TRIPLE POINT OF WATER MAINTENANCE BATHS

(- 5 °C ...+ 130 °C)

Model:

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

GWP BELOW 150!

Temperature

Kambič d.o.o. Metliška cesta 16, SI-8333 Semič, Slovenia - EU,
T: +386 (0)7 35 65 220, info@kambic.com, info@kambicmetrology.com
www.kambic.com, www.kambicmetrology.com

Device description:

Over temperature shut off device

Vertical fixture – one included as standard

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

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

7'' capacitive touch screen controller with user friendly interface, advance settings options, Ethernet and USB communication ports

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 SB with rounded corners

Air cooled conventional compressor-based refrigeration system

Mobile standalone unit, with built on swivel wheels with brakes

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

Kambič d.o.o. Metliška cesta 16, SI-8333 Semič, Slovenia - EU,
T: +386 (0)7 35 65 220, info@kambic.com, info@kambicmetrology.com
www.kambic.com, www.kambicmetrology.com

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

Top plate rubber bushing

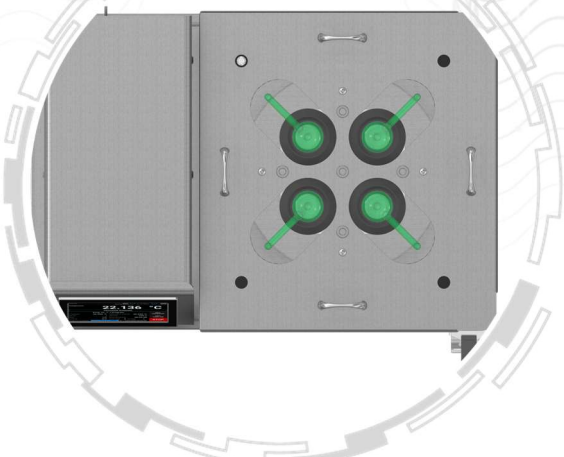
Guide bars

Top height adjustable holder plate

Water Triple Point Cell

Bottom plate rubber bushing

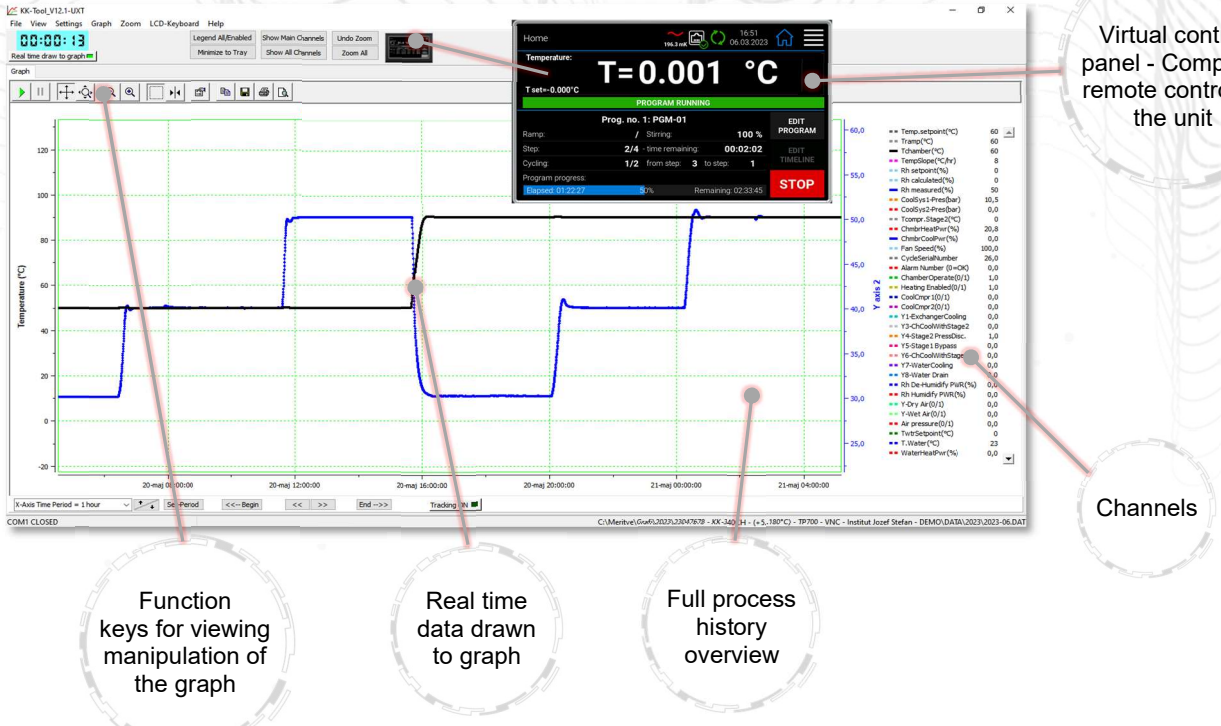
Bottom height adjustable holder plate



Kambič d.o.o. Metliška cesta 16, SI-8333 Semič, Slovenia - EU,
T: +386 (0)7 35 65 220, info@kambic.com, info@kambicmetrology.com
www.kambic.com, www.kambicmetrology.com

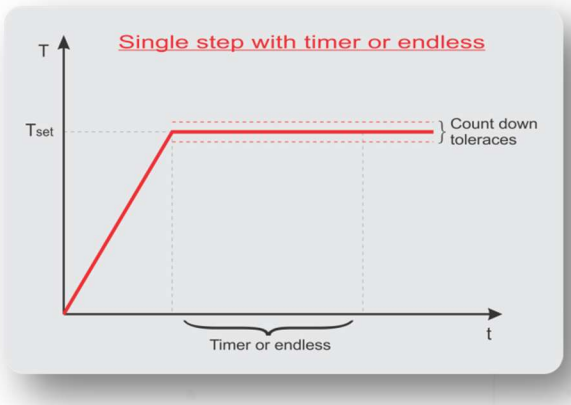
Touch display with advanced controller functions:

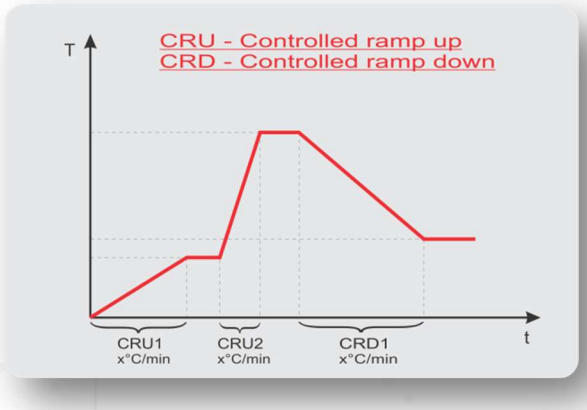
OB-Tool software for PC (free – included with every unit):

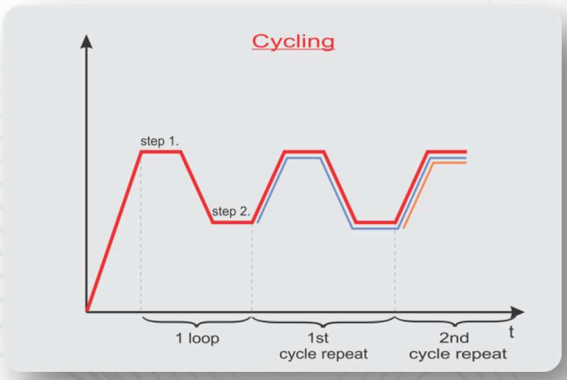


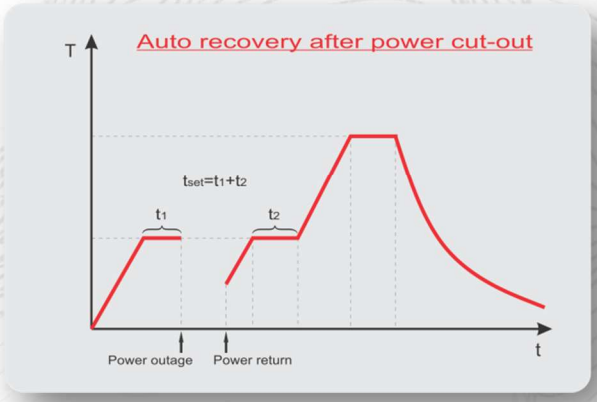
Kambič d.o.o. Metliška cesta 16, SI-8333 Semič, Slovenia - EU,
T: +386 (0)7 35 65 220, info@kambic.com, info@kambicmetrology.com
www.kambic.com, www.kambicmetrology.com

Controller functions:









Kambič d.o.o. Metliška cesta 16, SI-8333 Semič, Slovenia - EU,
T: +386 (0)7 35 65 220, info@kambic.com, info@kambicmetrology.com
www.kambic.com, www.kambicmetrology.com

