

# CALIBRATION BATH

(-90°C...+130°C)

OB-7/2 ULT

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
  - Up to 500mm immersion depth
  - Unique vertical flow design
    - State of the art solution
    - Three bath sizes





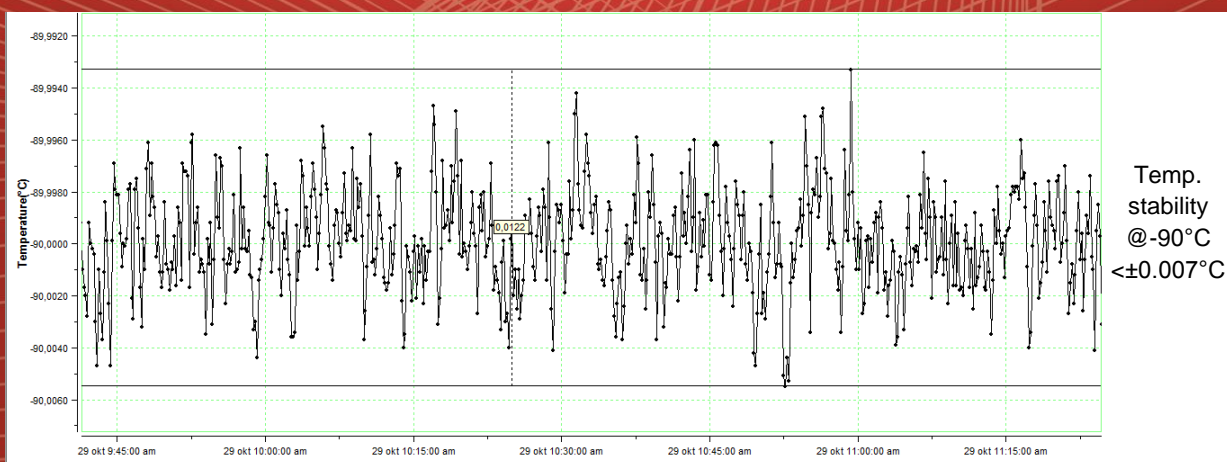




**Controller functions:**



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





## Technical data:

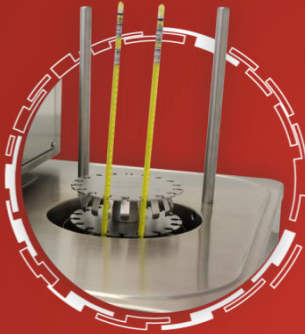
	OB-7/2 ULT	OB-22/2 ULT	OB-50/2 ULT
			
External dimensions (WxHxD) in mm	480 x 1100 x 470	600 x 1260 x 550	900 x 1240 x 690
Internal dimensions (cross x immersion depth) in mm	100 x 270	147 x 500	320 x 500
Volume (L)	~7	~22	~50
Temperature range (°C)	-90 ... +130	-90 ... +130	-90 ... +130
Temperature display resolution (°C)	0.001	0.001	0.001
Temperature set resolution (°C)	0.001	0.001	0.001
Temperature stability (°C)	±0.006 @ -90°C ±0.008 @ 0°C ±0.006 @ 20°C	±0.005 @ -90°C ±0.005 @ 0°C ±0.005 @ 20°C	±0.003 @ -90°C ±0.005 @ 0°C ±0.005 @ 20°C
Temperature uniformity (°C)	±0.007@-90°C	±0.007@-90°C	±0.007@-90°C
Heating rate	60 min (-90°C to 37°C)	70 min (-90°C to 50°C)	148 min (-90°C to -40°C)
Cooling rate	184 min (37°C to -90°C)	240 min (20°C to -90°C)	377 min (-20°C to -90°C)
Temperature Control	PID	PID	PID
Noise level (dBA)	< 58	< 58	< 58
Cooling	Cascade Compressor Cooling System	Cascade Compressor Cooling System	Cascade 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)	3600	3600	3600
Interface	RS 232 or USB or Ethernet	RS 232 or USB or Ethernet	RS 232 or USB or Ethernet
Weight (kg)	109	131	175

\*All performance data with fluid KDC ULT



## Accessories:

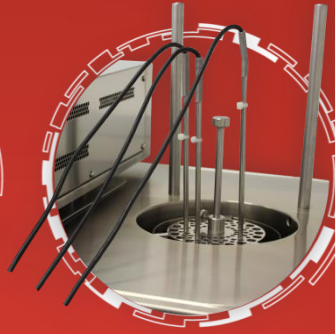
- LIG thermometer holder



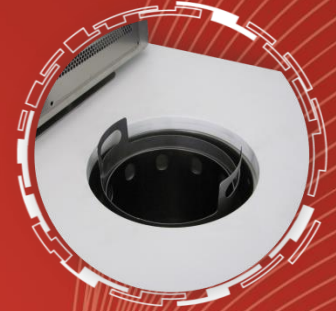
- Vertical fixture



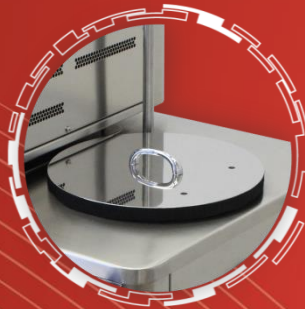
- Adjustable multiple probe fixture



- External fluid level for LIG



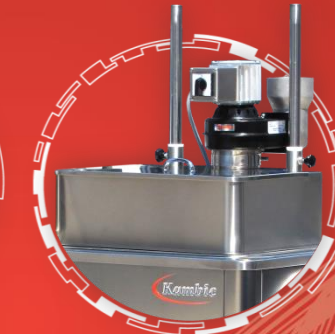
- Additional lid



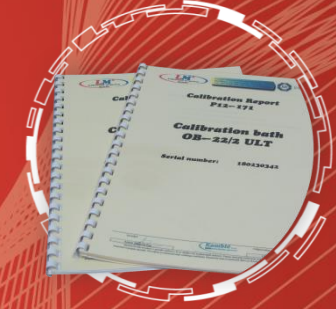
- Foldable shelf



- Fume hood



- Evaluation report



## Ordering information and accessories:

Description	Part no.
Calibration bath OB-7/2 ULT	1621
Calibration bath OB-22/2 ULT	1626
Calibration bath OB-50/2 ULT	1633
USB interface	1466
Ethernet interface	1716
Evaluation report	1719
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 ULT	1737
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





