CLIMATIC CHAMBERS

(+5 °C ...+ 180 °C)

Model:

KK-68 CH

KK-190 CH

KK-340 CH

KK-500 CH

KK-1000 CH

- Temperature & 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

Relative humidity

Temperature

Kambič d.o.o. Metliška cesta 16, SI-8333 Semič, Slovenia - EU,
T: +386 (0)7 35 65 220, info©kambic.com, info@kambicmetrology.com
www.kambic.com, www.kambicmetrology.com

Device description:

Fan for internal air circulation with speed control

7'' capacitive touch screen controller with user friendly interface, advance settings options, Ethernet and USB communication ports

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

Extensive heat insulation shield on all chamber sides and doors

Main switch

Access port with both end plugs Ø50 mm (On left side)

All exterior in galvanized and powder coated aluminized steel

Door sealed with double soft profile silicone seal to ensure perfect tightness

Heavy duty closing mechanism with key lock

Full door heated observation window with LED illumination

Height Adjustable stainless steel wire shelves (1 pcs included)

Fully stainless-steel interior chamber

Heavy duty swivel wheels with brake for simple manipulation

Full 4 side maintenance access to ref. system

Easily accessible water tank with level switch

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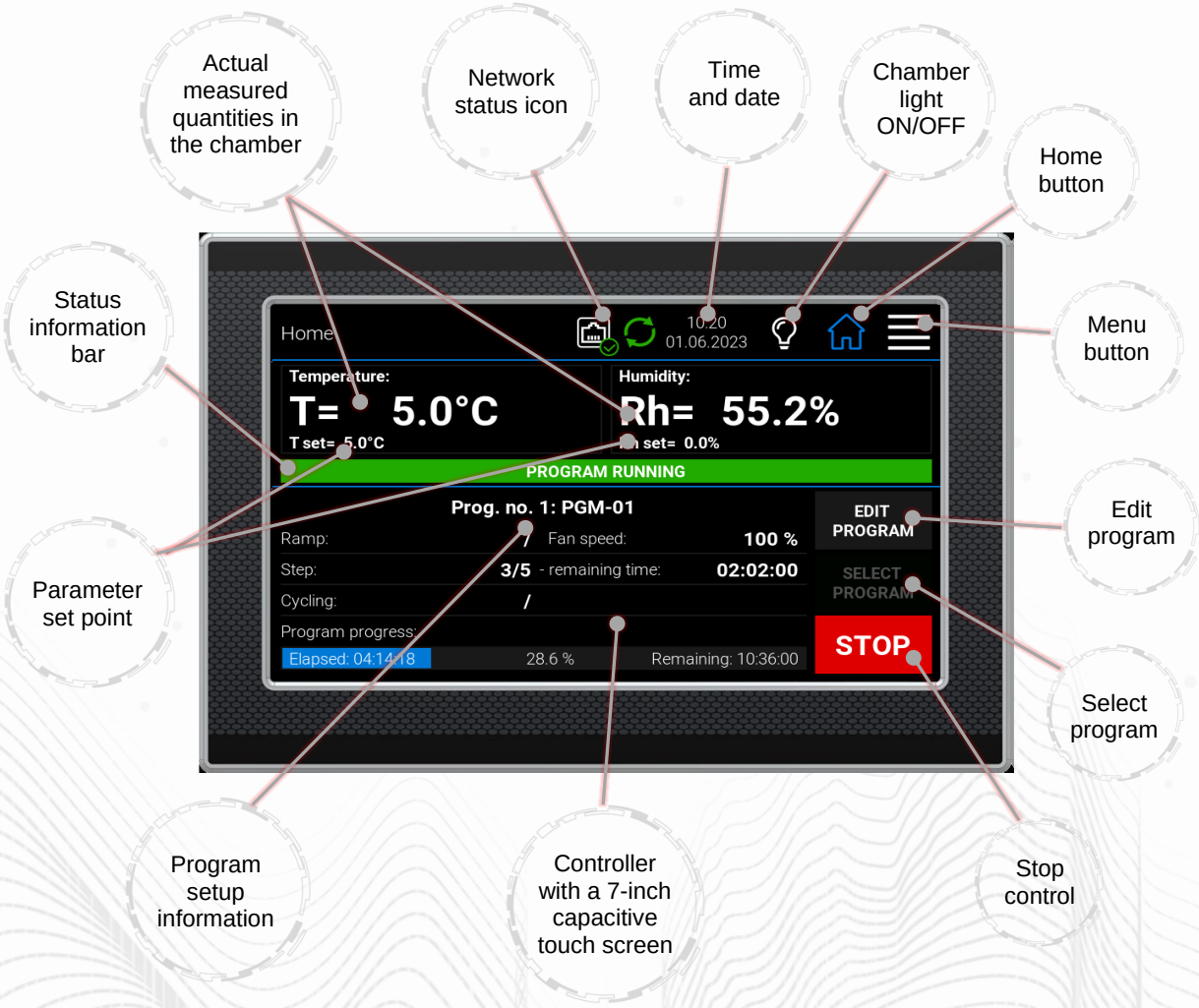
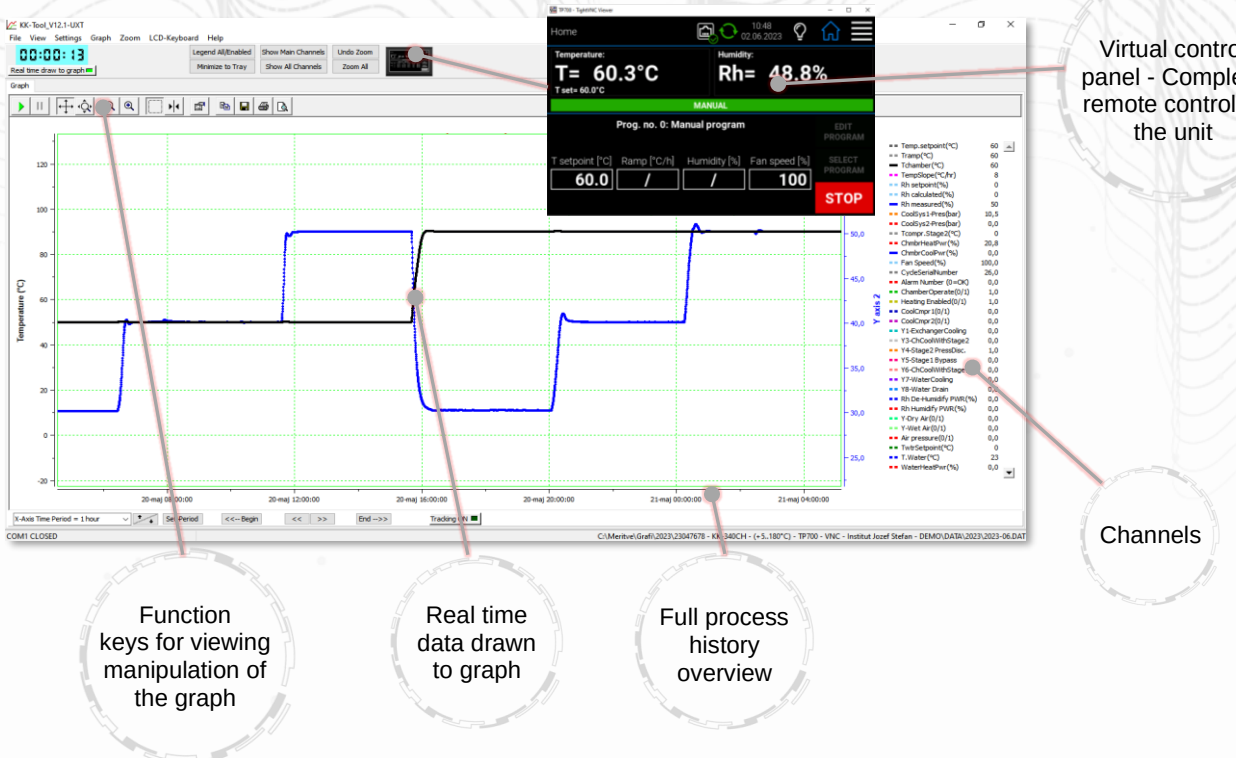
Touch display with advanced controller functions:



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



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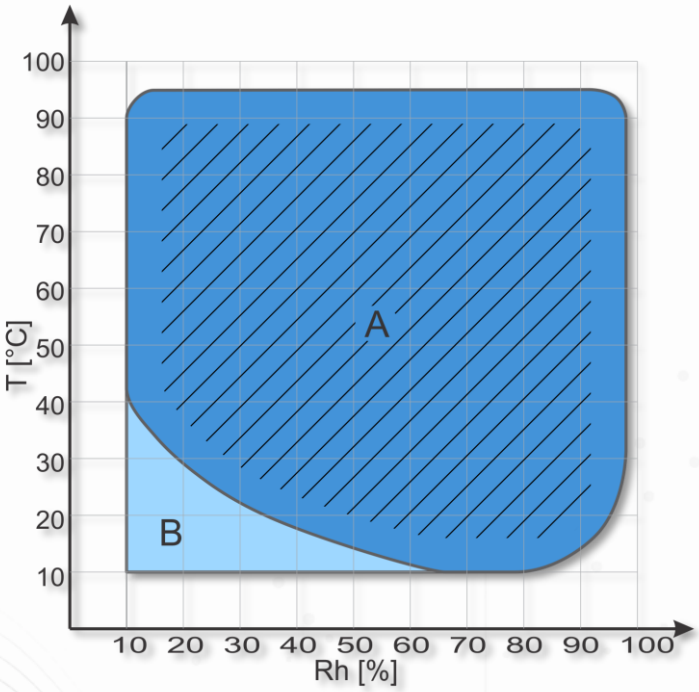
Rh range:

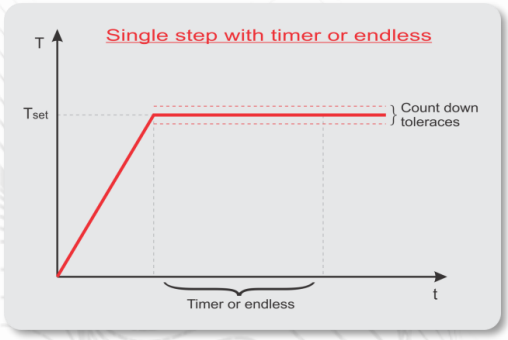


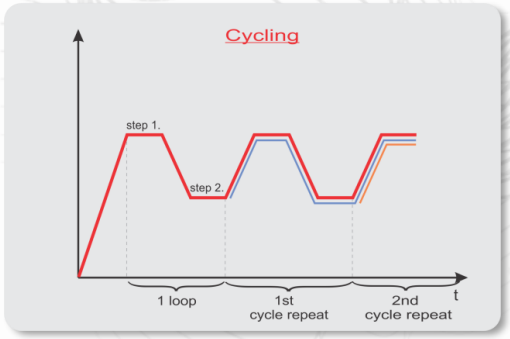
- Ideal range

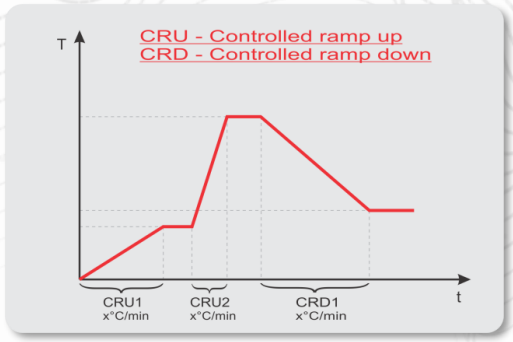
A - Standard range

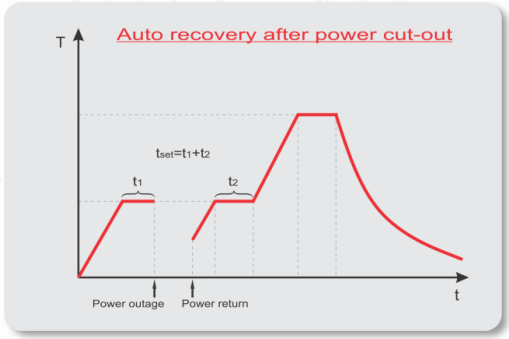
B - Extended humidity range

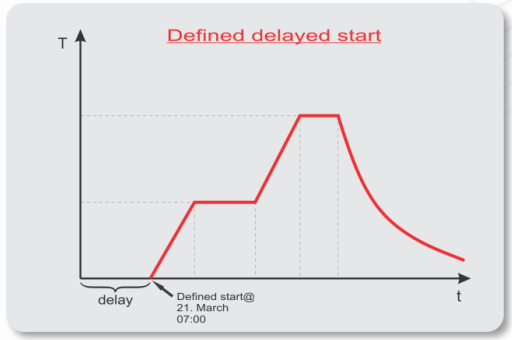
Controller functions:











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	KK-68 CH	KK-190 CH	KK-340 CH
			
