

FAST CLIMATIC CHAMBER

5 °C/min

(- 40 °C ...+ 180 °C)

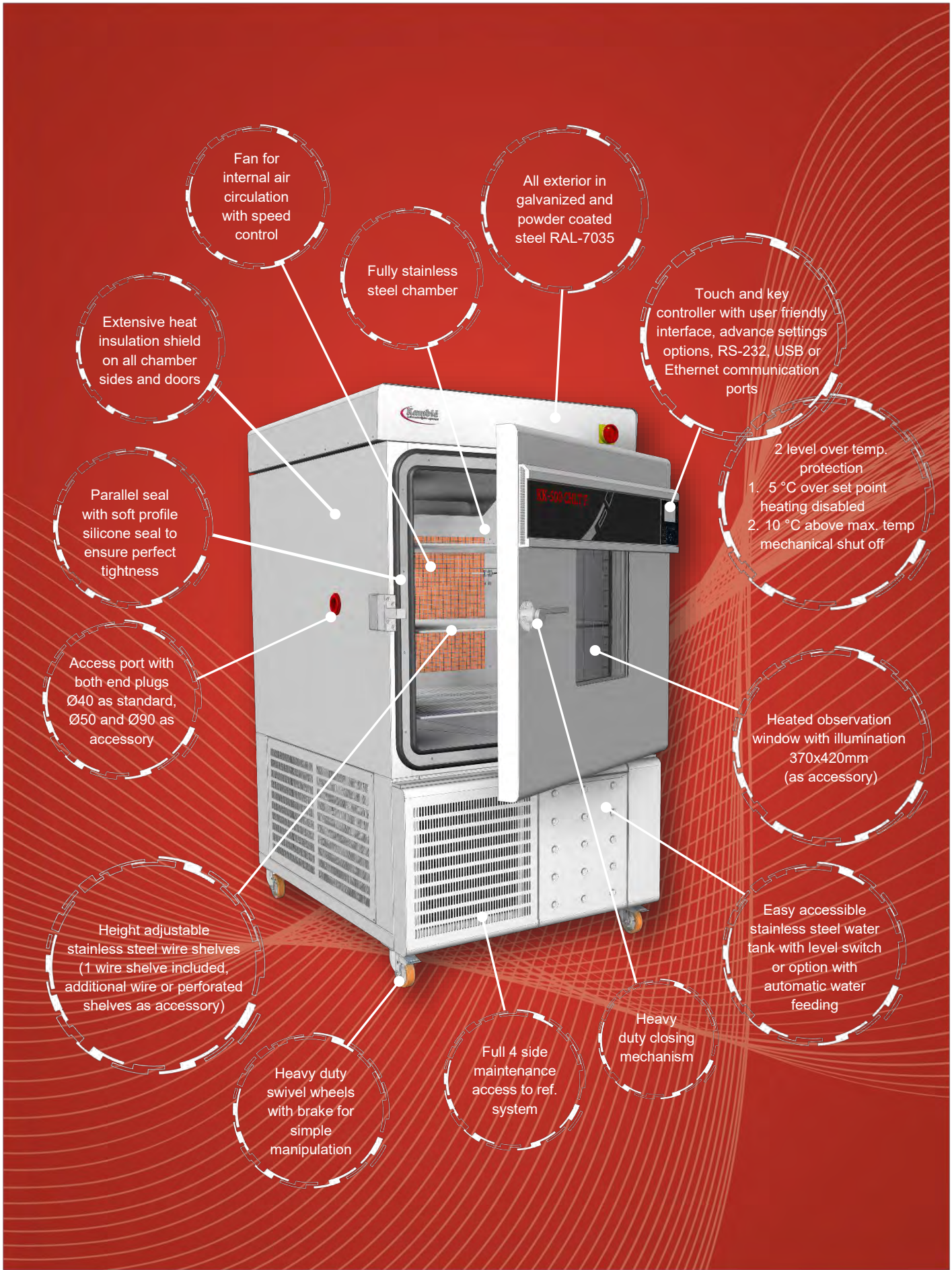
KK-340 CHLT F

KK-500 CHLT F

KK-1000 CHLT F

- 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

All exterior in galvanized and powder coated steel RAL-7035

Fully stainless steel chamber

Touch and key controller with user friendly interface, advance settings options, RS-232, USB or Ethernet communication ports

