

Climatic Chamber

(+ 5 °C ...180 °C)

KK-68 CH

KK-105 CH

KK-190 CH

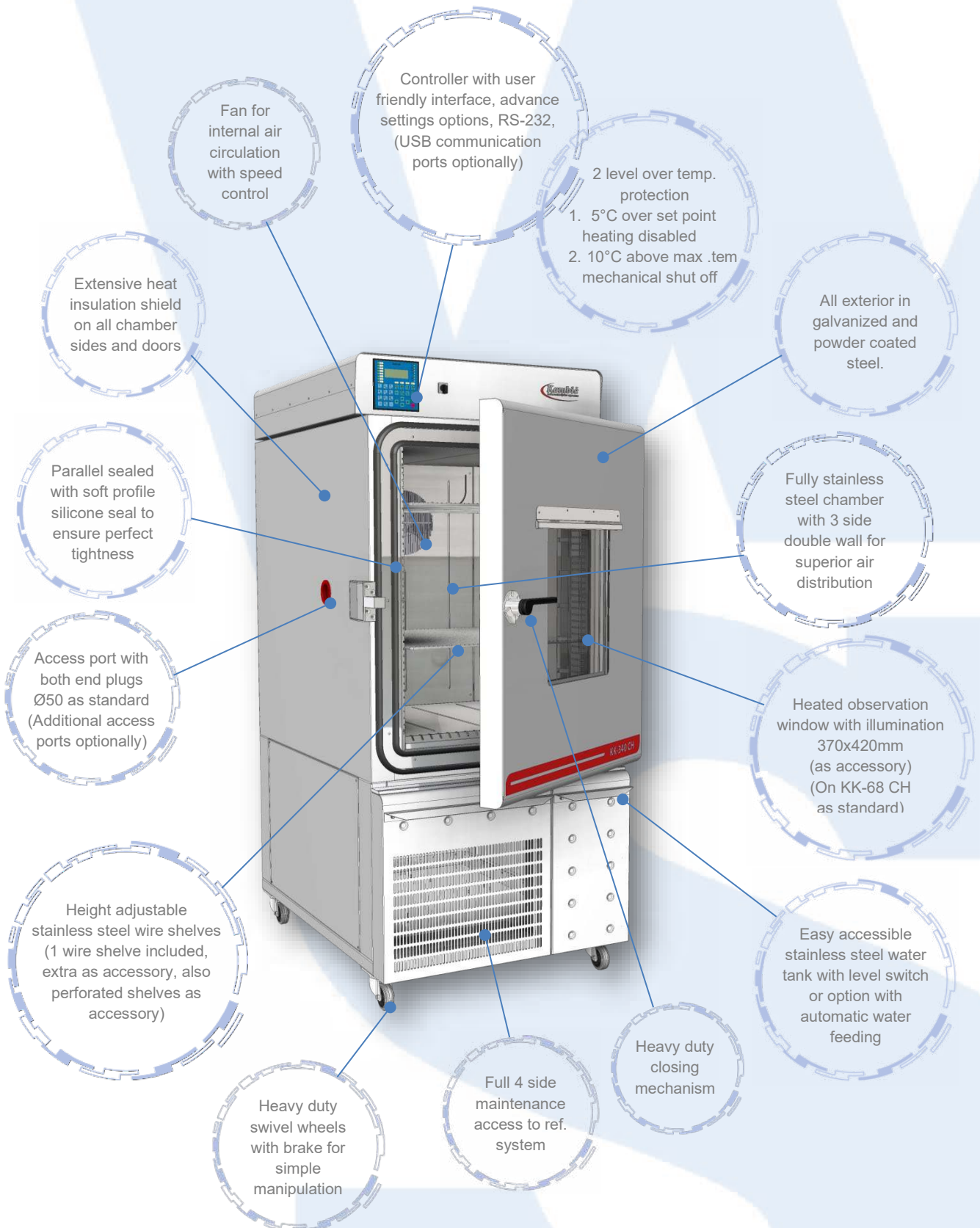
KK-340 CH

KK-500 CH

KK-1000 CH

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





Fan for internal air circulation with speed control

Controller with user friendly interface, advance settings options, RS-232, (USB communication ports optionally)

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

Extensive heat insulation shield on all chamber sides and doors

All exterior in galvanized and powder coated steel.

