

# CLIMATIC CHAMBER

**(- 75 °C ...+ 180 °C)**

**KK-105 CHULT**

**KK-190 CHULT**

**KK-340 CHULT**

**KK-500 CHULT**

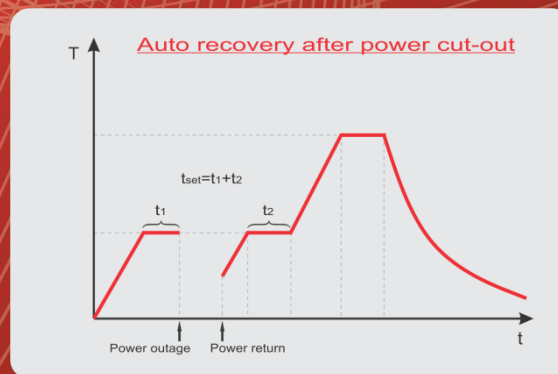
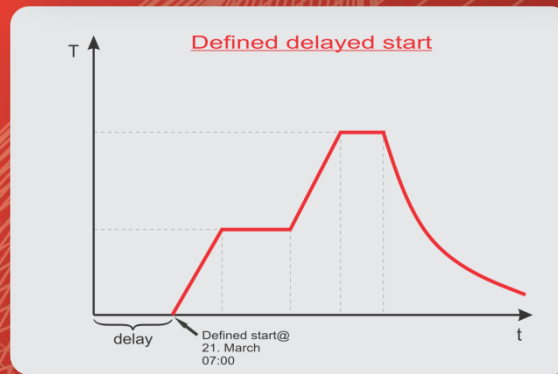
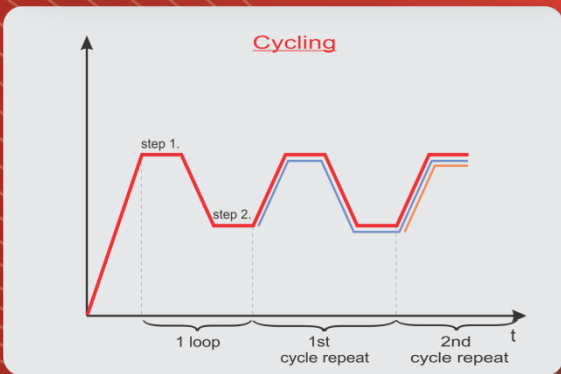
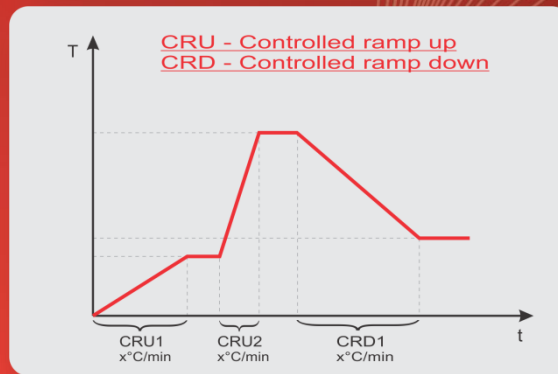
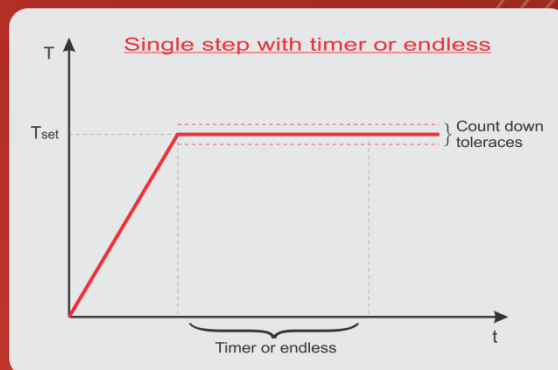
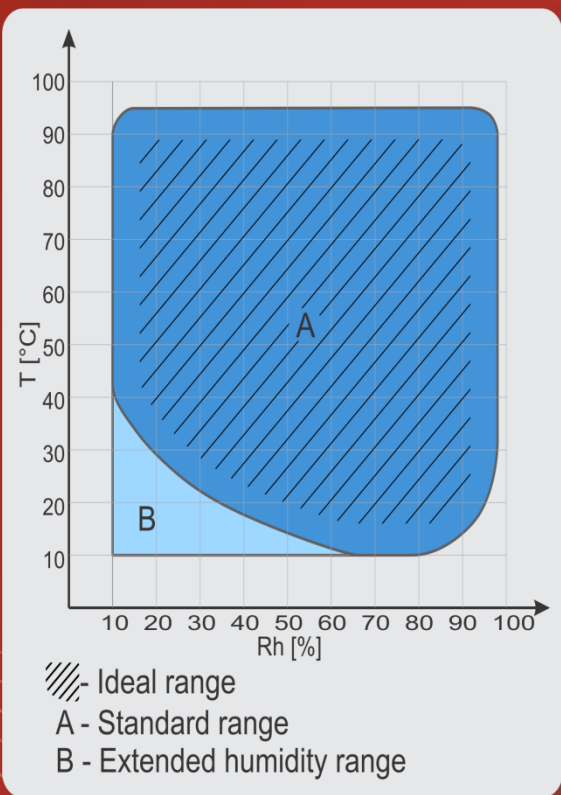
**KK-1000 CHULT**




