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

GWP BELOW 150!

Temperature

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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

7L, 22L, 50L or 200L working chamber with immersion depth up to 650 mm

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

Insulation cover with pre-drilled holes for vertical fixture and temperature probe insertion included

Full 4 side maintenance access

All exterior and interior in stainless steel AISI 304 SB with rounded corners

Extensive high performance heat insulation

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

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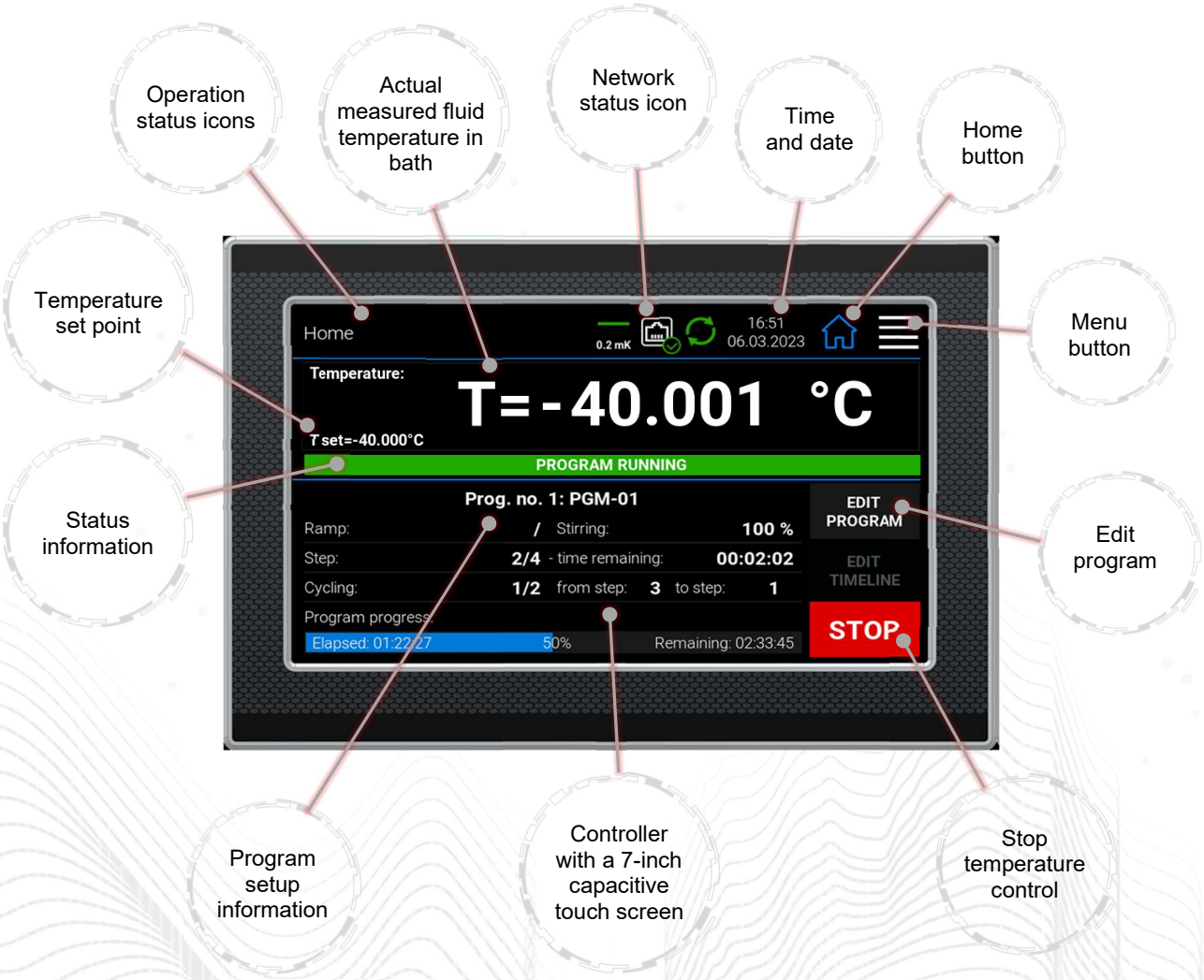
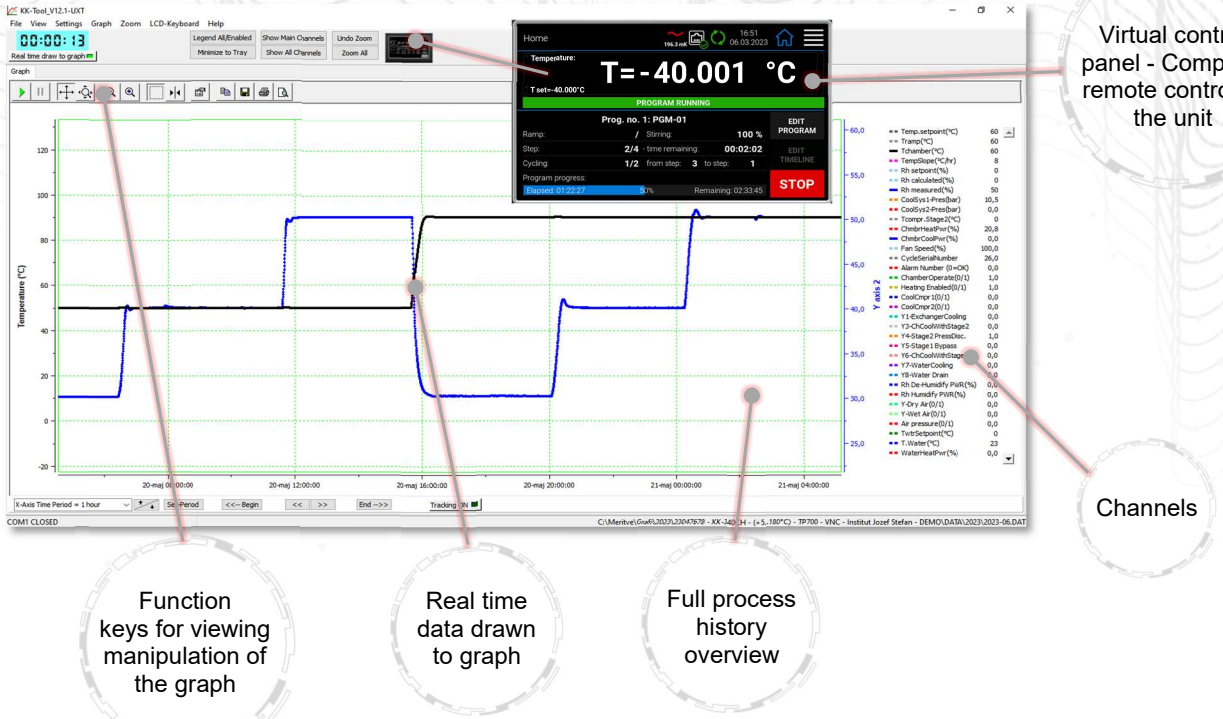
Touch display with advanced controller functions:



