



CALIBRATION BATHS

(- 100 °C ...+ 130 °C)

Model:

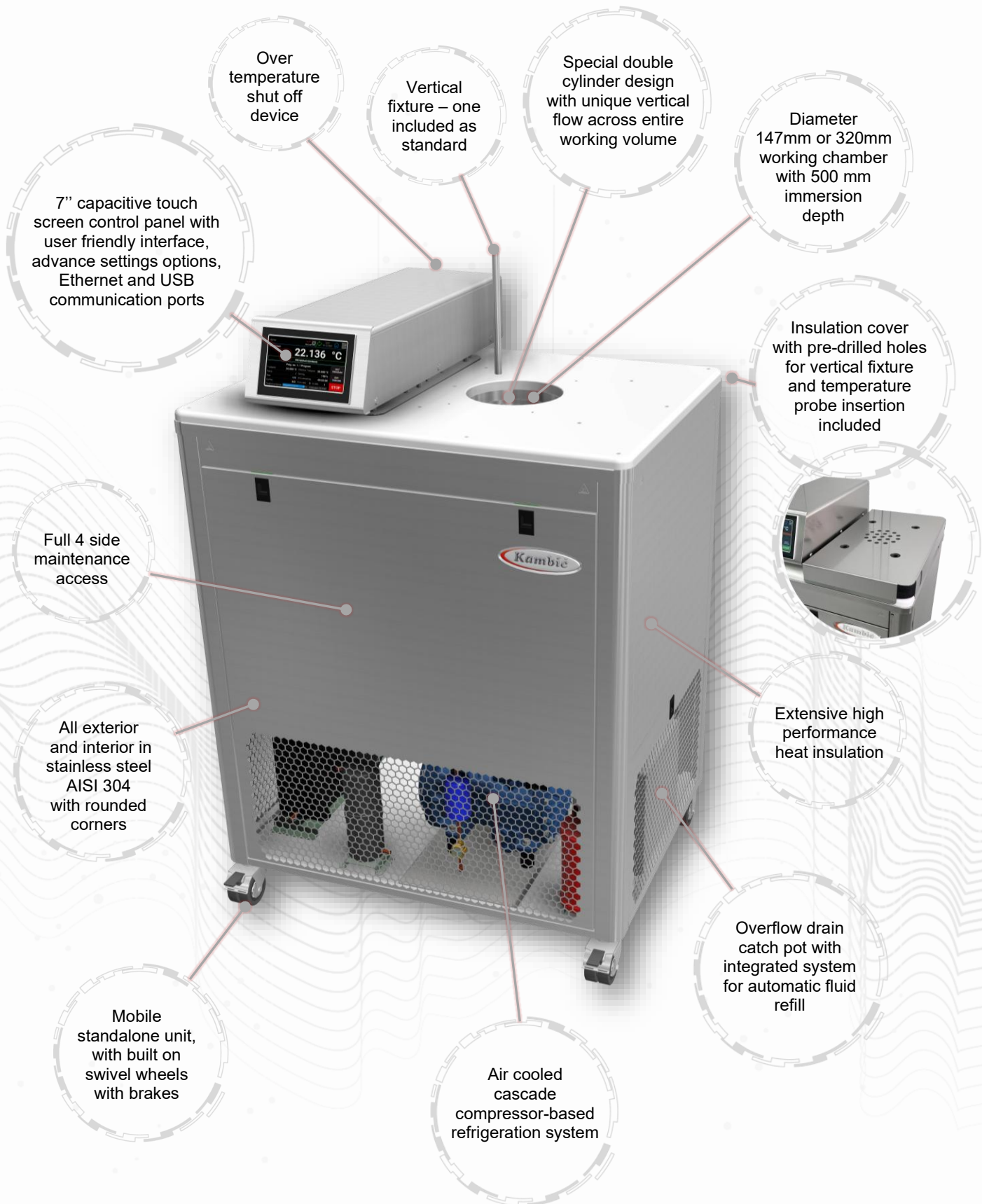
OB-22/2 E ULT

OB-50/2 E ULT

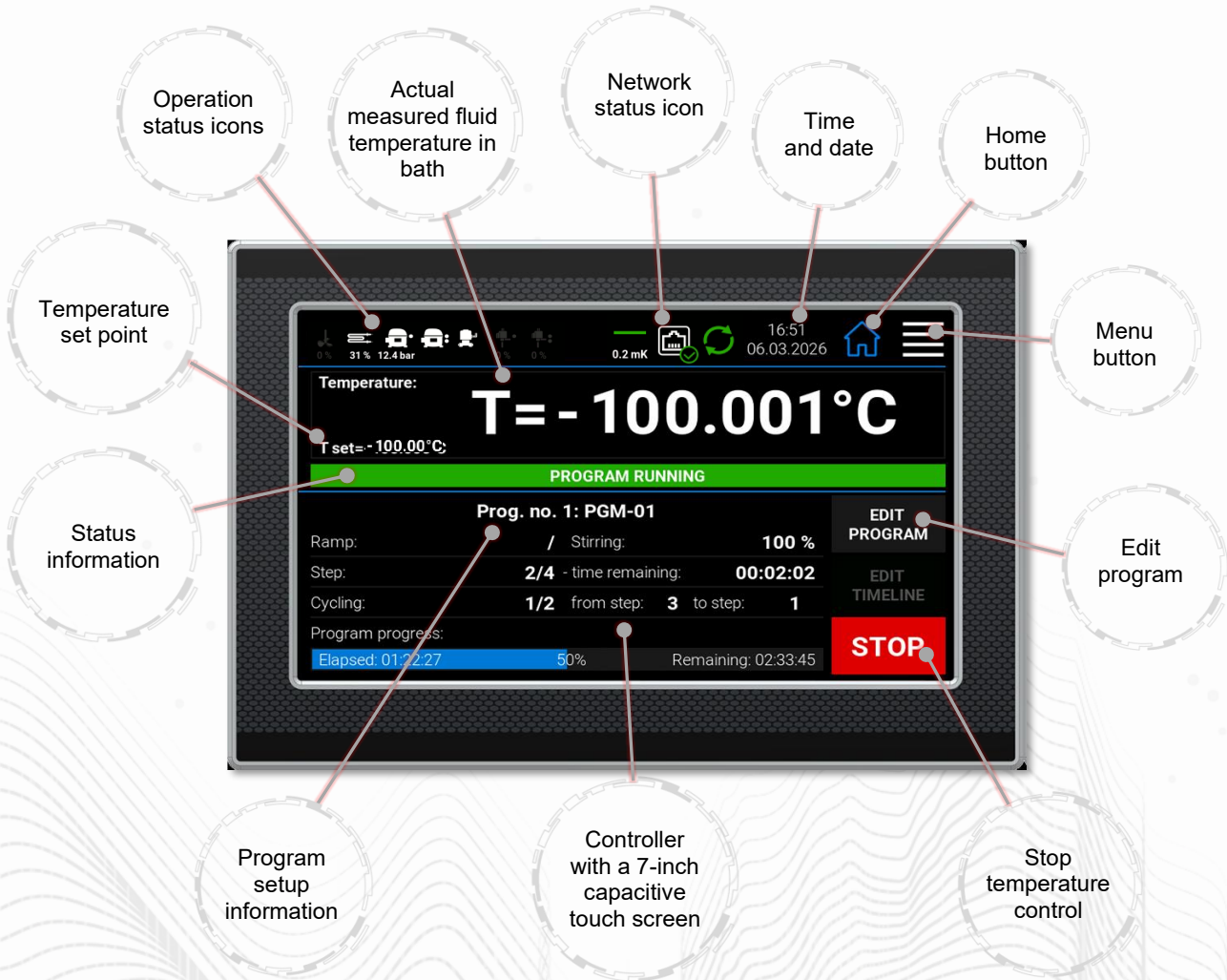
- Extreme-ultra-low temperature calibration baths - metrology performance
 - Uniformity and stability in mK range
 - Calibrate sensors of any dimension
 - Fluid ensures perfect heat transfer
 - Unique vertical flow design
 - 500 mm immersion depth
 - State of the art solution