Technical data:

	OB-22/2 TPW	OB-50/2 TPW
External dimensions (WxHxD) [mm]	600 x 1193 x 550	735 x 1217 x 495
Internal dimensions (diameter x immersion depth) [mm]	Ø 147 x 500	Ø 320 x 500
Volume [L]	~ 22	~ 50
Fluid quantity for operation [L]	25	65
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)	~ 75 min (+ 20 °C …+ 100 °C)
Cooling rate	~ 1 hour (+ 20 °C …- 5 °C)	~ 2,5 hours (+ 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	Ethernet, USB	Ethernet, USB
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:

- *Lid & fixture for Maintenance Bath is not included with the base OB-TPW unit (has to be ordered separately).*
  - *Fixture is customized to fit users TPW cells.*

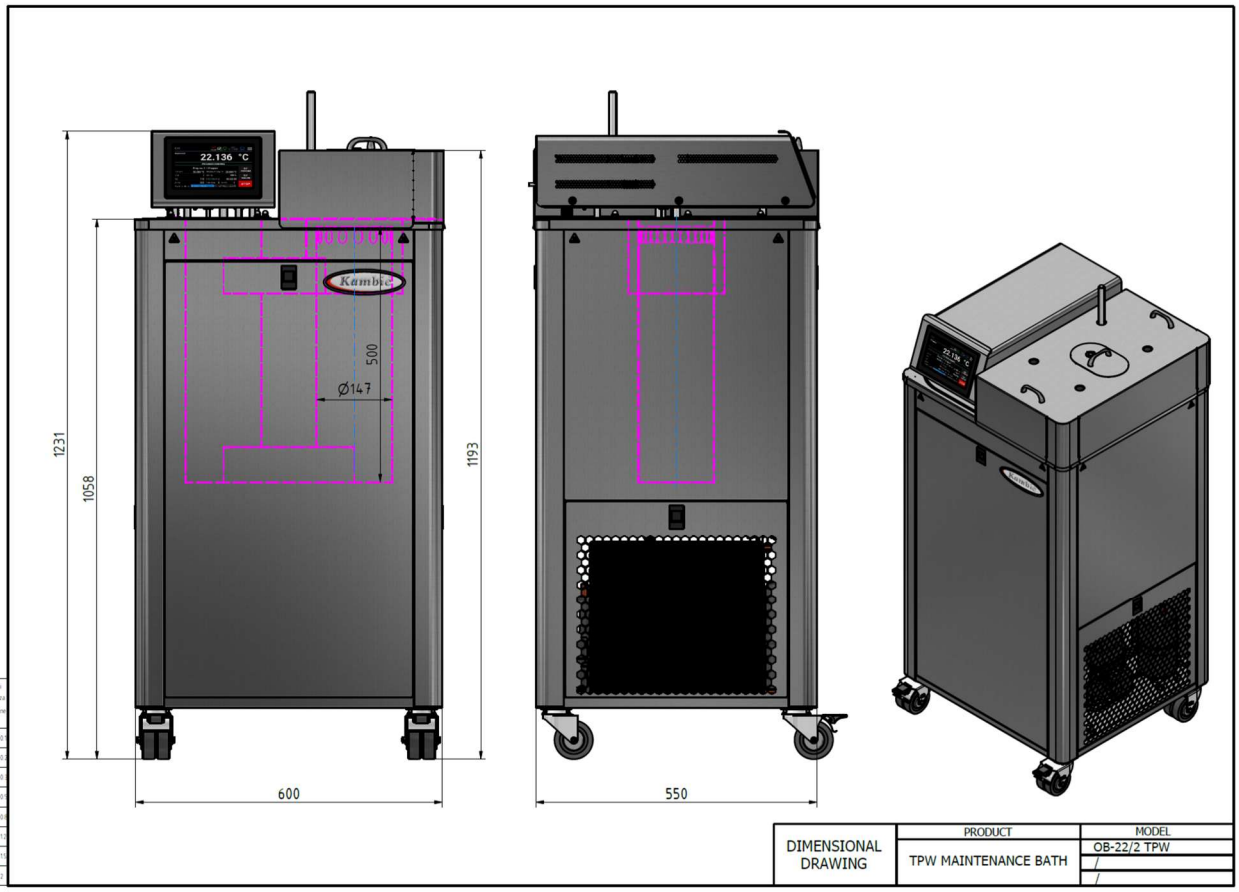
