



TEMPERATURE CHAMBERS

(- 75 °C ...+ 180 °C)

Model:

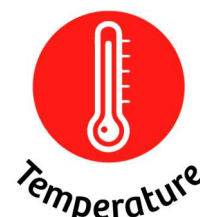
TK-190 CKULT

TK-340 CKULT

TK-500 CKULT

TK-1000 CKULT

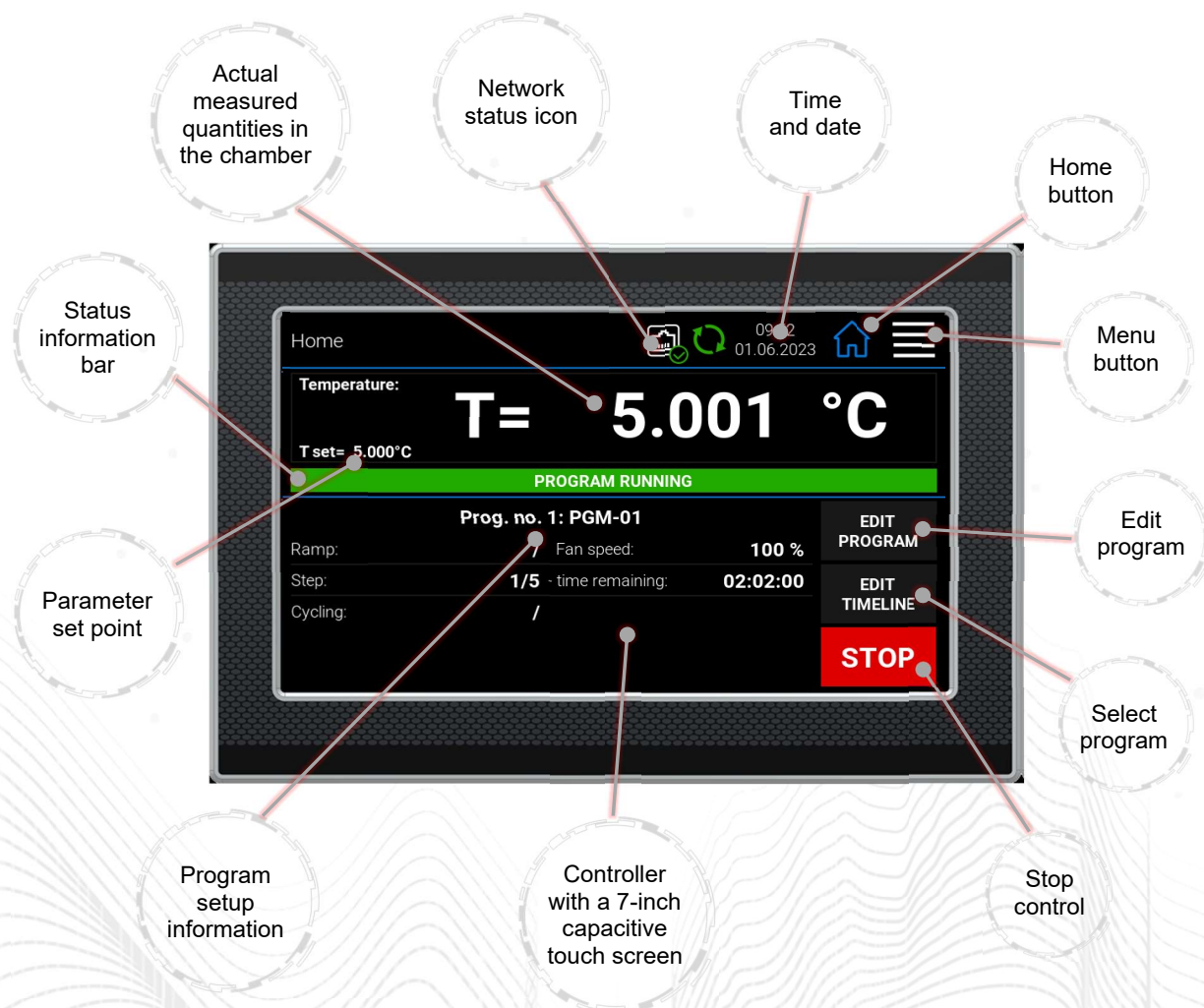
- Material temperature resistance and product testing
- Maintaining superior temperature stability
- Sample conditioning prior to other tests
- Data loggers and sensors calibration
- Temperature controlled test polygon
- World class metrology performance
 - Accelerated ageing
 - Stress tests



Device description:



Touch display with advanced controller functions:



