

# CALIBRATION BATH

(- 90 °C ...+ 130 °C)

OB-22/2 ULT

OB-50/2 ULT

Ultra low temperature calibration baths- metrology performance:

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

22L, 50L working chamber with immersion depth 500 mm

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

Special heat resistant and isolative finish

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 two stage compressor based refrigeration system

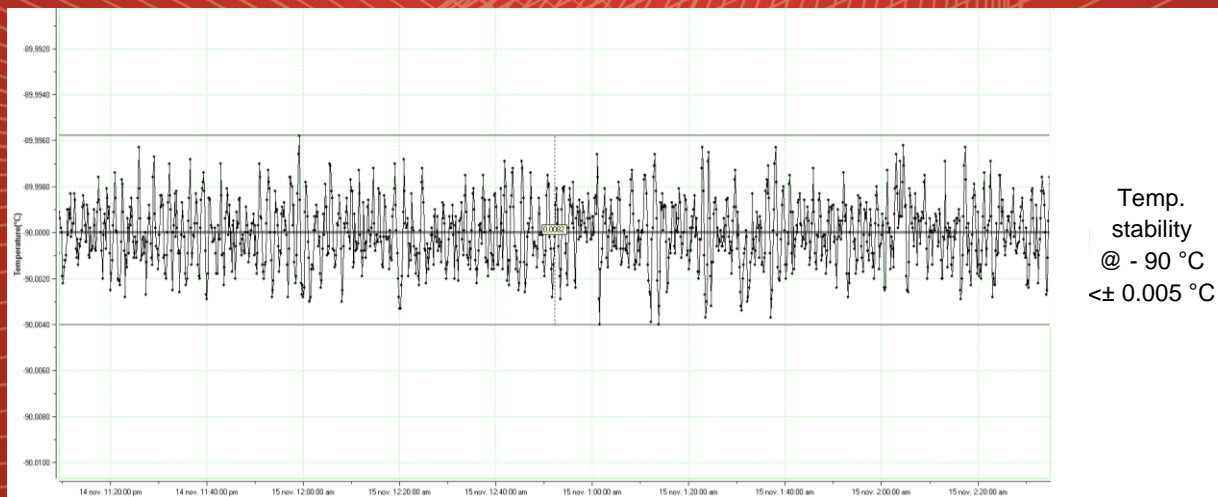
Mobile standalone unite, with built on swivel wheels with brakes

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



**Controller functions:**



**Bath's temperature stability graph at - 90 °C:**



**Technical data:**

	OB-22/2 ULT	OB-50/2 ULT
		
External dimensions (WxHxD) in mm	600 x 1260 x 550	900 x 1240 x 690
Internal dimensions (cross x immersion depth) in mm	Ø 147 x 500	Ø 320 x 500
Volume (L)	~ 22	~ 50
Temperature range (°C)	- 90 ...+ 130	- 90 ...+ 130
Temperature display resolution (°C)	0.001	0.001
Temperature set resolution (°C)	0.001	0.001
Temperature stability (°C)	± 0.005 @ - 90 °C ± 0.005 @ + 20 °C ± 0.002 @ + 50 °C	± 0.003 @ - 90 °C ± 0.005 @ + 20 °C ± 0.002 @ + 50 °C
Temperature uniformity (°C)	± 0.007 @ - 90 °C	± 0.007 @ - 90 °C
Heating rate	~ 65 min (- 90 °C ...+ 20 °C)	~ 190 min (- 90 °C ...+ 20 °C)
Cooling rate	~ 240 min (+ 20 °C ...- 90 °C)	~ 820 min (+ 20 °C ...- 90 °C)
Temperature Control	PID	PID
Noise level (dBA)	< 58	< 58
Cooling	Cascade Compressor Cooling System	Cascade Compressor Cooling System
Power supply	230 V 50/60 HZ (± 10 %)	230 V 50/60 HZ (± 10 %)
Wattage (W)	3600	3600
Interface	RS 232 (USB or Ethernet as option)	RS 232 (USB or Ethernet as option)
Weight (kg)	~ 135	~ 175

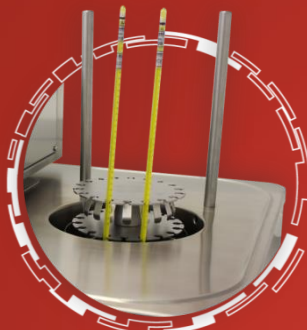
\*All performance data with fluid KDC ULT

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

\*Accessories might affect performance!

## Accessories:

- LIG thermometer holder



- Vertical fixture



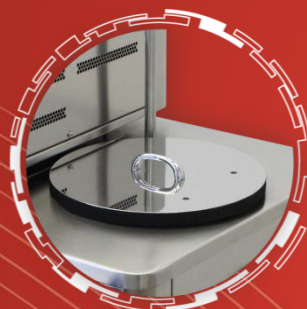
- Adjustable multiple probe fixture



- External fluid level for LIG



- Additional lid



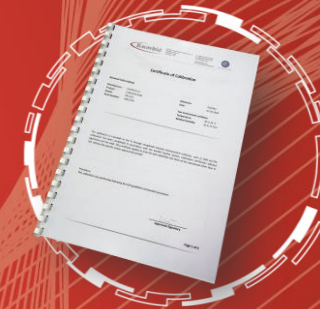
- Foldable shelf



- Fume hood



- Evaluation report



## Ordering information and accessories:

Description	Part no.
Calibration bath OB-22/2 ULT	1626
Calibration bath OB-50/2 ULT	1633
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-22/2 ULT	1636
Extra lid for OB-50/2 ULT	2115
Silicone oil fluid KDC ULT (- 100 °C ...+ 30 °C)	700