Extensive heat insulation shield on all chamber sides and doors

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

Parallel seal with soft profile silicone seal to ensure perfect tightness

Heated observation window with illumination 370x420mm (as accessory)

Access port with both end plugs Ø40 as standard, Ø50 and Ø90 as accessory

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

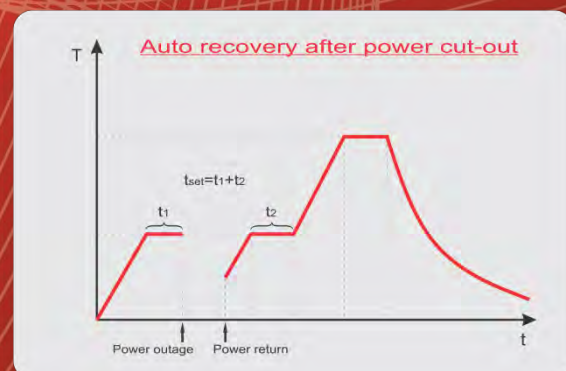
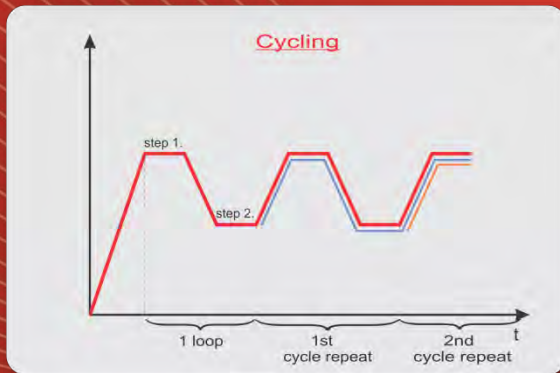
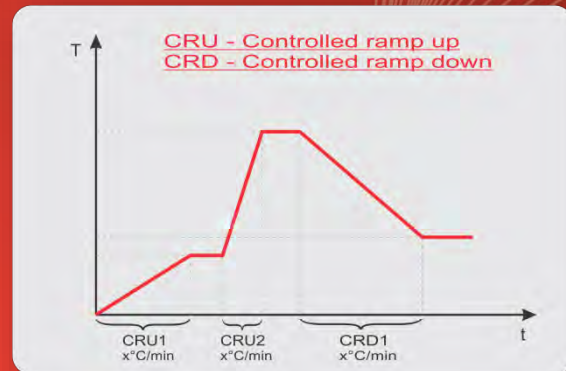
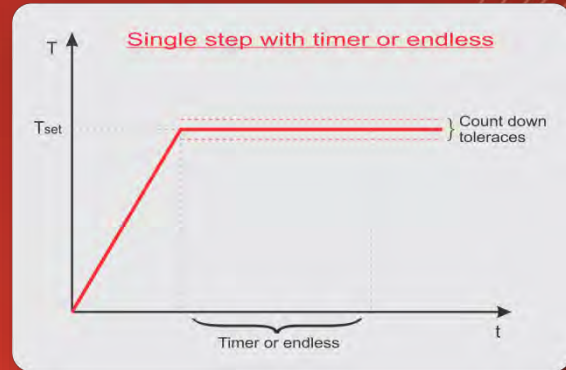
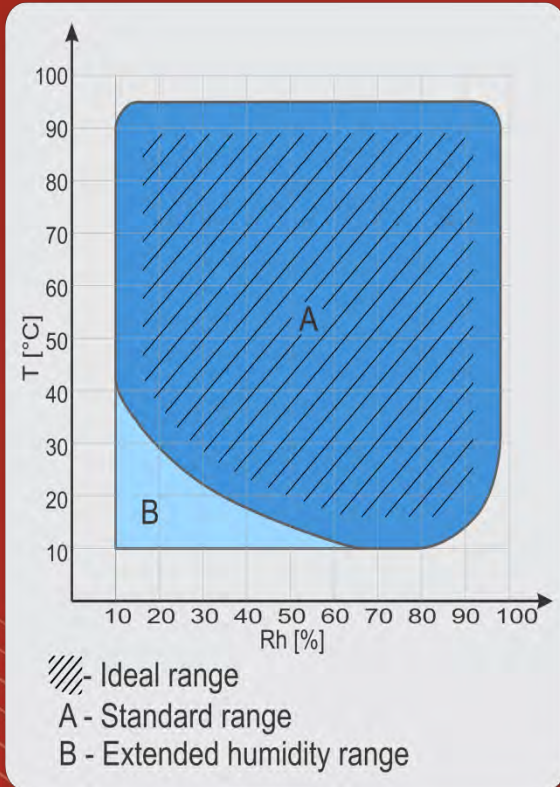
Height adjustable stainless steel wire shelves (1 wire shelf included, additional wire or perforated shelves as accessory)