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



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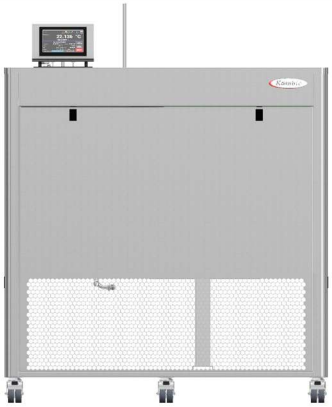
Technical data:

	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 (Tambient = 22 °C ± 3 °C)!*

**Accessories might affect performance!*

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Accessories:

- LIG thermometer holder

- Vertical fixture

- Adjustable multiple probe fixture

- External fluid level for LIG

- Additional lid

- Removable 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
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 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
Extra lid for OB-200/2 LT	812
Silicone oil fluid KDC 200.05 (- 40 °C ...+130 °C)	645

**Accessories might affect performance!*

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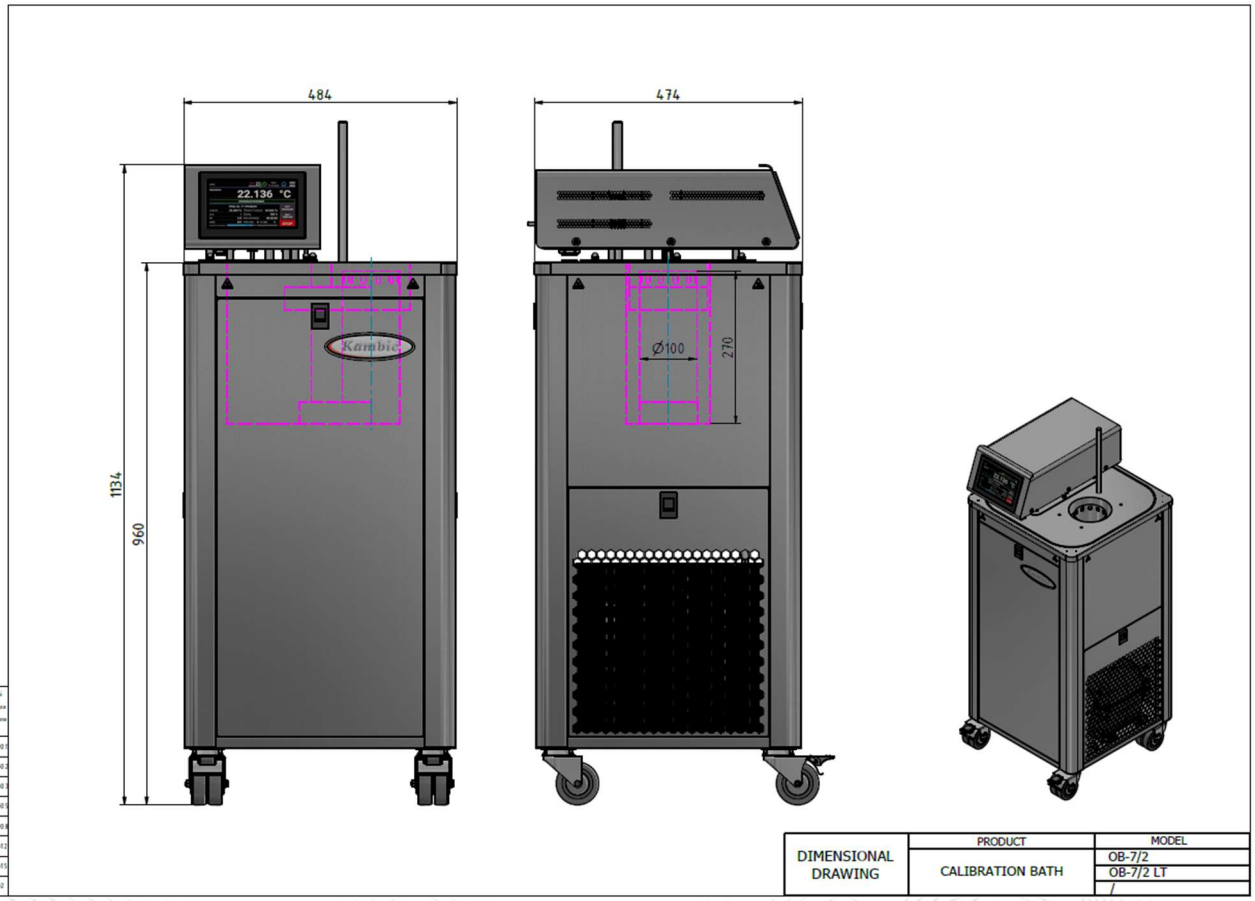

Dopustno odstopanje za netolerirane mere	
do 6	±0,1
nad 6 do 30	±0,2
nad 30 do 100	±0,3
nad 100 do 300	±0,5
nad 300 do 1000	±0,8
nad 1000 do 2000	±1,2
nad 2000 do 4000	±1,5
nad 4000	±2

DIMENSIONAL DRAWING	PRODUCT	MODEL
	CALIBRATION BATH	OB-7/2
		OB-7/2 LT
		/

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do 6	±0,1
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nad 30 do 100	±0,3
nad 100 do 300	±0,5
nad 300 do 1000	±0,8
nad 1000 do 2000	±1,2
nad 2000 do 4000	±1,5
nad 4000	±2

