

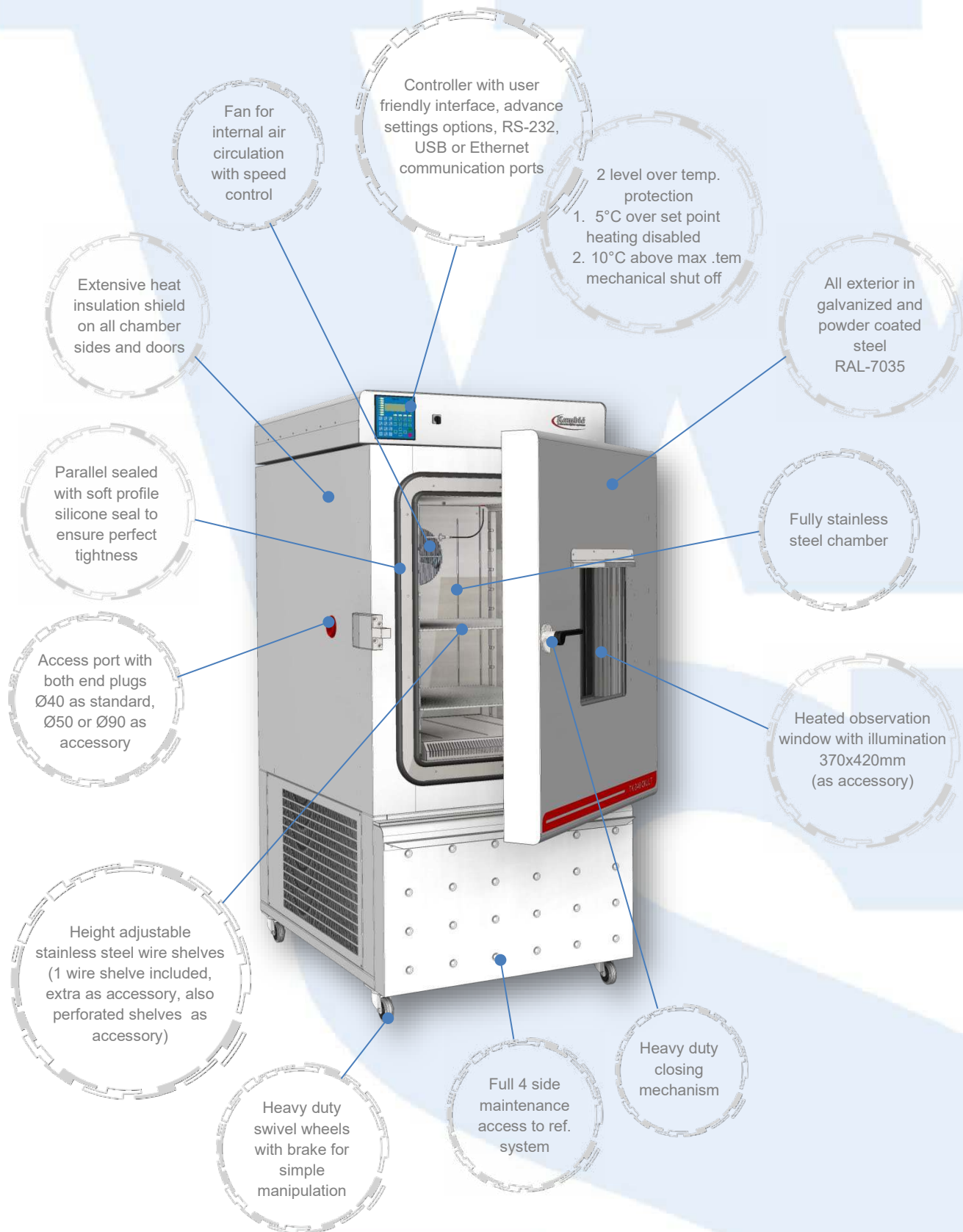
Temperature Chamber

(-75°C ... +180°C)