Parallel sealed with soft profile silicone seal to ensure perfect tightness

Fully stainless steel chamber with 3 side double wall for superior air distribution

Access port with both end plugs Ø50 as standard (Additional access ports optionally)

Heated observation window with illumination 370x420mm (as accessory) (On KK-68 CH as standard)

Height adjustable stainless steel wire shelves (1 wire shelf included, extra as accessory, also perforated shelves as accessory)

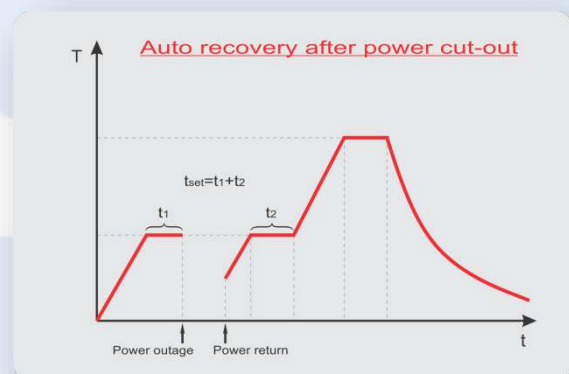
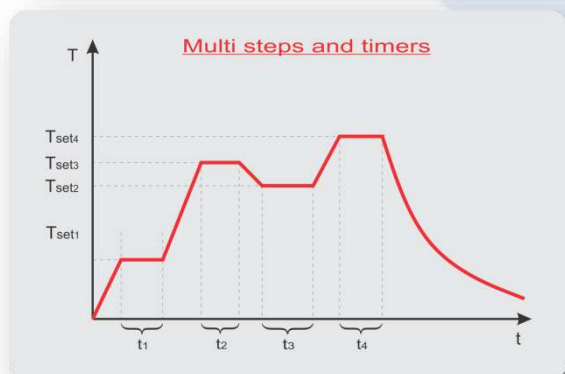
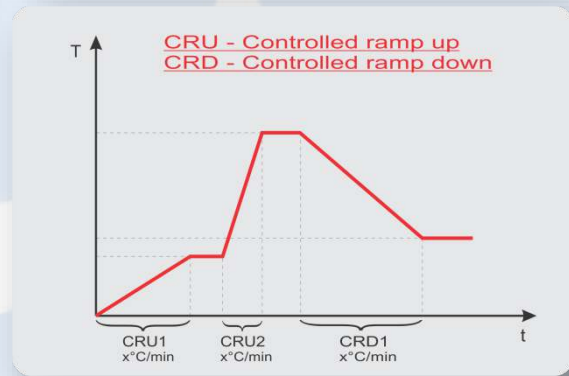
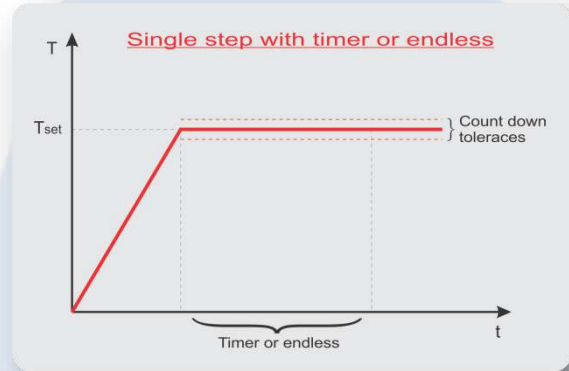
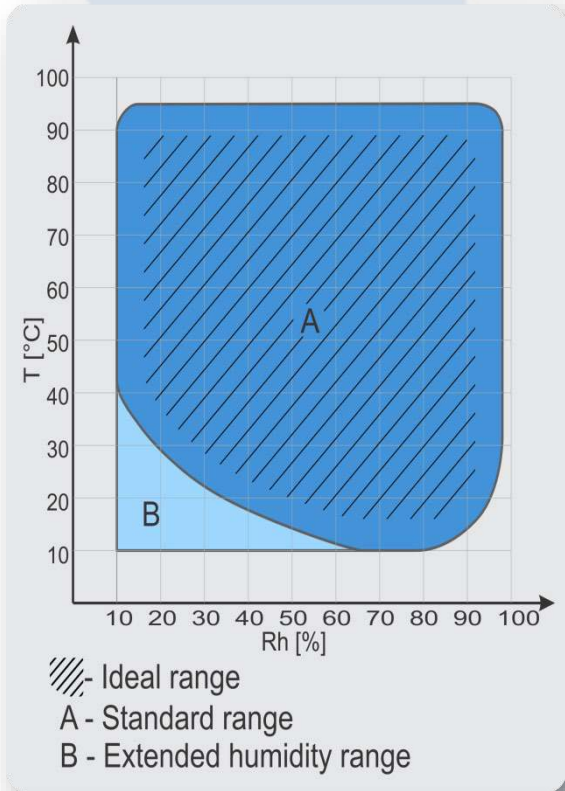
Easy accessible stainless steel water tank with level switch or option with automatic water feeding


