

CLIMATIC CHAMBER

(- 40 °C ...+180 °C)

KK-50 CHLT

KK-105 CHLT

KK-190 CHLT

KK-340 CHLT

KK-500 CHLT

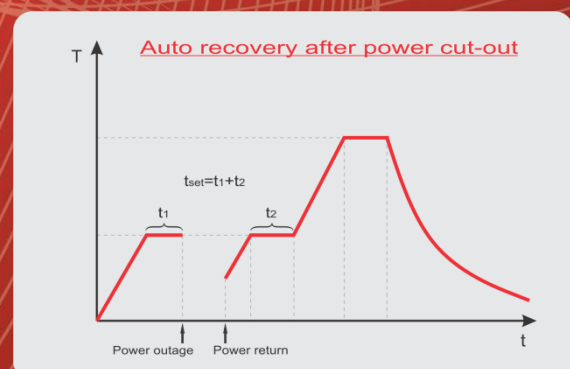
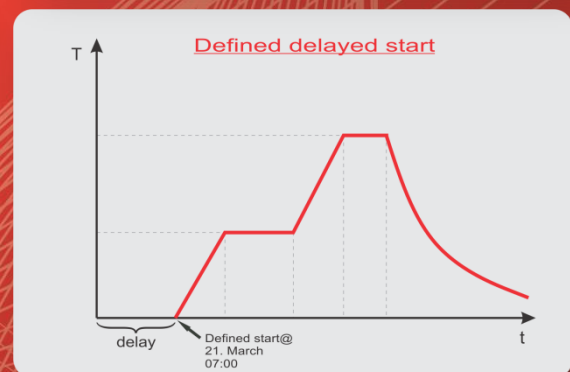
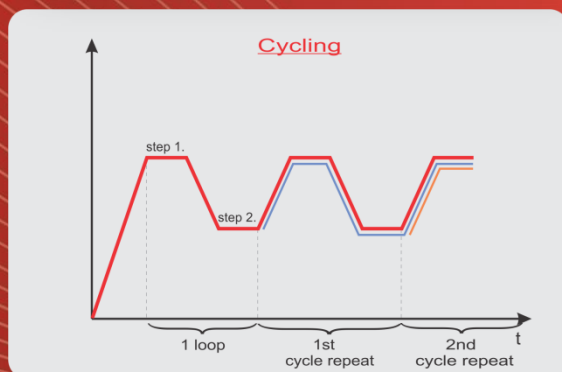
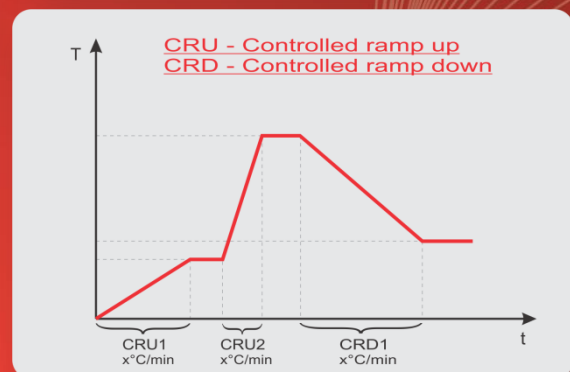
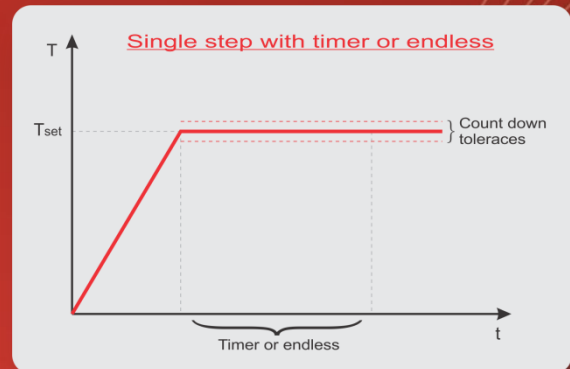
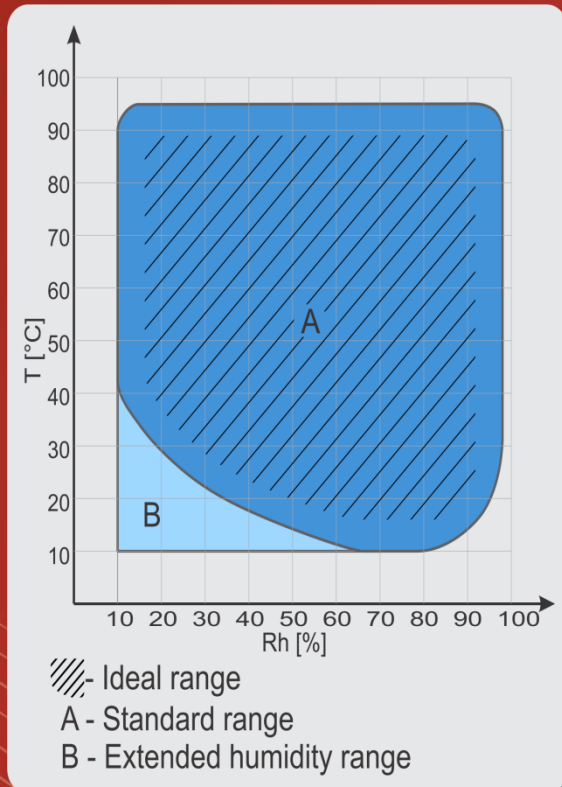
KK-1000 CHLT