- 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-105 CHULT	KK-190 CHULT	KK-340 CHULT
			
External dimensions (WxHxD) in mm	850 x 1715 x 1100	940 x 1830 x 1125	940 x 2052 x 1310
Internal dimensions (WxHxD) in mm	530 x 500 x 460	620 x 590 x 515	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	2,7	2,2	1,5
Cool down rate (°C/min) EN 60068-3-5	2,4	2,2	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)	± 1,0 °C @ - 75 °C ± 0,08 °C @ 50 °C 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,2 °C @ 180 °C	± 1,0 °C @ - 75 °C ± 0,08 °C @ 50 °C 50 % Rh ± 0,08 °C @ 90 °C 90 % Rh ± 0,4 °C @ 180 °C	± 1,0 °C @ - 75 °C ± 0,08 °C @ 50 °C 50 % Rh ± 0,08 °C @ 90 °C 90 % Rh ± 0,2 °C @ 180 °C
Temperature uniformity (°C)	± 1,5 °C @ - 75 °C ± 0,5 °C @ 50 °C 50 % Rh ± 0,5 °C @ 90 °C 90 % Rh ± 1,5 °C @ 180 °C	± 1,2 °C @ - 75 °C ± 0,5 °C @ 50 °C 50 % Rh ± 0,5 °C @ 90 °C 90 % Rh ± 1,7 °C @ 180 °C	± 1,2 °C @ - 75 °C ± 0,5 °C @ 50 °C 50 % Rh ± 0,5 °C @ 90 °C 90 % Rh ± 1,7 °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	3x400V 50/60Hz	3x400V 50/60Hz	3x400V 50/60Hz
Wattage (W)	5500	6500	7500
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 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