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

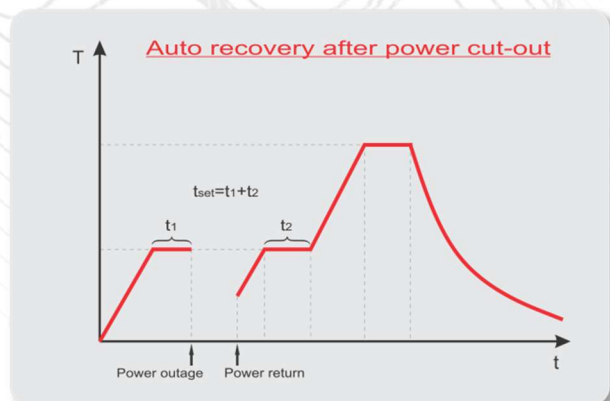
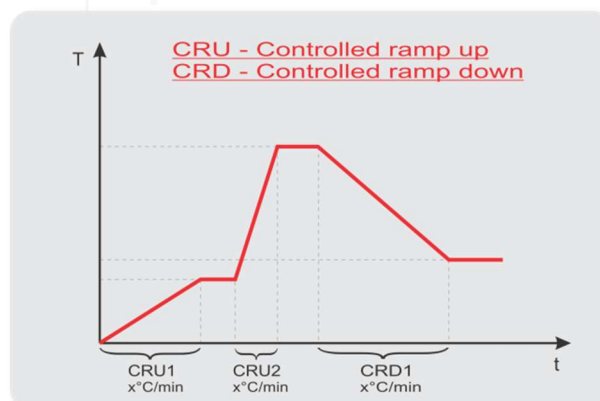
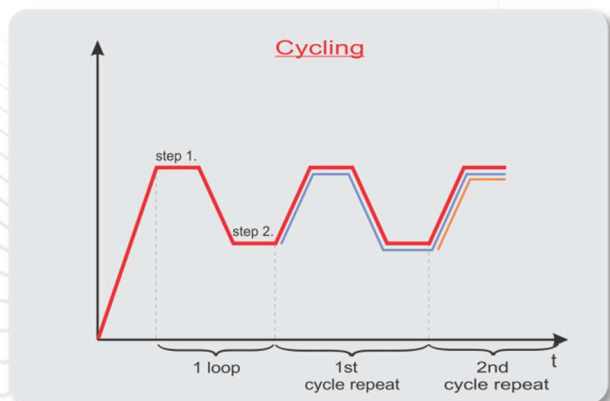
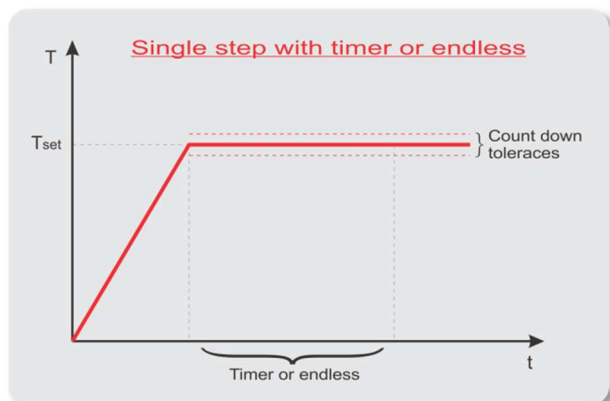


Function keys for viewing manipulation of the graph

Real time data drawn to graph

Full process history overview

Controller functions:



