

# Temperature Chambers

(+ 5 °C ...+ 180 °C)

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

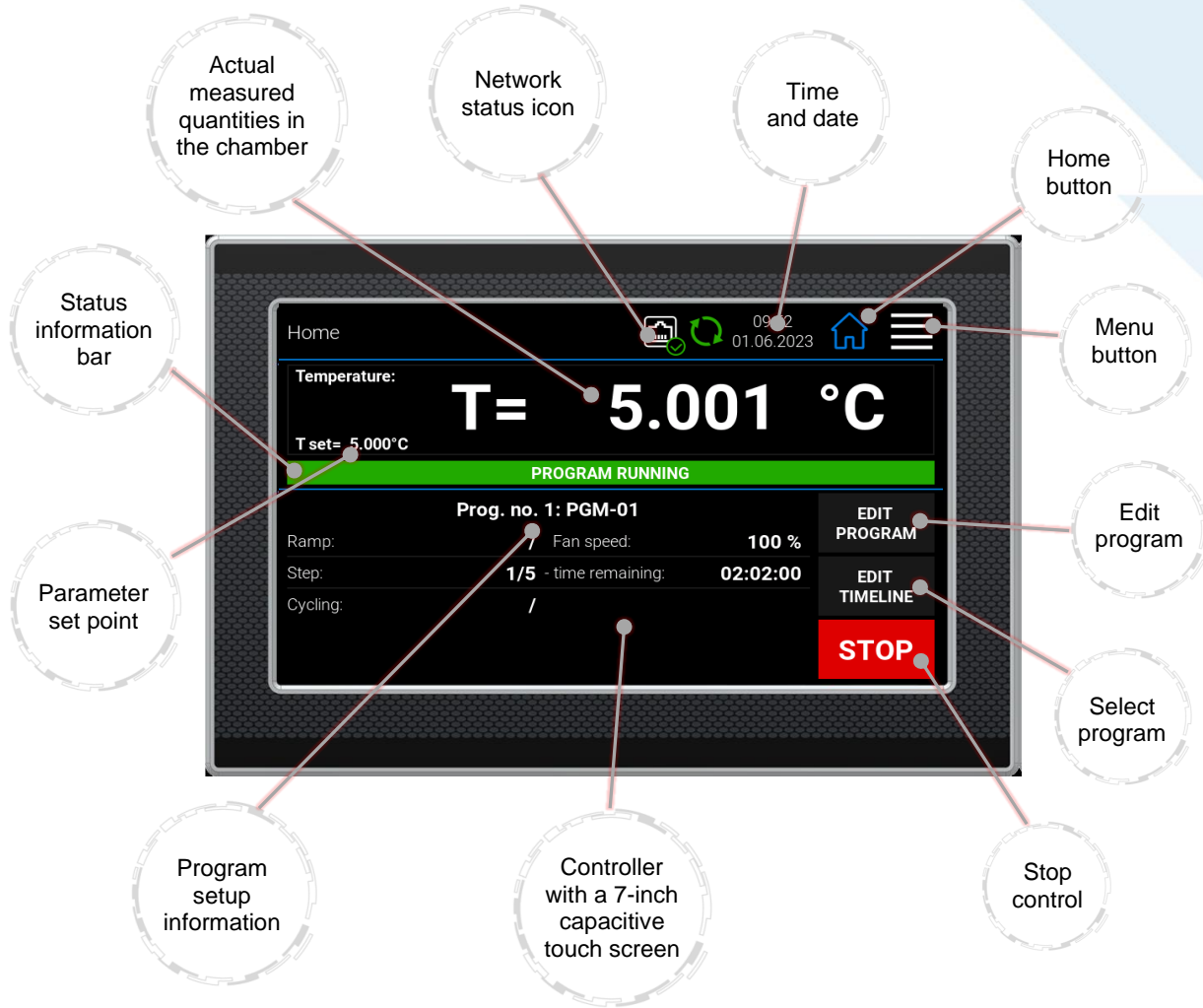


**Temperature**

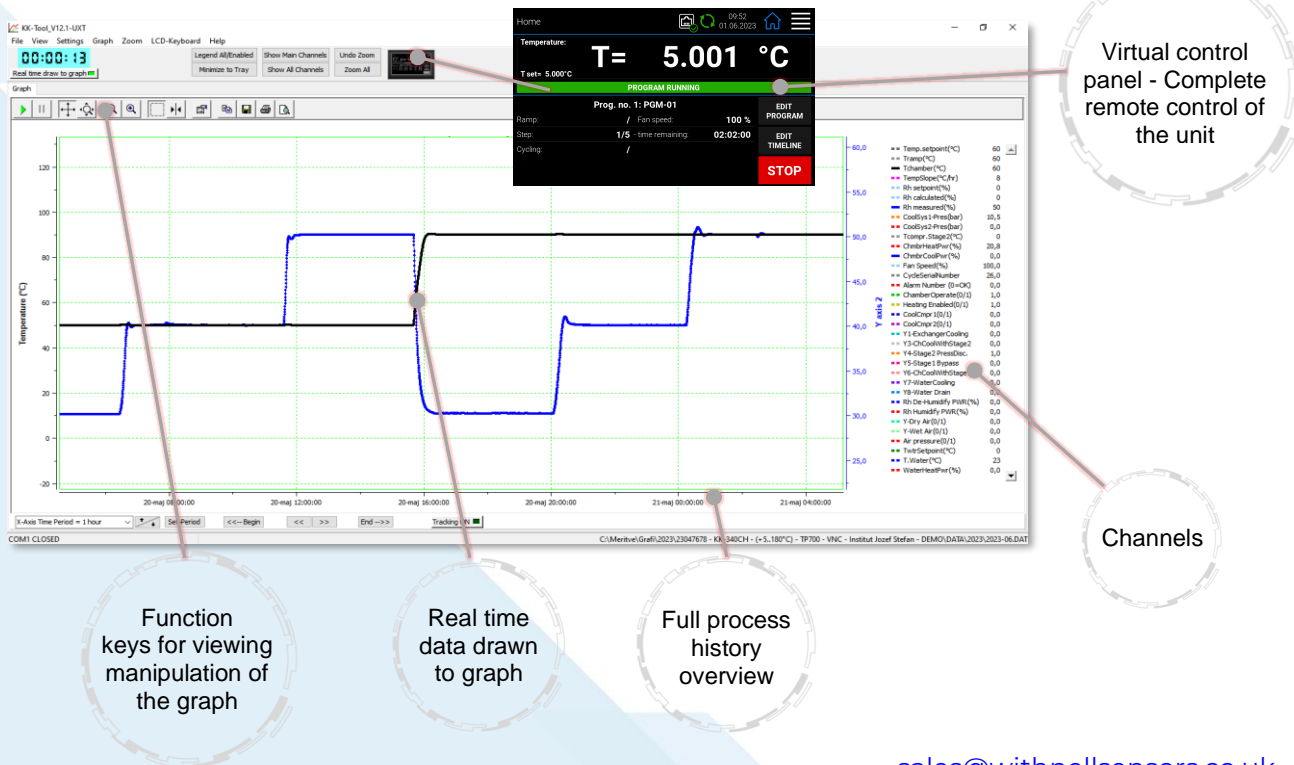
