

Calibration Baths

Withnell Sensors
Data Loggers, Thermocouples & Calibration



Low Temp
-40°C to +130°C

- ✓ Volumes from 7L to 50L
- ✓ Up to 500mm immersion depth
- ✓ Unique vertical flow design
- ✓ Stability & uniformity in mK range

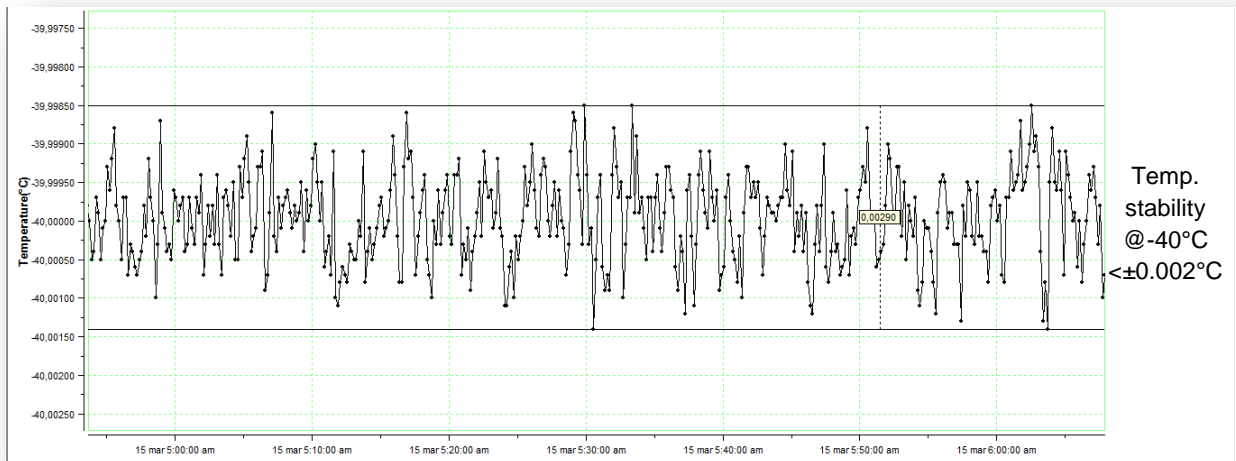
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Controller functions:



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



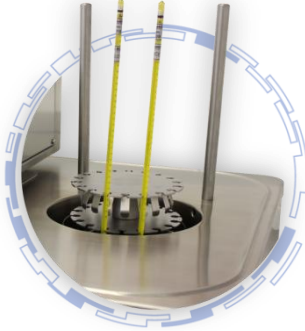
Technical data:

	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 (cross x immersion depth) in mm	100 x 270	147 x 500	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 @ 0°C ±0.002 @ 100°C	±0.004 @ -40°C ±0.005 @ 0°C ±0.002 @ 100°C	±0.004 @ -40°C ±0.005 @ 0°C ±0.002 @ 100°C
Temperature uniformity (°C)	< ±0.007 @ -40°C	< ±0.007 @ -40°C	< ±0.007 @ -40°C
Heating rate	37 min (40°C to 100°C)	43 min (-40°C to 50°C)	61 min (-40°C to 50°C)
Cooling rate	64 min (20°C to -40°C)	100 min (100°C to 0°C)	121 min (100°C to 0°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 or USB or Ethernet	RS 232 or USB or Ethernet	RS 232 or USB or Ethernet
Weight (kg)	82	108	133

*All performance data with fluid KDC 200.05

Accessories:

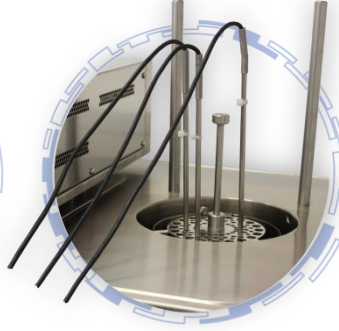
- LIG thermometer holder



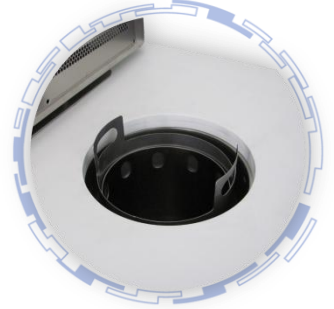
- Vertical fixture



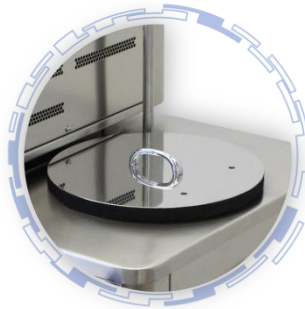
- Adjustable multiple probe fixture



- External fluid level for LIG



- Additional lid



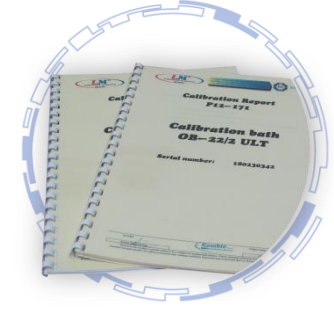
- Foldable shelf



- Fume hood

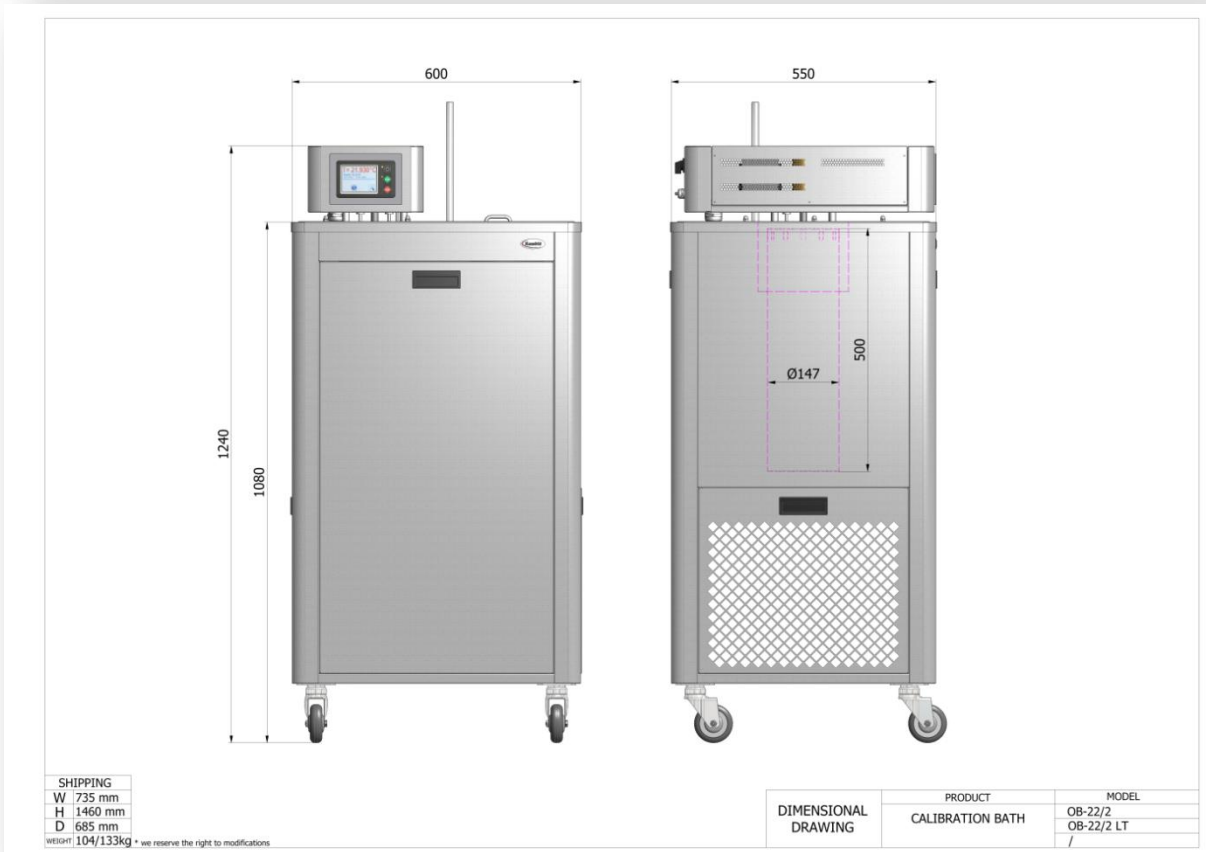


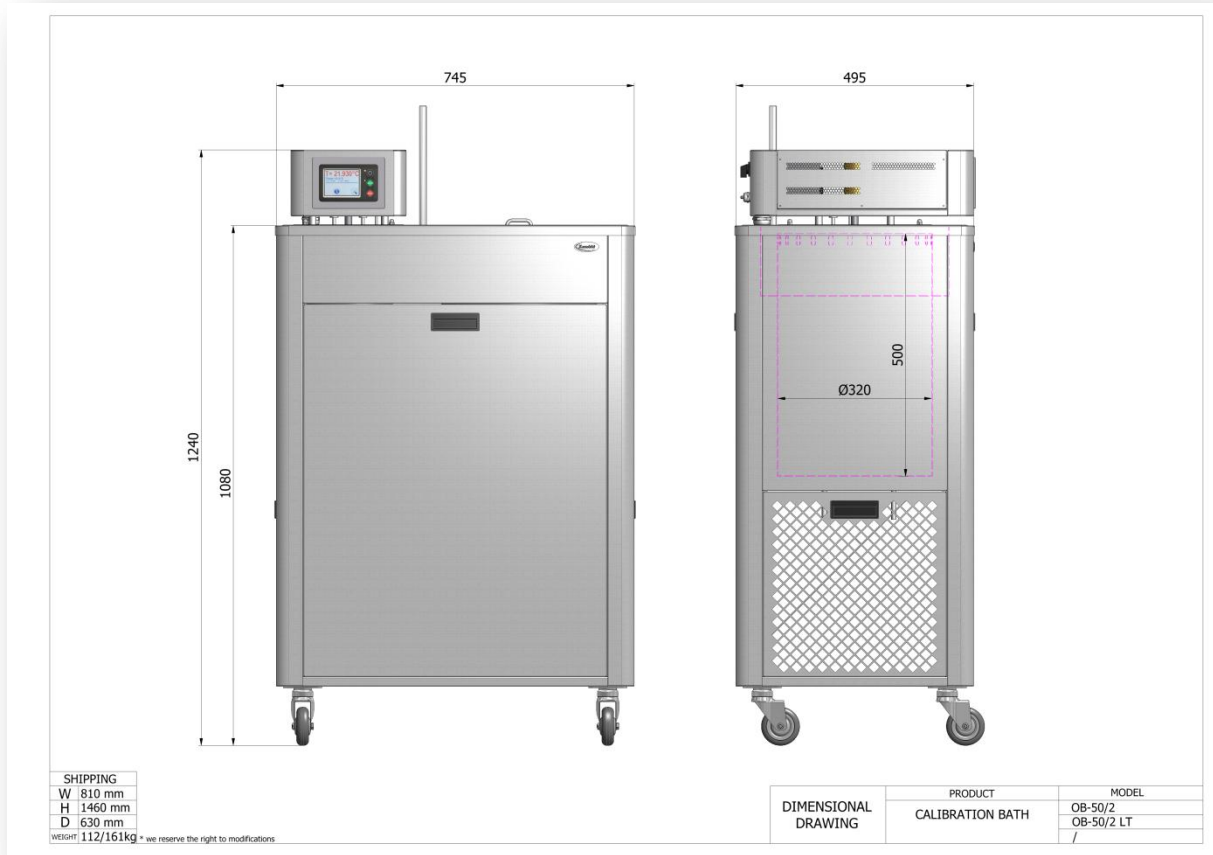
- Evaluation report



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	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 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





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
		/

Withnell Sensors
S Data Loggers, Thermocouples & Calibration



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- ✓ UK based installation engineers
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