ULTRA-LOW TEMPERATURE CHAMBER

(- 90 °C ...+ 80 °C)

Model:

TK-190 ULT

- Material temperature resistance and product testing
- Maintaining superior temperature stability
- Sample conditioning prior to other tests
- Data loggers and sensors calibration
- Temperature controlled test polygon
- World class metrology performance
- Accelerated ageing
- Stress tests

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:

Fan for internal air circulation with speed control

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

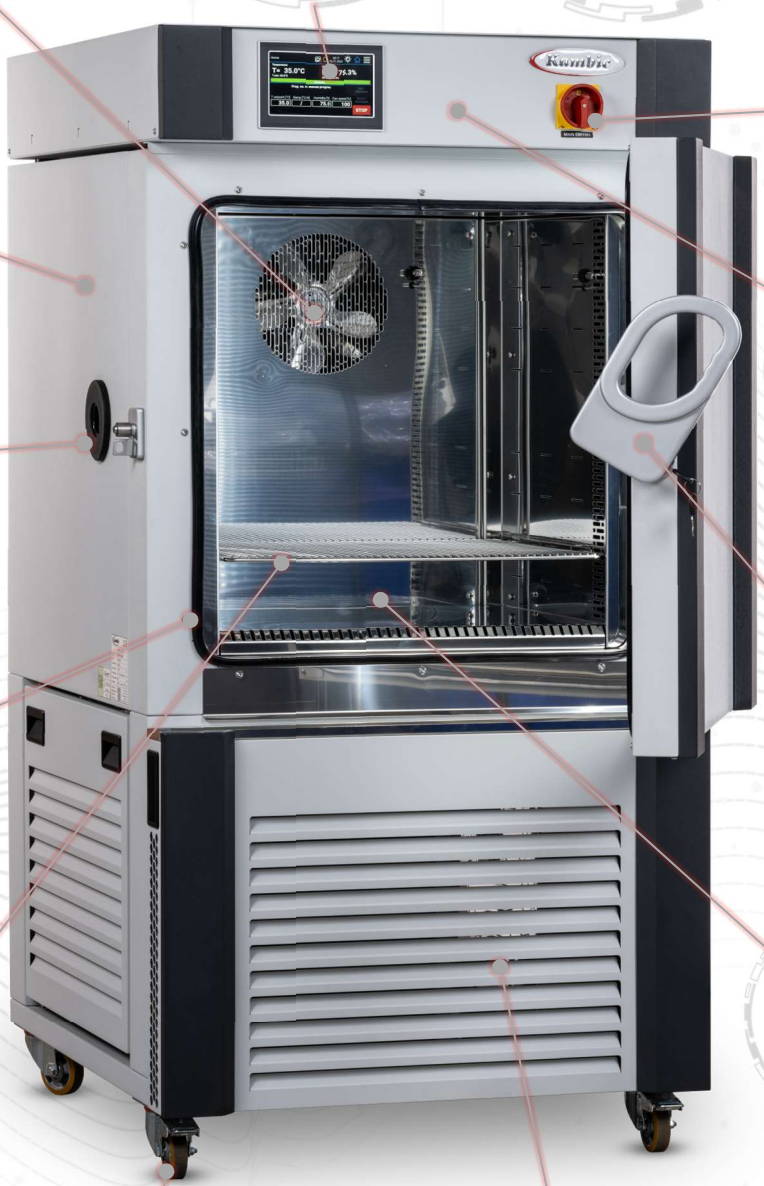
2 level over temp. protection:
1. 5°C over set point heating disabled
2. 10°C above max. temp mechanical shut off

Extensive heat insulation shield on all chamber sides and door

Main switch

Access port with both end plugs Ø50 mm (On left side)

All exterior in galvanized and powder coated aluminized steel



Heavy duty closing mechanism with key lock

Door sealed with double soft profile silicone seal to ensure perfect tightness

Fully stainless-steel interior chamber

Height Adjustable stainless steel wire shelves (1 pcs included)

