

ULTRA FAST

CLIMATIC CHAMBER

(10 °C/min)
(- 40 °C ...+180 °C)

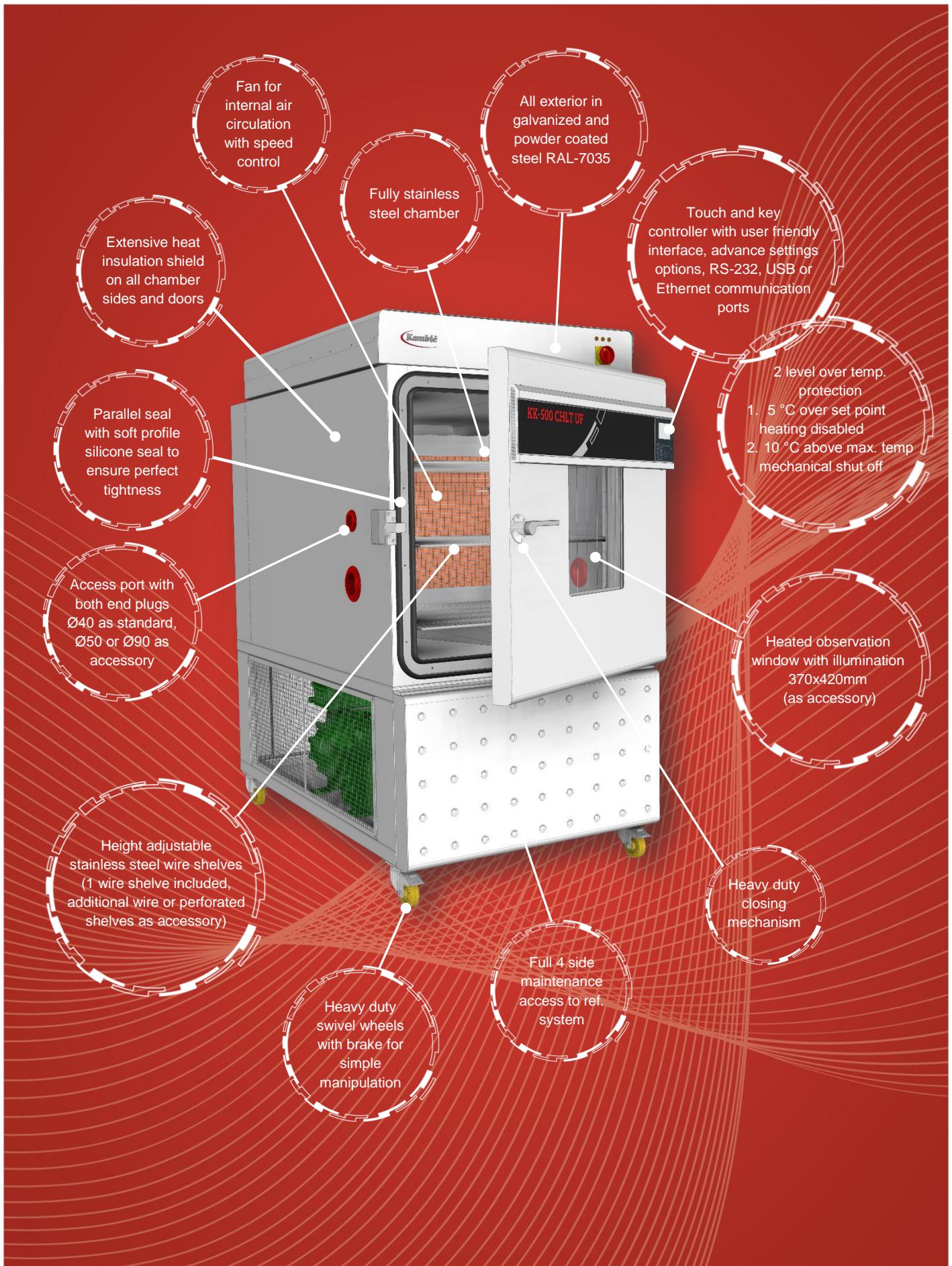
KK-340 CHLT UF

KK-500 CHLT UF

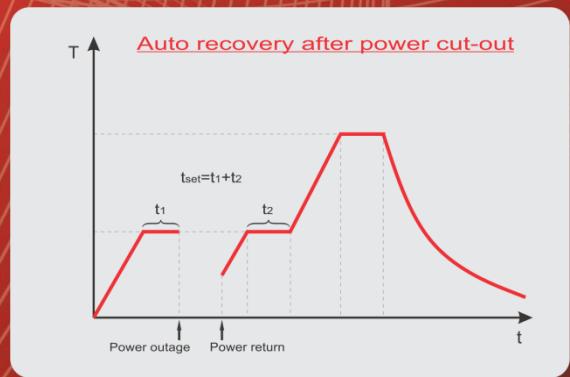
