CALIBRATION BATHS

(+ 40 °C ...+ 250 °C)

Model:

OB-7/2

OB-22/2

OB-50/2

OB-200/2

- High temperature range - 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

Temperature

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Device description:

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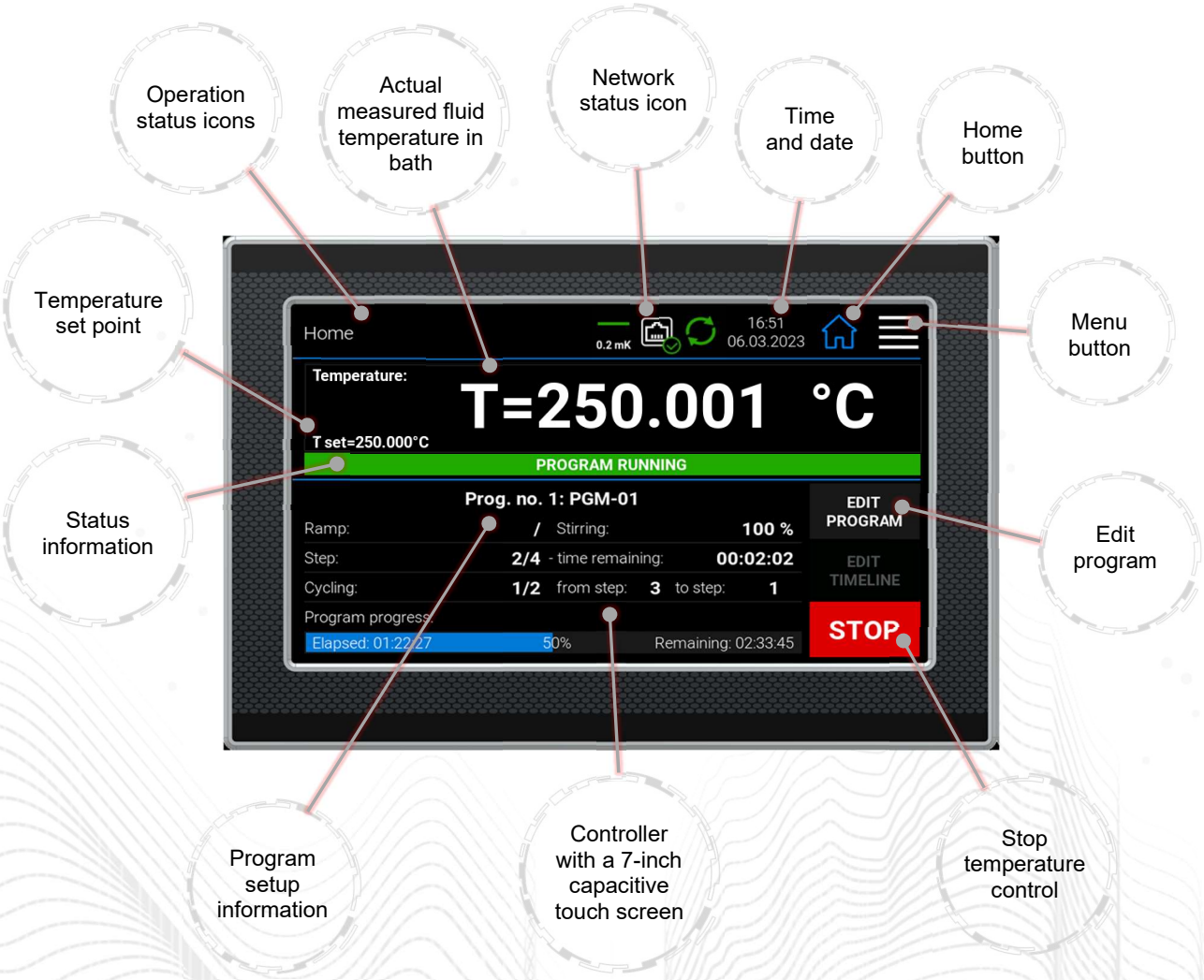
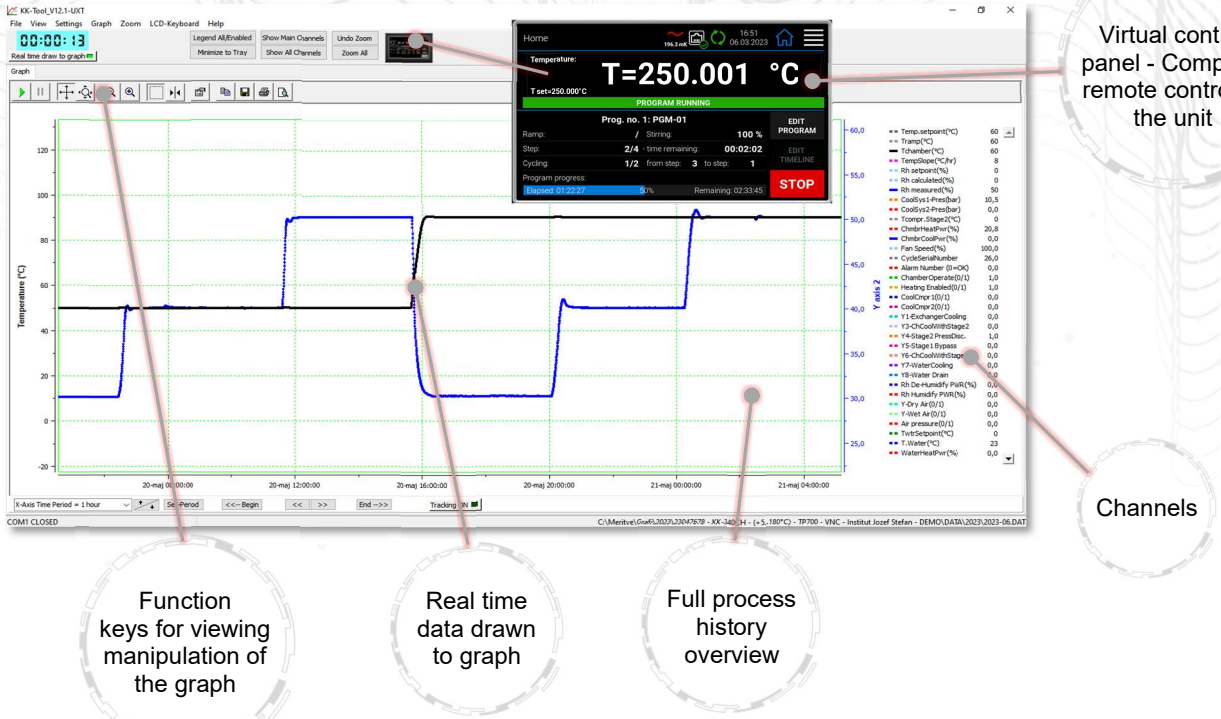
Touch display with advanced controller functions:



