

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





Fan for internal air circulation with speed control

Controller with user friendly interface, advance settings options, RS-232, USB or Ethernet communication ports

2 level over temp. protection
 1. 5°C over set point heating disabled
 2. 10°C above max .tem mechanical shut off

All exterior in galvanized and powder coated steel RAL-7035

Extensive heat insulation shield on all chamber sides and doors

Parallel sealed with soft profile silicone seal to ensure perfect tightness

Fully stainless steel chamber

Access port with both end plugs Ø40 as standard, Ø50 or Ø90 as accessory

Heated observation window with illumination 370x420mm (as accessory)

Height adjustable stainless steel wire shelves (1 wire shelf included, extra as accessory, also perforated shelves as accessory)

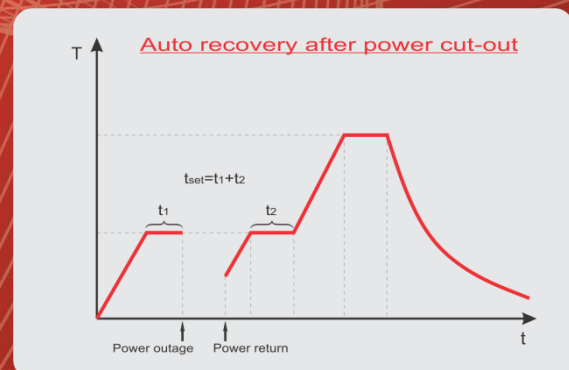
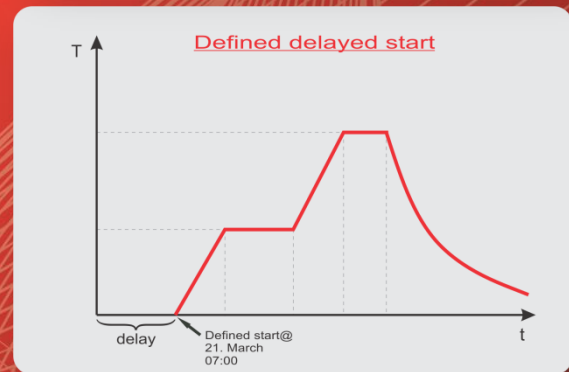
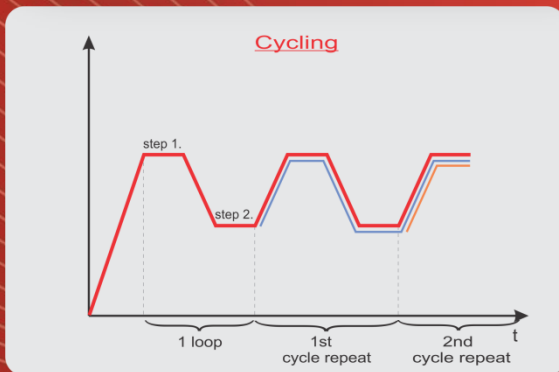
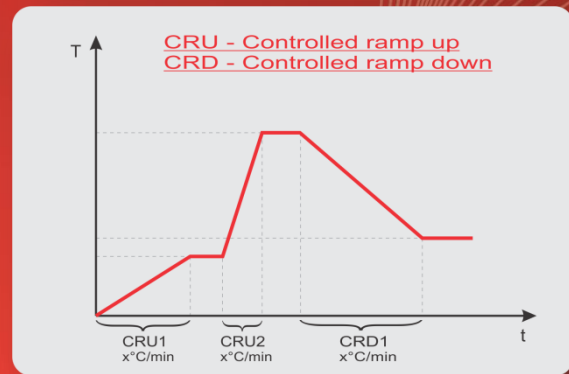
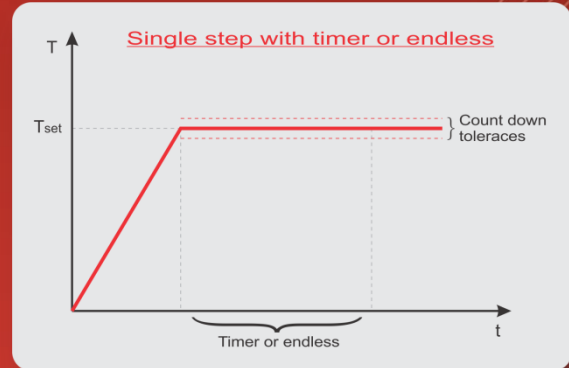
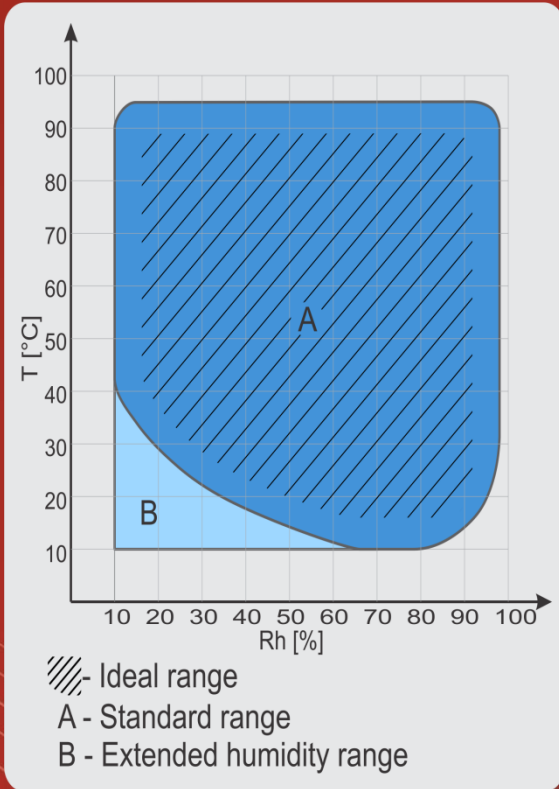
Easy accessible stainless steel water tank with level switch or option with automatic water feeding