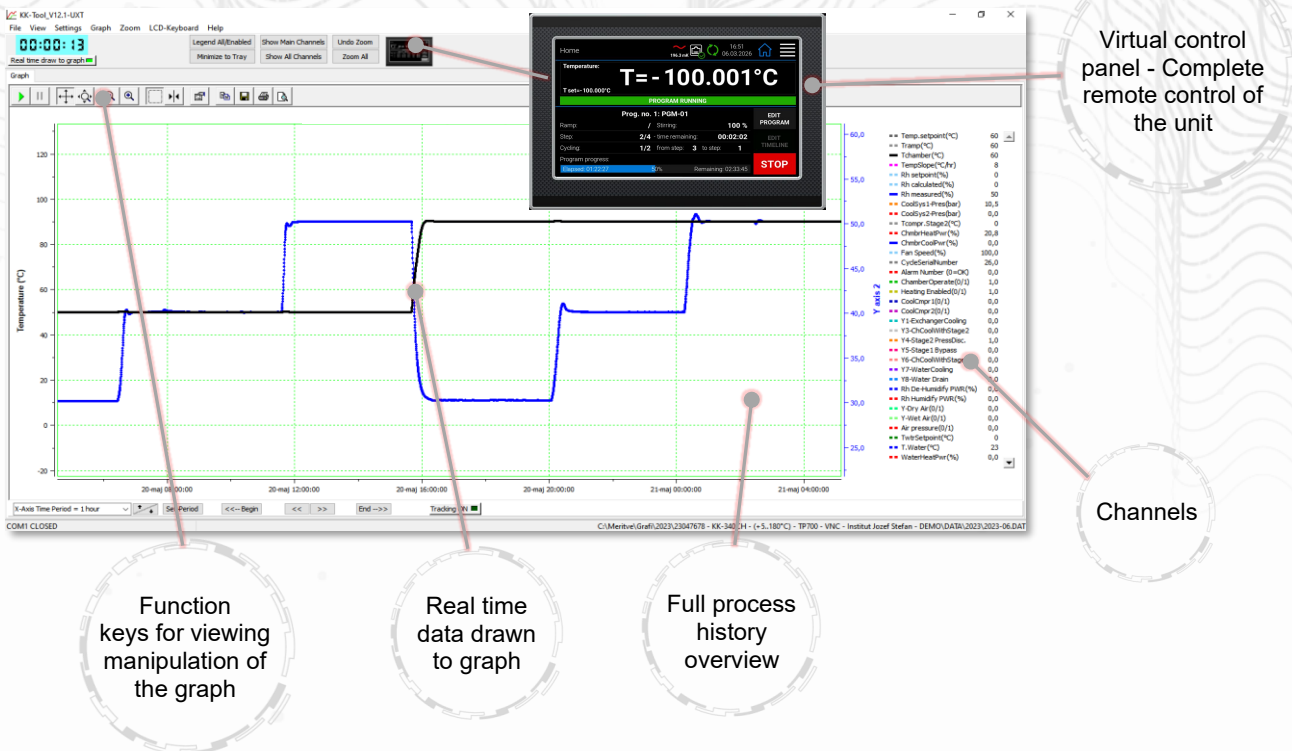
Device description:





Touch display with advanced controller functions:



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



Technical data:

	OB-22/2 E ULT	OB-50/2 E ULT
		
External dimensions (WxHxD) [mm]	900 x 1275 x 690	900 x 1275 x 690
Internal dimensions (diameter x immersion depth) [mm]	Ø 147 x 500	Ø 320 x 500
Volume [L]	~ 22	~ 50
Fluid quantity for operation [L]	30	70
Temperature range [°C]	- 100 ...+ 130	- 100 ...+ 130
Temperature display resolution [°C]	0.001	0.001
Temperature set resolution [°C]	0.001	0.001
Temperature stability [°C]	± 0.005 @ - 100 °C ± 0.005 @ - 90 °C ± 0.005 @ + 20 °C ± 0.002 @ + 50 °C	± 0.005 @ - 100 °C ± 0.005 @ - 90 °C ± 0.005 @ + 20 °C ± 0.002 @ + 50 °C
Temperature uniformity [°C]	± 0.007 @ - 100 °C	± 0.007 @ - 100 °C
Heating rate	~ 100 min (- 100 °C ...+ 20 °C)	~ 150 min (- 100 °C ...+ 20 °C)
Cooling rate	~ 200 min (+ 20 °C ...- 100°C)	~ 6 hours (+ 20 °C ...- 100°C)
Temperature Control	PID	PID
Noise level [dBA]	< 68	< 68
Cooling	Cascade compressor-based refrigeration system	Cascade compressor-based refrigeration system
Power supply	3x400V / 22A / 50/60 HZ (± 10 %)	3x400V / 24A / 50/60 HZ (± 10 %)
Wattage [W]	10700	11000
Interface	Ethernet, USB	Ethernet, USB
Weight [kg]	~ 255	~ 285

**All performance data with fluid KDC-ULT*

**All performance in controlled environment ($T_{ambient} = 21 \text{ °C} \pm 3 \text{ °C}$)!*

**Accessories might affect performance!*

Accessories:

- LIG thermometer holder



- Vertical fixture



- Adjustable multiple probe fixture



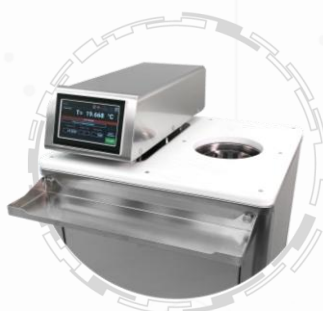
- External fluid level for LIG



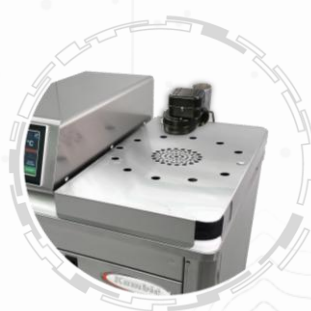
- Additional lid



- Removable shelf



- Fume hood



- Evaluation report



Ordering information and accessories:

Description	Part no.
Calibration bath OB-22/2 E ULT	1358
Calibration bath OB-50/2 E ULT	1243
Evaluation report – performed by Kambič	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
Silicone oil fluid KDC ULT (- 100 °C ...+ 30 °C)	700

**Accessories might affect performance!*