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



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Technical data:

	OB-7/2	OB-22/2
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 …+ 250	+ 40 …+ 250
Temperature display resolution [°C]	0.001	0.001
Temperature set resolution [°C]	0.001	0.001
Temperature stability [°C]	± 0.001 @ 50 °C ± 0.002 @ 100 °C ± 0.006 @ 250 °C	± 0.001 @ 50 °C ± 0.002 @ 100 °C ± 0.006 @ 250 °C
Temperature uniformity [°C]	< ± 0.007 @ 100 °C	< ± 0.007 @ 100 °C
Heating rate	~ 1 hour (+ 20 °C …+ 100 °C)	~ 1 hour (+ 20 °C …+ 100 °C)
Cooling rate	N/A	N/A
Temperature Control	PID	PID
Noise level [dBA]	< 58	< 58
Cooling (Built in cooling coil for external cooling)	N/A Natural	N/A Natural
Power supply	230 V 50/60 HZ (± 10 %)	230 V 50/60 HZ (± 10 %)
Wattage [W]	1200	2100
Interface	Ethernet, USB	Ethernet, USB
Weight [kg]	~ 54	~ 75

**All performance data with fluid KDC 200.50*

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

**Accessories might affect performance!*

**Optional extended temperature range: + 40 °C …+ 300 °C*

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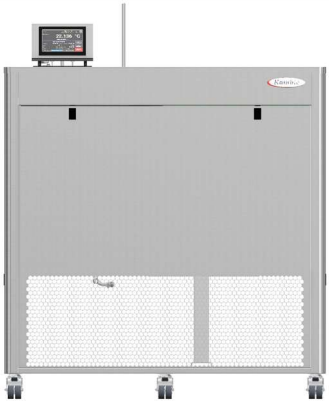
	OB-50/2	OB-200/2
		
