Calibration Baths

Withnell Sensors
Data Loggers, Thermocouples & Calibration

Kambič

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

www.withnellsensors.co.uk
sales@withnellsensors.co.uk

Withnell Sensors
Data Loggers, Thermocouples & Calibration

Kambič

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 chamber heat insulation

All exterior in stainless steel AISI 304 SB With rounded corners

Mobile standalone unite, with built on swivel wheels with brakes

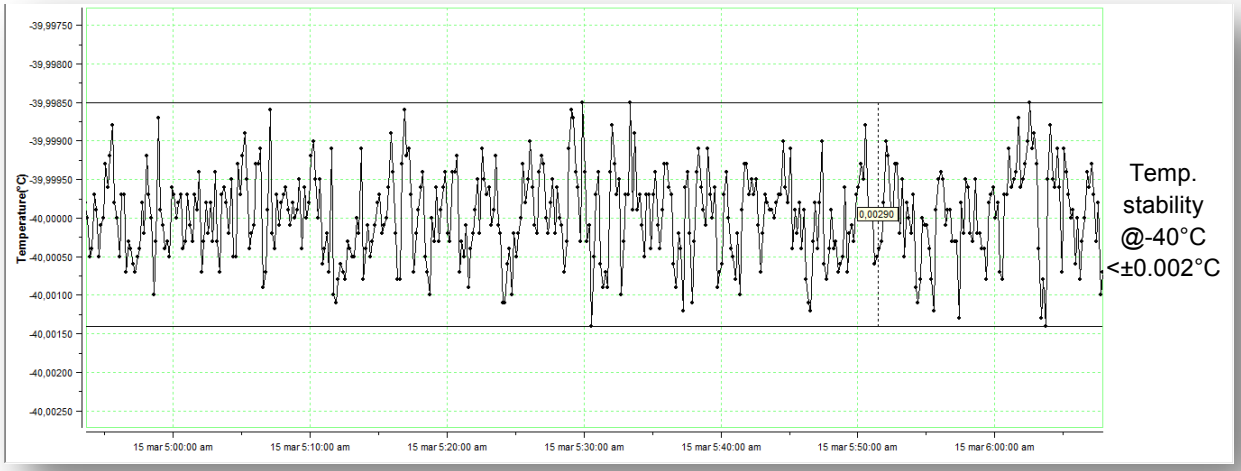
Overflow drain with catch pot and fluid drain valve neatly hidden behind the front cover panel

Air cooled conventional compressor based refrigeration system

www.withnellsensors.co.uk
sales@withnellsensors.co.uk

Controller functions:

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



Temp. stability @-40°C <±0.002°C

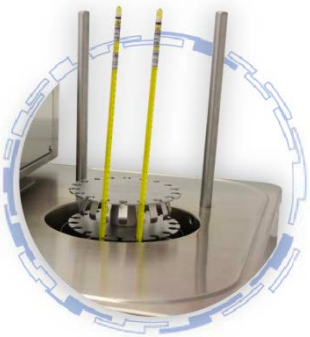
Technical data:

	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

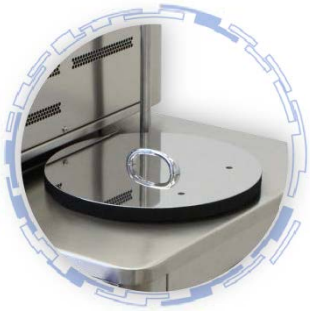


- Vertical fixture

- Adjustable multiple probe fixture

- External fluid level for LIG

- Additional lid



- Foldable shelve

- Fume hood

- Evaluation report

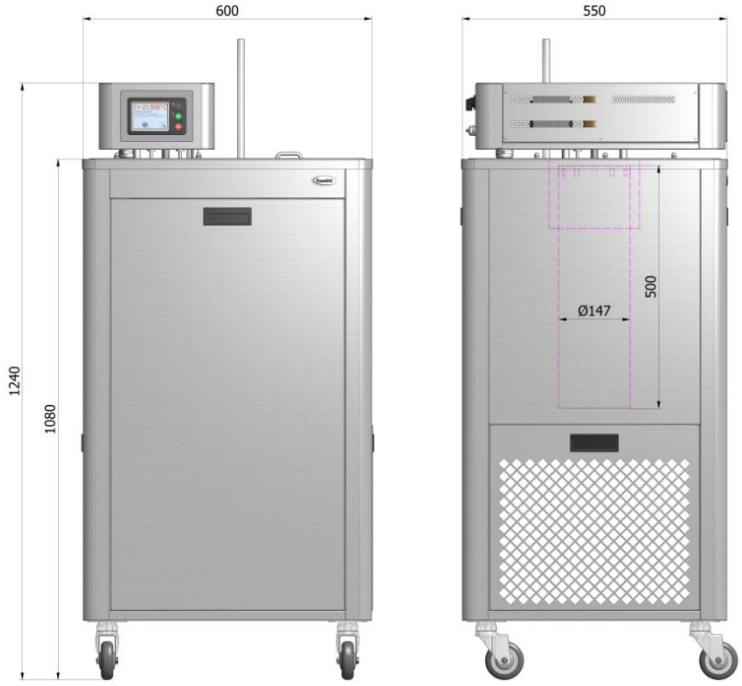
Ordering information and accessories:

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 shelve	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	660 mm
H	1330 mm
D	630 mm
WEIGHT	110 kg

* we reserve the right to modifications

DIMENSIONAL DRAWING	PRODUCT	MODEL
	CALIBRATION BATH	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
		/

Withnell Sensors
Data Loggers, Thermocouples & Calibration

Kambič

Get in Touch

Withnell Sensors Ltd
The Old Silk Mill
Bury Lane
Withnell
Lancashire
PR6 8RX

+44(0)1254-831375
www.withnellsensors.co.uk
sales@withnellsensors.co.uk

- Independent, expert advice
- UK based installation engineers
- Expert after sales care
- Maintenance & service options