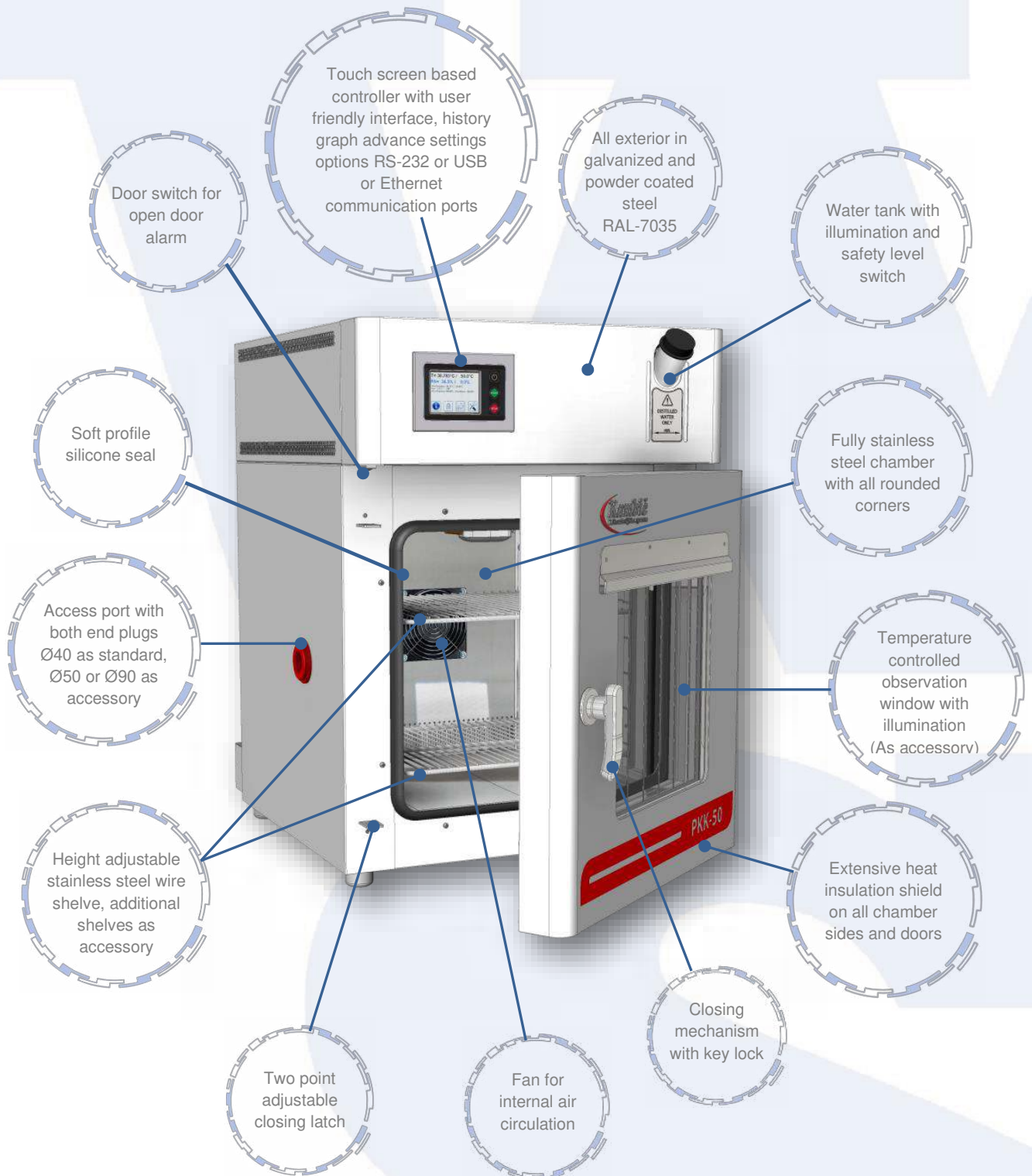


# Peltier Chamber

Solely Peltier based temperature  
and humidity control

- For calibration of air temperature and relative humidity sensors
  - Stable, silent, vibration free climatic conditions
  - Superior temperature & Rh stability
  - Small product stability testing