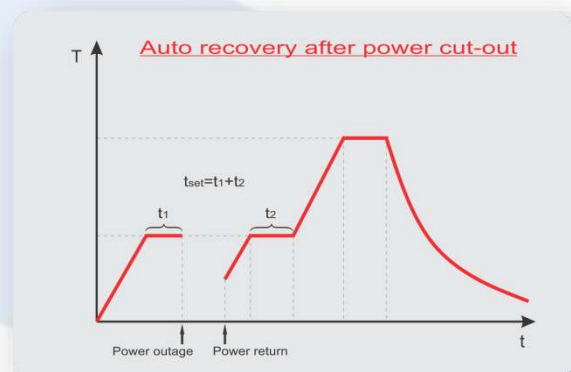
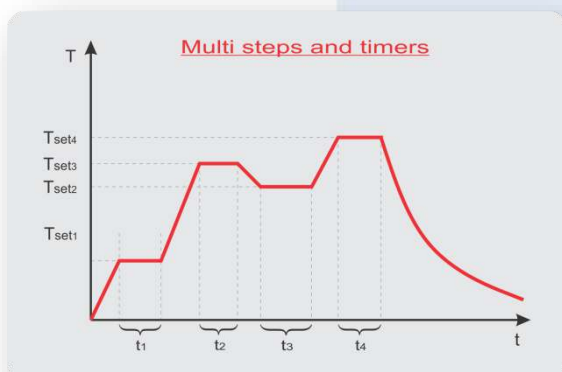
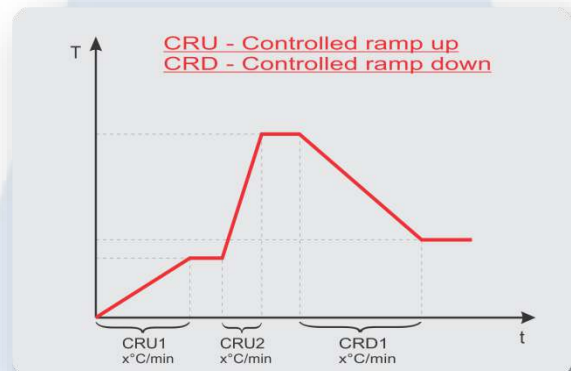
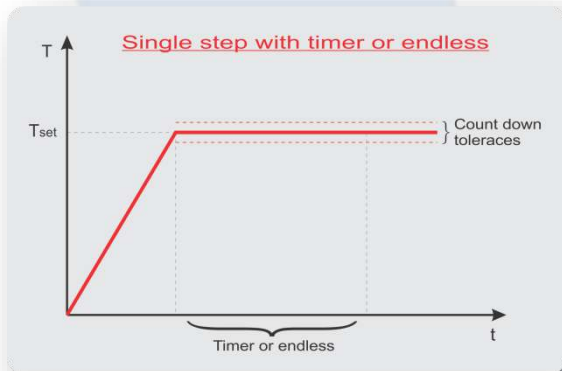
TK-105 CKULT
TK-190 CKULT
TK-340 CKULT
TK-500 CKULT
TK-1000 CKULT

- 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

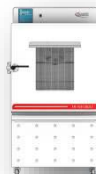
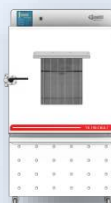




Controller functions:



Technical data:

	TK-105 CKULT	TK-190 CKULT	TK-340 CKULT
			
External dimensions (WxHxD) in mm	850 x 1715 x 1100	940 x 1832 x 1125	940 x 2052 x 1310
Internal dimensions (WxHxD) in mm	530 x 500 x 460	620 x 514 x 590	620 x 810 x 690
Volume (L)	~ 105	~ 190	~ 340
Temperature range (°C)	-75 ...+180	-75 ...+180	-75 ...+180
Heat up rate (°C/min) EN 60068-3-5	2,6	2,2	2,3
Cool down rate (°C/min) EN 60068-3-5	2,4	4,9	2,9
Temperature display resolution (°C)	0.1	0.1	0.1
Temperature set resolution (°C)	0.1	0.1	0.1
Temperature stability (°C)	±1,0°C @ -75°C ±0,08°C @ 50°C ±0,1°C @ 90°C ±0,1°C @ 180°C	±1,2°C @ -75°C ±0,08°C @ 50°C ±0,08°C @ 90°C ±0,1°C @ 180°C	±1,2°C @ -75°C ±0,08°C @ 50°C ±0,08°C @ 90°C ±0,1°C @ 180°C
Temperature uniformity (°C)	±1,5°C @ -75°C ±0,5°C @ 50°C ±0,5°C @ 90°C ±1,5°C @ 180°C	±1,5°C @ -75°C ±0,5°C @ 50°C ±0,5°C @ 90°C ±1,5°C @ 180°C	±1,5°C @ -75°C ±0,5°C @ 50°C ±0,5°C @ 90°C ±1,5°C @ 180°C
Temperature control	PID	PID	PID
Power supply	3x400V 50/60Hz	3x400V 50/60Hz	3x400V 50/60Hz
Wattage (W)	4500	6500	7500
Interface	RS 232 USB or Ethernet (accessory)	RS 232 USB or Ethernet (accessory)	RS 232 USB or Ethernet (accessory)
Shelve	1 (max 6)	1 (max 8)	1 (max 8)
Shelve capacity (kg)	35	35	35
Max capacity (kg)	60	80	100
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	67	67	67
Weight (kg)	405	440	480

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

*Accessories might affect performance!