**Device description:**



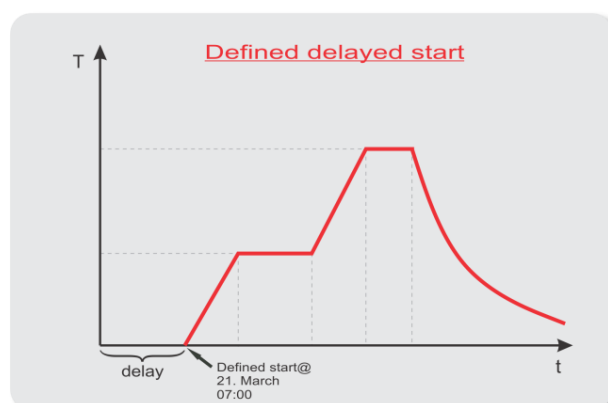
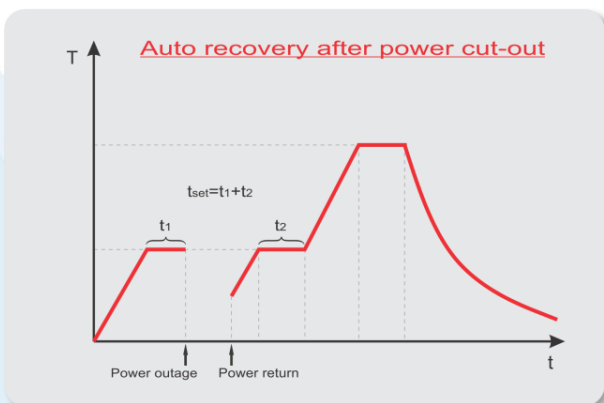
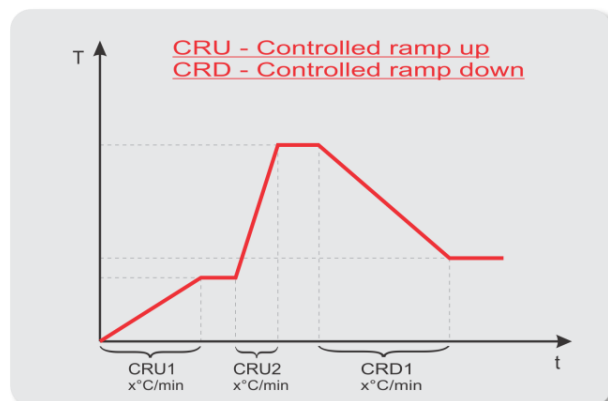