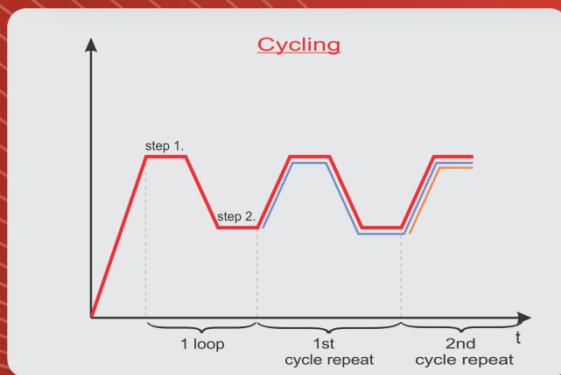
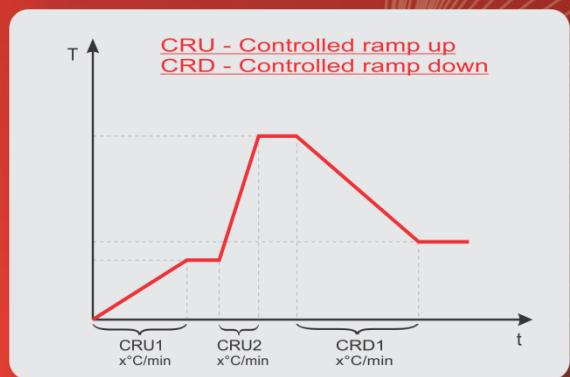
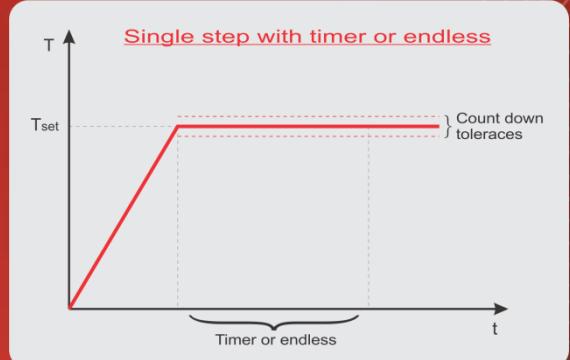
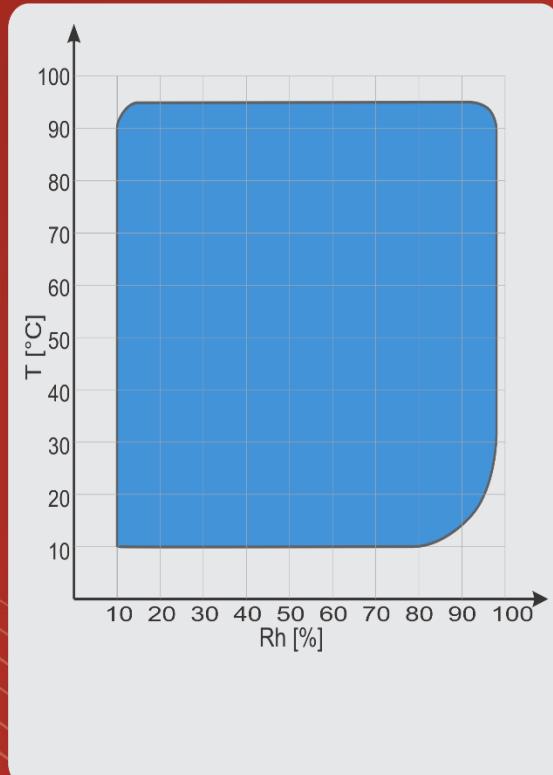
KK-1000 CHLT UF