Technical data:

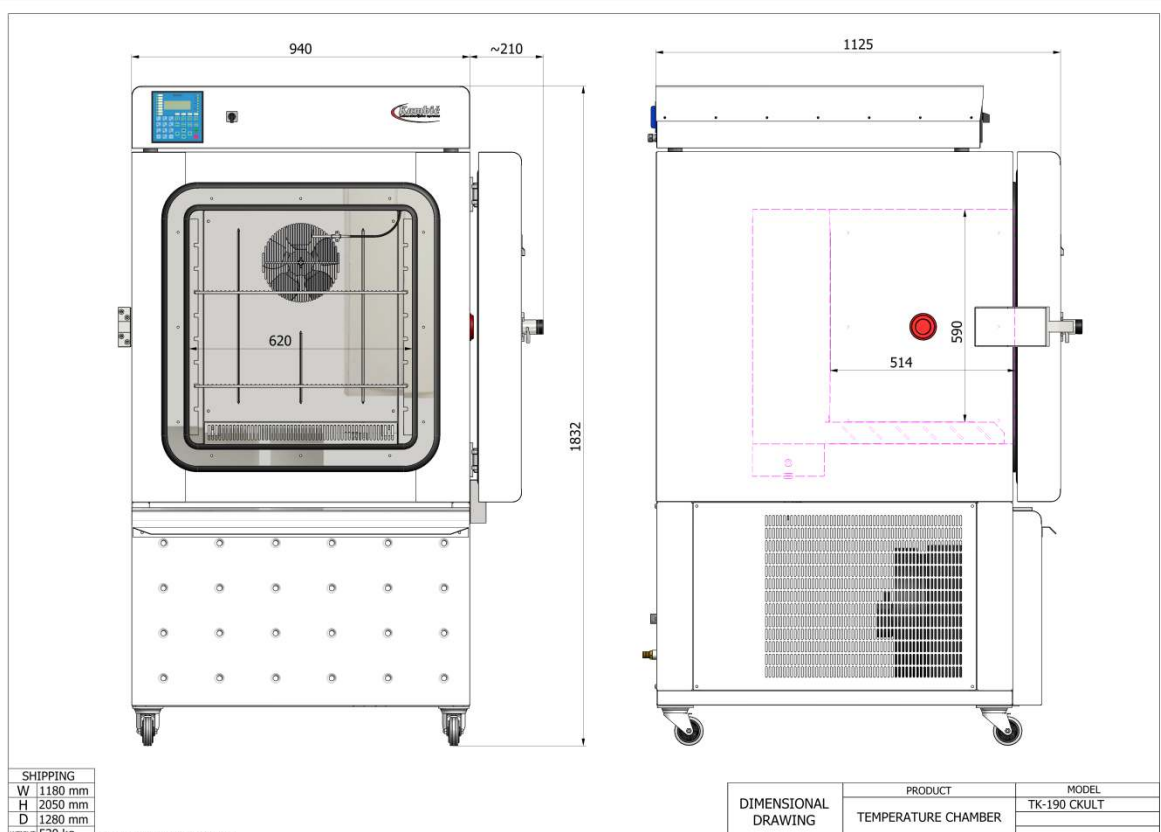
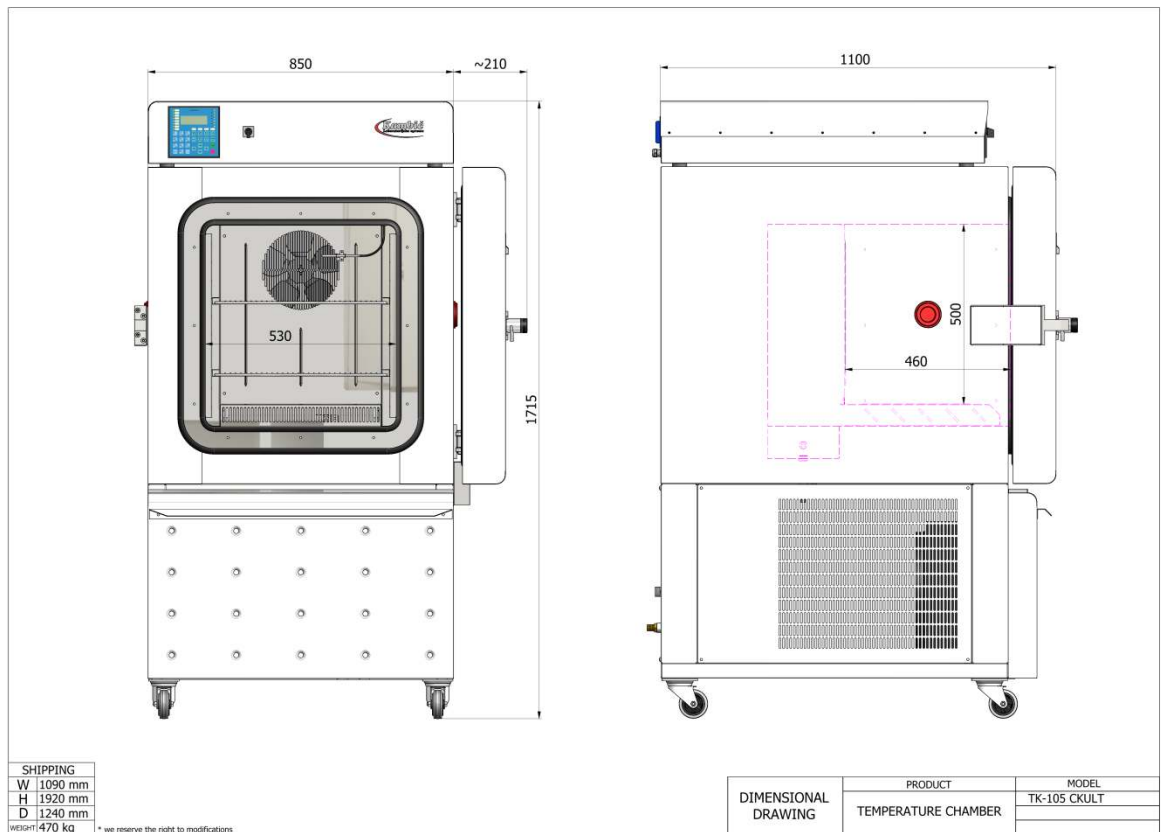
	TK-500 CKULT	TK-1000 CKULT
		