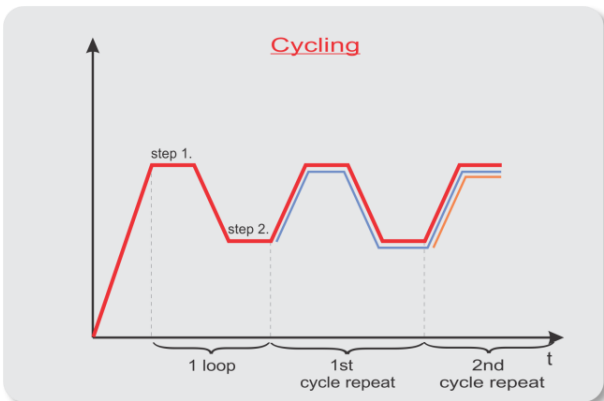
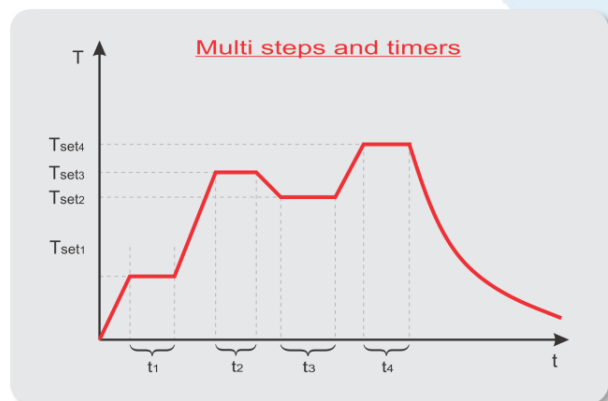
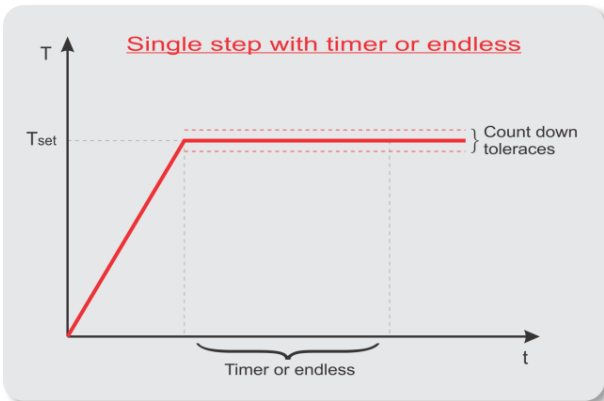
**Touch display with advanced controller functions:**