External dimensions (WxHxD) [mm]	749 x 1255 x 499	1264 x 1476 x 994
Internal dimensions (diameter x immersion depth) [mm]	Ø 320 x 500	Ø 600 x 650
Volume [L]	~ 50	~ 200
Fluid quantity for operation [L]	65	260
Temperature range [°C]	+ 40 …+ 250	+ 40 …+ 250
Temperature display resolution [°C]	0.001	0.001
Temperature set resolution [°C]	0.001	0.001
Temperature stability [°C]	± 0.001 @ 50 °C ± 0.002 @ 100 °C ± 0.006 @ 250 °C	± 0.002 @ 50 °C ± 0.003 @ 100 °C ± 0.008 @ 250 °C
Temperature uniformity [°C]	< ± 0.007 @ 100 °C	< ± 0.007 @ 100 °C
Heating rate	~ 1,5 hours (+ 20 °C …+ 100 °C)	~ 2,5 hours (+ 20 °C …+ 100 °C)
Cooling rate	N/A	N/A
Temperature Control	PID	PID
Noise level [dBA]	< 58	< 68 dBA
Cooling (Built in cooling coil for external cooling)	N/A Natural	N/A Natural
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 200.50*

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

**Accessories might affect performance!*

**Optional extended temperature range: + 40 °C …+ 300 °C*

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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	1603
Calibration bath OB-22/2	1607
Calibration bath OB-50/2	1608
Calibration bath OB-200/2	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	1737
Extra lid for OB-22/2	1636
Extra lid for OB-50/2	2115
Extra lid for OB-200/2	812
Silicone oil fluid KDC 200.20 (+ 10 °C …+ 230 °C)	600
Silicone oil fluid KDC 200.50 (+ 30 °C ...+ 278 °C)	631
Silicone oil fluid KDC 710 (+ 80 °C ...+ 300 °C)	2782

**Accessories might affect performance!*

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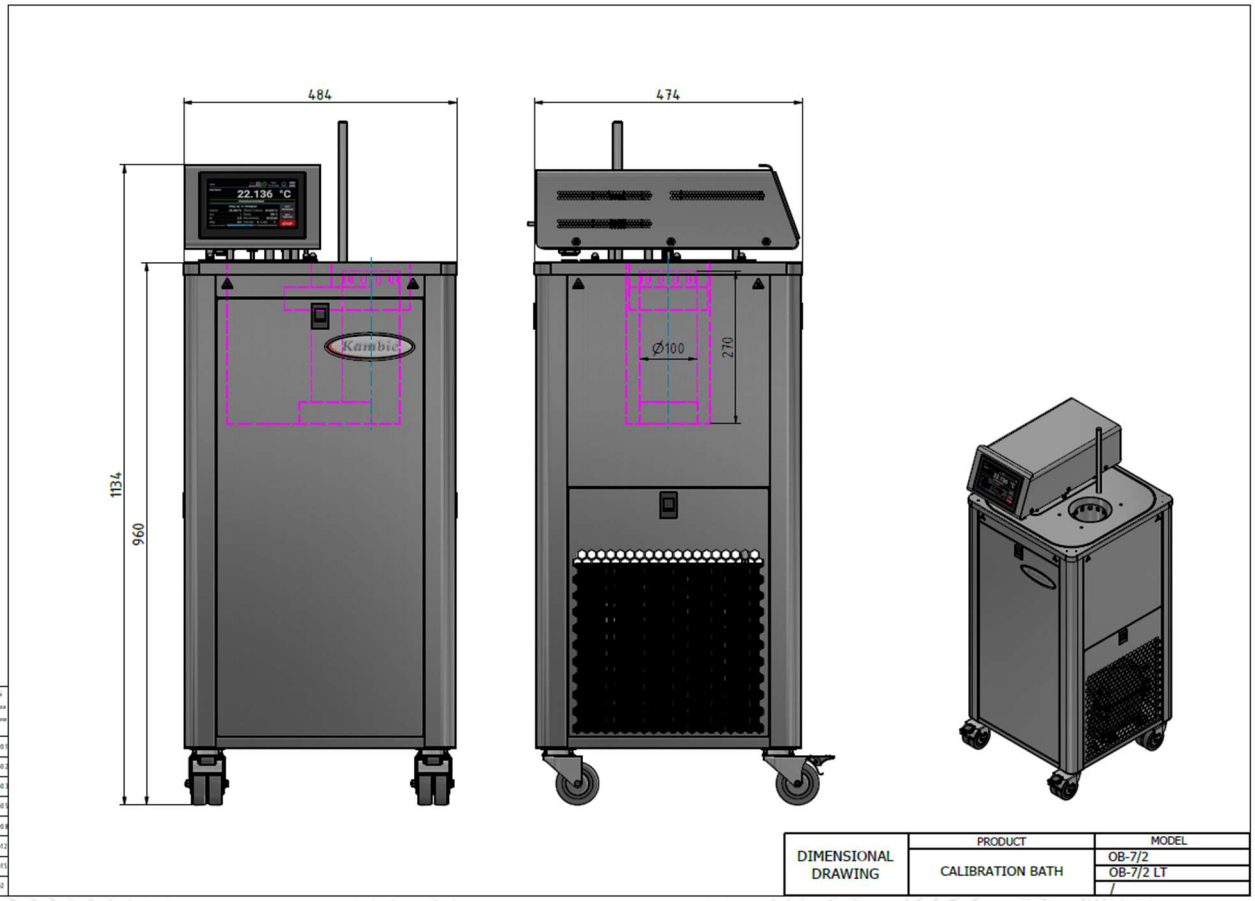

