

TEMPERATURE CHAMBERS

(+ 5 °C ...+ 180 °C)

Model:

TK-68 CK

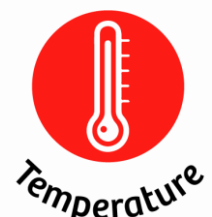
TK-190 CK

TK-340 CK

TK-500 CK

TK-1000 CK

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



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

Main switch

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

All exterior in galvanized and powder coated aluminized steel

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

Heavy duty closing mechanism with key lock

Height Adjustable stainless steel wire shelves (1 pcs included)

Full door heated observation window with LED illumination

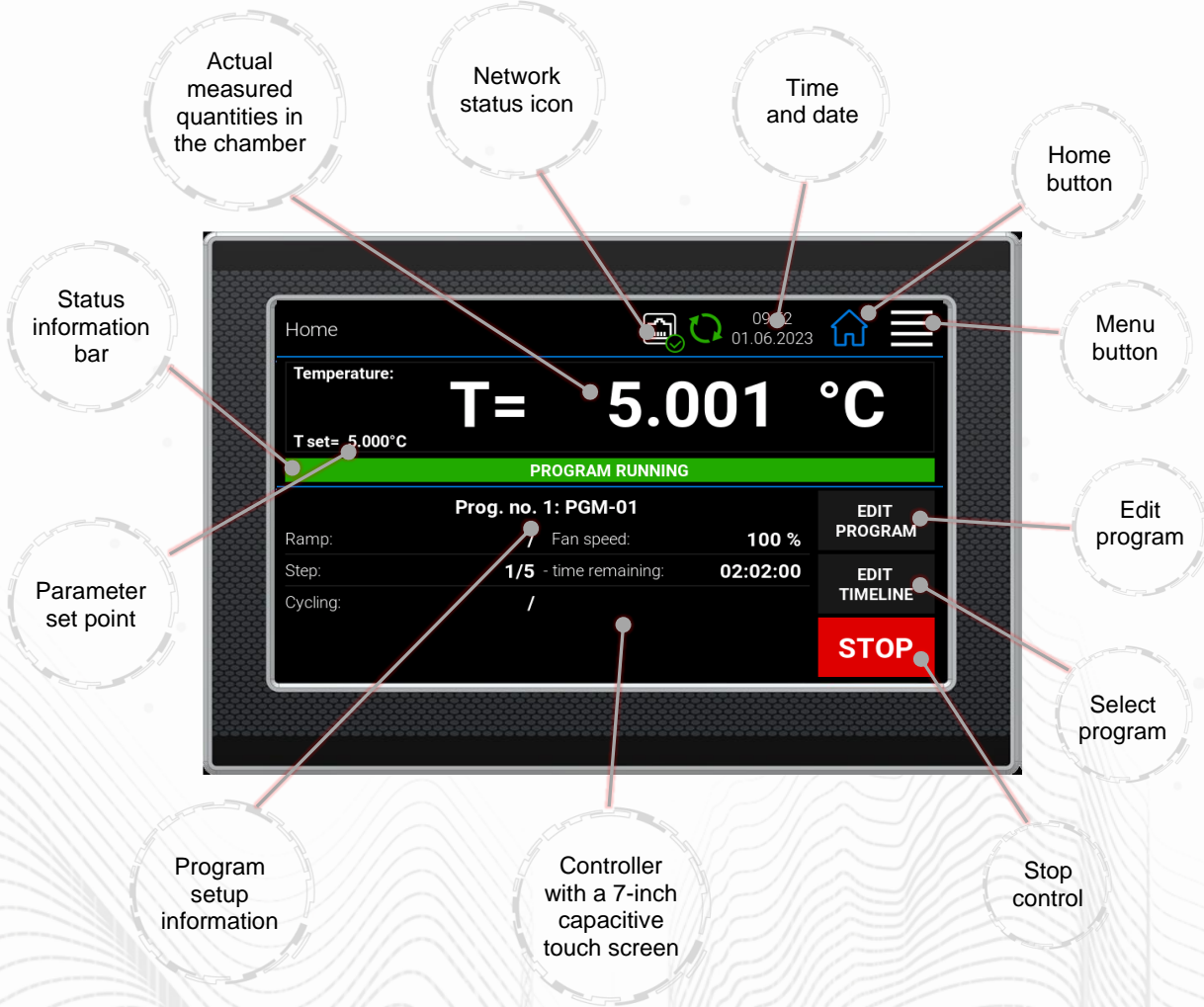
Heavy duty swivel wheels with brake for simple manipulation