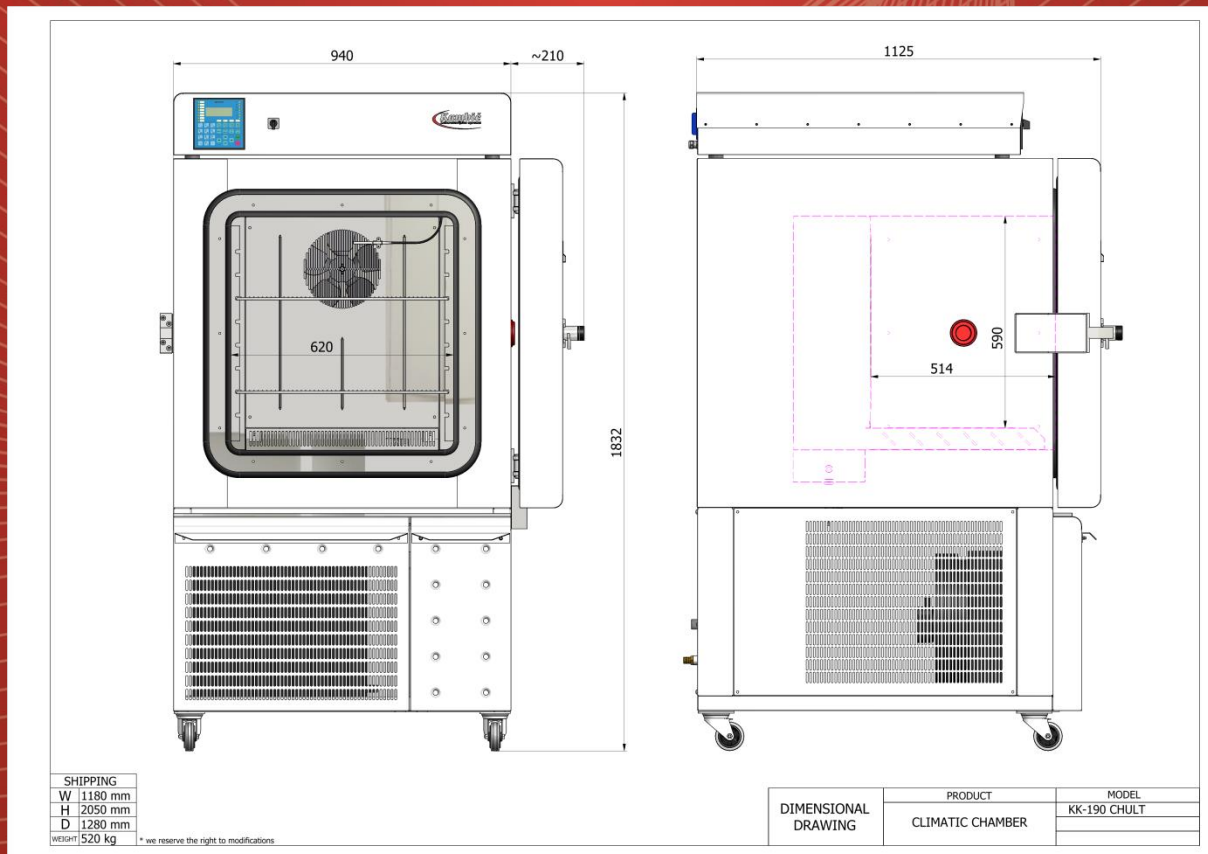
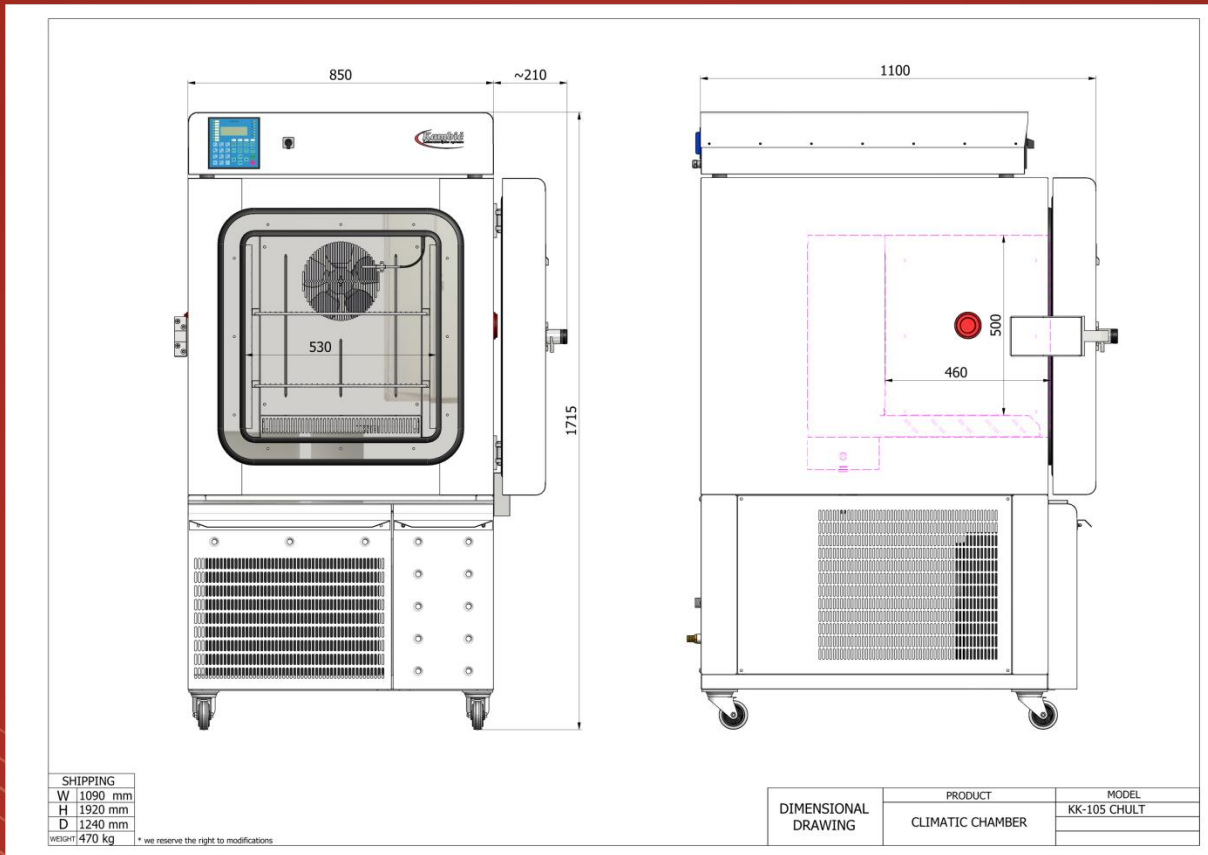
	KK-500 CHULT	KK-1000 CHULT
		