Heavy duty closing mechanism

Heavy duty swivel wheels with brake for simple manipulation

Full 4 side maintenance access to ref. system


Controller functions:



| | KK-340 CHLT F | KK-500 CHLT F |
|--|---|---|
| |  |  |
| External dimensions (WxHxD) in mm | 835 x 1895 x 1115 | 1035 x 1900 x 1320 |
| Internal dimensions (WxHxD) in mm | 670 x 870 x 685 | 870 x 870 x 800 |
| Volume (L) | ~ 340 | ~ 500 |
| Temperature range (°C) | - 40 ... + 180 | - 40 ... + 180 |
| Heat up rate (°C/min) EN 60068-3-5 | 5 | 5 |
| Cool down rate (°C/min) EN 60068-3-5 | 5 | 5 |
| Temperature display resolution (°C) | 0.1 | 0.1 |
| Temperature set resolution (°C) | 0.1 | 0.1 |
| Temperature stability (°C) | ± 0,7 °C @ - 40 °C ± 0,1 °C @ + 23 °C 50 % Rh ± 0,3 °C @ + 50 °C 50 % Rh ± 0,3 °C @ + 90 °C 90 % Rh ± 0,5 °C @ + 180 °C | ± 0,5 °C @ - 40 °C ± 0,2 °C @ + 23 °C 50 % Rh ± 0,2 °C @ + 50 °C 50 % Rh ± 0,2 °C @ + 90 °C 90 % Rh ± 0,5 °C @ + 180 °C |
| Temperature uniformity (°C) | ± 1,5 °C @ - 40 °C ± 0,3 °C @ + 23 °C 50 % Rh ± 1,0 °C @ + 50 °C 50 % Rh ± 0,7 °C @ + 90 °C 90 % Rh ± 3,5 °C @ + 180 °C | ± 1,5 °C @ - 40 °C ± 0,5 °C @ + 23 °C 50 % Rh ± 1,0 °C @ + 50 °C 50 % Rh ± 0,5 °C @ + 90 °C 90 % Rh ± 3,0 °C @ + 180 °C |
| Relative humidity range (%) | 10...98 | 10...98 |
| Relative humidity display resolution (%) | 0.1 | 0.1 |
| Relative humidity set resolution (%) | 1 | 1 |
| Relative humidity stability (%) | ± 1 % @ + 50 °C 50 % Rh ± 1 % @ + 90 °C 90 % Rh | ± 1,5 % @ + 50 °C 50 % Rh ± 1 % @ + 90 °C 90 % Rh |
| Temperature control | PID | PID |
| Relative humidity control | Dew point humidity control / dry air purge for extended | Dew point humidity control / dry air purge for extended |
| Power supply | 3x400 V 50/60 Hz | 3x400 V 50/60 Hz |
| Wattage (W) | 9500 | 12000 |
| Interface | RS 232 (USB and Ethernet as accessory) | RS 232 (USB and Ethernet as accessory) |
| Shelve | 1 (max 6) | 1 (max 6) |
| Shelve capacity (kg) | 35 | 50 |
| Max capacity (kg) | 100 | 150 |
| Access port (mm) | Ø 40 standard, (Ø 50, Ø 90 as accessory) | Ø 40 standard, (Ø 50, Ø 90 as accessory) |
| Noise (dBA) @ 1 m distance | ~ 66 | ~ 68 |
| Weight (kg) | ~ 371 | ~ 510 |