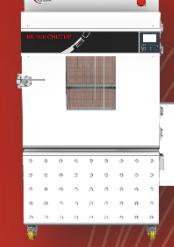
- Temperature and relative humidity controlled test polygon
 - Material temperature resistance and product testing
 - Maintaining superior temperature & Rh stability
 - Sample conditioning prior to other tests
 - World class metrology performance
 - Accelerated ageing
 - Stress tests





Controller functions:



	KK-340 CHLT UF	KK-500 CHLT UF
		
External dimensions (W x H x D) in mm	835* x 1986 x 1576	1035* x 1956 x 1693
Internal dimensions (W x H x D) in mm	670 x 900 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	10	7,5
Cool down rate (°C/min) EN 60068-3-5	10	10
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% @ 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	3x400V 50/60Hz	3x400V 50/60Hz
Wattage (W)	18000	21000
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	~ 68	~ 70
Weight (kg)	~ 430	~ 580

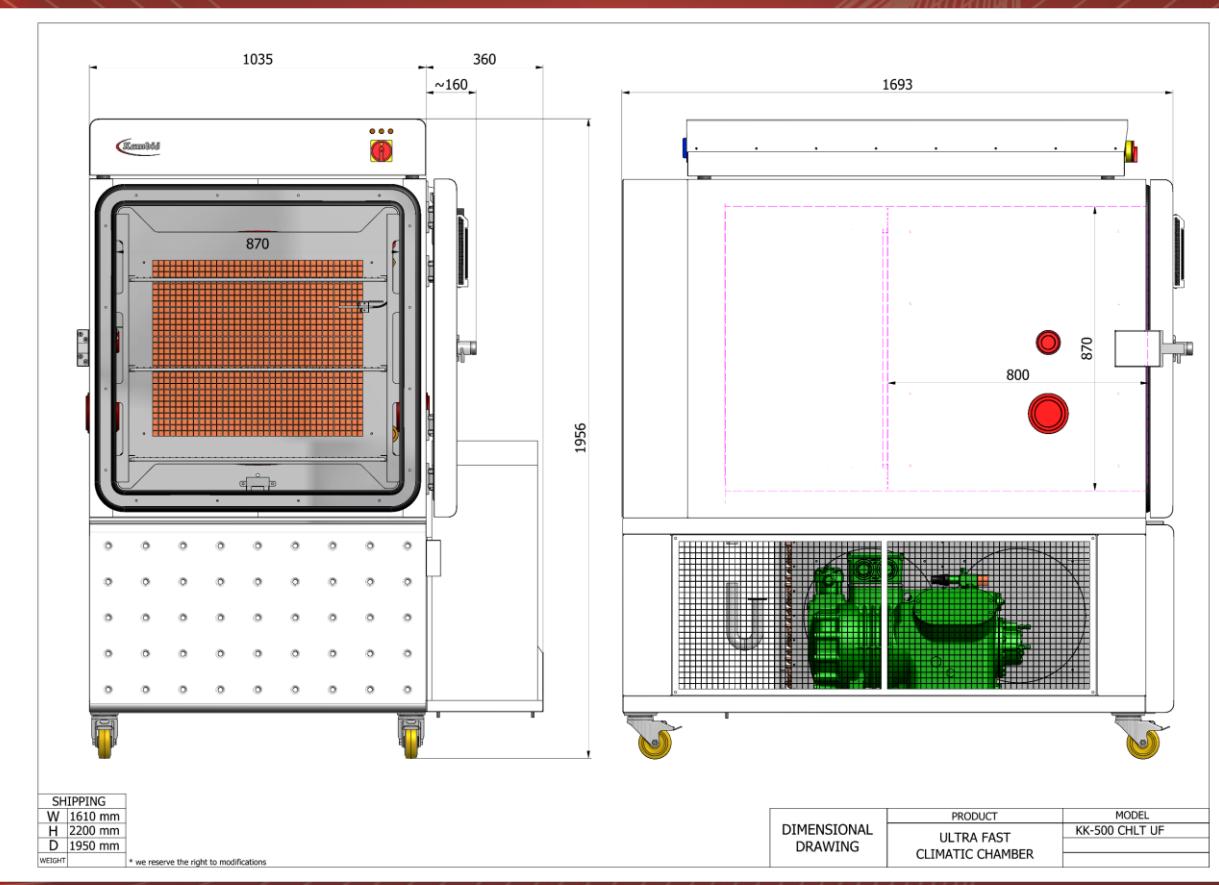
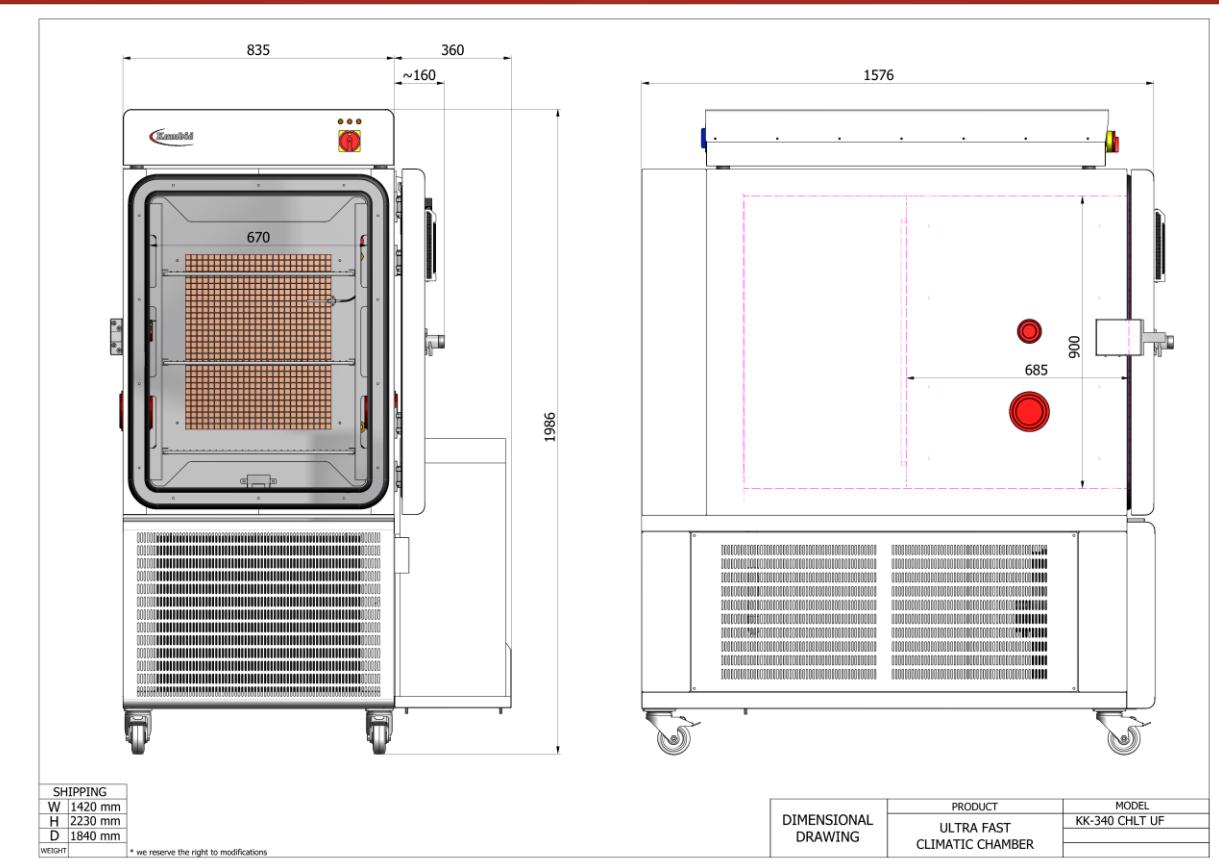
*All performance in controlled stable environment ($T_{\text{ambient}} = + 22 \text{ }^{\circ}\text{C} \pm 3 \text{ }^{\circ}\text{C}$)! *Accessories might affect performance!