Full 4 side maintenance access to ref. system

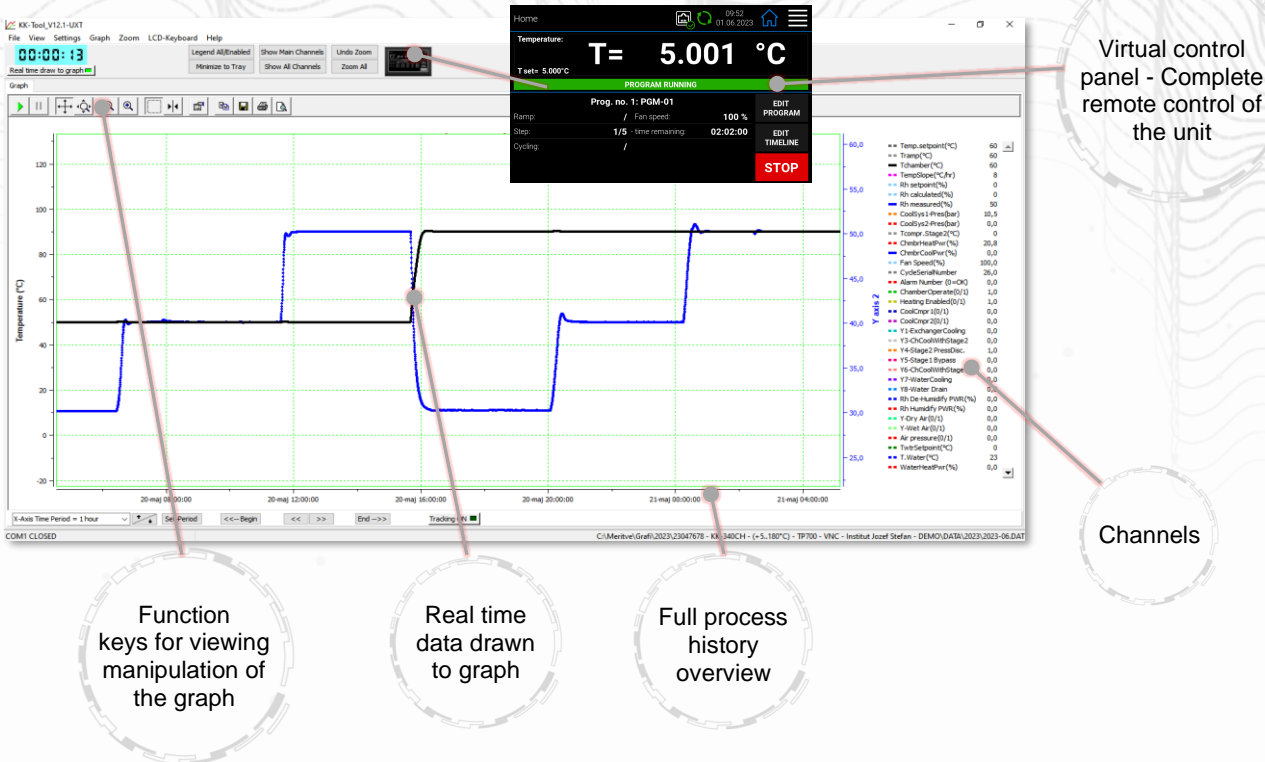
Fully stainless-steel interior chamber



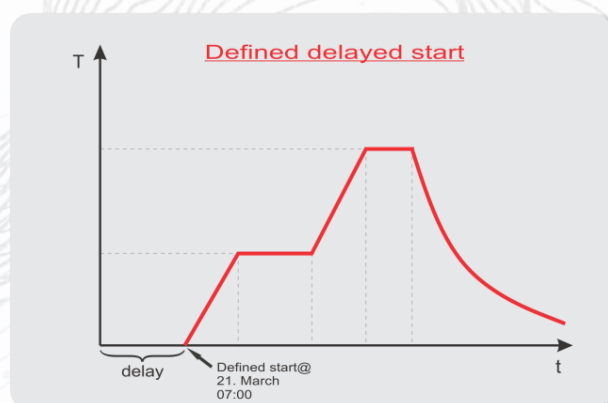
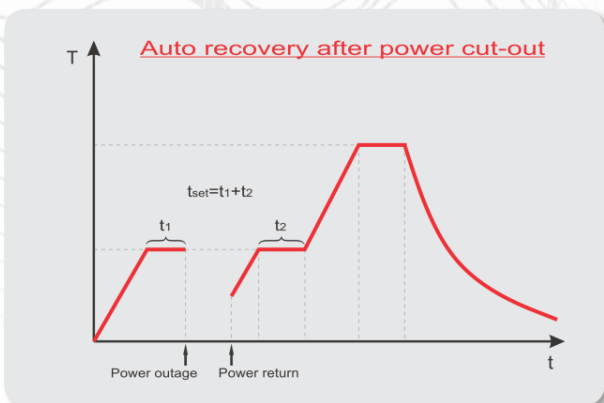