	TK-190 CKULT	TK-340 CKULT
		
External dimensions (WxHxD) [mm]	835 x 1721 x 1126	875 x 1985 x 1326
Internal dimensions (WxHxD) [mm]	610 x 615 x 510	600 x 835 x 685
Volume [L]	~ 190	~ 340
Temperature range [°C]	- 75 ...+ 180	- 75 ...+ 180
Heat up rate [°C/min] (according to EN 60068-3-5)	2.2	1.6
Cool down rate [°C/min] (according to EN 60068-3-5)	2.4	2.7
Temperature display res [°C]	0.1	0.1
Temperature set res. [°C]	0.1	0.1
Temperature stability [°C]	$\pm 0.5^{\circ}\text{C} @ - 75^{\circ}\text{C}$ $\pm 0.1^{\circ}\text{C} @ 50^{\circ}\text{C}$ $\pm 0.1^{\circ}\text{C} @ 90^{\circ}\text{C}$ $\pm 0.2^{\circ}\text{C} @ 180^{\circ}\text{C}$	$\pm 0.5^{\circ}\text{C} @ - 75^{\circ}\text{C}$ $\pm 0.08^{\circ}\text{C} @ 50^{\circ}\text{C}$ $\pm 0.08^{\circ}\text{C} @ 90^{\circ}\text{C}$ $\pm 0.2^{\circ}\text{C} @ 180^{\circ}\text{C}$
Temperature uniformity [°C]	$\pm 1.2^{\circ}\text{C} @ - 75^{\circ}\text{C}$ $\pm 0.5^{\circ}\text{C} @ 50^{\circ}\text{C}$ $\pm 0.5^{\circ}\text{C} @ 90^{\circ}\text{C}$ $\pm 2.0^{\circ}\text{C} @ 180^{\circ}\text{C}$	$\pm 1.0^{\circ}\text{C} @ - 75^{\circ}\text{C}$ $\pm 0.5^{\circ}\text{C} @ 50^{\circ}\text{C}$ $\pm 0.5^{\circ}\text{C} @ 90^{\circ}\text{C}$ $\pm 1.5^{\circ}\text{C} @ 180^{\circ}\text{C}$
Heat compensation [W]	$\sim 300 @ - 60^{\circ}\text{C}$ $\sim 1000 @ - 20^{\circ}\text{C}$	$\sim 500 @ - 60^{\circ}\text{C}$ $\sim 1200 @ - 20^{\circ}\text{C}$
Temperature control	PID (PT-100)	PID (PT-100)
Power supply	3x400V 50/60Hz	3x400V 50/60Hz
Wattage [W]	6300	9800
Interface	USB and Ethernet	USB and Ethernet
Shelve	1 (max 8)	1 (max 8)
Shelve capacity [kg]	35	35
Max capacity [kg]	80	100
Observation window	As standard	As standard
Access port [mm]	Ø 50 (left side)	Ø 50 (left side)
Noise [dBA] @ 1 m distance	67	67
Weight [kg]	420	460

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

**Accessories might affect performance!*

	TK-500 CKULT	TK-1000 CKULT
		
External dimensions (WxHxD) [mm]	1165 x 1985 x 1640	1235 x 2000 x 1816
Internal dimensions (WxHxD) [mm]	810 x 800 x 800	1010 x 1000 x 1000
Volume [L]	~ 500	~ 1000
Temperature range [°C]	- 75 ...+ 180	- 75 ...+ 180
Heat up rate [°C/min] (according to EN 60068-3-5)	3.6	3.5
Cool down rate [°C/min] (according to EN 60068-3-5)	2.2	2.1
Temperature display res [°C]	0.1	0.1
Temperature set res. [°C]	0.1	0.1
Temperature stability [°C]	± 0.8 °C @ - 75 °C ± 0.1 °C @ 50 °C ± 0.1 °C @ 90 °C ± 0.2 °C @ 180 °C	± 0.8 °C @ - 75 °C ± 0.1 °C @ 50 °C ± 0.1 °C @ 90 °C ± 0.2 °C @ 180 °C
Temperature uniformity [°C]	± 1.0 °C @ - 75 °C ± 0.5 °C @ 50 °C ± 0.5 °C @ 90 °C ± 1.5 °C @ 180 °C	± 1.0 °C @ - 75 °C ± 0.5 °C @ 50 °C ± 0.5 °C @ 90 °C ± 1.5 °C @ 180 °C
Heat compensation [W]	~ 1000 @ - 60 °C ~ 2500 @ - 20 °C	~ 1350 @ - 60 °C ~ 3000 @ - 20 °C
Temperature control	PID (PT-100)	PID (PT-100)
Power supply	3x400V 50/60Hz	3x400V 50/60Hz
Wattage [W]	16300	18000
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	68	68
Weight [kg]	610	870

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

*Accessories might affect performance!

Ordering information and accessories:

Description	Part no.
Temperature chamber TK-190 CKULT	1234
Temperature chamber TK-340 CKULT	3032
Temperature chamber TK-500 CKULT	3033
Temperature chamber TK-1000 CKULT	3034
Shelve wire TK-190 CKULT	953
Shelve wire TK-340 CKULT	956
Shelve wire TK-500 CKULT	958
Shelve wire TK-1000 CKULT	960
Shelve perforated TK-190 CKULT	954
Shelve perforated TK-340 CKULT	957
Shelve perforated TK-500 CKULT	959
Shelve perforated TK-1000 CKULT	961
Access Port w. Plug Ø 50 mm right (<i>*specify position</i>)	899
Access Port w. Plug Ø 100 mm right (<i>*specify position</i>)	900
Evaluation report 9 points, 3 climatic values - performed by Kambic	1719
Evaluation report 9 points, 3 climatic values - Accredited	1777

**Accessories might affect performance!*