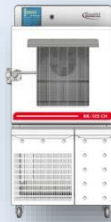

Heavy duty swivel wheels with brake for simple manipulation



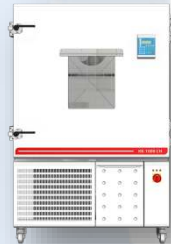
Full 4 side maintenance access to ref. system

Heavy duty closing mechanism

Controller functions:



| | KK-68 CH | KK-105 CH | KK-190 CH |
|--|---|---|---|
| |  |  |  |
| External dimensions (WxHxD) in mm | 650 x 1233 x 796 | 725 x 1560 x 845 | 834 x 1675 x 930 |
| Internal dimensions (WxHxD) in mm | 410 x 475 x 350 | 490 x 498 x 430 | 600 x 610 x 510 |
| Volume (L) | ~ 68 | ~ 105 | ~ 190 |
| Temperature range (°C) | + 5 ...+ 180 | + 5 ...+ 180 | +5 ...+ 180 |
| Heat up rate (°C/min) EN 60068-3-5 | 3,8 | 2,9 | 1,8 |
| Cool down rate (°C/min) EN 60068-3-5 | 2,2 | 6,0 | 4,3 |
| Temperature display resolution (°C) | 0.1 | 0.1 | 0.1 |
| Temperature set resolution (°C) | 0.1 | 0.1 | 0.1 |
| Temperature stability (°C) | ± 0,05 °C @ 50 °C 50 % Rh ± 0,05 °C @ 90 °C 90 % Rh ± 0,2 °C @ 180 °C | ± 0,05 °C @ 50 °C 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,3 °C @ 180 °C | ± 0,06 °C @ 50 °C 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,3 °C @ 180 °C |
| Temperature uniformity (°C) | ± 0,3 °C @ 50 °C 50 % Rh ± 0,4 °C @ 90 °C 90 % Rh ± 1,5 °C @ 180 °C | ± 0,3 °C @ 50 °C 50 % Rh ± 0,4 °C @ 90 °C 90 % Rh ± 1,8 °C @ 180 °C | ± 0,4 °C @ 50 °C 50 % Rh ± 0,4 °C @ 90 °C 90 % Rh ± 2,0 °C @ 180 °C |
| Relative humidity range (%) | 10...98 | 10...98 | 10...98 |
| Relative humidity display resolution (%) | 0.1 | 0.1 | 0.1 |
| Relative humidity set resolution (%) | 1 | 1 | 1 |
| Relative humidity stability (%) | ± 0,5 % @ 50 °C 50 % Rh ± 0,5 % @ 90 °C 90 % Rh | ± 0,5 % @ 50 °C 50 % Rh ± 0,5 % @ 90 °C 90 % Rh | ± 0,5 % @ 50 °C 50 % Rh ± 0,5 % @ 90 °C 90 % Rh |
| Temperature control | PID | PID | PID |
| Relative humidity control | Dew point with "Rh capacitive" sensor / dry air purge for extended | Dew point humidity control / dry air purge for extended | Dew point humidity control / dry air purge for extended |
| Power supply | 230V 50/60Hz | 230V 50/60Hz | 230V 50/60Hz |
| Wattage (W) | 3500 | 3200 | 3600 |
| Interface | RS 232 (USB as accessory) | RS 232 (USB as accessory) | RS 232 (USB as accessory) |
| Shelve | 1 (max 6) | 1 (max 6) | 1 (max 8) |
| Shelve capacity (kg) | 25 | 35 | 35 |
| Max capacity (kg) | 40 | 60 | 80 |
| Observation window | As standard | As accessory | As accessory |
| Access port (mm) | Ø 50 (left side) | Ø 50 (left side) | Ø 50 (left side) |
| Noise (dBA) @ 1 m distance | 58 | 58 | 58 |
| Weight (kg) | 195 | 238 | 278 |