External dimensions (WxHxD) in mm	1165 x 1985 x 1640	1375 x 2068 x 1900
Internal dimensions (WxHxD) in mm	870 x 800 x 800	1070 x 1000 x 1000
Volume (L)	~ 500	~ 1000
Temperature range (°C)	-75 ... +180	-75 ... +180
Heat up rate (°C/min) EN 60068-3-5	2,3	2,3
Cool down rate (°C/min) EN 60068-3-5	1,2	1,2
Temperature display resolution (°C)	0.1	0.1
Temperature set resolution (°C)	0.1	0.1
Temperature stability (°C)	±1,0°C @ -75°C ±0,1°C @ 50°C ±0,1°C @ 90°C ±0,1°C @ 180°C	±1,0°C @ -75°C ±0,1°C @ 50°C ±0,1°C @ 90°C ±0,1°C @ 180°C
Temperature uniformity (°C)	±1,5°C @ -75°C ±0,5°C @ 50°C ±0,5°C @ 90°C	±1,0°C @ -75°C ±0,5°C @ 50°C ±0,5°C @ 90°C
Temperature control	PID	PID
Power supply	3x400V 50/60Hz	3x400V 50/60Hz
Wattage (W)	10000	10000
Interface	RS 232 (USB or Ethernet as accessory)	RS 232 (USB or Ethernet as accessory)
Shelve	1 (max 6)	1 (max 8)
Shelve capacity (kg)	50	50
Max capacity (kg)	150	200
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	68	68
Weight (kg)	530	890