External dimensions (WxHxD) [mm]	650 x 1223 x 796	835 x 1661 x 951	835 x 1881 x 1126
Internal dimensions (WxHxD) [mm]	410 x 475 x 350	600 x 615 x 510	600 x 835 x 685
Volume [L]	~ 68	~ 190	~ 340
Temperature range [°C]	+ 5 …+ 180	+ 5 …+ 180	+ 5 …+ 180
Heat up rate [°C/min] (according to EN 60068-3-5)	4.0	2.0	1.5
Cool down rate [°C/min] (according to EN 60068-3-5)	3.0	3.0	3.0
Temperature display res [°C]	0.1	0.1	0.1
Temperature set res. [°C]	0.1	0.1	0.1
Temperature stability [°C]	± 0.3°C @ 5°C ± 0.05°C @ 50°C 50 % Rh ± 0.05°C @ 90°C 90 % Rh ± 0.1°C @ 180°C	± 0.3°C @ 5°C ± 0.05°C @ 50°C 50 % Rh ± 0.05°C @ 90°C 90 % Rh ± 0.15°C @ 180°C	± 0.3°C @ 5°C ± 0.05°C @ 50°C 50%Rh ± 0.05°C @ 90 °C 90%Rh ± 0.15°C @ 180°C
Temperature uniformity [°C]	± 1.0°C @ 5°C ± 0.3°C @ 50°C 50 % Rh ± 0.3°C @ 90°C 90 % Rh ± 2.5°C @ 180°C	± 1.0°C @ 5°C ± 0.3°C @ 50°C 50 % Rh ± 0.3°C @ 90°C 90 % Rh ± 1.5°C @ 180°C	± 1.0°C @ 5°C ± 0.3°C @ 50°C 50 % Rh ± 0.3°C @ 90°C 90 % Rh ± 1°C @ 180°C
Heat compensation [W]	~ 1500 @ + 20 °C	~ 3000 @ + 20 °C	~ 3000 @ + 20 °C
Rh range [%]	10…98	10…98	10…98
Rh display resolution [%]	0.1	0.1	0.1
Rh set resolution [%]	1	1	1
Rh stability [%]	± 0.3 % @ 50 °C 50 % Rh ± 0.3 % @ 90 °C 90 % Rh	± 0.3 % @ 50 °C 50 % Rh ± 0.3 % @ 90 °C 90 % Rh	± 0.3 % @ 50 °C 50 % Rh ± 0.3 % @ 90 °C 90 % Rh
Temperature control	PID (PT-100)	PID (PT-100)	PID (PT-100)
Relative humidity control	Dew point RH control via Rh capacitive sensor/ dry air purge for extended range	Dew point RH control via Rh capacitive sensor/ dry air purge for extended range	Dew point RH control via Rh capacitive sensor/ dry air purge for extended range
Power supply	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz
Wattage [W]	3500	3600	3600
Interface	USB and Ethernet	USB and Ethernet	USB and Ethernet
Shelve	1 (max 6)	1 (max 8)	1 (max 8)
Shelve capacity [kg]	25	35	35
Max capacity [kg]	40	80	100
Water reservoir capacity [L]	8.2	19.6	19.6
Water consumption [L/24h] (operating at +90 °C / 90 %Rh)	~1.0	~1.5	~1.5
Observation window	As standard	As standard	As standard
Access port [mm]	Ø 50 (left side)	Ø 50 (left side)	Ø 50 (left side)
Noise [dBA] @ 1 m distance	58	60	60
Weight [kg]	195	278	324

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

**Accessories might affect performance!*

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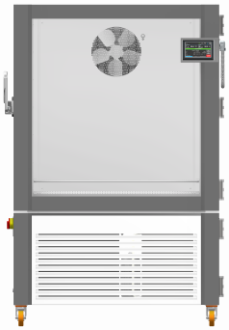
	KK-500 CH	KK-1000 CH
		
External dimensions (WxHxD) [mm]	1035 x 1880 x 1381	1235 x 1928 x 1579
Internal dimensions (WxHxD) [mm]	800 x 835 x 800	1000 x 1035 x 1000
Volume [L]	~ 500	~ 1000
Temperature range [°C]	+ 5 …+ 180	+ 5 …+ 180
Heat up rate [°C/min] (according to EN 60068-3-5)	3.0	3.0
Cool down rate [°C/min] (according to EN 60068-3-5)	2.0	2.0
Temperature display res [°C]	0.1	0.1
Temperature set res. [°C]	0.1	0.1
Temperature stability [°C]	± 0.3°C @ 5°C ± 0.05°C @ 50°C 50% Rh ± 0.05°C @ 90°C 90 % Rh ± 0.2°C @ 180°C	± 0.3°C @ 5°C ± 0.05°C @ 50°C 50 % Rh ± 0.05°C @ 90°C 90 % Rh ± 0.2°C @ 180°C
Temperature uniformity [°C]	± 1.0°C @ 5°C ± 0.3°C @ 50°C 50 % Rh ± 0.3°C @ 90°C 90 % Rh ± 1.5°C @ 180°C	± 1.0°C @ 5°C ± 0.3°C @ 50°C 50 % Rh ± 0.3°C @ 90°C 9 0% Rh ± 1.5°C @ 180°C
Heat compensation [W]	~ 3000 @ + 20 °C	~ 5000 @ + 20 °C
Rh range [%]	10…98	10…98
Rh display resolution [%]	0.1	0.1
Rh set resolution [%]	1	1
Rh 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
Temperature control	PID (PT-100)	PID (PT-100)
Relative humidity control	Dew point RH control via Rh capacitive sensor/ dry air purge for extended range	Dew point RH control via Rh capacitive sensor/ dry air purge for extended range
Power supply	3x400V 50/60Hz	3x400V 50/60Hz
Wattage [W]	9000	12000
Interface	USB and Ethernet	USB and Ethernet
Shelve	1 (max 8)	1 (max 8)
Shelve capacity [kg]	50	50
Max capacity [kg]	150	200
Water reservoir capacity [L]	29.3	39.3
Water consumption [L/24h] (operating at +90 °C / 90 %Rh)	~1.5	~2.0
Observation window	As standard	As standard
Access port [mm]	Ø 50 (left side)	Ø 50 (left side)
Noise [dBA] @ 1 m distance	62	62
Weight [kg]	435	604