| | KK-340 CH | KK-500 CH | KK-1000 CH |
|--|---|--|---|
| |  |  |  |
| External dimensions (WxHxD) in mm | 835 x 1895 x 1115 | 1035 x 1810 x 1270 | 1235 x 1930 x 1495 |
| Internal dimensions (WxHxD) in mm | 600 x 830 x 685 | 800 x 800 x 800 | 1000 x 1000 x 1000 |
| Volume (L) | ~ 340 | ~ 500 | ~ 1000 |
| Temperature range (°C) | + 5 ...+ 180 | + 5 ...+ 180 | + 5 ...+ 180 |
| Heat up rate (°C/min) EN 60068-3-5 | 1,3 | 3,1 | 2,6 |
| Cool down rate (°C/min) EN 60068-3-5 | 3,5 | 2,0 | 2,1 |
| Temperature display resolution(°C) | 0.1 | 0.1 | 0.1 |
| Temperature set resolution (°C) | 0.1 | 0.1 | 0.1 |
| Temperature stability (°C) | ± 0,06 °C @ 50 °C 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,2 °C @ 180 °C | ± 0,06 °C @ 50 °C 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,2 °C @ 180 °C | ± 0,05 °C @ 50 °C 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,3 °C @ 180 °C |
| Temperature uniformity (°C) | ± 0,3 °C @ 50 °C 50 % Rh ± 0,4 °C @ 90 °C 90 % Rh ± 1,5 °C @ 180 °C | ± 0,3 °C @ 50 °C 50 % Rh ± 0,4 °C @ 90 °C 90 % Rh ± 1,6 °C @ 180 °C | ± 0,4 °C @ 50 °C 50 % Rh ± 0,4 °C @ 90 °C 90 % Rh ± 1,8 °C @ 180 °C |
| Relative humidity range (%) | 10...98 | 10...98 | 10...98 |
| Relative humidity display resolution (%) | 0.1 | 0.1 | 0.1 |
| Relative humidity set resolution (%) | 1 | 1 | 1 |
| Relative humidity stability (%) | ± 0,5 % @ 50 °C 50 % Rh ± 0,6 % @ 90 °C 90 % Rh | ± 0,5 % @ 50 °C 50 % Rh ± 0,5 % @ 90 °C 90 % Rh | ± 0,5 % @ 50 °C 50 % Rh ± 0,5 % @ 90 °C 90 % Rh |
| Temperature control | PID | PID | PID |
| Relative humidity control | Dew point humidity control / dry air purge for extended | Dew point humidity control / dry air purge for extended | Dew point humidity control / dry air purge for extended |
| Power supply | 230V 50/60 Hz | 3x400V 50/60Hz | 3x400V 50/60Hz |
| Wattage (W) | 3600 | 9000 | 12000 |
| Interface | RS 232 (USB as accessory) | RS 232 (USB as accessory) | RS 232 (USB as accessory) |
| Shelve | 1 (max 8) | 1 (max 8) | 1 (max 8) |
| Shelve capacity (kg) | 35 | 50 | 50 |
| Max capacity (kg) | 100 | 150 | 200 |
| Observation window | As accessory | As accessory | As accessory |
| Access port (mm) | Ø 50 (left side) | Ø 50 (left side) | Ø 50 (left side) |
| Noise (dBA) @ 1 m distance | 58 | 62 | 65 |
| Weight (kg) | 324 | 435 | 604 |

Ordering information and accessories:

| Description | Part no. |
|--|-----------------|
| Climatic chamber KK-68 CH | 789 |
| Climatic chamber KK-105 CH | 905 |
| Climatic chamber KK-190 CH | 910 |
| Climatic chamber KK-340 CH | 921 |
| Climatic chamber KK-500 CH | 907 |
| Climatic chamber KK-1000 CH | 909 |
| Shelve wire KK-68 CH | 792 |
| Shelve wire KK-105 CH | 951 |
| Shelve wire KK-190 CH | 953 |
| Shelve wire KK-340 CH | 956 |
| Shelve wire KK-500 CH | 958 |
| Shelve wire KK-1000 CH | 960 |
| Shelve perforated KK-68 CH | 793 |
| Shelve perforated KK-105 CH | 952 |
| Shelve perforated KK-190 CH | 954 |
| Shelve perforated KK-340 CH | 957 |
| Shelve perforated KK-500 CH | 959 |
| Shelve perforated KK-1000 CH | 961 |
| Access Port w. Plug Ø 50 mm (specify position) | 608 |
| Access Port w. Plug Ø 90 mm (specify position) | 1731 |
| Observation window with illumination 370x420mm (for KK-105 CH, KK-190 CH, KK-340 CH, KK-500 CH, KK-1000 CH) | 252 |
| Automatic water feeding | 1744 |
| Extended Rh range via dry air purge | 1758 |
| Trolley for KK-68 CH | 794 |
| USB interface | 1466 |
| KK-Tool (Software Monitoring & History) | 1663 |
| Password protection | 1718 |
| Evaluation report 9 points, 3 climatic values - performed by Kambic | 1719 |
| Evaluation report 9 points, 3 climatic values - Accredited | 1777 |

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

*Accessories might affect performance!

