

TRIPLE POINT OF WATER MAINTENANCE BATH

(- 5 °C ...+ 130 °C)

OB-22/2 TPW

OB-50/2 TPW

Ultra stable Triple Point of Water maintenance bath with metrology performance:

- Uniformity and stability in mK range
- Fluid ensures perfect heat transfer
 - Independent frost protection
 - Unique vertical flow design
 - 500mm immersion depth
 - State of the art solution
 - Cycling function
 - Two bath sizes





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

Over temperature shut off device

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

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

Special Lid and fixture for TPW cells
OB-22 TPW - 1 cell
OB 50 TPW - 4 cells

Full 4 side maintenance access

Extensive high performance heat insulation

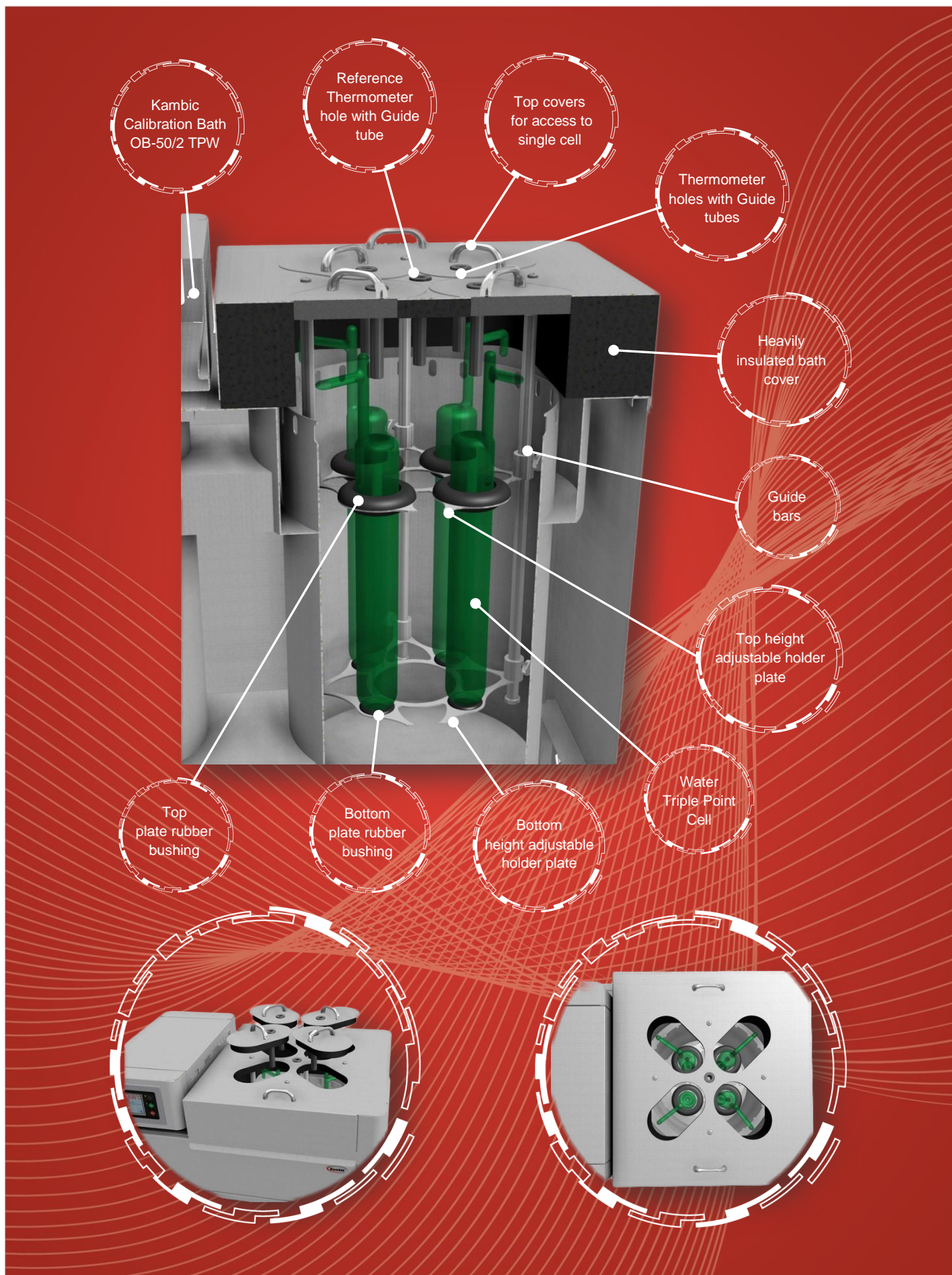
All exterior and interior in stainless steel AISI 304 With rounded corners