- Evaluation report

- Removable shelve

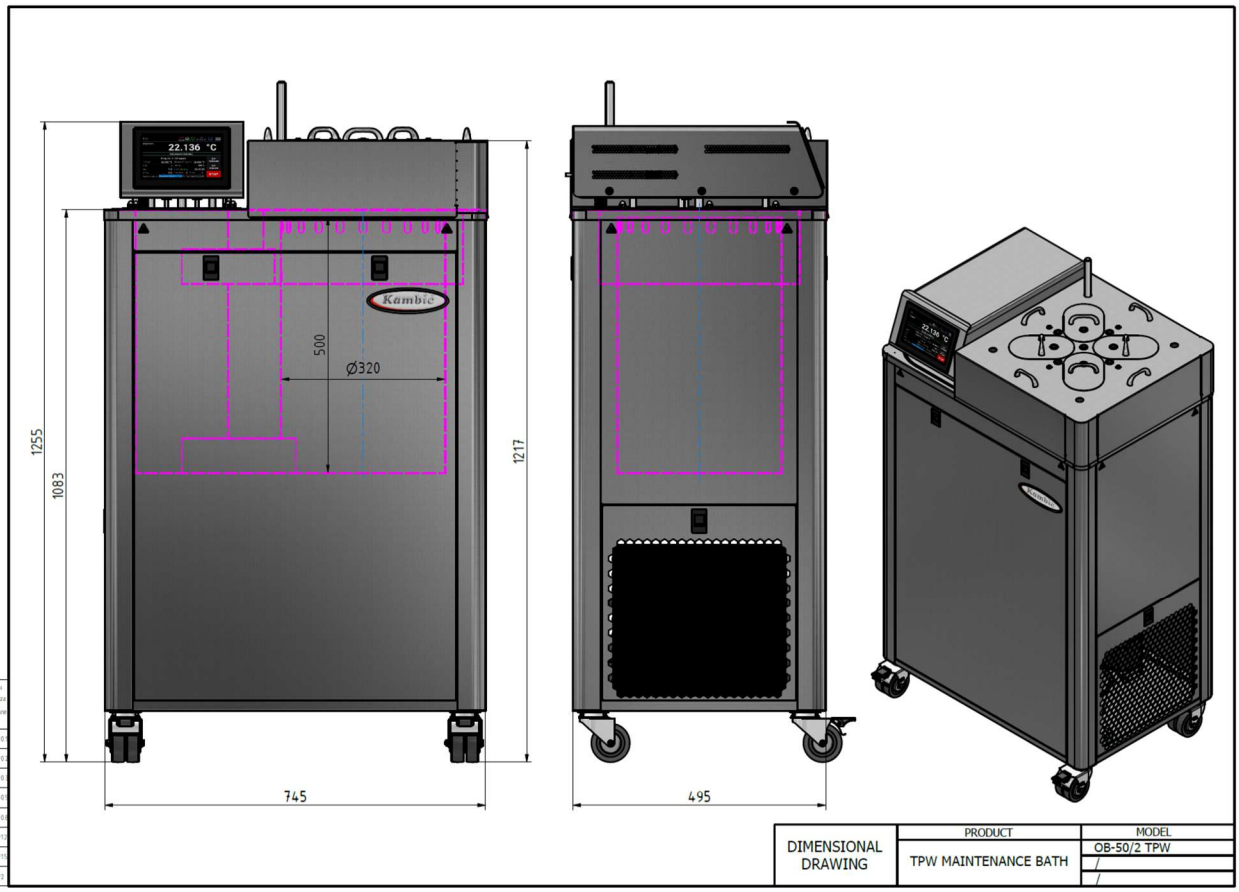
Ordering information and accessories:

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
Evaluation report – performed by Kambic	1719
Evaluation report (accredited ISO/IEC 17025:2017)	1777
Silicone oil fluid KDC 200.05 (- 40 °C …+130 °C)	645
Removable shelve	1658

**Accessories might affect performance!*



DIMENSIONAL DRAWING	PRODUCT	MODEL
	TPW MAINTENANCE BATH	OB-22/2 TPW



DIMENSIONAL DRAWING	PRODUCT	MODEL
	TPW MAINTENANCE BATH	OB-50/2 TPW

Kambič d.o.o. Metliška cesta 16, SI-8333 Semič, Slovenia - EU,
T: +386 (0)7 35 65 220, info@kambic.com, info@kambicmetrology.com
www.kambic.com, www.kambicmetrology.com