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

**Accessories might affect performance!*

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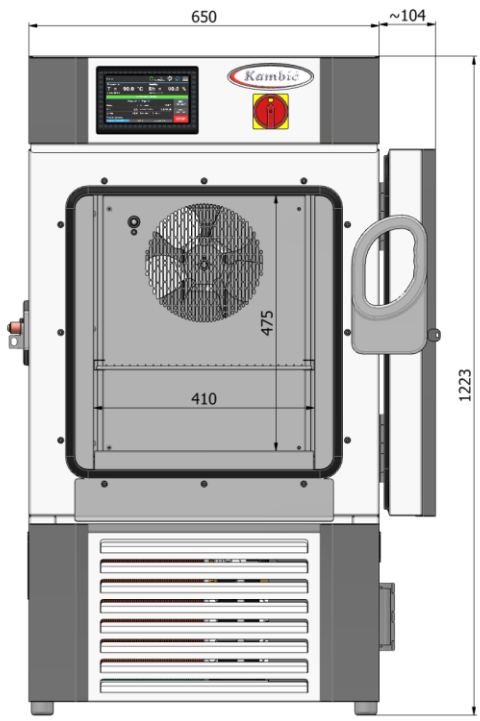
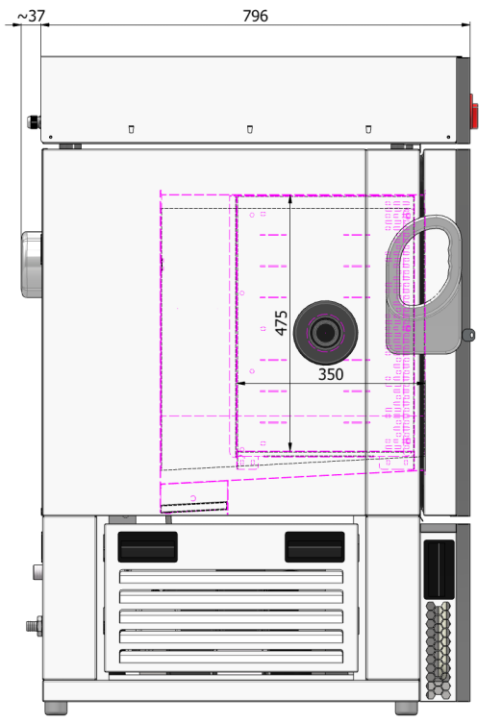
Ordering information and accessories:

Description	Part no.
Climatic chamber KK-68 CH	789
Climatic chamber KK-190 CH	910
Climatic chamber KK-340 CH	921
Climatic chamber KK-500 CH	907
Climatic chamber KK-1000 CH	909
Shelve wire KK-68 CH	792
Shelve wire KK-190 CH	953
Shelve wire KK-340 CH	956
Shelve wire KK-500 CH	958
Shelve wire KK-1000 CH	960
Shelve perforated KK-68 CH	793
Shelve perforated KK-190 CH	954
Shelve perforated KK-340 CH	957
Shelve perforated KK-500 CH	959
Shelve perforated KK-1000 CH	961
Access Port w. Plug Ø 50 mm right (specify position)	899
Access Port w. Plug Ø 90 mm right (specify position)	900
Automatic water feeding	1744
Extended Rh range via dry air purge	1758
Trolley for KK-68 CH	794
Evaluation report 9 points, 3 climatic values - performed by Kambic	1719
Evaluation report 9 points, 3 climatic values - Accredited	1777