External dimensions (WxHxD) in mm	1165 x 1985 x 1640	1375 x 2070 x 1900
Internal dimensions (WxHxD) in mm	870 x 800 x 800	1070 x 1000 x 1000
Volume (L)	~ 500	~ 1000
Temperature range (°C)	- 75 ... + 180	- 75 ... + 180
Heat up rate (°C/min) EN 60068-3-5	3,3	2,3
Cool down 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 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,1 °C @ 180 °C	± 1,0 °C @ - 75 °C ± 0,1 °C @ 50 °C 50 % Rh ± 0,1 °C @ 90 °C 90 % Rh ± 0,1 °C @ 180 °C
Temperature uniformity (°C)	± 1,0 °C @ - 75 °C ± 0,5 °C @ 50 °C 50 % Rh ± 0,5 °C @ 90 °C 90 % Rh	± 1,0 °C @ - 75 °C ± 0,5 °C @ 50 °C 50 % Rh ± 0,5 °C @ 90 °C 90 % Rh
Relative humidity range (%)	10...98	10...98
Relative humidity display resolution (%)	0.1	0.1
Relative humidity set resolution (%)	1	1
Relative humidity stability (%)	± 0,5 % @ 50 °C 50 % Rh ± 1 % @ 90 °C 90 % Rh	± 0,5 % @ 50 °C 50 % Rh ± 1 % @ 90 °C 90 % Rh
Temperature control	PID	PID
Relative humidity control	Dew point humidity control	Dew point humidity control
Power supply	3x400V 50/60Hz	3x400V 50/60Hz
Wattage (W)	13000	12000
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