Heavy duty swivel wheels with brake for simple manipulation

Full 4 side maintenance access to ref. system

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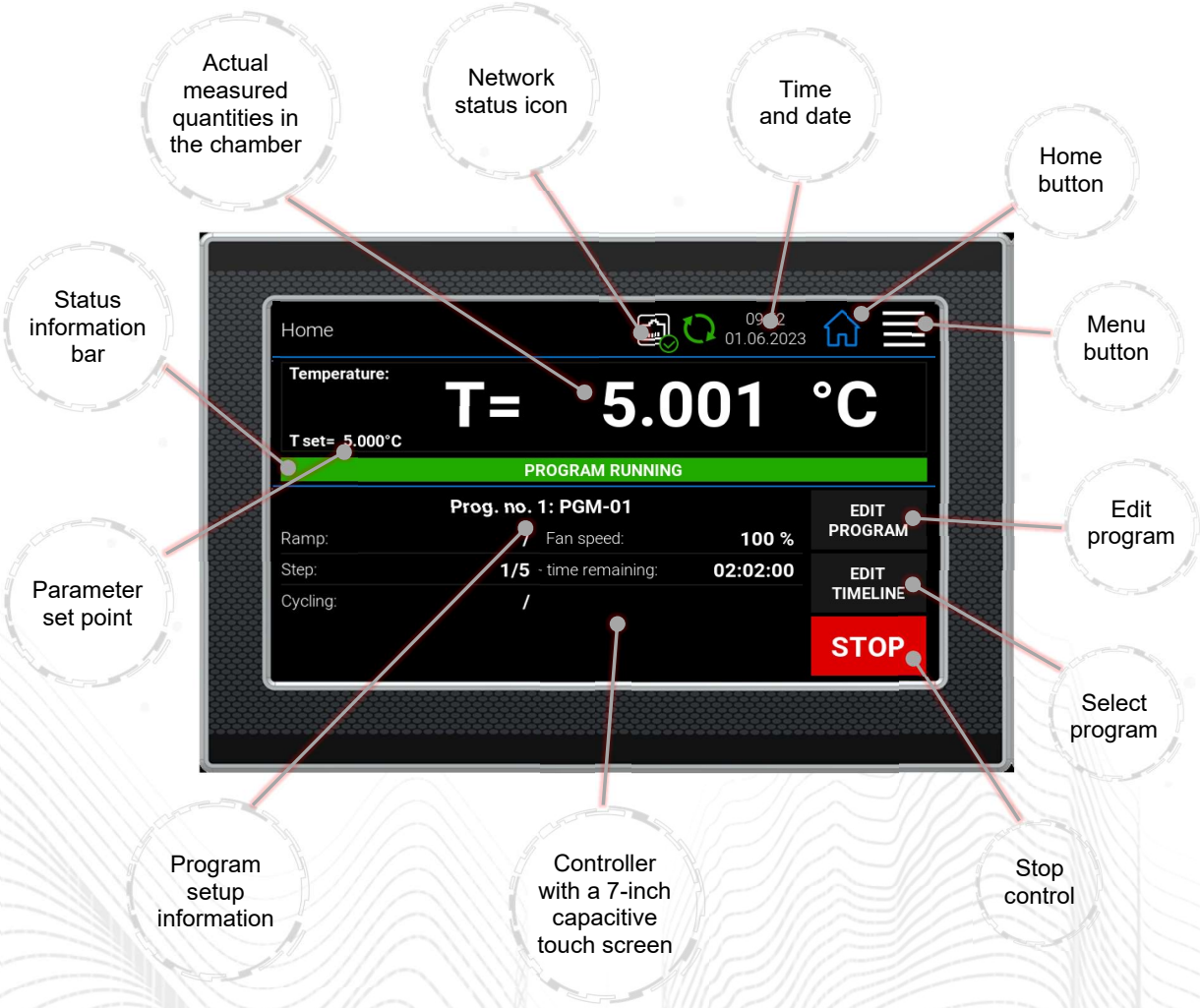
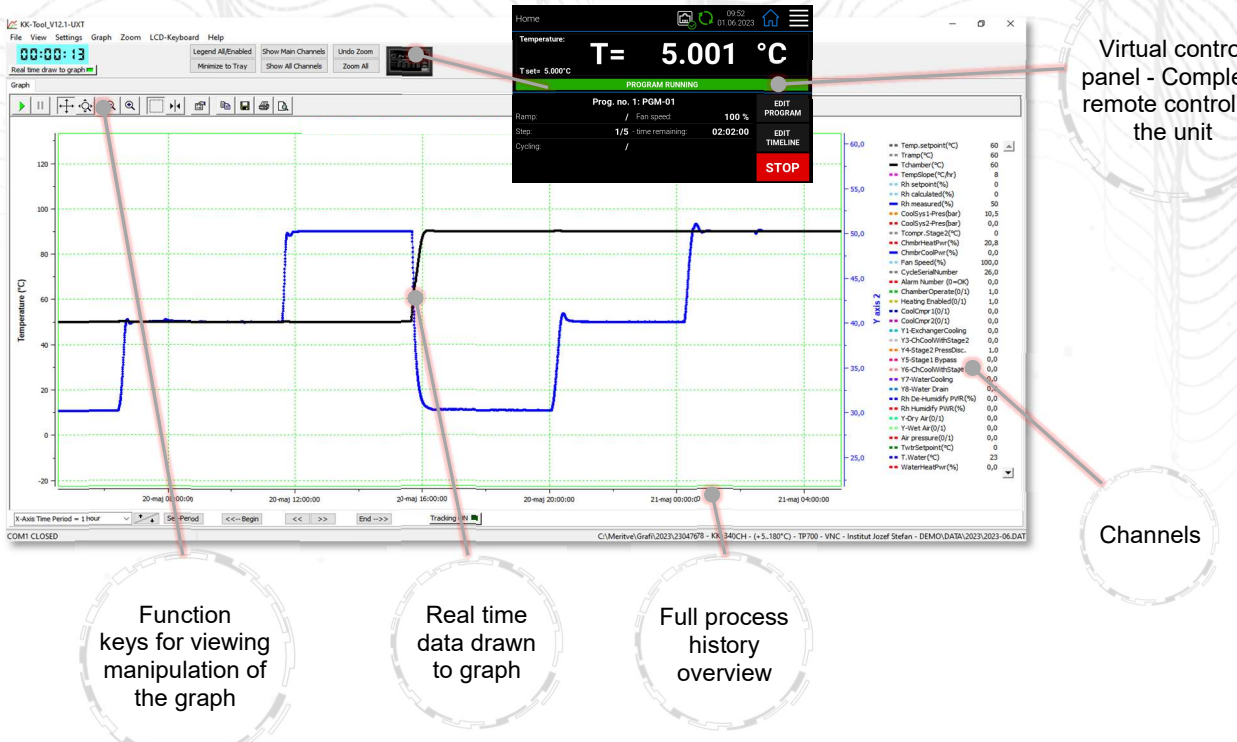
Touch display with advanced controller functions:



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



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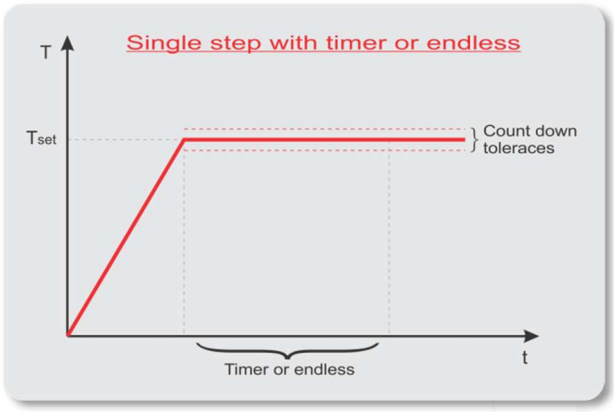
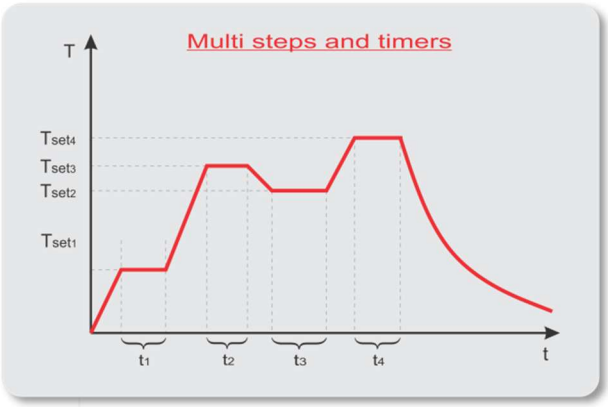
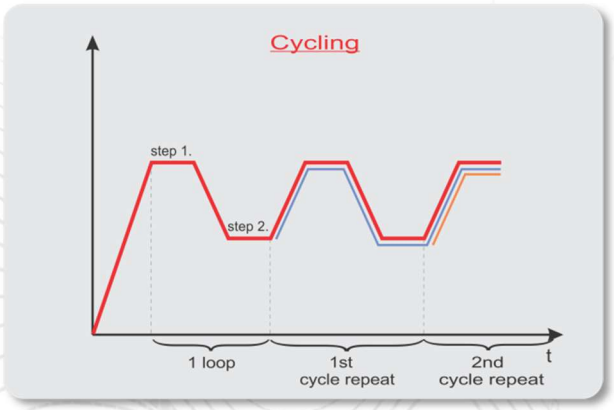
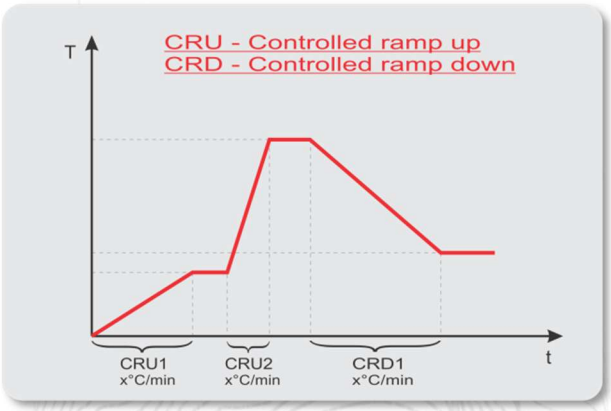
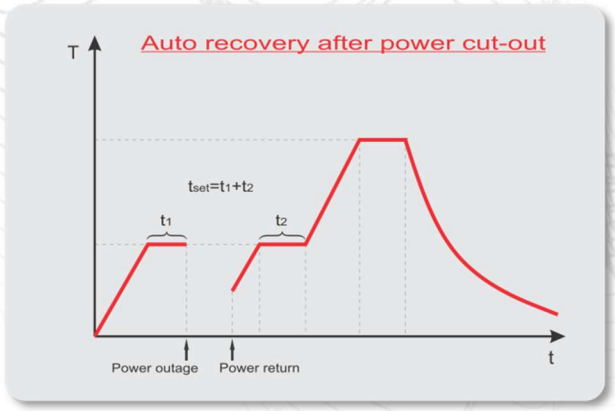
Controller functions:











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	TK-190 ULT
External dimensions (WxHxD) [mm]	835 x 1721 x 1188
Internal dimensions (WxHxD) [mm]	610 x 585 x 510
Volume [L]	~ 182
Temperature range [°C]	- 90 …+ 80
Heat up rate [°C/min] (according to EN 60068-3-5)	2,2
Cool down rate [°C/min] (according to EN 60068-3-5)	1,5
Temperature display res [°C]	0.1
Temperature set res. [°C]	0.1
Temperature stability [°C]	± 1,0 °C @ - 90 °C ± 0,2 °C @ - 40 °C ± 0,1 °C @ + 50 °C ± 0,1 °C @ + 80 °C
Temperature uniformity [°C]	± 1,2 °C @ - 90 °C ± 1,2 °C @ - 40 °C ± 0,5 °C @ + 50 °C ± 0,5 °C @ + 80 °C
Temperature control	PID (PT-100)
Power supply	3x400V 50/60Hz
Wattage [W]	6000
Interface	USB and Ethernet
Shelve	1 (max 8)
Shelve capacity [kg]	35
Max capacity [kg]	80
Observation window	As standard
Access port [mm]	Ø 50 (left side)
Noise [dBA] @ 1 m distance	67
Weight [kg]	440