**Accessories might affect performance!*

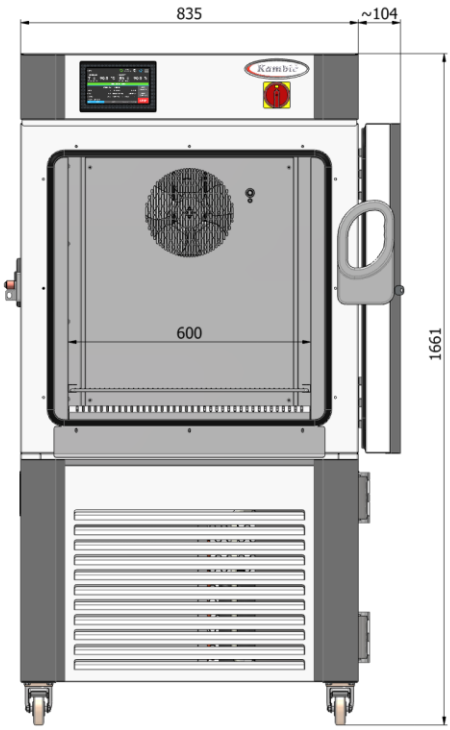


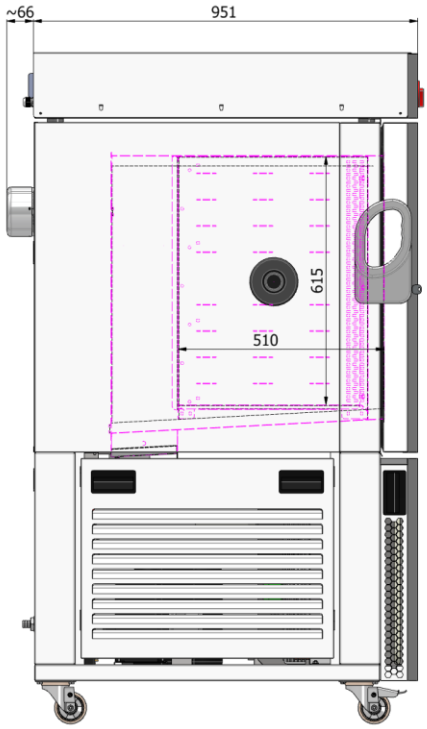


SHIPPING	
W	1000 mm
H	1520 mm
D	800 mm
WEIGHT	220 kg

* we reserve the right to modifications

DIMENSIONAL DRAWING	PRODUCT	MODEL
	CLIMATIC CHAMBER	KK-68 CH
		KK-68 CHLT





