

TEMPERATURE CHAMBER

(+5°C ... +180°C)

TK-50 CK

TK-105 CK

TK-190 CK

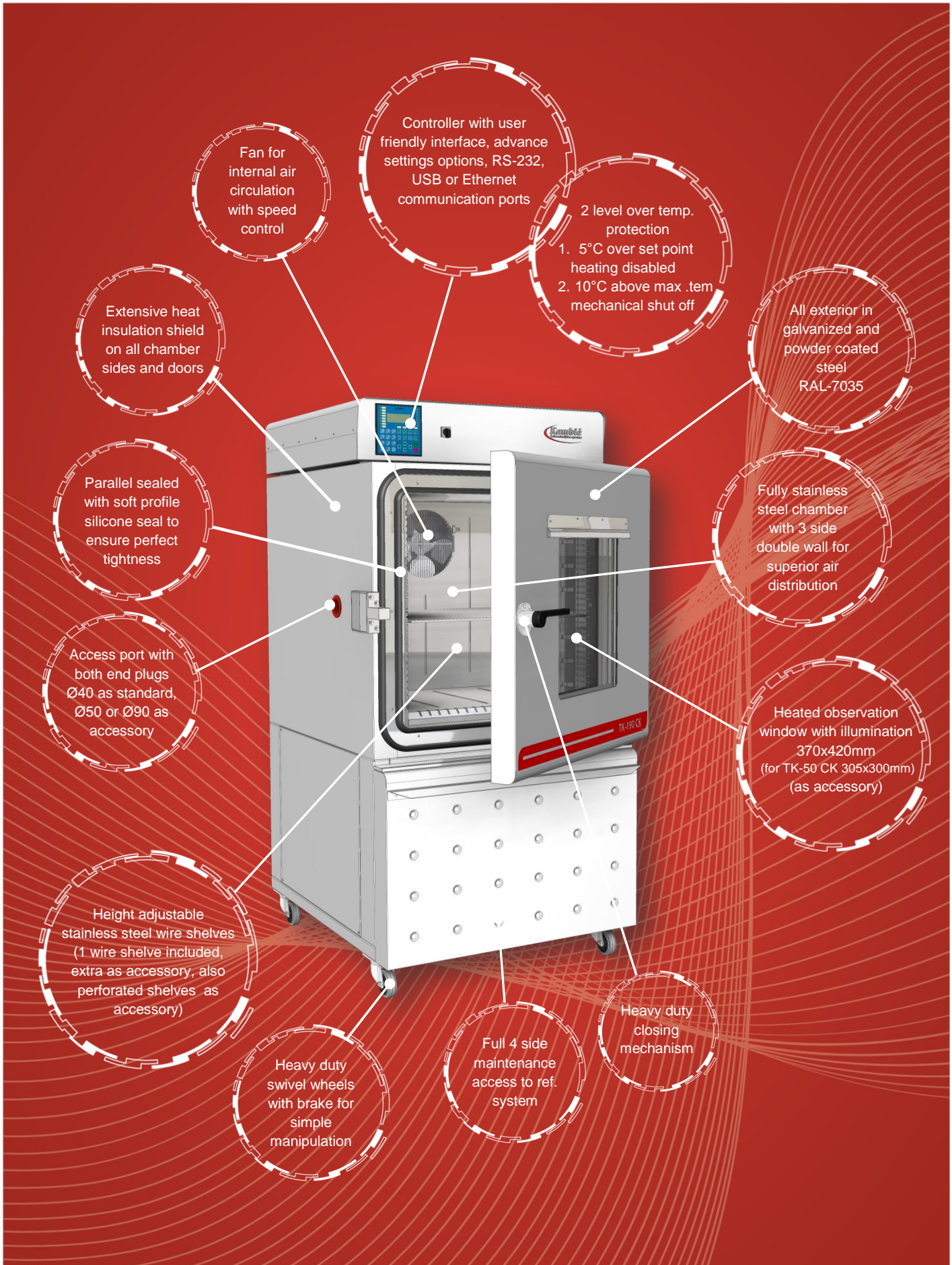
TK-340 CK

TK-500 CK

TK-1000 CK

- 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





Fan for internal air circulation with speed control

Controller with user friendly interface, advance settings options, RS-232, USB or Ethernet communication ports

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

All exterior in galvanized and powder coated steel RAL-7035

Extensive heat insulation shield on all chamber sides and doors

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

Parallel sealed with soft profile silicone seal to ensure perfect tightness

Heated observation window with illumination 370x420mm (for TK-50 CK 305x300mm) (as accessory)