**All performance in controlled environment ($T_{ambient}$ = 20 °C ± 3 °C)!*
**Accessories might affect performance!*

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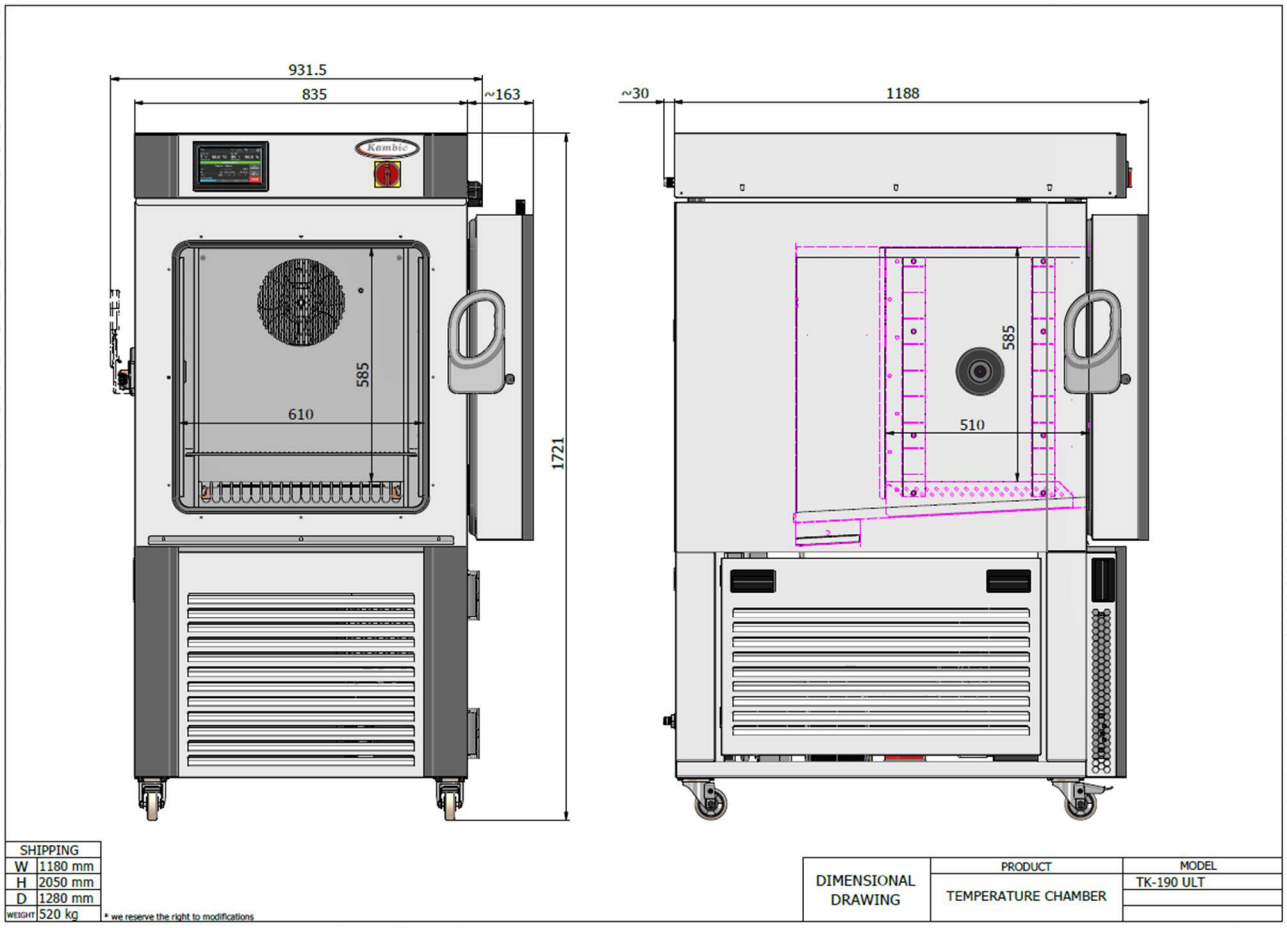
Ordering information and accessories:

Description	Part no.
Temperature chamber TK-190 ULT	1234
Shelve wire TK-190 ULT	953
Shelve perforated TK-190 ULT	954
Access Port w. Plug Ø 50 mm right *(*specify position)*	899
Access Port w. Plug Ø 100 mm right *(*specify position)*	900
Evaluation report 9 points, 3 climatic values - performed by Kambic	1719
Evaluation report 9 points, 3 climatic values - Accredited	2852

**Accessories might affect performance!*



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