DIMENSIONAL DRAWING	PRODUCT	MODEL
	CALIBRATION BATH	OB-22/2
		OB-22/2 LT
		/

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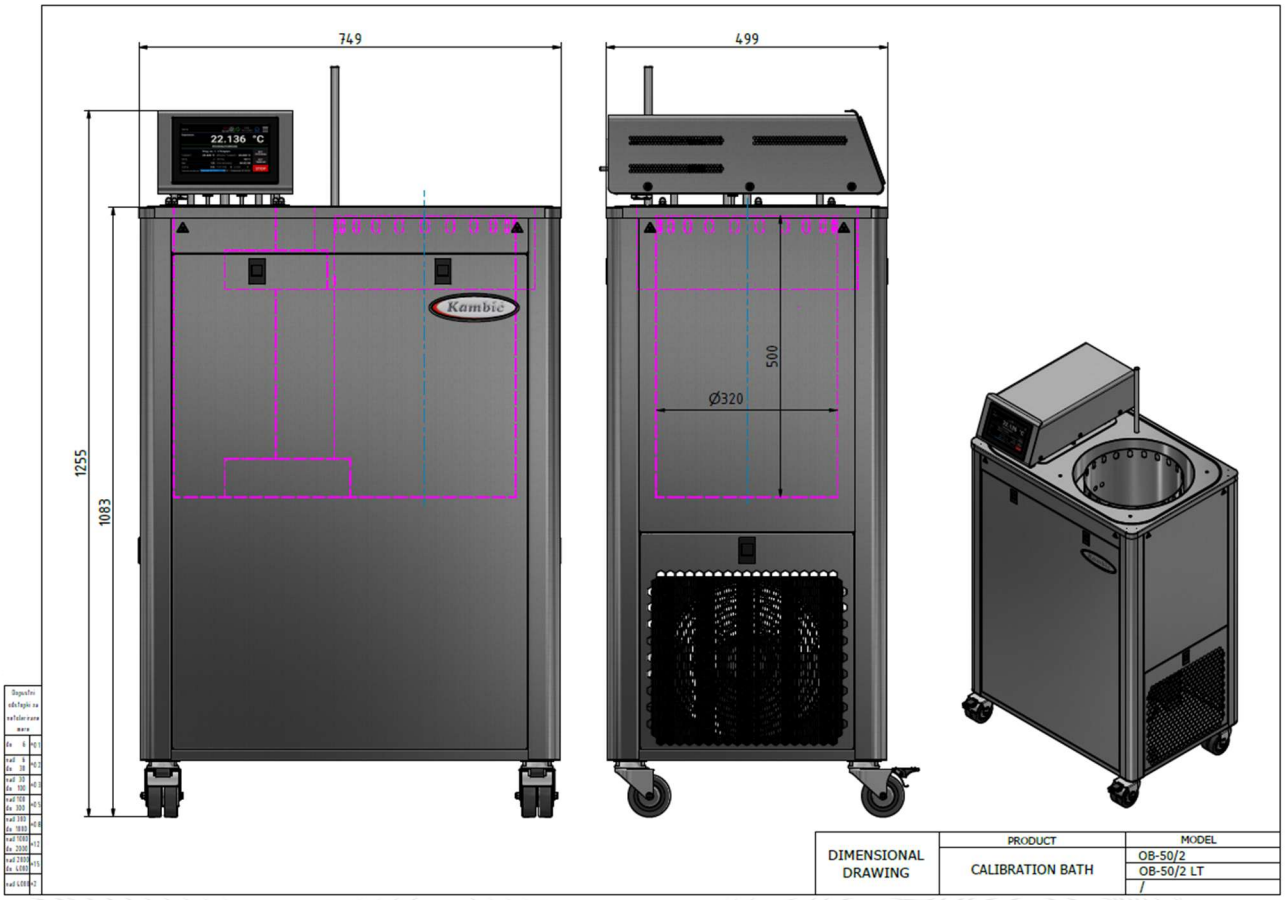
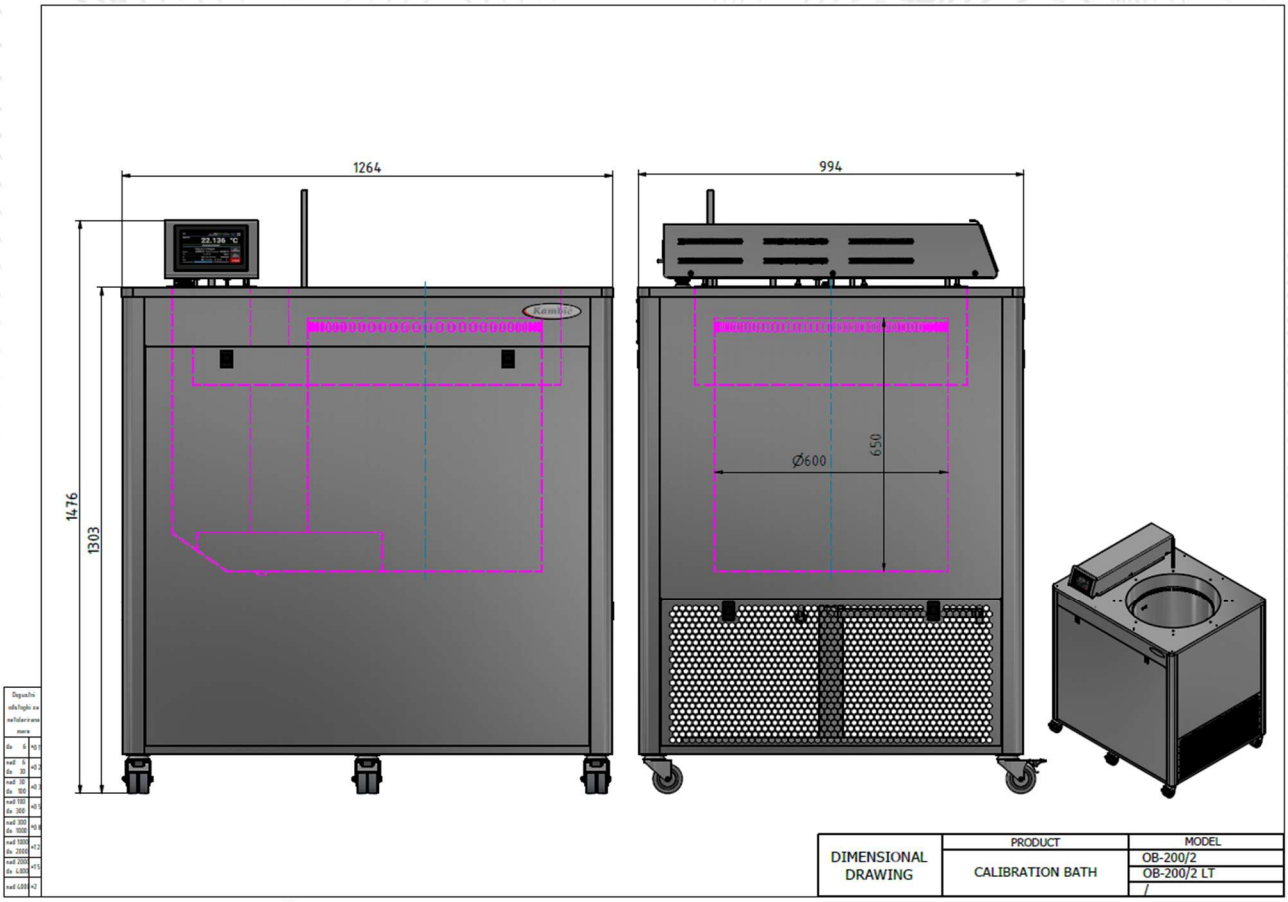


DIMENSIONAL DRAWING	PRODUCT	MODEL
	CALIBRATION BATH	OB-50/2
		OB-50/2 LT



DIMENSIONAL DRAWING	PRODUCT	MODEL
	CALIBRATION BATH	OB-200/2
		OB-200/2 LT

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