SHIPPING	
W	1235 mm
H	1890 mm
D	1090 mm
WEIGHT	330 kg

* we reserve the right to modifications

DIMENSIONAL DRAWING	PRODUCT	MODEL
	CLIMATIC CHAMBER	KK-190 CH
		KK-190 CHLT

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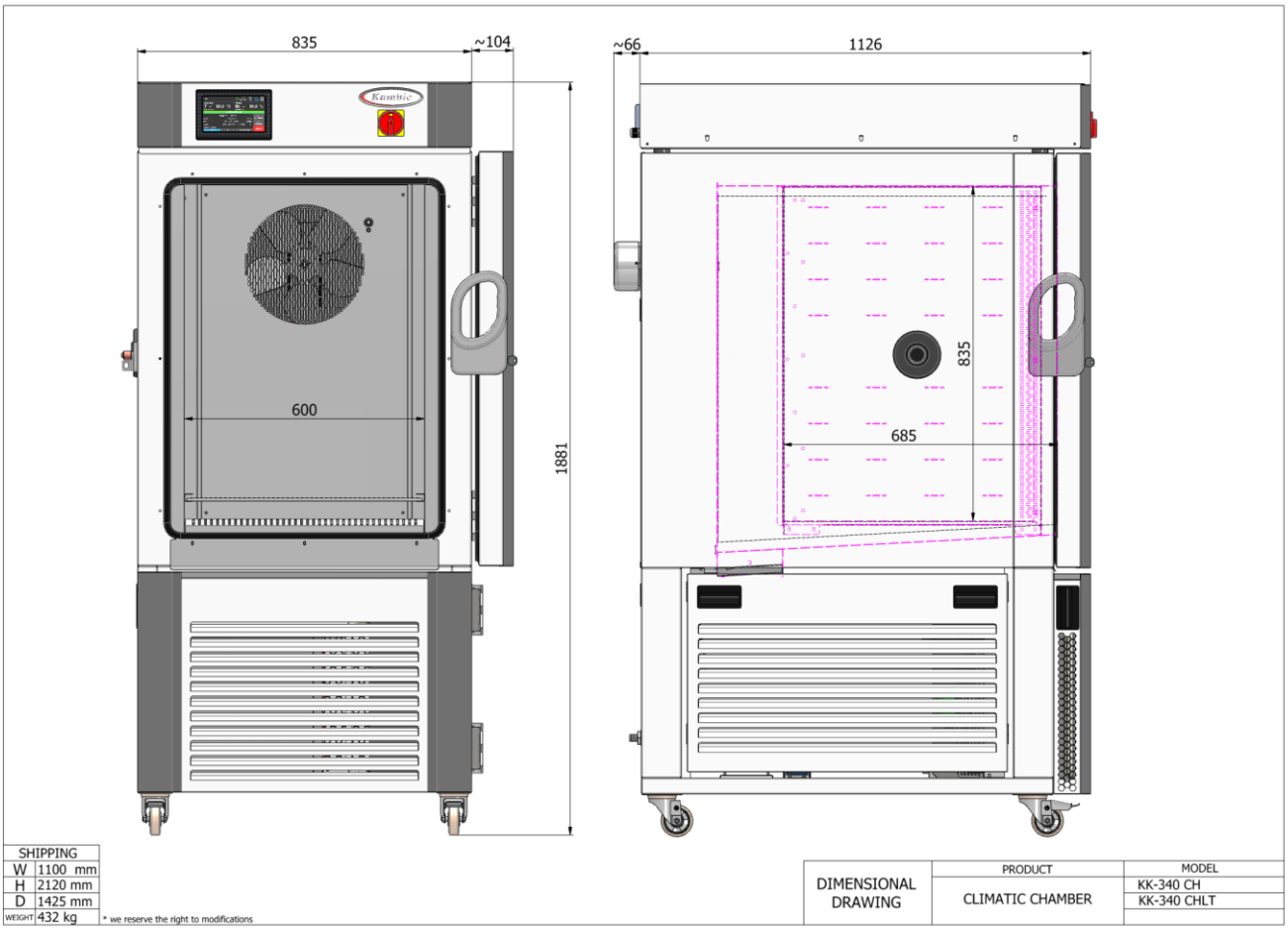
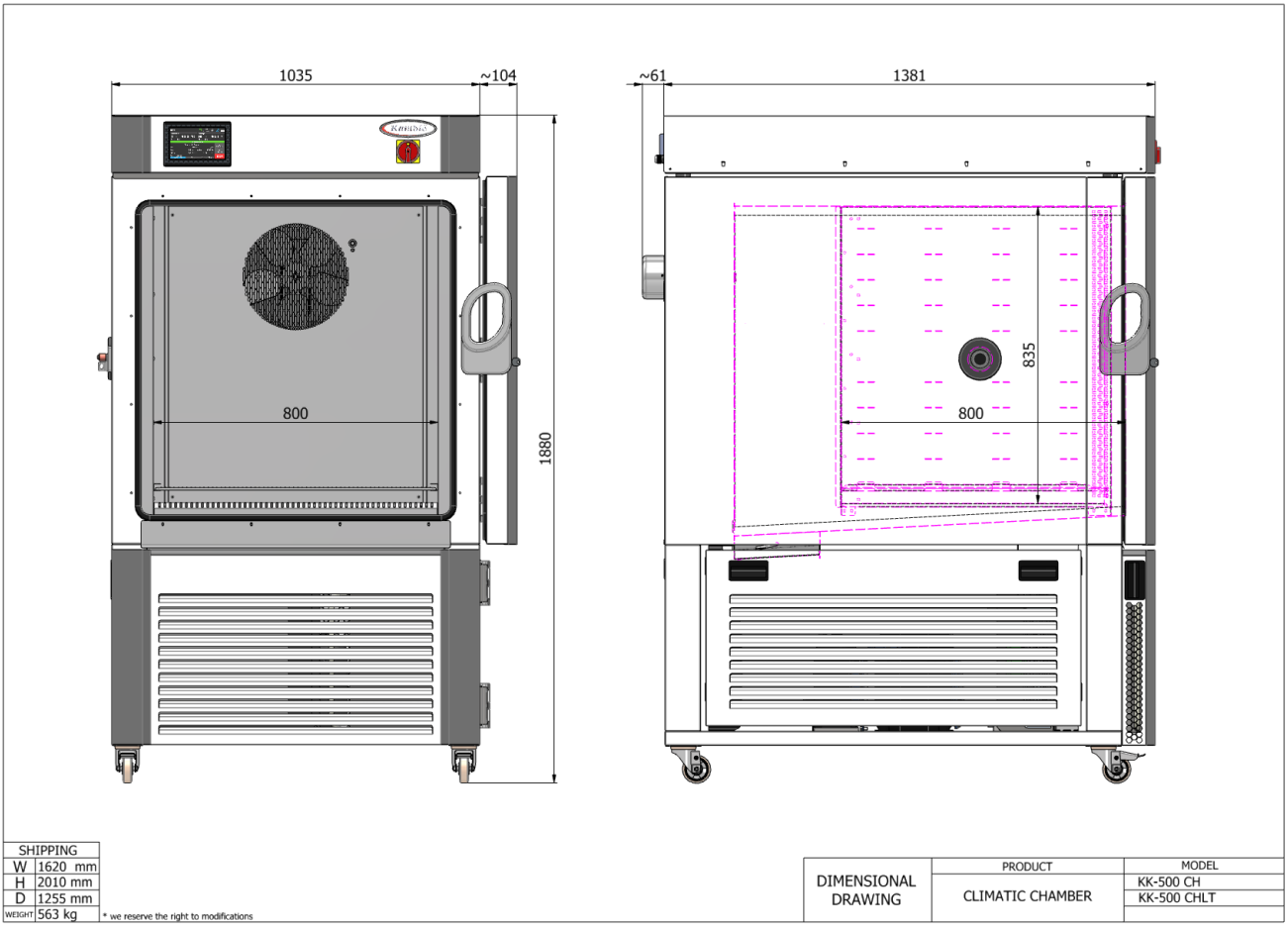