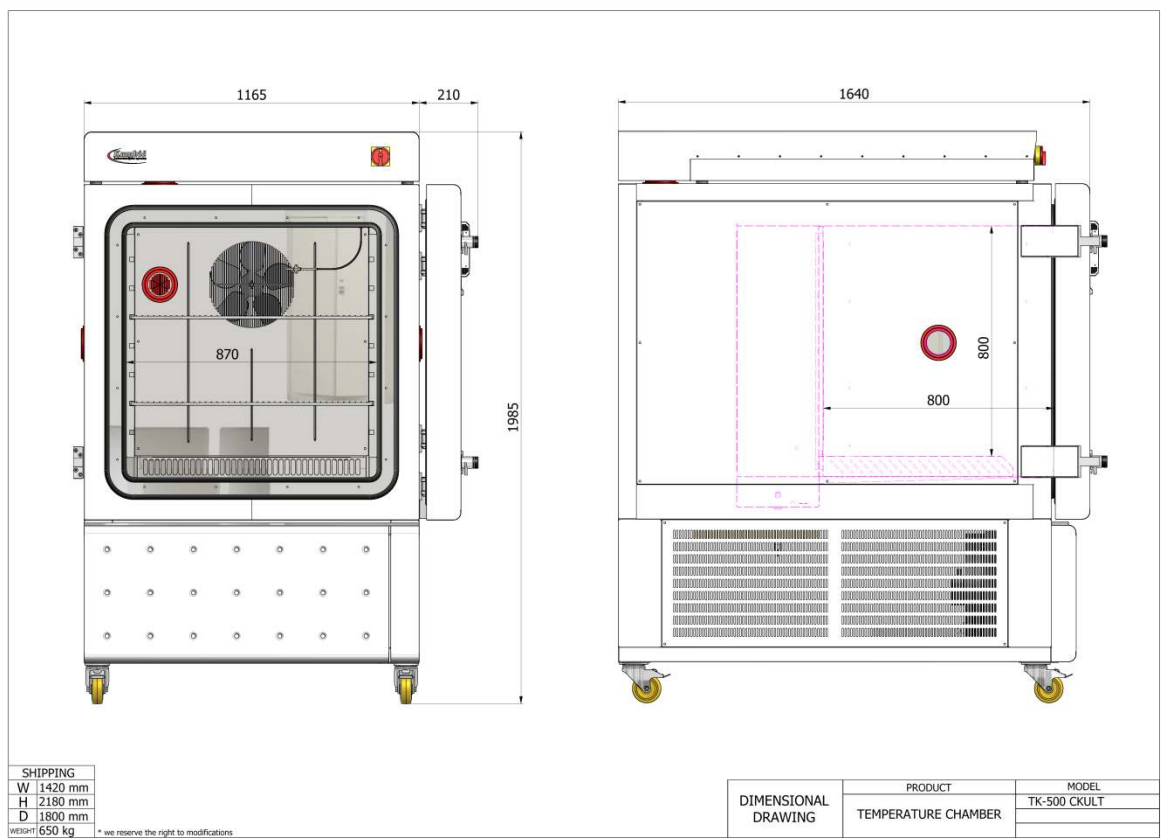
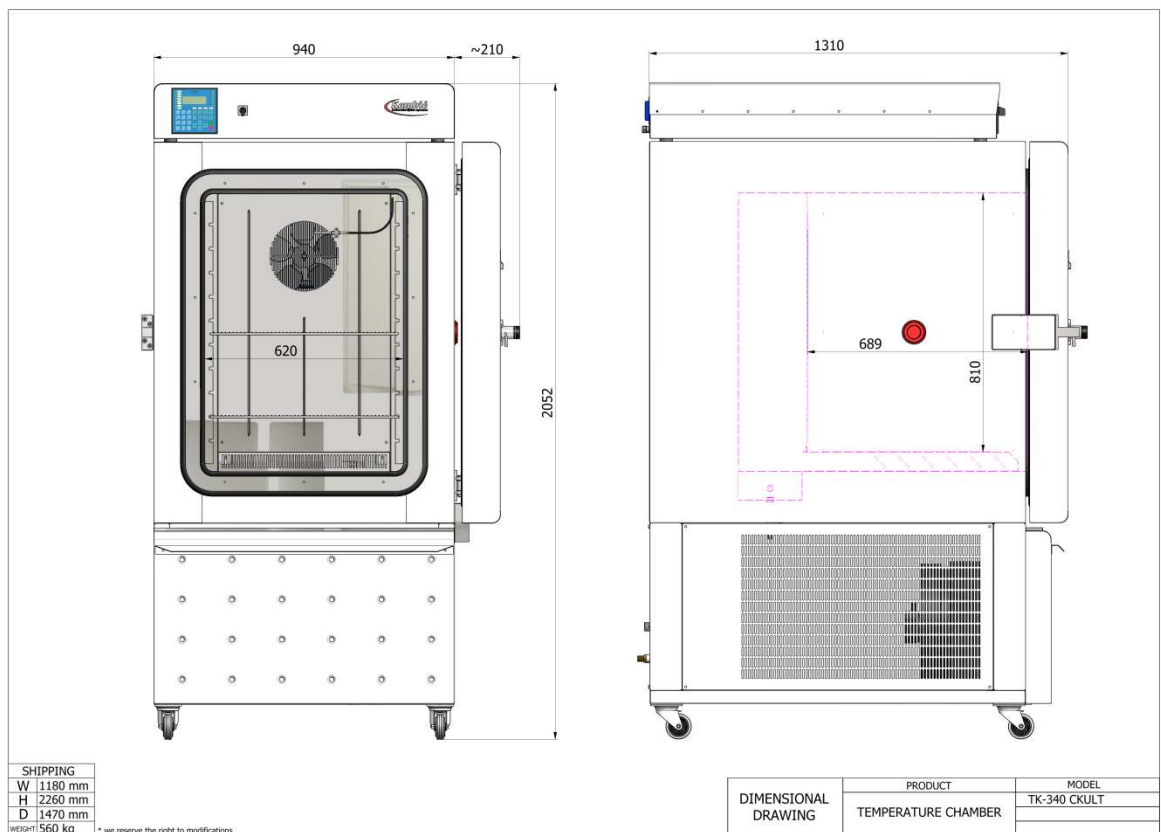
*All performance in controlled stable environment ($T_{\text{ambient}} = + 22 \text{ °C} \pm 3 \text{ °C}$)!