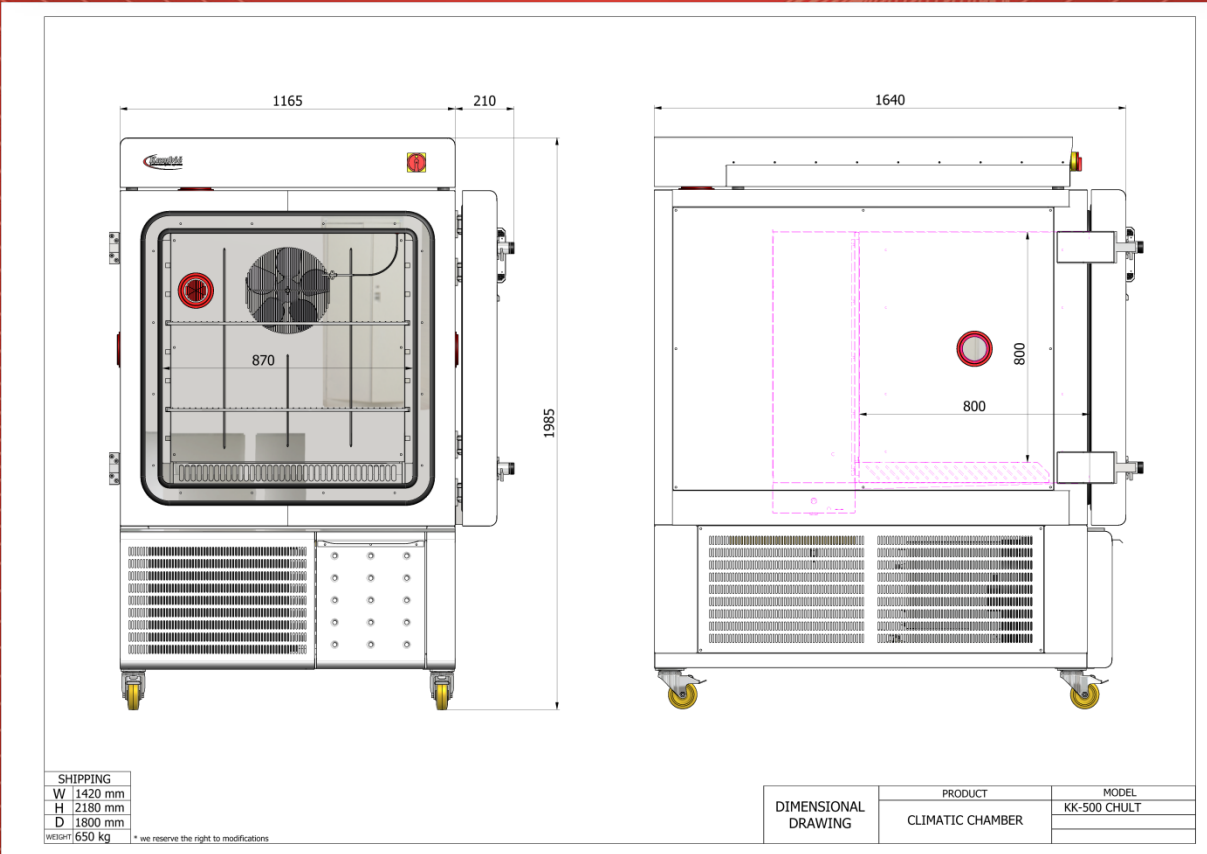
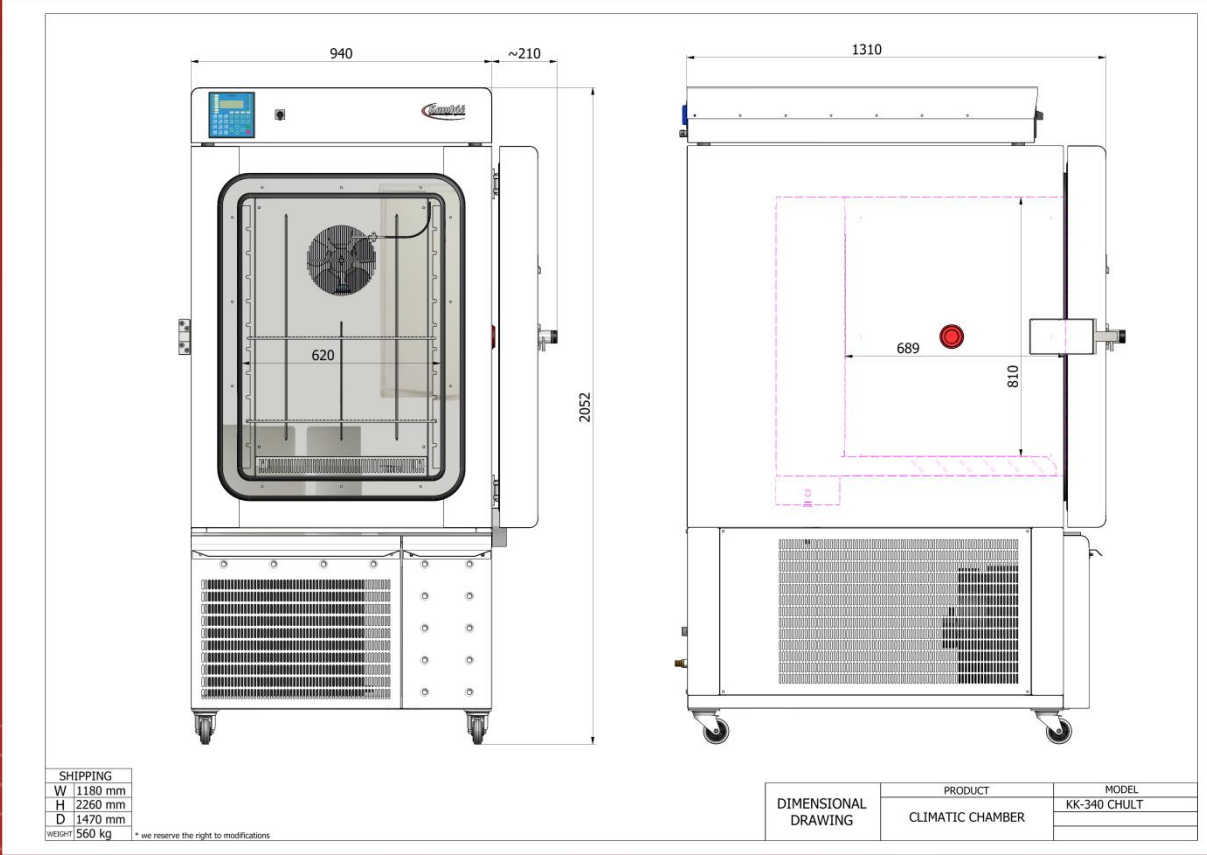
### Ordering information and accessories:

Description	Part no.
Climatic chamber KK-105 CHULT	944
Climatic chamber KK-190 CHULT	2559
Climatic chamber KK-340 CHULT	940
Climatic chamber KK-500 CHULT	989
Climatic chamber KK-1000 CHULT	942
Shelve wire KK-105 CHULT	951
Shelve wire KK-190 CHULT	953
Shelve wire KK-340 CHULT	956
Shelve wire KK-500 CHULT	958
Shelve wire KK-1000 CHULT	960
Shelve perforated KK-105 CHULT	952
Shelve perforated KK-190 CHULT	954
Shelve perforated KK-340 CHULT	957
Shelve perforated KK-500 CHULT	959
Shelve perforated KK-1000 CHULT	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
Automatic water feeding	1744
Extended Rh range via dry air purge	1758
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

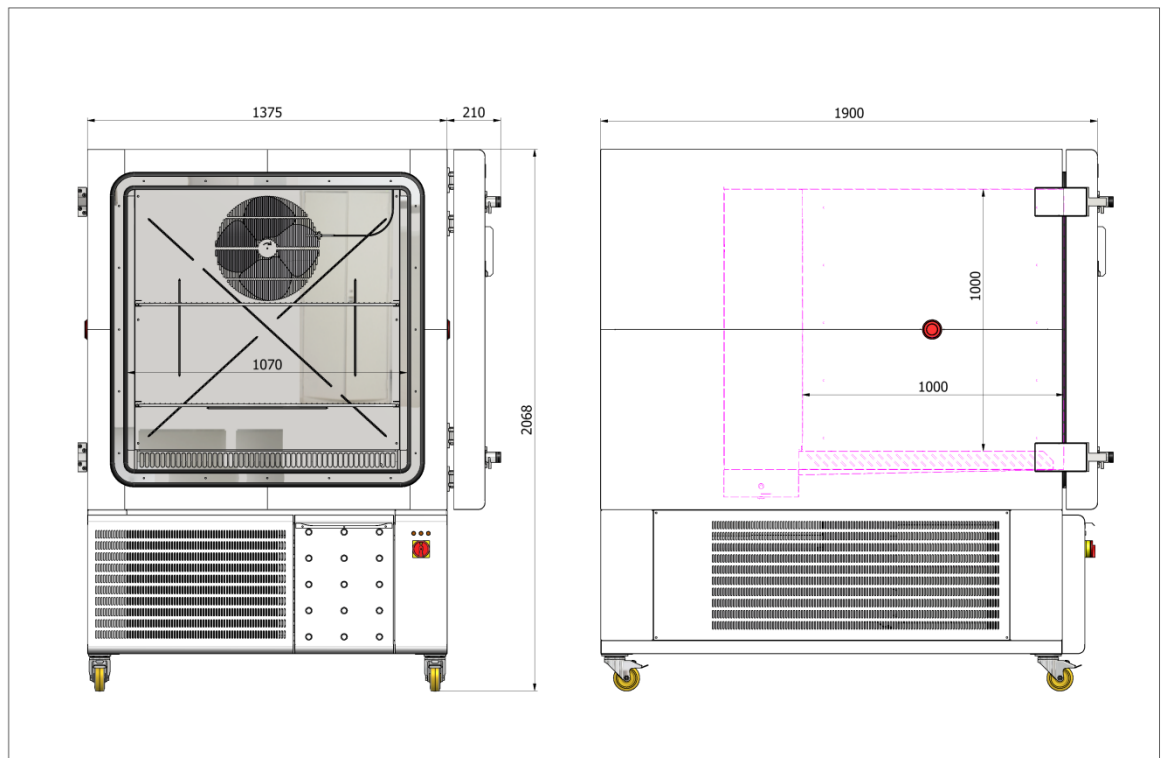
\*All performance in controlled stable environment ( $T_{\text{ambient}} = + 22 \text{ }^{\circ}\text{C} \pm 3 \text{ }^{\circ}\text{C}$ )!

\*Accessories might affect performance!









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

\* we reserve the right to modifications

DIMENSIONAL DRAWING	PRODUCT	MODEL
	CLIMATIC CHAMBER	KK-1000 CHULT