SHIPPING	
W	1100 mm
H	2120 mm
D	1425 mm
WEIGHT	432 kg

* we reserve the right to modifications

DIMENSIONAL DRAWING	PRODUCT	MODEL
	CLIMATIC CHAMBER	KK-340 CH
		KK-340 CHLT



SHIPPING	
W	1620 mm
H	2010 mm
D	1255 mm
WEIGHT	563 kg

* we reserve the right to modifications

DIMENSIONAL DRAWING	PRODUCT	MODEL
	CLIMATIC CHAMBER	KK-500 CH
		KK-500 CHLT

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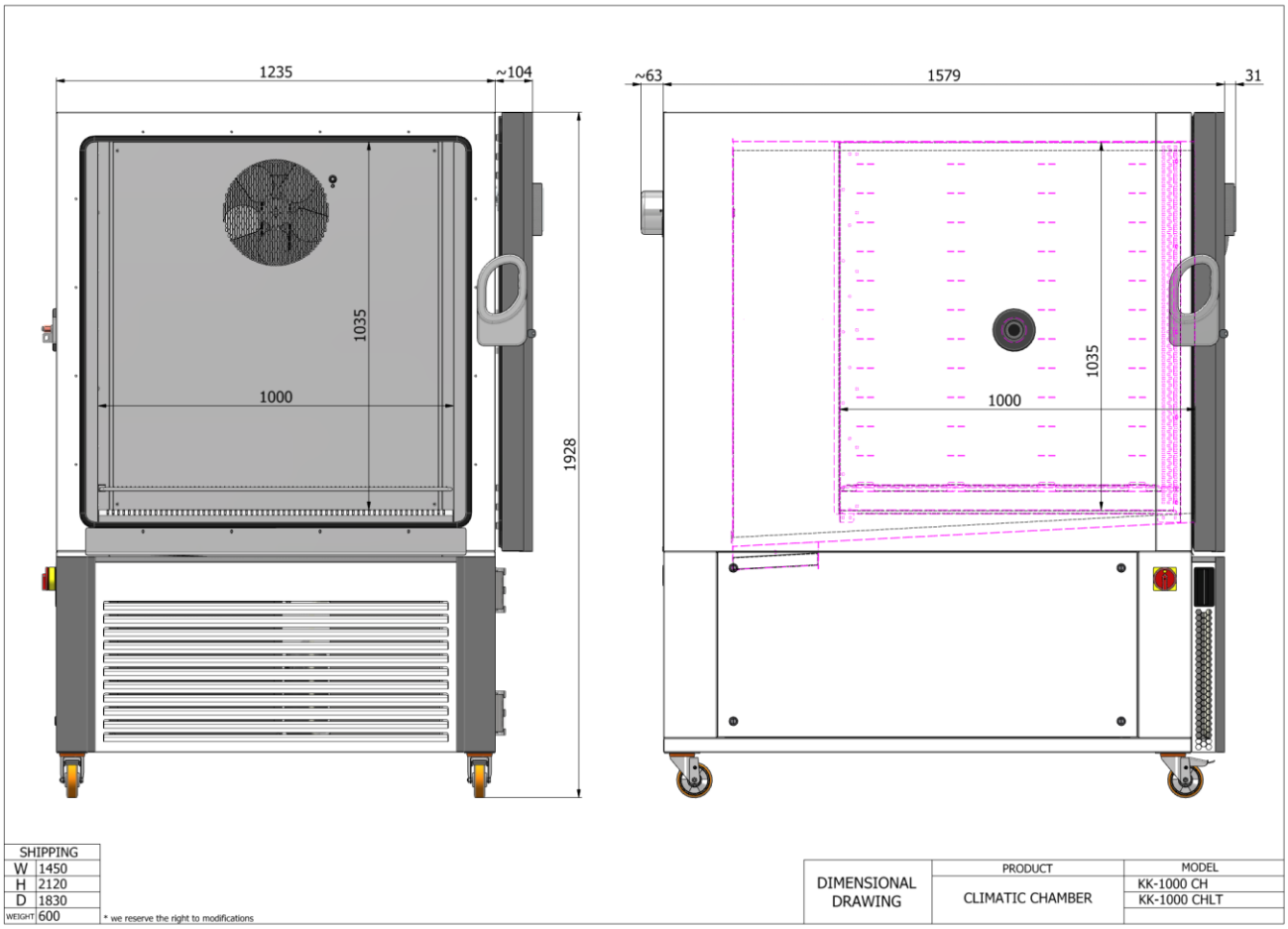

SHIPPING	
W	1450
H	2120
D	1830
WEIGHT	600

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DIMENSIONAL DRAWING	PRODUCT	MODEL
	CLIMATIC CHAMBER	KK-1000 CH
		KK-1000 CHLT

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