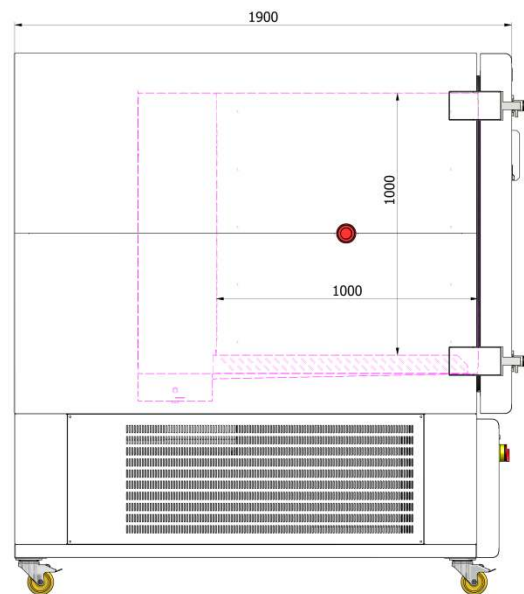
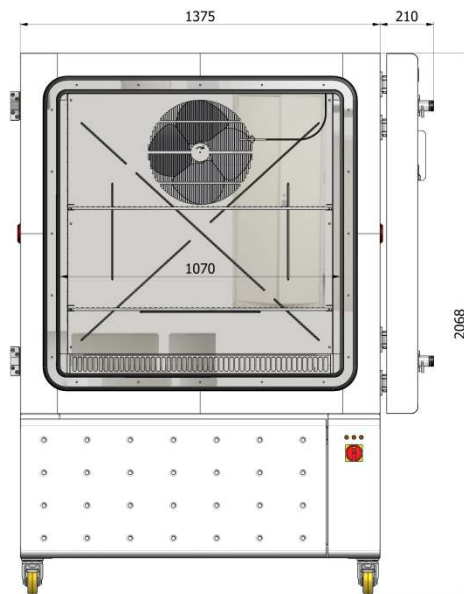
*Accessories might affect performance!

Ordering information and accessories:

Description	Part no.
Temperature chamber TK-105 CKULT	2511
Temperature chamber TK-190 CKULT	2514
Temperature chamber TK-340 CKULT	2517
Temperature chamber TK-500 CKULT	1747
Temperature chamber TK-1000 CKULT	2520
Shelve wire TK-105 CKULT	951
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-105 CKULT	1726
Shelve perforated TK-190 CKULT	1728
Shelve perforated TK-340 CKULT	957
Shelve perforated TK-500 CKULT	959
Shelve perforated TK-1000 CKULT	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
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







SHIPPING	
W	1610 mm
H	2320 mm
D	2135 mm
WEIGHT	1130 kg

* we reserve the right to modifications

DIMENSIONAL DRAWING	PRODUCT	MODEL
	TEMPERATURE CHAMBER	TK-1000 CKULT