.001
Temperature set resolution (°C)	0.001	0.001	0.001
Temperature stability (°C)	± 0.004 @ - 40 °C ± 0.005 @ 20 °C ± 0.002 @ 100 °C	± 0.004 @ - 40 °C ± 0.005 @ 20 °C ± 0.002 @ 100 °C	± 0.004 @ - 40 °C ± 0.005 @ 20 °C ± 0.002 @ 100 °C
Temperature uniformity (°C)	< ± 0.007 @ - 40 °C	< ± 0.007 @ - 40 °C	< ± 0.007 @ - 40 °C
Heating rate	~ 37 min (+ 20 °C ...+ 100 °C)	~ 49 min (+ 20 °C ...+ 100 °C)	~ 78 min (+ 20 °C ...+ 100 °C)
Cooling rate	~ 64 min (+ 20 °C ...- 40 °C)	~ 121 min (+ 20 °C ...- 40 °C)	~ 365 min (+ 20 °C ...- 40 °C)
Temperature Control	PID	PID	PID
Noise level (dBA)	< 58	< 58	< 58
Cooling	Compressor Cooling System	Compressor Cooling System	Compressor Cooling System
Power supply	230 V 50/60 HZ (± 10 %)	230 V 50/60 HZ (± 10 %)	230 V 50/60 HZ (± 10 %)
Wattage (W)	2000	3200	3200
Interface	RS 232 (USB or Ethernet as option)	RS 232 (USB or Ethernet as option)	RS 232 (USB or Ethernet as option)
Weight (kg)	~ 85	~ 100	~ 130

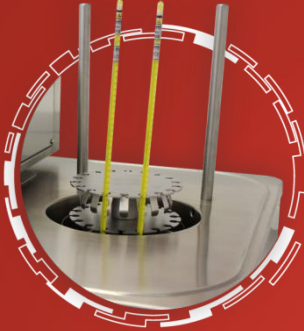
*All performance data with fluid KDC 200.05

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

*Accessories might affect performance!

Accessories:

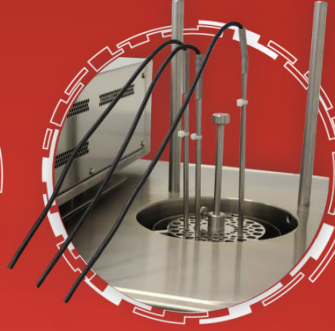
- LIG thermometer holder



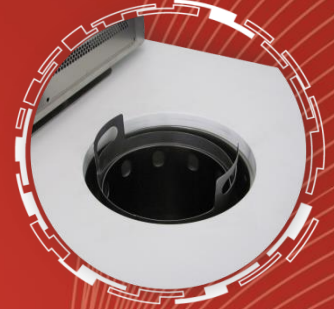
- Vertical fixture



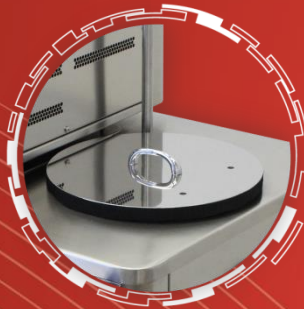
- Adjustable multiple probe fixture



- External fluid level for LIG



- Additional lid



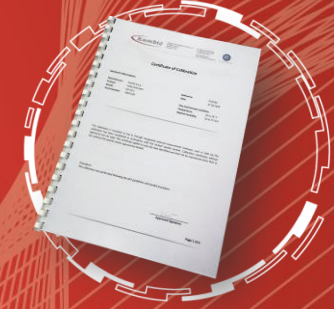
- Foldable shelf



- Fume hood



- Evaluation report



Ordering information and accessories:

Description	Part no.
Calibration bath OB-7/2 LT	1620
Calibration bath OB-22/2 LT	1625
Calibration bath OB-50/2 LT	1611
USB interface	1466
Ethernet interface	1716
Evaluation report – performed by Kambic	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 LT	1737
Extra lid for OB-22/2 LT	1636
Extra lid for OB-50/2 LT	2115
Silicone oil fluid KDC 200.05 (- 40 °C ...+130 °C)	645
Silicone oil fluid KDC ULT (- 100 °C ...+ 30 °C)	700