Dopustno odstopanje za netolerirane mere	
do 6	±0,1
nad 6 do 30	±0,2
nad 30 do 100	±0,3
nad 100 do 300	±0,5
nad 300 do 1000	±0,8
nad 1000 do 2000	±1,2
nad 2000 do 4000	±1,5
nad 4000	±2

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

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-22/2
		OB-22/2 LT
		/

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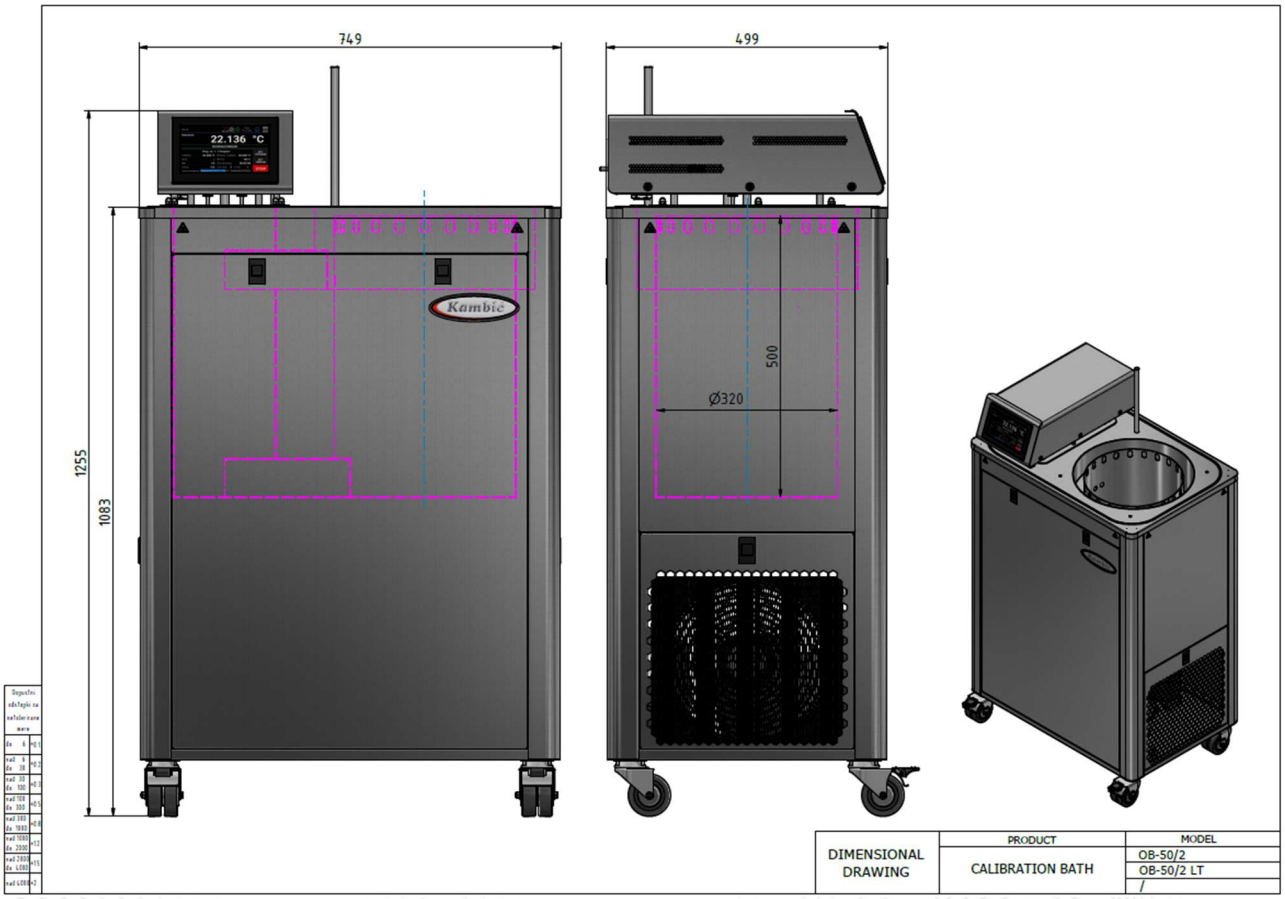
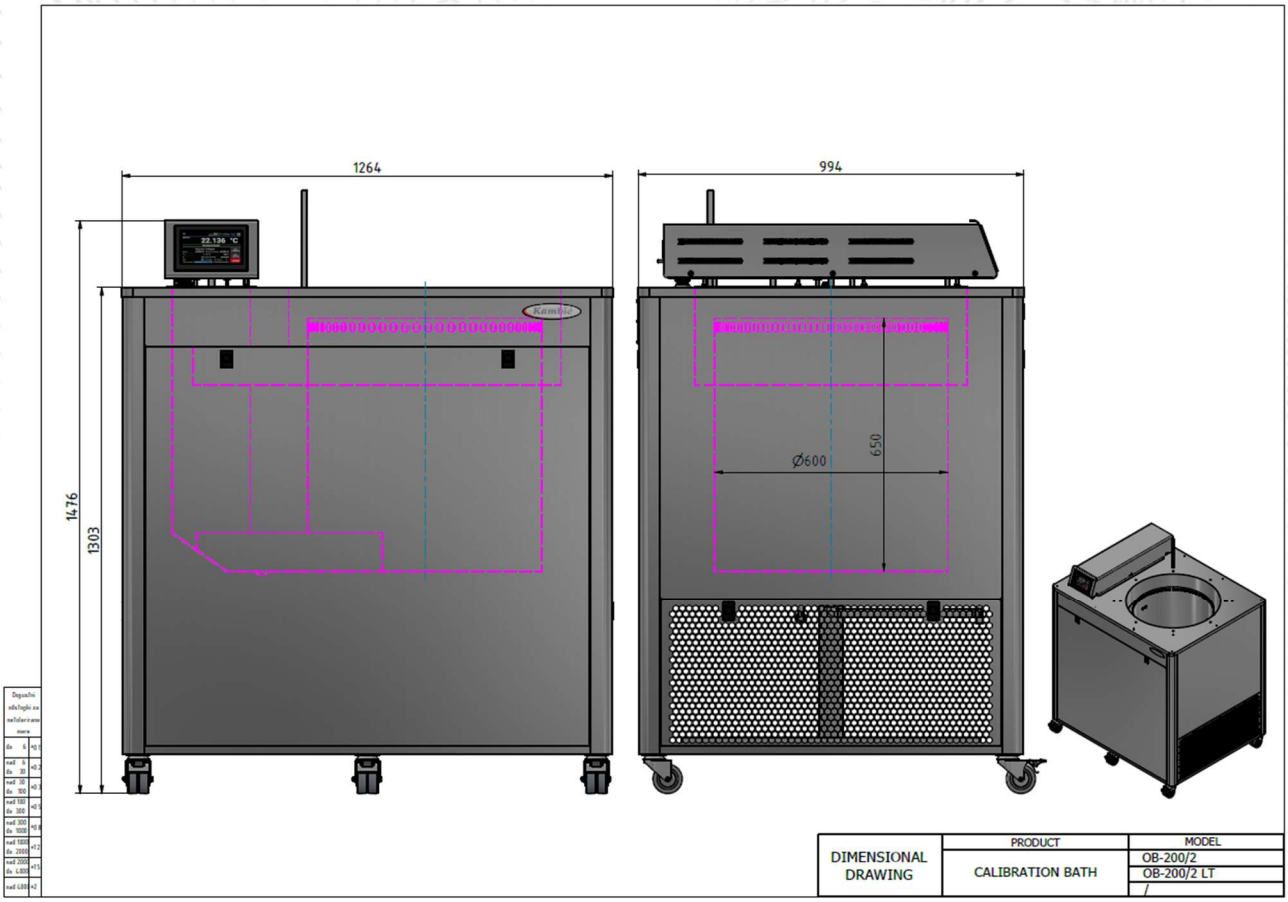


DIMENSIONAL DRAWING	PRODUCT	MODEL
	CALIBRATION BATH	OB-50/2
		OB-50/2 LT
		/



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