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



**Controller functions:**


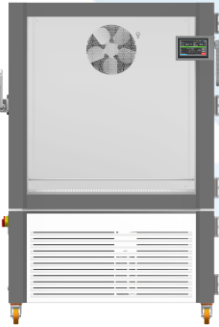


|   | <b>TK-68 CK</b>   | <b>TK-190 CK</b>   | <b>TK-340 CK</b>  |
|---|---|--|---|
|   |  |  |  |
| External dimensions (WxHxD) [mm]                    | 650 x 1223 x 796  | 835 x 1661 x 951   | 835 x 1881 x 1126   |
| Internal dimensions (WxHxD) [mm]                    | 410 x 475 x 350   | 600 x 615 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<br>± 0.1°C @ 50°C<br>± 0.1°C @ 90°C<br>± 0.2°C @ 180°C              | ± 0.5°C @ 5°C<br>± 0.1°C @ 50°C<br>± 0.1°C @ 90°C<br>± 0.2°C @ 180°C               | ± 0.5°C @ 5°C<br>± 0.1°C @ 50°C<br>± 0.1°C @ 90 °C<br>± 0.2°C @ 180°C               |
| Temperature uniformity [°C]                         | ± 1.5°C @ 5°C<br>± 0.5°C @ 50°C<br>± 1.0°C @ 90°C<br>± 2.5°C @ 180°C              | ± 1.5°C @ 5°C<br>± 0.5°C @ 50°C<br>± 1.0°C @ 90°C<br>± 1.5°C @ 180°C               | ± 1.5°C @ 5°C<br>± 0.5°C @ 50°C<br>± 1.0°C @ 90°C<br>± 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!*



|   | <b>TK-500 CK</b>  | <b>TK-1000 CK</b>   |
|---|---|---|
|   |  |  |
| 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<br>± 0.1°C @ 50°C<br>± 0.1°C @ 90°C<br>± 0.2°C @ 180°C              | ± 0.5°C @ 5°C<br>± 0.1°C @ 50°C<br>± 0.1°C @ 90°C<br>± 0.2°C @ 180°C                |
| Temperature uniformity [°C]                         | ± 1.0°C @ 5°C<br>± 0.5°C @ 50°C<br>± 1.0°C @ 90°C<br>± 1.5°C @ 180°C              | ± 1.0°C @ 5°C<br>± 0.5°C @ 50°C<br>± 1.0°C @ 90°C<br>± 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   |