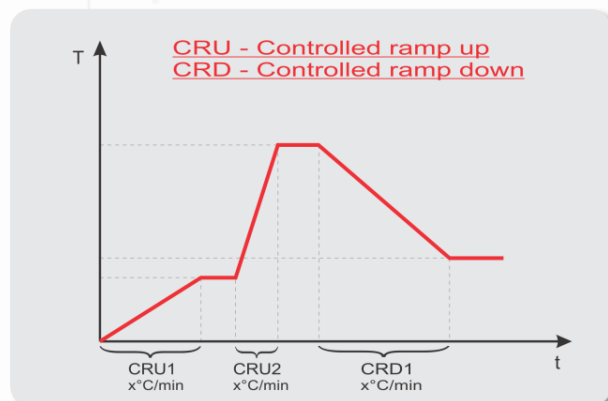
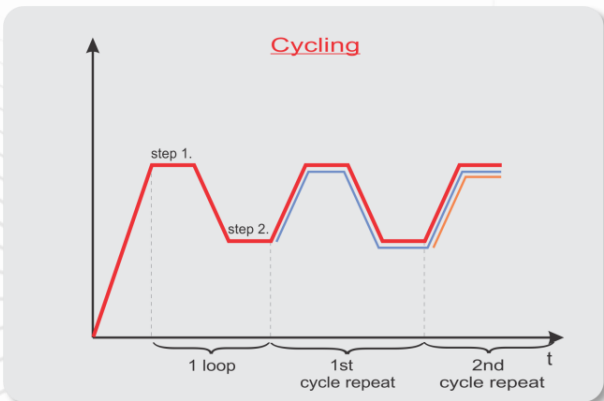
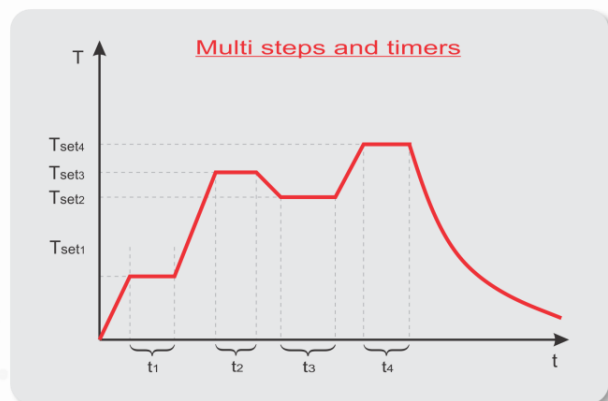
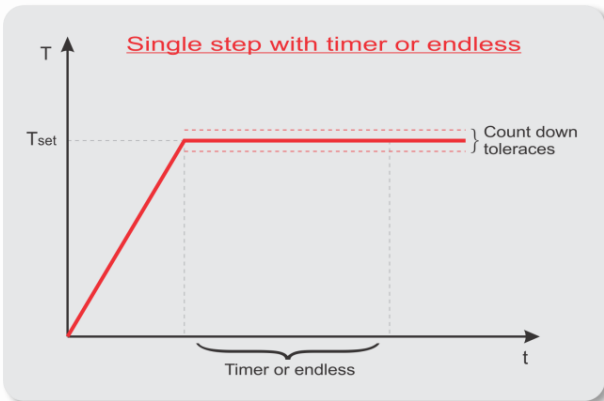
Touch display with advanced controller functions:



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





Controller functions:



| | TK-68 CK | TK-190 CK | TK-340 CK |
|---|--|--|--|
| | | | |
| External dimensions (WxHxD) [mm] | 650 x 1223 x 796 | 835 x 1661 x 951 | 835 x 1881 x 1126 |
| Internal dimensions (WxHxD) [mm] | 410 x 475 x 350 | 600 x 615 x 510 | 600 x 835 x 685 |
| Volume [L] | ~ 68 | ~ 190 | ~ 340 |
| Temperature range [°C] | + 5 ...+ 180 | + 5 ...+ 180 | + 5 ...+ 180 |
| Heat up rate [°C/min] (according to EN 60068-3-5) | 4.0 | 2.0 | 1.5 |
| Cool down rate [°C/min] (according to EN 60068-3-5) | 3.0 | 3.0 | 3.0 |
| Temperature display res [°C] | 0.1 | 0.1 | 0.1 |
| Temperature set res. [°C] | 0.1 | 0.1 | 0.1 |
| Temperature stability [°C] | ± 0.5°C @ 5°C ± 0.1°C @ 50°C ± 0.1°C @ 90°C ± 0.2°C @ 180°C | ± 0.5°C @ 5°C ± 0.1°C @ 50°C ± 0.1°C @ 90°C ± 0.2°C @ 180°C | ± 0.5°C @ 5°C ± 0.1°C @ 50°C ± 0.1°C @ 90°C ± 0.2°C @ 180°C |
| Temperature uniformity [°C] | ± 1.5°C @ 5°C ± 0.5°C @ 50°C ± 1.0°C @ 90°C ± 2.5°C @ 180°C | ± 1.5°C @ 5°C ± 0.5°C @ 50°C ± 1.0°C @ 90°C ± 1.5°C @ 180°C | ± 1.5°C @ 5°C ± 0.5°C @ 50°C ± 1.0°C @ 90°C ± 1.5°C @ 180°C |
| Heat compensation [W] | ~ 1500 @ + 20 °C | ~ 3000 @ + 20 °C | ~ 3000 @ + 20 °C |
| Temperature control | PID (PT-100) | PID (PT-100) | PID (PT-100) |
| Power supply | 230V 50/60 Hz | 230V 50/60 Hz | 230V 50/60 Hz |
| Wattage [W] | 3500 | 3600 | 3600 |
| Interface | USB and Ethernet | USB and Ethernet | USB and Ethernet |
| Shelve | 1 (max 6) | 1 (max 8) | 1 (max 8) |
| Shelve capacity [kg] | 25 | 35 | 35 |
| Max capacity [kg] | 40 | 80 | 100 |
| Observation window | As standard | As standard | As standard |
| Access port [mm] | Ø 50 (left side) | Ø 50 (left side) | Ø 50 (left side) |
| Noise [dBA] @ 1 m distance | 58 | 60 | 60 |
| Weight [kg] | 190 | 273 | 319 |