- 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





Controller functions:



	KK-50 CHLT	KK-105 CHLT	KK-190 CHLT
			
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)	- 40 ... + 180	- 40 ... + 180	- 40 ... + 180
Heat up rate (°C/min) EN 60068-3-5	5,3	3,0	1,7
Cool down rate (°C/min) EN 60068-3-5	2,1	1,7	3,2
Temperature display resolution (°C)	0.1	0.1	0.1
Temperature set resolution (°C)	0.1	0.1	0.1
Temperature stability (°C)	± 0,2 °C @ - 40 °C ± 0,05 °C @ 50 °C 50 % Rh ± 0,05 °C @ 90 °C 90 % Rh ± 0,1 °C @ 180 °C	± 0,4 °C @ - 40 °C ± 0,08 °C @ 50 °C 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,1 °C @ 180 °C	± 0,5 °C @ - 40 °C ± 0,08 °C @ 50 °C 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,1 °C @ 180 °C
Temperature uniformity (°C)	± 2,2 °C @ - 40 °C ± 0,4 °C @ 50 °C 50 % Rh ± 0,4 °C @ 90 °C 90 % Rh ± 1,5 °C @ 180 °C	± 1,5 °C @ - 40 °C ± 0,3 °C @ 50 °C 50 % Rh ± 0,3 °C @ 90 °C 90 % Rh ± 1,5 °C @ 180 °C	± 1,5 °C @ - 40 °C ± 0,6 °C @ 50 °C 50 % Rh ± 0,4 °C @ 90 °C 90 % Rh ± 1,5 °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 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 50/60Hz	230V 50/60Hz	230V 50/60Hz
Wattage (W)	2300	3200	3600
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	60
Weight (kg)	125	238	278

	KK-340 CHLT	KK-500 CHLT	KK-1000 CHLT
			
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)	- 40 ... + 180	- 40 ... + 180	- 40 ... + 180
Heat up rate (°C/min) EN 60068-3-5	2,4	3,0	3,0
Cool down rate (°C/min) EN 60068-3-5	2,1	1,2	1,8
Temperature display resolution (°C)	0.1	0.1	0.1
Temperature set resolution (°C)	0.1	0.1	0.1
Temperature stability (°C)	± 0,5 °C @ - 40 °C ± 0,08 °C @ 50 °C 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,1 °C @ 180 °C	± 0,5 °C @ - 40 °C ± 0,06 °C @ 50 °C 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,1 °C @ 180 °C	± 0,5 °C @ - 40 °C ± 0,05 °C @ 50 °C 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,1 °C @ 180 °C
Temperature uniformity (°C)	± 1,5 °C @ - 40 °C ± 0,34 °C @ 50 °C 50 % Rh ± 0,41 °C @ 90 °C 90 % Rh ± 1,5 °C @ 180 °C	± 0,5 °C @ - 40 °C ± 0,3 °C @ 50 °C 50 % Rh ± 0,4 °C @ 90 °C 90 % Rh ± 1,0 °C @ 180 °C	± 0,5 °C @ - 40 °C ± 0,4 °C @ 50 °C 50 % Rh ± 0,5 °C @ 90 °C 90 % Rh ± 1,0 °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 ± 0,6 % @ 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 50/60Hz	3x400V 50/60Hz	3x400V 50/60Hz
Wattage (W)	3600	9000	12000
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)	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	60	62	65
Weight (kg)	324	435	604

Ordering information and accessories:

Description	Part no.
Climatic chamber KK-50 CHLT	2572
Climatic chamber KK-105 CHLT	937
Climatic chamber KK-190 CHLT	912
Climatic chamber KK-340 CHLT	935
Climatic chamber KK-500 CHLT	988
Climatic chamber KK-1000 CHLT	936
Shelve wire KK-50 CHLT	1766
Shelve wire KK-105 CHLT	951
Shelve wire KK-190 CHLT	953
Shelve wire KK-340 CHLT	956
Shelve wire KK-500 CHLT	958
Shelve wire KK-1000 CHLT	960
Shelve perforated KK-50 CHLT	1765
Shelve perforated KK-105 CHLT	952
Shelve perforated KK-190 CHLT	954
Shelve perforated KK-340 CHLT	957
Shelve perforated KK-500 CHLT	959
Shelve perforated KK-1000 CHLT	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 (KK-105 CHLT, KK-190 CHLT, KK-340 CHLT, KK-500 CHLT, KK-1000 CHLT)	252
Observation window with illumination 305x300mm (KK-50 CHLT)	2637
Automatic water feeding	1744
Extended Rh range via dry air purge	1758
Trolley for KK-50 CHLT	2207
USB interface	1466
Ethernet interface	1716
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!