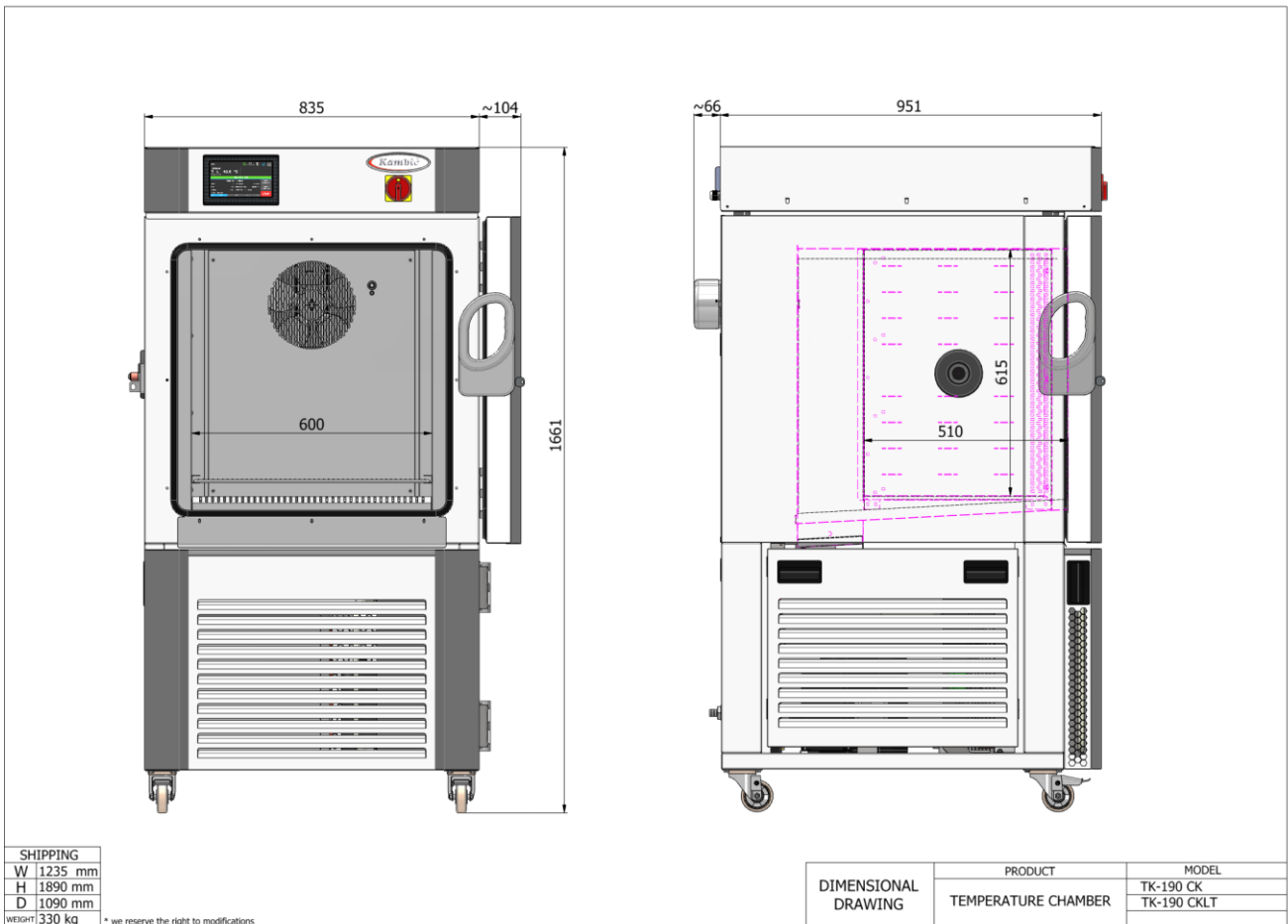
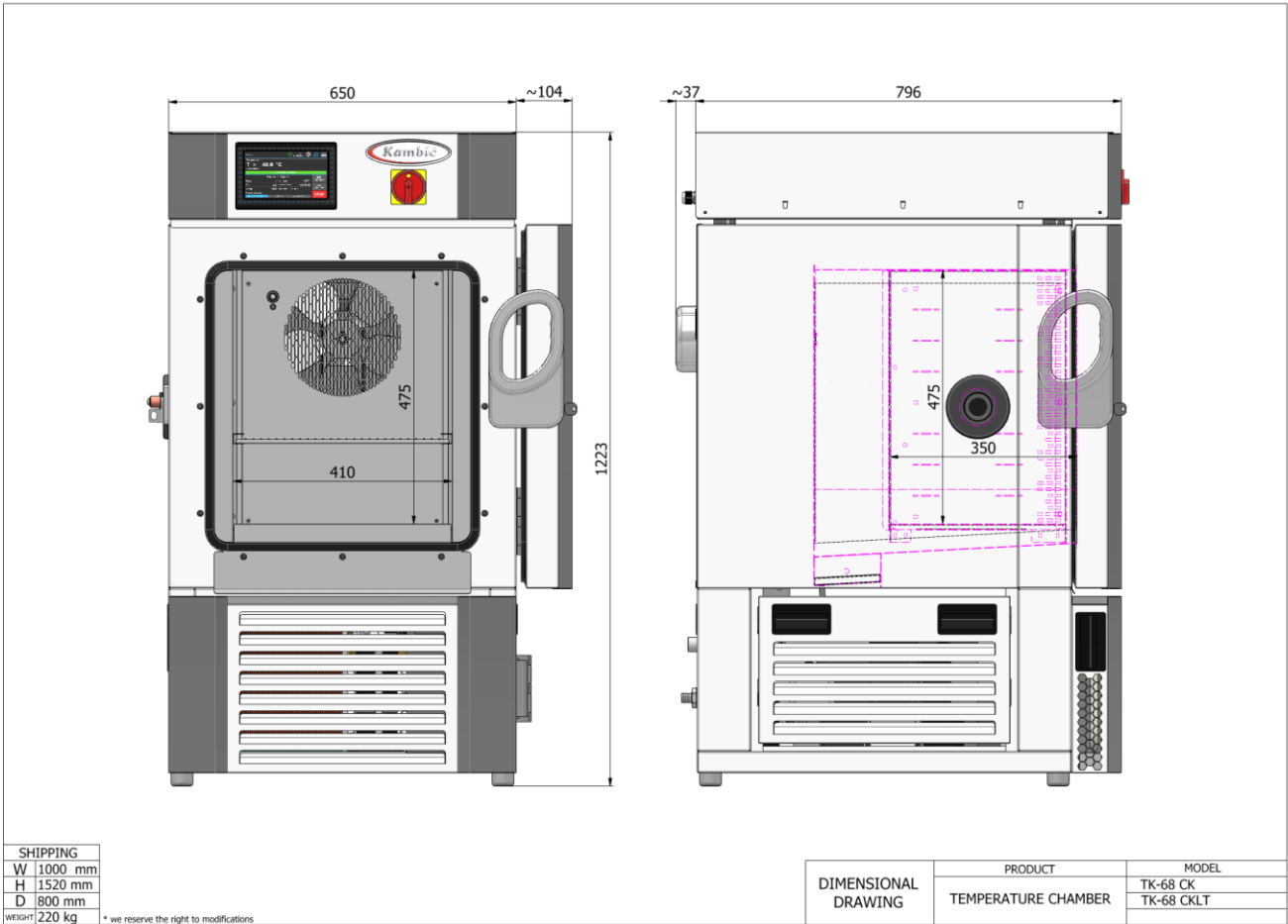
*\*All performance in controlled environment ( $T_{ambient} = 22 \text{ °C} \pm 3 \text{ °C}$ )!*