Air cooled conventional compressor based refrigeration system

Mobile standalone unite, with built on swivel wheels with brakes

Independent Frost protection system

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



Kambic
Calibration Bath
OB-50/2 TPW

Reference
Thermometer
hole with Guide
tube

Top covers
for access to
single cell

Thermometer
holes with Guide
tubes

Heavily
insulated bath
cover

Guide
bars

Top height
adjustable holder
plate

Water
Triple Point
Cell

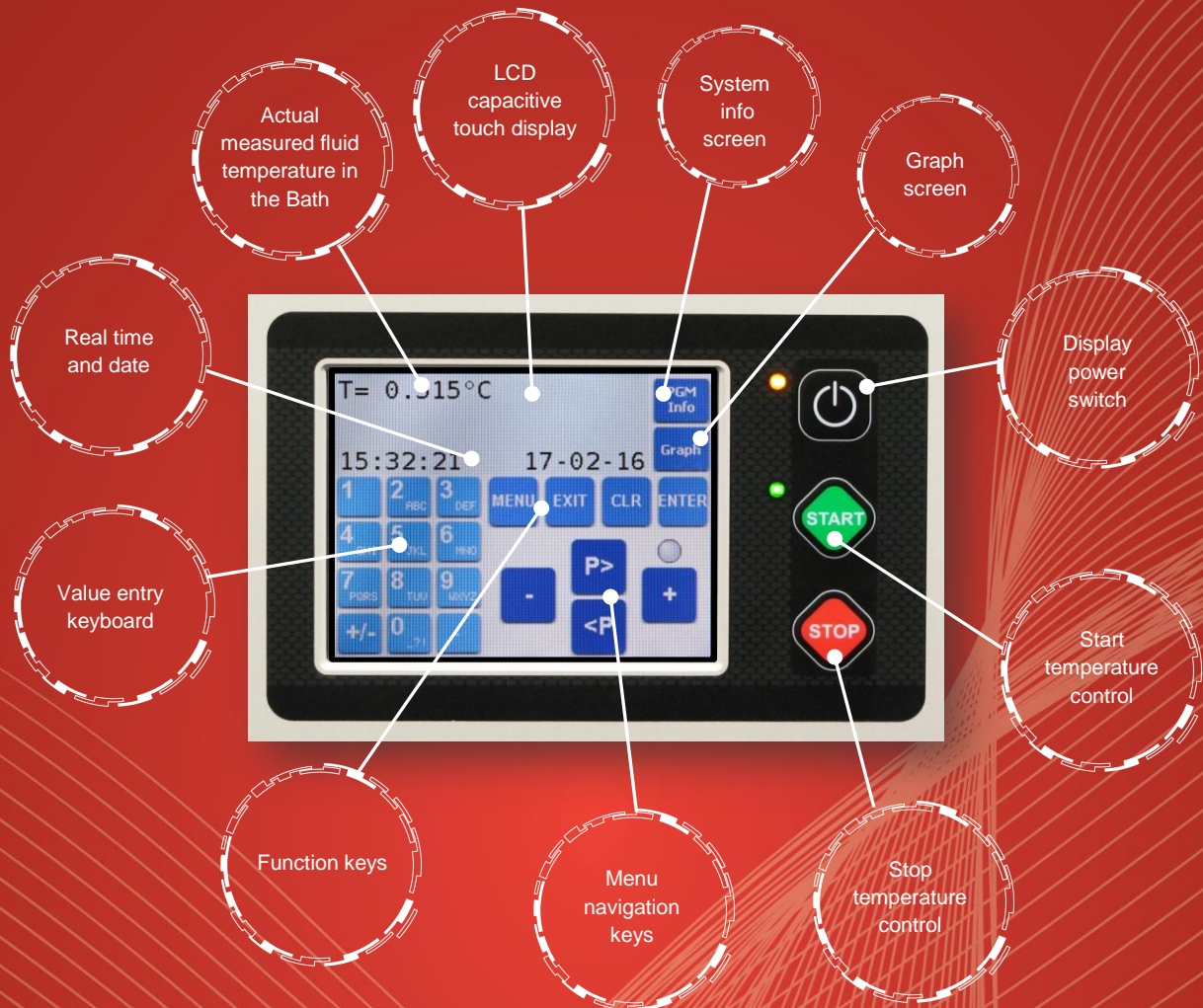
Top
plate rubber
bushing

Bottom
plate rubber
bushing

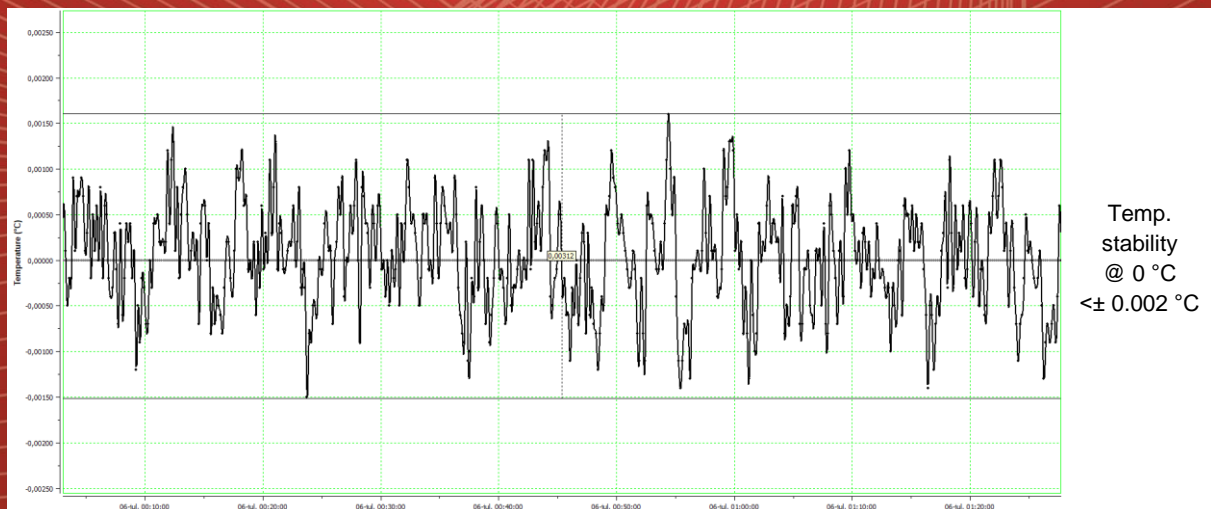
Bottom
height adjustable
holder plate



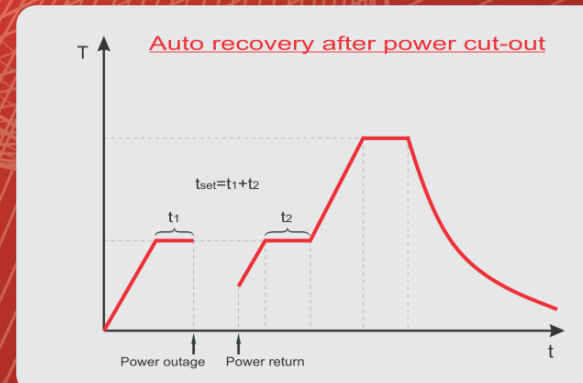
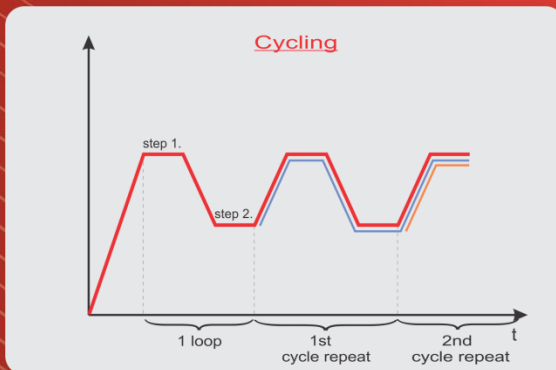
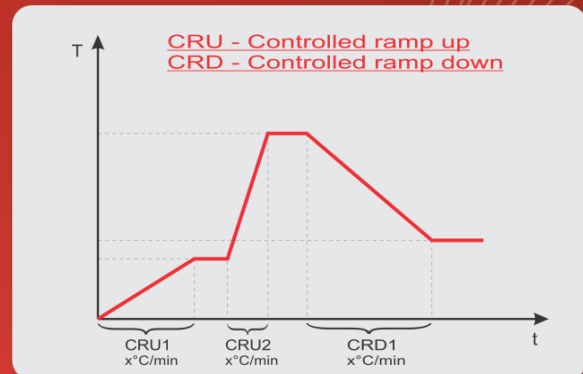
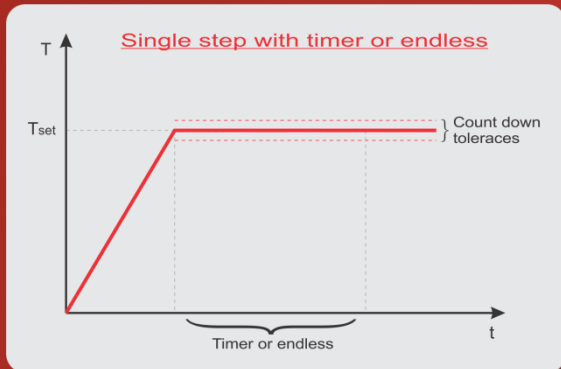
