

CALIBRATION BATHS

(- 40 °C ...+ 130 °C)

Model:

OB-7/2 LT

OB-22/2 LT

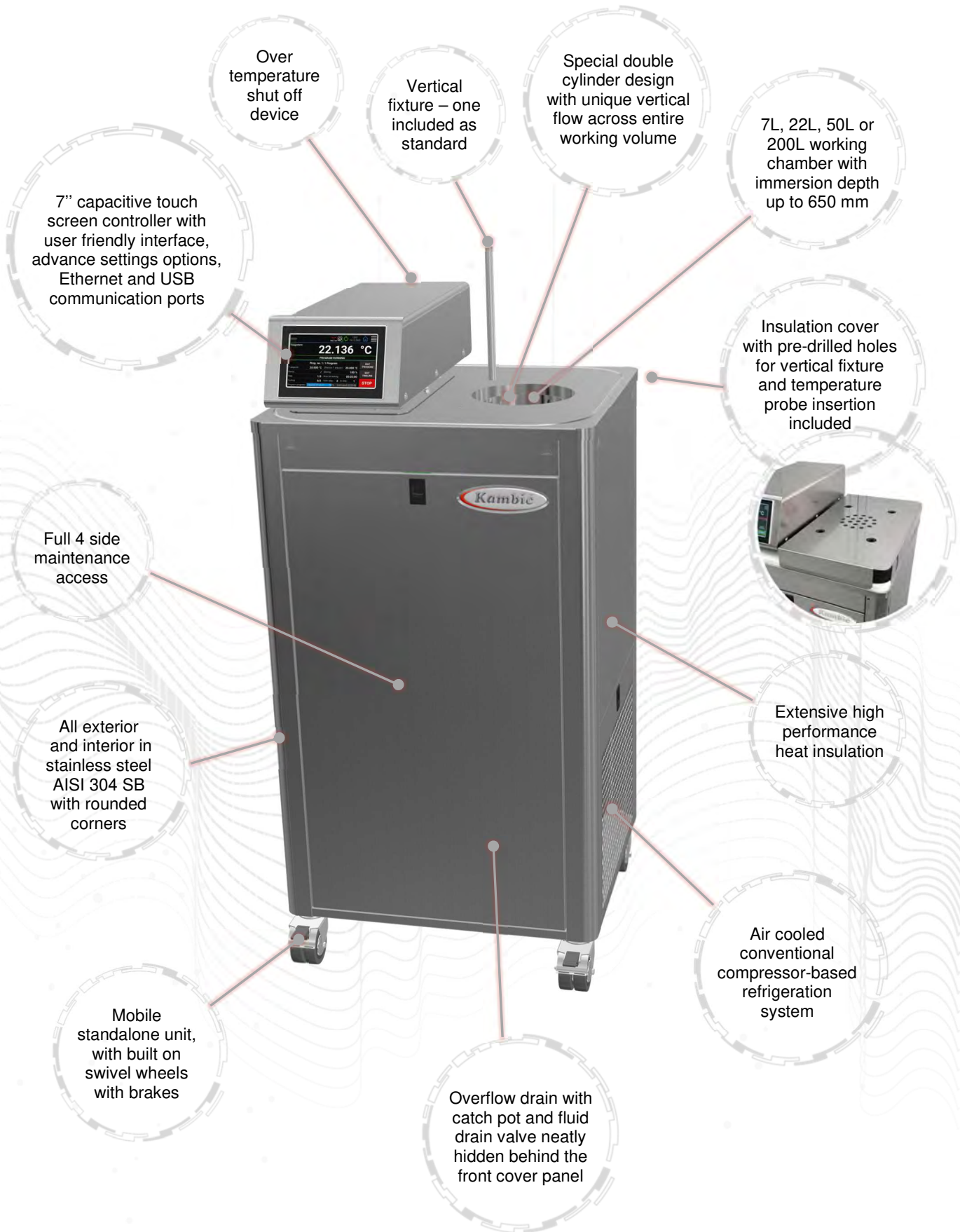
OB-50/2 LT

OB-200/2 LT

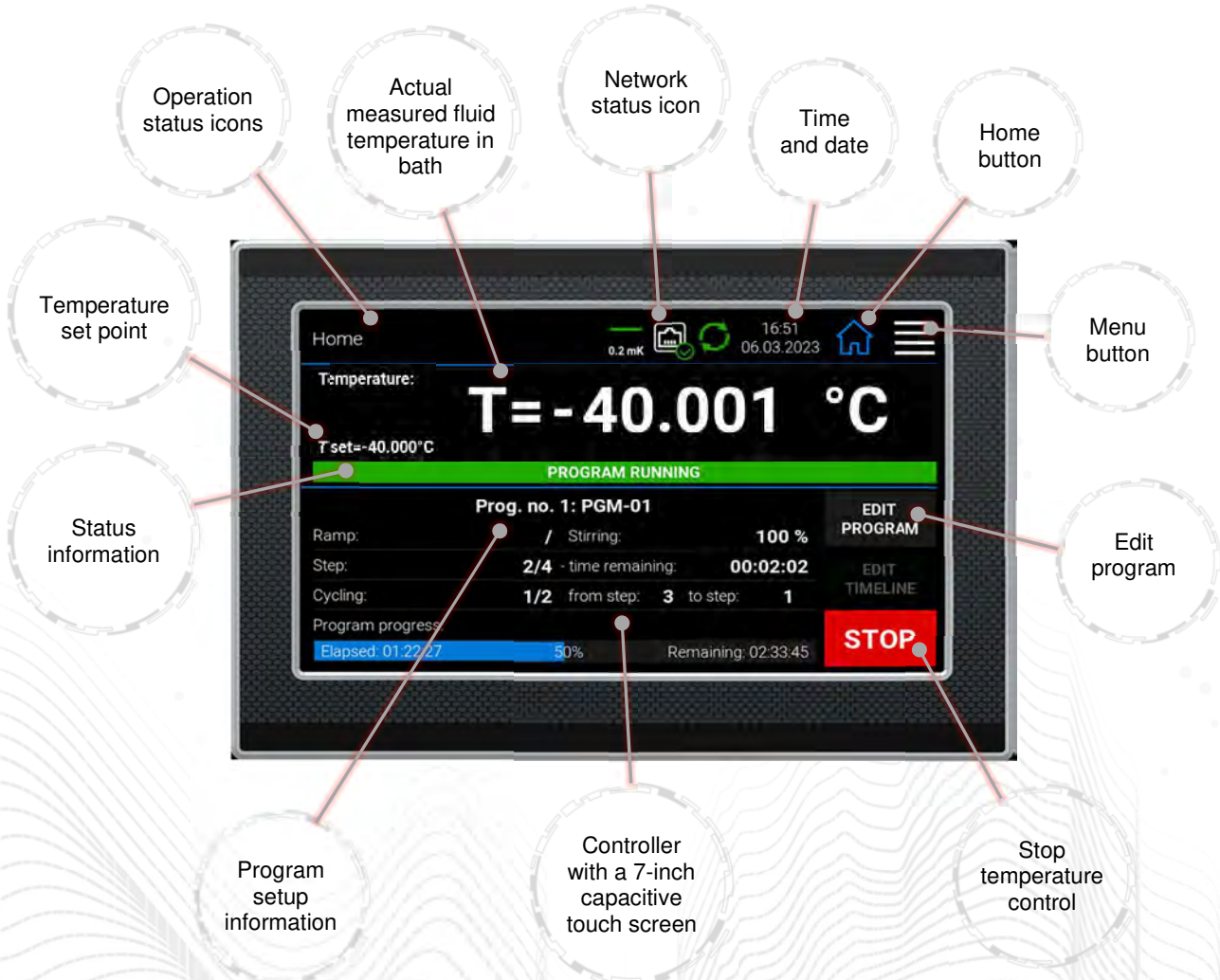
- Low temperature calibration baths - metrology performance
 - Uniformity and stability in mK range
 - Calibrate sensors of any dimension
 - Fluid ensures perfect heat transfer
 - Up to 650 mm immersion depth
 - Unique vertical flow design
 - State of the art solution
 - Four bath sizes