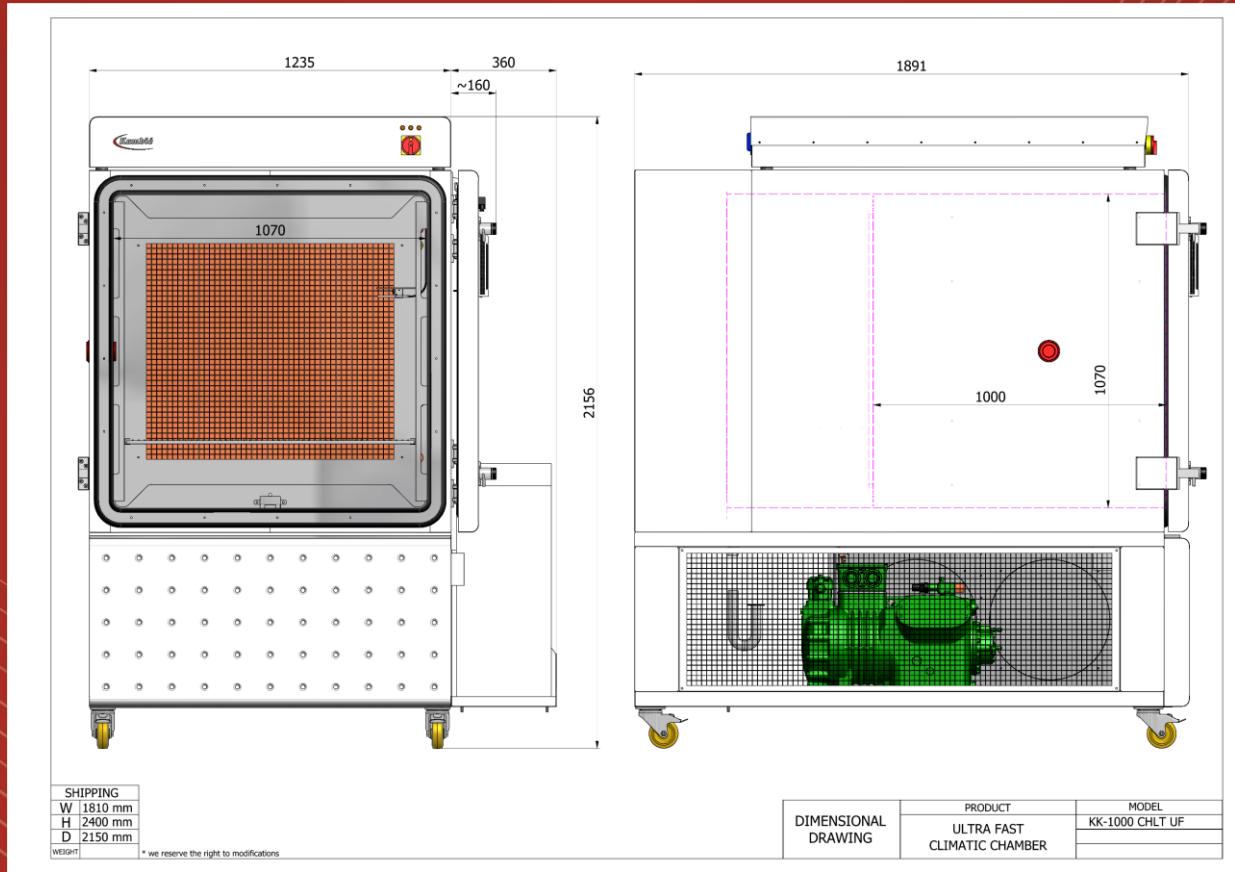
KK-1000 CHLT UF	
	
External dimensions (W x H x D) in mm	1235* x 2156 x 1891
Internal dimensions (W x H x D) in mm	1070 x 1070 x 1000
Volume (L)	~ 1000
Temperature range (°C)	- 40 ... + 180
Heat up rate (°C/min) EN 60068-3-5	8
Cool down rate (°C/min) EN 60068-3-5	10
Temperature display resolution (°C)	0.1
Temperature set resolution (°C)	0.1
Temperature stability (°C)	$\pm 0.5^{\circ}\text{C}$ @ - 40 °C $\pm 0.2^{\circ}\text{C}$ @ + 23 °C 50 % Rh $\pm 0.3^{\circ}\text{C}$ @ + 50 °C 50 % Rh $\pm 0.3^{\circ}\text{C}$ @ + 90 °C 90 % Rh $\pm 0.5^{\circ}\text{C}$ @ + 180 °C
Temperature uniformity (°C)	$\pm 1.5^{\circ}\text{C}$ @ - 40 °C $\pm 0.5^{\circ}\text{C}$ @ + 23 °C 50 % Rh $\pm 1.0^{\circ}\text{C}$ @ + 50 °C 50 % Rh $\pm 0.5^{\circ}\text{C}$ @ + 90 °C 90 % Rh $\pm 3.0^{\circ}\text{C}$ @ + 180 °C
Relative humidity range (%)	10...98
Relative humidity display resolution (%)	0.1
Relative humidity set resolution (%)	1
Relative humidity stability (%)	$\pm 1\%$ @ 50°C 50% Rh $\pm 1\%$ @ 90°C 90% Rh
Temperature control	PID
Relative humidity control	Dew point humidity control / dry air purge for extended
Power supply	3x400V 50/60Hz
Wattage (W)	21000
Interface	RS 232 (USB and Ethernet as accessory)
Shelve	1 (max 6)
Shelve capacity (kg)	50
Max capacity (kg)	200
Access port (mm)	\varnothing 40 standard, (\varnothing 50, \varnothing 90 as accessory)
Noise (dBA) @ 1 m distance	~ 72
Weight (kg)	680

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

Ordering information and accessories:

Description	Part no.
Climatic chamber KK-340 CHLT UF	2849
Climatic chamber KK-500 CHLT UF	2850
Climatic chamber KK-1000 CHLT UF	2851
Shelve wire KK-340 CHLT UF	956
Shelve wire KK-500 CHLT UF	958
Shelve wire KK-1000 CHLT UF	960
Shelve perforated KK-340 CHLT UF	957
Shelve perforated KK-500 CHLT UF	959
Shelve perforated KK-1000 CHLT UF	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 climatic values - performed by Kambic	1719
Evaluation report 9 points, 3 climatic values - Accredited	1777





Cal Power

Via Acquanera, 29
tel. 031.526.566 (r.a.)
info@calpower.it www.calpower.it
22100 COMO
fax 031.507.984