*\*Accessories might affect performance!*

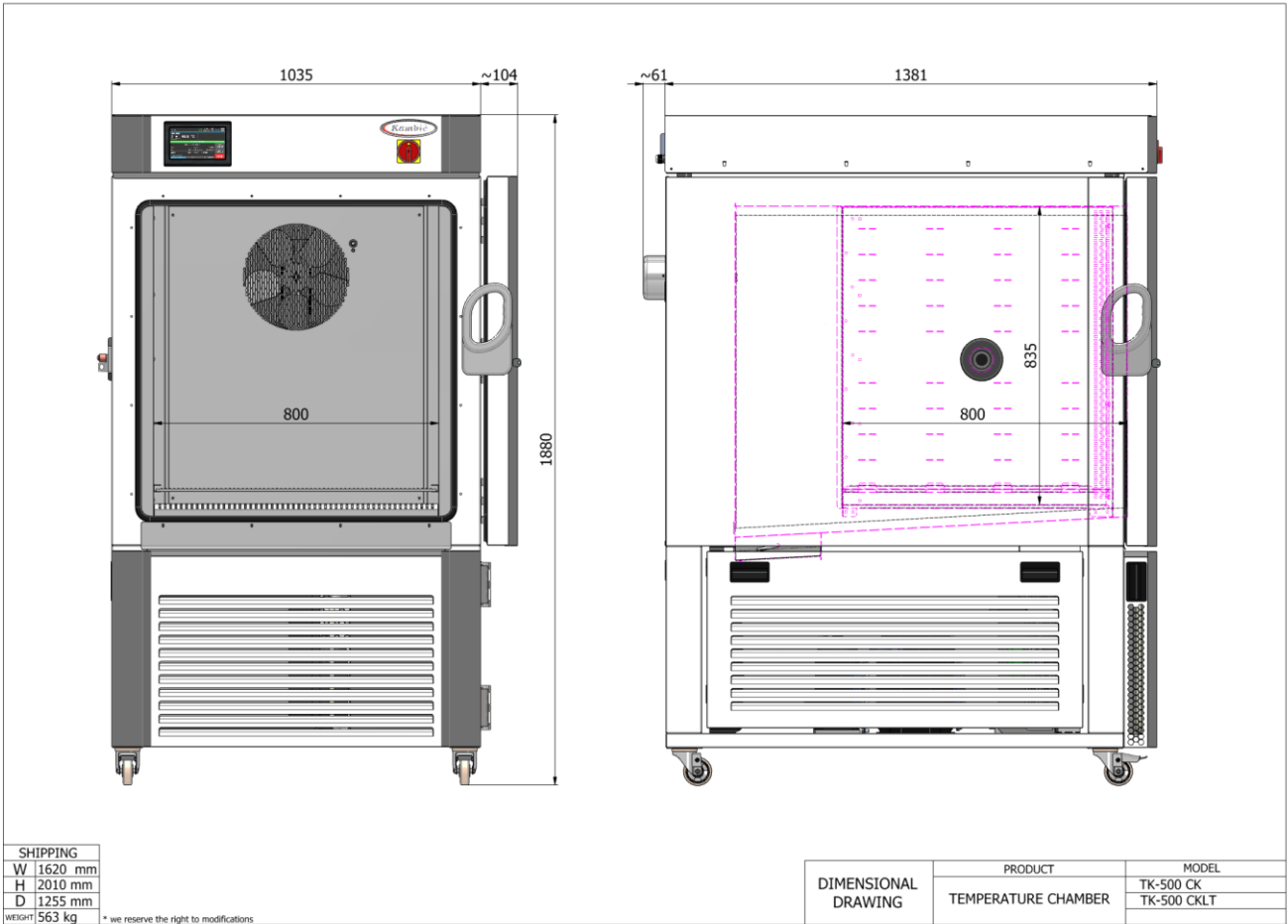