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

*Accessories might affect performance!

| | KK-1000 CHLT F |
|--|---|
| |  |
| External dimensions (WxHxD) in mm | 1235 x 1917 x 1595 |
| Internal dimensions (WxHxD) in mm | 1070 x 1070 x 1000 |
| Volume (L) | ~ 1000 |
| Temperature range (°C) | - 40 ... + 180 |
| Heat up rate (°C/min) EN 60068-3-5 | 5 |
| Cool down rate (°C/min) EN 60068-3-5 | 5 |
| Temperature display resolution (°C) | 0.1 |
| Temperature set resolution (°C) | 0.1 |
| Temperature stability (°C) | ± 0,5 °C @ - 40 °C ± 0,2 °C @ + 23 °C 50 % Rh ± 0,3 °C @ + 50 °C 50 % Rh ± 0,3 °C @ + 90 °C 90 % Rh ± 0,5 °C @ + 180 °C |
| Temperature uniformity (°C) | ± 1,5 °C @ - 40 °C ± 0,5 °C @ + 23 °C 50 % Rh ± 1,0 °C @ + 50 °C 50 % Rh ± 0,5 °C @ + 90 °C 90 % Rh ± 3,0 °C @ + 180 °C |
| Relative humidity range (%) | 10...98 |
| Relative humidity display resolution (%) | 0.1 |
| Relative humidity set resolution (%) | 1 |
| Relative humidity stability (%) | ± 1 % @ + 50 °C 50 % Rh ± 1 % @ + 90 °C 90 % Rh |
| Temperature control | PID |
| Relative humidity control | Dew point humidity control / dry air purge for extended |
| Power supply | 3x400 V 50/60 Hz |
| Wattage (W) | 15000 |
| Interface | RS 232 (USB and Ethernet as accessory) |
| Shelve | 1 (max 6) |
| Shelve capacity (kg) | 50 |
| Max capacity (kg) | 200 |
| Access port (mm) | Ø 40 standard, (Ø 50, Ø 90 as accessory) |
| Noise (dBA) @ 1 m distance | ~ 70 |
| Weight (kg) | ~ 625 |

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

*Accessories might affect performance!

Ordering information and accessories:

| Description | Part no. |
|---|-----------------|
| Climatic chamber KK-340 CHLT F | 2739 |
| Climatic chamber KK-500 CHLT F | 2784 |
| Climatic chamber KK-1000 CHLT F | 2857 |
| Shelve wire KK-340 CHLT F | 956 |
| Shelve wire KK-500 CHLT F | 958 |
| Shelve wire KK-1000 CHLT F | 960 |
| Shelve perforated KK-340 CHLT F | 957 |
| Shelve perforated KK-500 CHLT F | 959 |
| Shelve perforated KK-1000 CHLT F | 961 |
| Access Port w. Plug Ø 40 mm right | 2629 |
| Access Port w. Plug Ø 50 mm right | 608 |
| Access Port w. Plug Ø 90 mm right | 1731 |
| Observation window with illumination 370x420mm | 252 |
| Automatic water feeding | 1744 |
| Extended Rh range via dry air purge | 1758 |
| USB interface | 1466 |
| Ethernet interface | 1716 |
| KK-Tool (Software Monitoring & History) | 1663 |
| Password protection | 1718 |
| Evaluation report 9 points, 3 climatic values - performed by Kambič | 1719 |
| Evaluation report 9 points, 3 climatic values - Accredited | 1777 |