Heavy duty swivel wheels with brake for simple manipulation



Full 4 side maintenance access to ref. system

Heavy duty closing mechanism

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

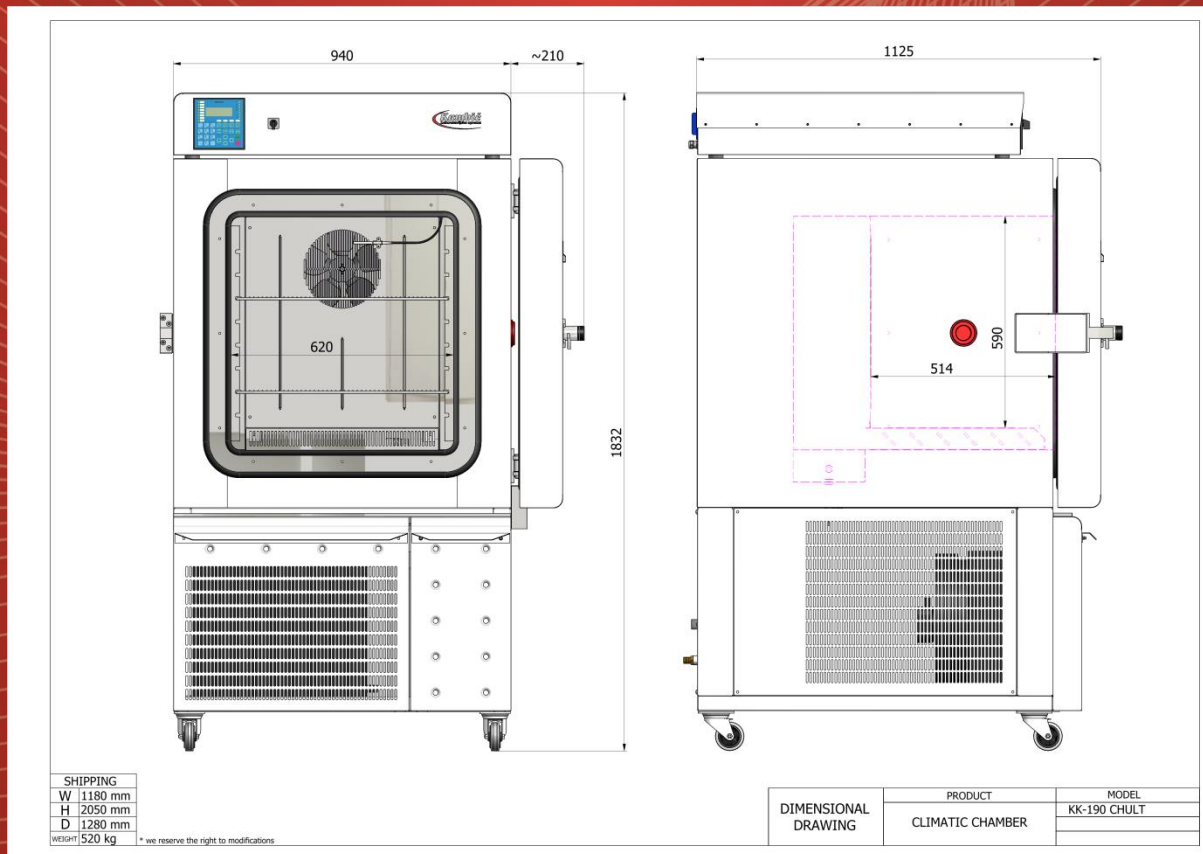
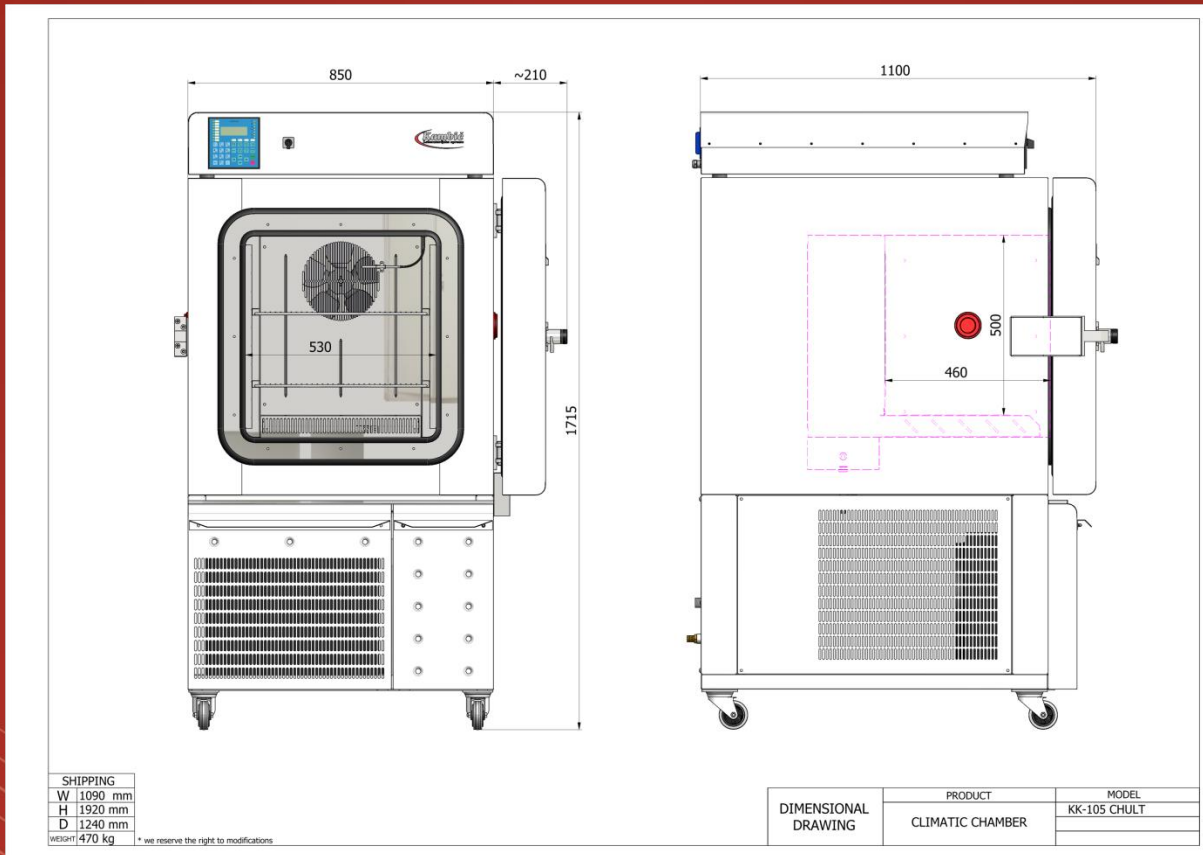
	KK-500 CHULT	KK-1000 CHULT
		
External dimensions (WxHxD) in mm	1165 x 1985 x 1640	1375 x 2070 x 1900
Internal dimensions (WxHxD) in mm	870 x 800 x 800	1070 x 1000 x 1000
Volume (L)	~ 500	~ 1000
Temperature range (°C)	- 75 ... + 180	- 75 ... + 180
Heat up rate (°C/min) EN 60068-3-5	3,3	2,3
Cool down 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