User interface:





Bath's temperature stability graph at 0 °C:



Controller functions:



Technical data:

	OB-22/2 TPW	OB-50/2 TPW
		
External dimensions (WxHxD) in mm	600 x 1240 x 550	745 x 1240 x 495
Internal dimensions (diameter x immersion depth) in mm	Ø 147 x 500	Ø 320 x 500
Volume (L)	~ 22	~ 50
Temperature range (°C)	- 5 ...+ 130	- 5 ...+ 130
Temperature display resolution (°C)	0.001	0.001
Temperature set resolution (°C)	0.001	0.001
Temperature stability (°C)	± 0.002 @ 0 °C ± 0.005 @ 20 °C ± 0.002 @ 100 °C	± 0.002 @ 0 °C ± 0.005 @ 20 °C ± 0.002 @ 100 °C
Temperature uniformity (°C)	< ± 0.007 @ 0 °C	< ± 0.007 @ 0 °C
Heating rate	~ 50 min (+ 20 °C ...+ 100 °C)	~ 78 min (+ 20 °C ...+ 100 °C)
Cooling rate	~ 60 min (+ 20 °C ...- 5 °C)	~ 150 min (+ 20 °C ...- 5 °C)
Temperature Control	PID	PID
Noise level (dBA)	< 58	< 58
Cooling	Compressor Cooling System	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)	~ 105	~ 135

*All performance data with fluid KDC 200.05

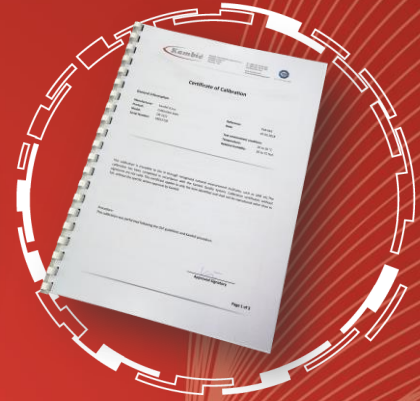
*All performance in controlled environment (Tambient = 22 °C ± 3 °C)!

*Accessories might affect performance!

Accessories:

- Additional Lid & fixture for Maintenance Bath OB-50/2 TPW (4 cells)

- Evaluation report



Ordering information and accessories:

Description	Part no.
Maintenance Bath TPW (1 cell) OB-22/2 TPW	1645
Maintenance Bath TPW (4 cells) OB-50/2 TPW	1646
Lid & fixture for Maintenance Bath TPW (1 cell) OB-22/2 TPW	1672
Lid & fixture for Maintenance Bath TPW (4 cells) OB-50/2 TPW	1673
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
Silicone oil fluid KDC 200.05 (- 40 °C ... +130 °C)	645