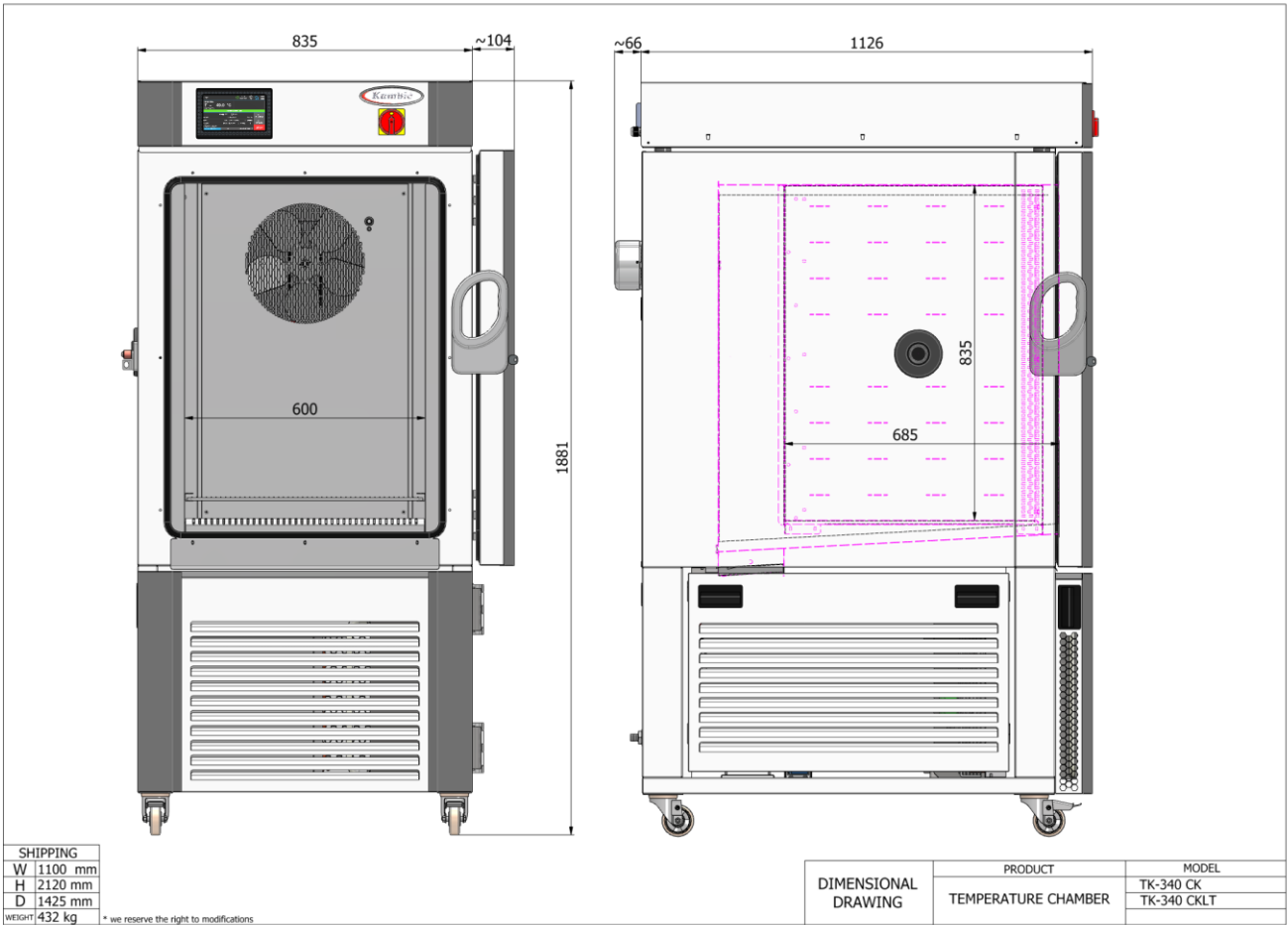
**Ordering information and accessories:**