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

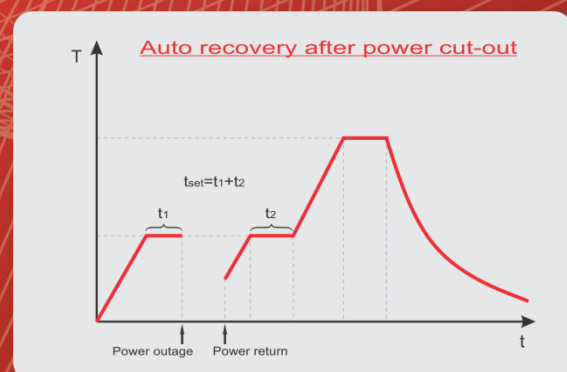
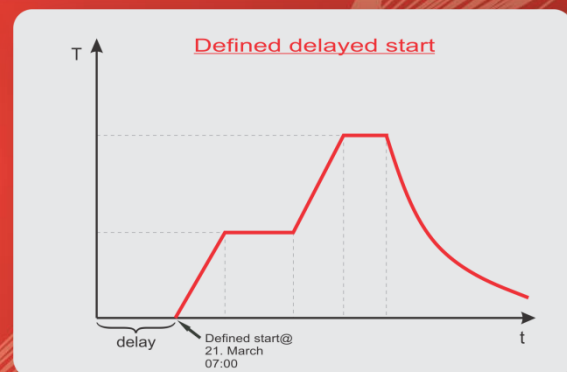
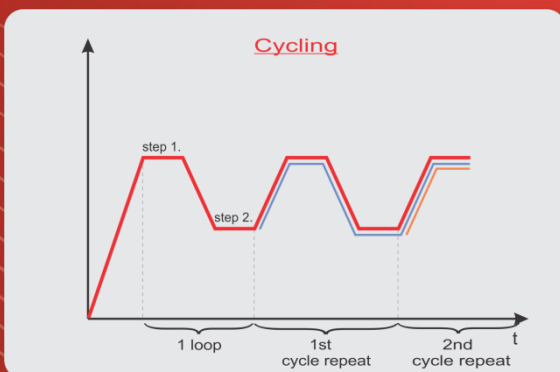
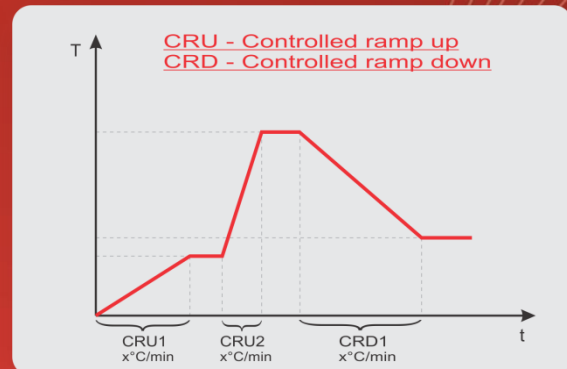
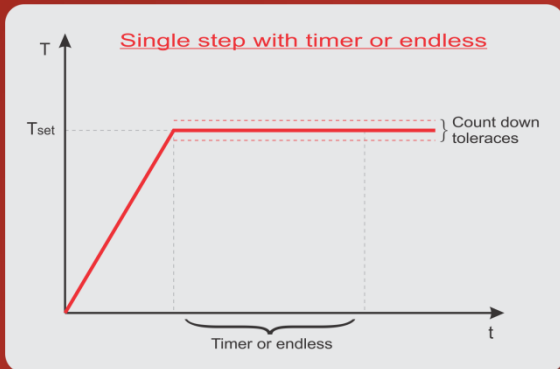
Height adjustable stainless steel wire shelves (1 wire shelf included, extra as accessory, also perforated shelves as accessory)

Heavy duty swivel wheels with brake for simple manipulation



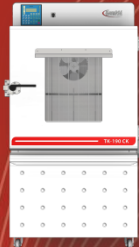
Full 4 side maintenance access to ref. system

Heavy duty closing mechanism

Controller functions:






Technical data:

	TK-50 CK	TK-105 CK	TK-190 CK
			
External dimensions (WxHxD) in mm	570 x 1035 x 645	725 x 1560 x 845	834 x 1675 x 930
Internal dimensions (WxHxD) in mm	400 x 375 x 350	490 x 498 x 430	600 x 610 x 510
Volume (L)	~ 50	~ 105	~ 190
Temperature range (°C)	+5 ...+180	+5 ...+180	+5 ...+180
Heat up rate (°C/min) EN 60068-3-5	7,0	3,0	2,7
Cool down rate (°C/min) EN 60068-3-5	2,1	6,4	2,7
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 ±0,05°C @ 90°C ±0,1°C @ 180°C	±0,08°C @ 50°C ±0,1°C @ 90°C ±0,1°C @ 180°C	±0,08°C @ 50°C ±0,1°C @ 90°C ±0,1°C @ 180°C
Temperature uniformity (°C)	±0,4°C @ 50°C ±0,4°C @ 90°C ±1,5°C @ 180°C	±0,3°C @ 50°C ±0,3°C @ 90°C ±1,5°C @ 180°C	±0,6°C @ 50°C ±0,4°C @ 90°C ±1,5°C @ 180°C
Temperature control	PID	PID	PID
Power supply	230V 50/60Hz	230V 50/60Hz	230V 50/60Hz
Wattage (W)	1700	2600	2600
Interface	RS 232 (USB or Ethernet as accessory)	RS 232 (USB or Ethernet as accessory)	RS 232 (USB or Ethernet as accessory)
Shelve	1 (max 6)	1 (max 6)	1 (max 8)
Shelve capacity (kg)	25	35	35
Max capacity (kg)	30	60	80
Access port (mm)	Ø 40 standard, (Ø 50, Ø 90 as accessory)	Ø 40 standard, (Ø 50, Ø 90 as accessory)	Ø 40 standard, (Ø 50, Ø 90 as accessory)
Noise (dBA) @ 1 m distance	58	58	58
Weight (kg)	125	238	278

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

*Accessories might affect performance!

Technical data:

	TK-340 CK	TK-500 CK	TK-1000 CK
			
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	1,4	3,5	3,8
Cool down rate (°C/min) EN 60068-3-5	1,8	1,8	1,6
Temperature display resolution (°C)	0.1	0.1	0.1
Temperature set resolution (°C)	0.1	0.1	0.1
Temperature stability (°C)	±0,08°C @ 50°C ±0,1°C @ 90°C ±0,1°C @ 180°C	±0,06°C @ 50°C ±0,1°C @ 90°C ±0,1°C @ 180°C	±0,05°C @ 50°C ±0,1°C @ 90°C ±0,1°C @ 180°C
Temperature uniformity (°C)	±0,34°C @ 50°C ±0,41°C @ 90°C ±1,5°C @ 180°C	±0,3°C @ 50°C ±0,4°C @ 90°C ±1,0°C @ 180°C	±0,4°C @ 50°C ±0,5°C @ 90°C ±1,0°C @ 180°C
Temperature control	PID	PID	PID
Power supply	230V 50/60Hz	3x400V 50/60Hz	3x400V 50/60Hz
Wattage (W)	2600	8000	9000
Interface	RS 232 (USB or Ethernet as accessory)	RS 232 (USB or Ethernet as accessory)	RS 232 (USB or Ethernet as accessory)
Shelve	1 (max 8)	1 (max 8)	1 (max 8)
Shelve capacity (kg)	35	50	50
Max capacity (kg)	100	150	200
Access port (mm)	Ø 40 standard, (Ø 50, Ø 90 as accessory)	Ø 40 standard, (Ø 50, Ø 90 as accessory)	Ø 40 standard, (Ø 50, Ø 90 as accessory)
Noise (dBA) @ 1 m distance	58	58	58
Weight (kg)	324	435	604

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

*Accessories might affect performance!

Ordering information and accessories:

Description	Part no.
Temperature chamber TK-50 CK	1759
Temperature chamber TK-105 CK	2509
Temperature chamber TK-190 CK	2512
Temperature chamber TK-340 CK	2515
Temperature chamber TK-500 CK	1745
Temperature chamber TK-1000 CK	2518
Shelve wire TK-50 CK	1766
Shelve wire TK-105 CK	951
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-50 CK	1765
Shelve perforated TK-105 CK	1726
Shelve perforated TK-190 CK	1728
Shelve perforated TK-340 CK	957
Shelve perforated TK-500 CK	959
Shelve perforated TK-1000 CK	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 (TK-105 CK, TK-190 CK, TK-340 CK, TK-500 CK, TK-1000 CK)	252
Observation window with illumination 305x300mm (TK-50 CK)	2637
Trolley for TK-50 CK	1764
USB interface	1466
Ethernet interface	1716
TK-Tool (Software Monitoring & History)	1663
Password protection	1718
Evaluation report 9 points, 3 temperatures - performed by Kambic	1719
Evaluation report 9 points, 3 temperatures - Accredited	1852