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

*Accessories might affect performance!

| | TK-500 CK | TK-1000 CK |
|---|---|---|
| |  |  |
| External dimensions (WxHxD) [mm] | 1035 x 1880 x 1381 | 1235 x 1928 x 1579 |
| Internal dimensions (WxHxD) [mm] | 800 x 835 x 800 | 1000 x 1035 x 1000 |
| Volume [L] | ~ 500 | ~ 1000 |
| Temperature range [°C] | + 5 ...+ 180 | + 5 ...+ 180 |
| Heat up rate [°C/min] (according to EN 60068-3-5) | 3.0 | 3.0 |
| Cool down rate [°C/min] (according to EN 60068-3-5) | 2.0 | 2.0 |
| Temperature display res. [°C] | 0.1 | 0.1 |
| Temperature set res. [°C] | 0.1 | 0.1 |
| Temperature stability [°C] | ± 0.5°C @ 5°C ± 0.1°C @ 50°C ± 0.1°C @ 90°C ± 0.2°C @ 180°C | ± 0.5°C @ 5°C ± 0.1°C @ 50°C ± 0.1°C @ 90°C ± 0.2°C @ 180°C |
| Temperature uniformity [°C] | ± 1.0°C @ 5°C ± 0.5°C @ 50°C ± 1.0°C @ 90°C ± 1.5°C @ 180°C | ± 1.0°C @ 5°C ± 0.5°C @ 50°C ± 1.0°C @ 90°C ± 1.5°C @ 180°C |
| Heat compensation [W] | ~ 3000 @ + 20 °C | ~ 5000 @ + 20 °C |
| Temperature control | PID (PT-100) | PID (PT-100) |
| Power supply | 3x400V 50/60Hz | 3x400V 50/60Hz |
| Wattage [W] | 9000 | 12000 |
| Interface | USB and Ethernet | USB and Ethernet |
| Shelve | 1 (max 8) | 1 (max 8) |
| Shelve capacity [kg] | 50 | 50 |
| Max capacity [kg] | 150 | 200 |
| Observation window | As standard | As standard |
| Access port [mm] | Ø 50 (left side) | Ø 50 (left side) |
| Noise [dBA] @ 1 m distance | 62 | 62 |
| Weight [kg] | 430 | 599 |

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

*Accessories might affect performance!

Ordering information and accessories:

| Description | Part no. |
|--|-----------------|
| Climatic chamber TK-68 CK | 790 |
| Climatic chamber TK-190 CK | 2512 |
| Climatic chamber TK-340 CK | 2515 |
| Climatic chamber TK-500 CK | 1745 |
| Climatic chamber TK-1000 CK | 2518 |
| Shelve wire TK-68 CK | 792 |
| Shelve wire TK-190 CK | 953 |
| Shelve wire TK-340 CK | 956 |
| Shelve wire TK-500 CK | 958 |
| Shelve wire TK-1000 CK | 960 |
| Shelve perforated TK-68 CK | 793 |
| Shelve perforated TK-190 CK | 954 |
| Shelve perforated TK-340 CK | 957 |
| Shelve perforated TK-500 CK | 959 |
| Shelve perforated TK-1000 CK | 961 |
| Access Port w. Plug Ø 50 mm right (specify position) | 899 |
| Access Port w. Plug Ø 90 mm right (specify position) | 900 |
| Trolley for TK-68 CKLT | 794 |
| Evaluation report 9 points, 3 temperatures - performed by Kambic | 1719 |
| Evaluation report 9 points, 3 temperatures- Accredited | 2852 |

**Accessories might affect performance!*