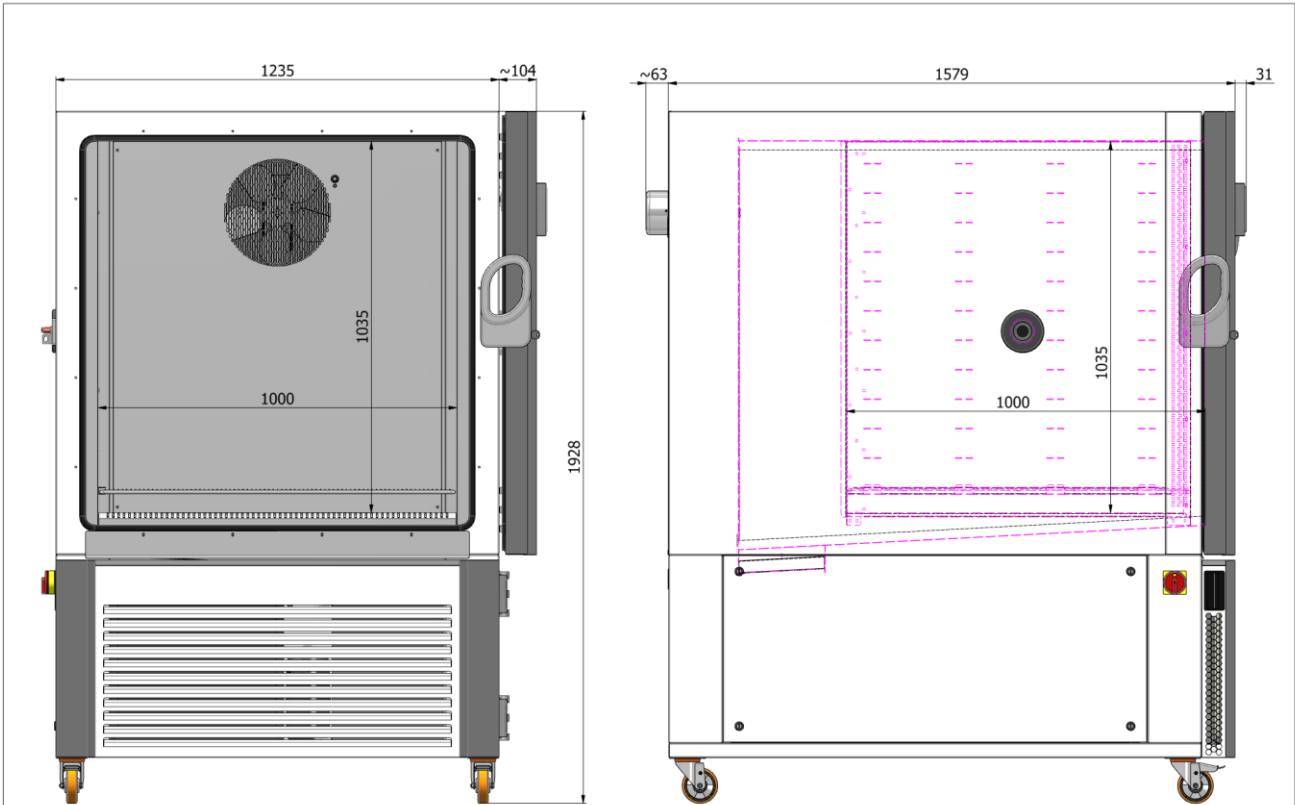
| <b>Description</b>   | <b>Part no.</b> |
|--|-----------------|
| Climatic chamber TK-68 CK  | 790             |
| Climatic chamber TK-190 CK                                       | 2512            |
| Climatic chamber TK-340 CK                                       | 2515            |
| Climatic chamber 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!*









| SHIPPING |      |
|----------|------|
| W        | 1450 |
| H        | 2120 |
| D        | 1830 |
| WEIGHT   | 600  |

\* we reserve the right to modifications

| DIMENSIONAL DRAWING | PRODUCT             | MODEL                      |
|---------------------|---------------------|----------------------------|
|                     | TEMPERATURE CHAMBER | TK-1000 CK<br>TK-1000 CKLT |