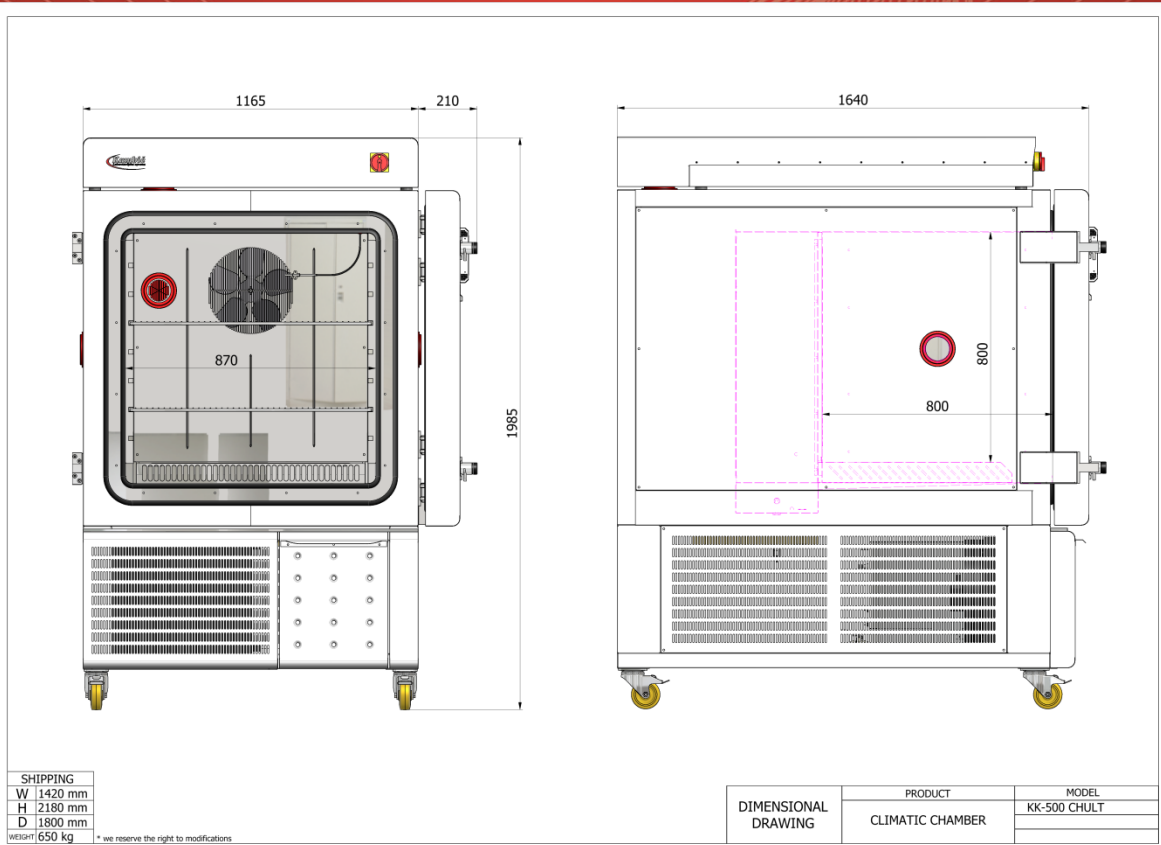
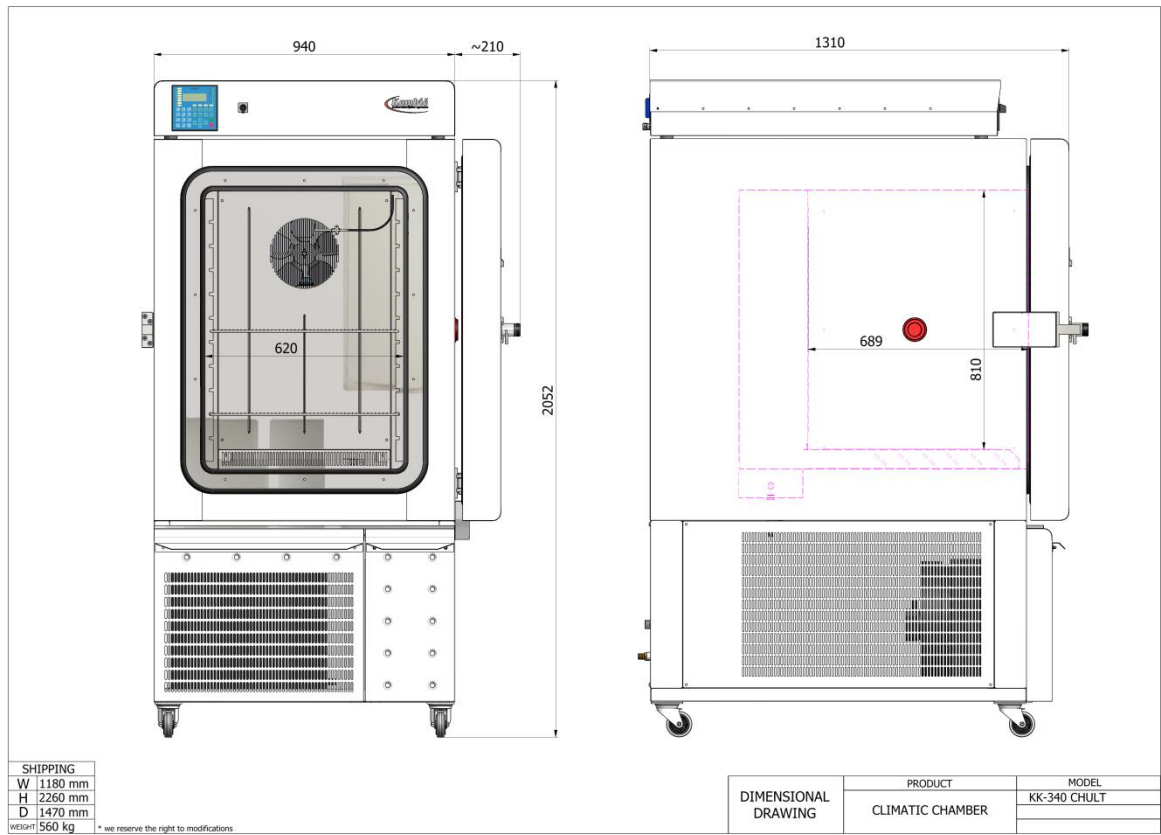
Ordering information and accessories:

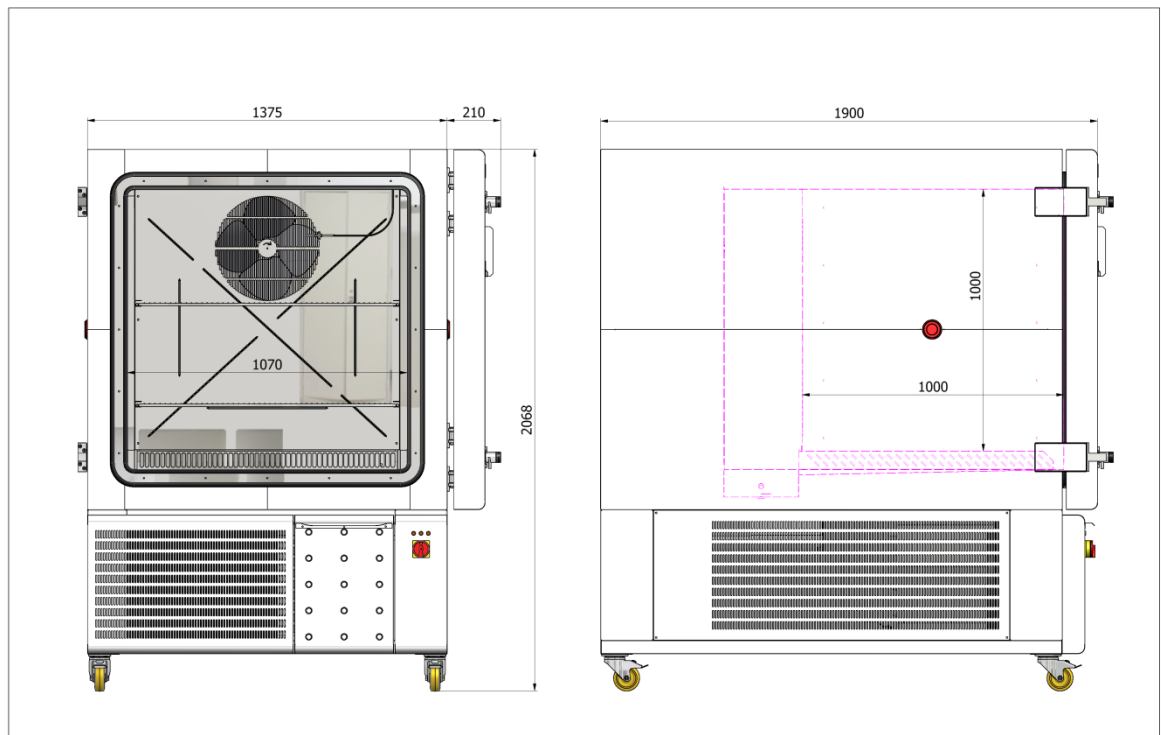
Description	Part no.
Climatic chamber KK-105 CHULT	944
Climatic chamber KK-190 CHULT	2559
Climatic chamber KK-340 CHULT	940
Climatic chamber KK-500 CHULT	989
Climatic chamber KK-1000 CHULT	942
Shelve wire KK-105 CHULT	951
Shelve wire KK-190 CHULT	953
Shelve wire KK-340 CHULT	956
Shelve wire KK-500 CHULT	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