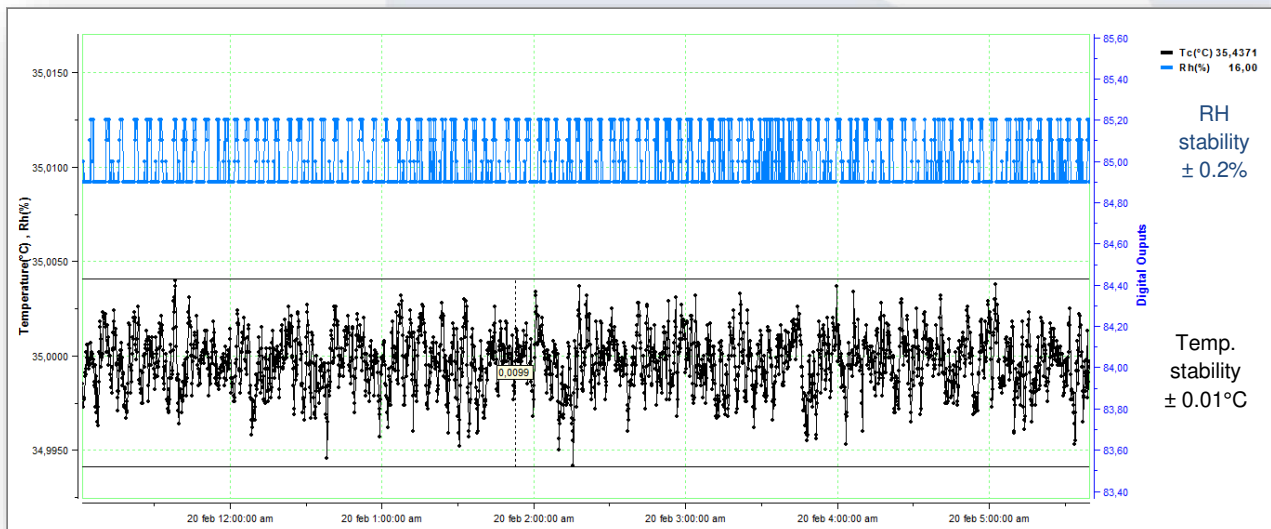






**Controller functions:**



**Chamber temperature & Rh stability at 35°C and 16% Rh:**



**Technical data:**

	PKK-50	PKK-125
		
External dimensions (WxHxD) in mm	570 x 800 x 660	500 x 500 x 500
Internal dimensions (WxHxD) in mm	400 x 400 x 360	670 x 1135 x 755
Volume (L)	57	125
Temperature range (°C)	+8 ...+55	+10...+50°C
Temperature display resolution (°C)	0.001	0.001
Temperature set resolution (°C)	0.1	0.1
Temperature stability (°C)	±0.06 @ 15 °C, 75%Rh ±0.04 @ 20 °C, 60%Rh ±0.03 @ 30 °C, 65%Rh ±0.06 @ 50 °C, 75%Rh ±0.12 @ 50 °C, 15%Rh	±0.08 @ 15 °C, 75%Rh ±0.05 @ 20 °C, 60%Rh ±0.05 @ 30 °C, 65%Rh ±0.10 @ 50 °C, 75%Rh ±0.10 @ 50 °C, 15%Rh
Temperature uniformity (°C)	±0.25 @ 15 °C, 75%Rh ±0.25 @ 20 °C, 60%Rh ±0.48 @ 30 °C, 65%Rh ±0.58 @ 50 °C, 75%Rh ±1.30 @ 50 °C, 15%Rh	±0.30 @ 15 °C, 75%Rh ±0.25 @ 20 °C, 60%Rh ±0.50 @ 30 °C, 65%Rh ±0.60 @ 50 °C, 75%Rh ±1.30 @ 50 °C, 15%Rh
Relative humidity range (%)	10...98	10...98
Relative humidity display resolution (%)	0.1	0.1
Relative humidity set resolution (%)	0.1	0.1
Relative humidity stability (%)	±0.3 @ 15 °C, 75%Rh ±0.3 @ 20 °C, 60%Rh ±0.3 @ 30 °C, 65%Rh ±0.3 @ 50 °C, 75%Rh ±0.3 @ 50 °C, 15%Rh	±0.3 @ 15 °C, 75%Rh ±0.3 @ 20 °C, 60%Rh ±0.3 @ 30 °C, 65%Rh ±0.3 @ 50 °C, 75%Rh ±0.3 @ 50 °C, 15%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	230 V 50/60 Hz	230 V 50/60 Hz
Wattage (W)	500	500
Interface	RS 232 USB or Ethernet (accessory)	RS 232 USB or Ethernet (accessory)
Shelve	1 (max 4)	1 (max 6)
Shelve capacity (kg)	15	20
Max capacity (kg)	30	50
Access port (mm)	Ø 40 standard, Ø 50, Ø 90 (accessory)	Ø 40 standard, Ø 50, Ø 90 (accessory)
Noise (dBA) @ 1 m distance	<50	<50
Weight (kg)	36	75

**Ordering information and accessories:**

Description	Part no.
Ultra stable temp. chamber PKK-50	2552
Ultra stable temp. chamber PKK-125	2607
USB interface	1466
Ethernet interface	1716
Shelve PKK-50	2553
Shelve PKK-125	2608
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	252
RedEye PKK Tool (Software Monitoring & History)	1663
Password protection	1718
Evaluation report	1719
Trolley for PKK-50	2609
Trolley for PKK-125	2610
Extended Rh range via dry air purge (only for PKK-125)	1758