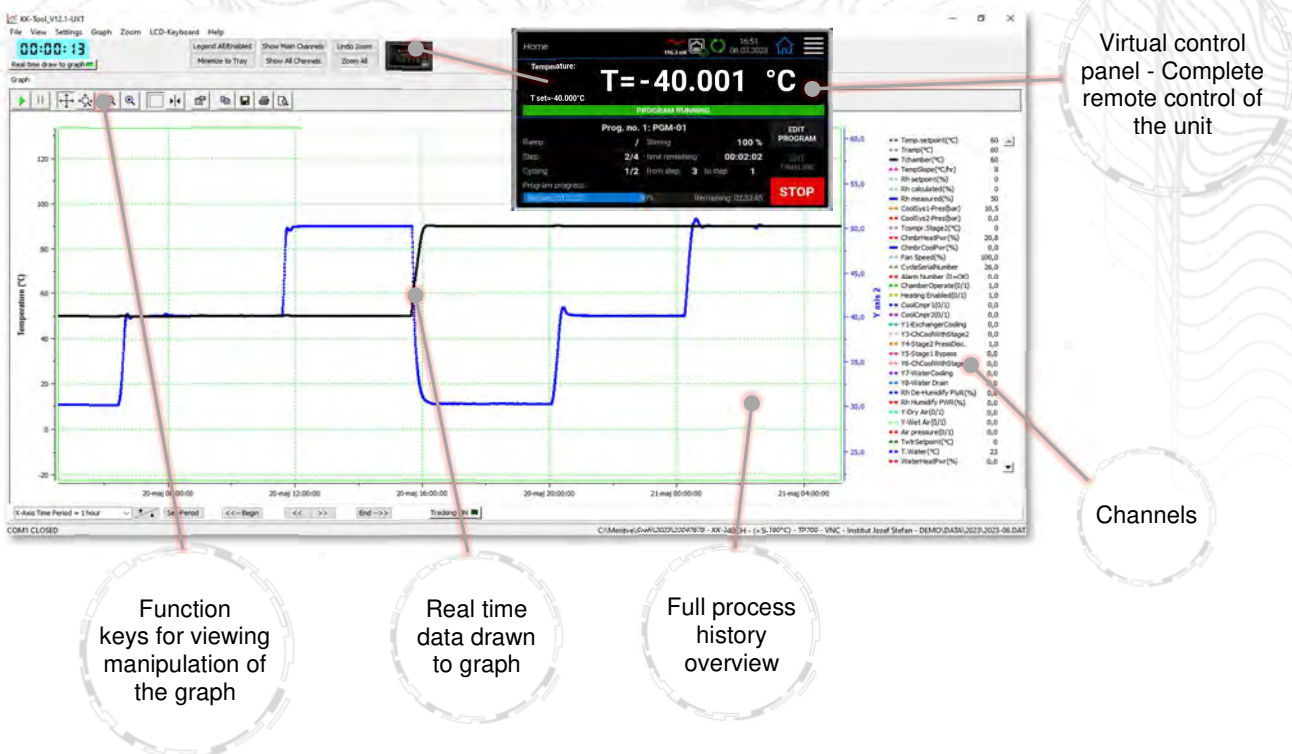
Device description:





Touch display with advanced controller functions:



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





Technical data:

	OB-7/2 LT	OB-22/2 LT
		
External dimensions (WxHxD) [mm]	484 x 1134 x 474	604 x 1231 x 554
Internal dimensions (diameter x immersion depth) [mm]	Ø 100 x 270	Ø 147 x 500
Volume [L]	~ 7	~ 22
Fluid quantity for operation [L]	10	25
Temperature range [°C]	- 40 ...+ 130	- 40 ...+ 130
Temperature display resolution [°C]	0.001	0.001
Temperature set resolution [°C]	0.001	0.001
Temperature stability [°C]	± 0.004 @ - 40 °C ± 0.005 @ 20 °C ± 0.002 @ 100 °C	± 0.004 @ - 40 °C ± 0.005 @ 20 °C ± 0.002 @ 100 °C
Temperature uniformity [°C]	< ± 0.007 @ - 40 °C	< ± 0.007 @ - 40 °C
Heating rate	~ 0,5 hour (+ 20 °C ...+ 100 °C)	~ 1 hour (+ 20 °C ...+ 100 °C)
Cooling rate	~ 1 hour (+ 20 °C ...- 40 °C)	~ 2 hours (+ 20 °C ...- 40 °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]	2000	3200
Interface	Ethernet, USB	Ethernet, USB
Weight [kg]	~ 85	~ 100

*All performance data with fluid KDC 200.05

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

*Accessories might affect performance!

	OB-50/2 LT	OB-200/2 LT
		
External dimensions (WxHxD) [mm]	749 x 1255 x 499	1264 x 1476 x 994
Internal dimensions (diameter x immersion depth) [mm]	Ø 320 x 500	Ø 600 x 650
Volume [L]	~ 50	~ 200
Fluid quantity for operation [L]	65	260
Temperature range [°C]	- 40 ...+130	- 40 ...+130
Temperature display resolution [°C]	0.001	0.001
Temperature set resolution [°C]	0.001	0.001
Temperature stability [°C]	± 0.004 @ - 40 °C ± 0.005 @ 20 °C ± 0.002 @ 100 °C	± 0.004 @ - 40 °C ± 0.005 @ 20 °C ± 0.002 @ 100 °C
Temperature uniformity [°C]	< ± 0.007 @ - 40 °C	< ± 0.007 @ - 40 °C
Heating rate	~ 78 min (+ 20 °C ...+ 100 °C)	~ 200 min (+ 20 °C ...+ 100 °C)
Cooling rate	~ 365 min (+ 20 °C ...- 40 °C)	~ 600 min (+ 20 °C ...- 40 °C)
Temperature Control	PID	PID
Noise level [dBA]	< 58	< 68 dBA
Cooling	Compressor Cooling System	Compressor Cooling System
Power supply	230 V 50/60 HZ (± 10 %)	3x400 V 50/60 HZ (± 10 %)
Wattage [W]	3200	7000
Interface	Ethernet, USB	Ethernet, USB
Weight [kg]	~ 130	~ 370

*All performance data with fluid KDC 200.05

*All performance in controlled environment ($T_{ambient} = 22 \text{ °C} \pm 3 \text{ °C}$)!

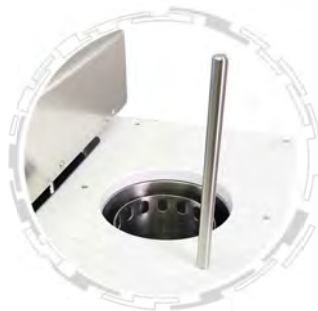
*Accessories might affect performance!

Accessories:

- LIG thermometer holder



- Vertical fixture



- Adjustable multiple probe fixture



- External fluid level for LIG



- Additional lid



- Removable 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
Calibration bath OB-200/2 LT	2972
Evaluation report – performed by Kambic	1719
Evaluation report (accredited ISO/IEC 17025:2017)	2997
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
Removable 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
Extra lid for OB-200/2 LT	812
Silicone oil fluid KDC 200.05 (- 40 °C ...+130 °C)	645

**Accessories might affect performance!*

