

# CONSTANT CLIMATIC CHAMBERS

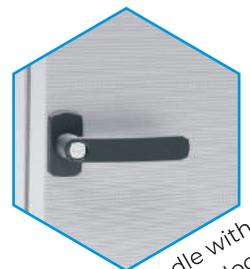
with Peltier cooling system designed for long-term stability tests. They feature very low electricity and water consumption, and excellent parameter performance



SMART PRO controller with USB port



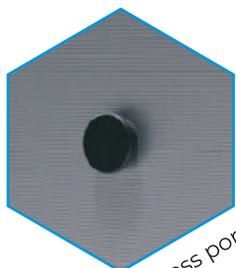
6-liter deionised water tank



handle with door lock



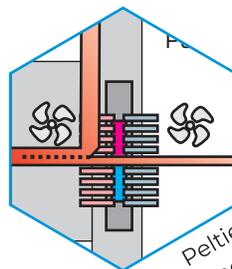
Constant climatic chamber KKP 240 IG SMART PRO



access port



double door (external solid, internal glass)



Peltier element



All thermostatic equipment manufactured by POL-EKO® can be provided with Calibration Certificate issued by accredited Measurement Laboratory. Detailed information on accreditation is available on website: [www.polekolab.pl](http://www.polekolab.pl) and on page 161.



**MAIN STANDARD BENEFITS**

- temperature range:
  - without humidity: 0...+70 (max 20°C below ambient temp.)
  - with humidity: +5...+70 (max 20°C below ambient temp.)
- Peltier element cooling system (see page 23)
- quality control protocol (at +25°C, 60%rH)
- English instruction manual
- temperature protection class 3.3 to DIN 12880
- open door alarm
- castors for KKP 750
- LAN and USB ports
- height adjustable feet
- access port (Ø30 mm) with silicone plug on the left wall
- door lock
- stainless steel wire shelves (INOX)
- double door (external solid, internal glass)
- external 6 L water tank (can be assembled on the left or right side of the unit)
- Wi-Fi
- LAN cable
- main power switch flush with housing prevents unintentional switch off

**AVAILABLE VERSIONS**

- SMART PRO
- KKP FIT with phytotron system (see pages 19-22)

**SOFTWARE**

- LabDesk for data download to a PC via LAN or Wi-Fi
- LabDesk Cloud platform for remote data monitoring



**TECHNICAL DATA**



Parameter	KKP 240	KKP 750
air convection	forced	
chamber capacity [l]	245	749
door type	double door <sup>1</sup>	
controller	microprocessor with a large 7" full-colour touch screen	
interior	acid proof stainless steel to DIN 1.4301	
housing	-	powder coated sheet
	IG	stainless steel linen finish to DIN 1.4301
working temperature range without humidity [°C]	0...+70 (max 20°C below ambient temp.)	
temperature variation (spatial) at 40°C [°C]	±0,3	±0,2
temperature fluctuation (time) at 40°C [°C]	±0,1	±0,1
working temperature range with humidity [°C]	+5...+70 (max 20°C below ambient temp.)	
temperature resolution [°C]	every 0,1	
temperature variation <sup>2</sup> (spatial) at 40°C, 75% RH [°C]	±0,3	±0,2
temperature fluctuation <sup>2</sup> (time) at 40°C, 75% RH [°C]	±0,1	±0,1
temperature variation <sup>2</sup> (spatial) at 25°C, 60% RH [°C]	±0,2	±0,2
temperature fluctuation <sup>2</sup> (time) at 25°C, 60% RH [°C]	±0,1	±0,1
humidity range [%]	10...90 (see working temperature and humidity chart on page 115)	
humidity resolution [%]	every 0,1	
humidity variation <sup>2</sup> (spatial) at 40°C, 75% RH [%RH]	≤±1,0	≤±1,0
humidity fluctuation <sup>2</sup> (time) at 40°C, 75% RH [%RH]	±0,3	±0,3
humidity variation <sup>2</sup> (spatial) at 25°C, 60% RH [%RH]	±0,8	±0,8
humidity fluctuation <sup>2</sup> (time) at 25°C, 60% RH [%RH]	±0,2	±0,4
recovery time humidity <sup>2</sup> (min) after 30 sec door open at 40°C, 75% RH	10	23
external water tank [l]	6	6
max shelf workload <sup>3</sup> [kg]	25	100
max unit workload [kg]	90	140
nominal power [W]	2300	2700
weight [kg]	117	233
castors	no	yes
temperature protection	class 3.3 to DIN 12880	
power supply	230V 50-60Hz / 3P+PE 230V 50-60Hz	400V 50-60Hz / 3P+PE 230V 50-60Hz
shelves (fitted/max)	3/10	3/16
warranty	24 months	
manufacturer	POL-EKO®	

all the above technical data refer to standard units (without optional accessories)

1 - internal glass, external solid

2 - fluctuation measured in centre of chamber; in space, variation (K) calculated for chamber as:  $K = +/- (T_{avg\ max} - T_{avg\ min}) / 2$

3 - on uniformly loaded surface

**OPTIONS & ACCESSORIES** (icon description see pages 117-124)



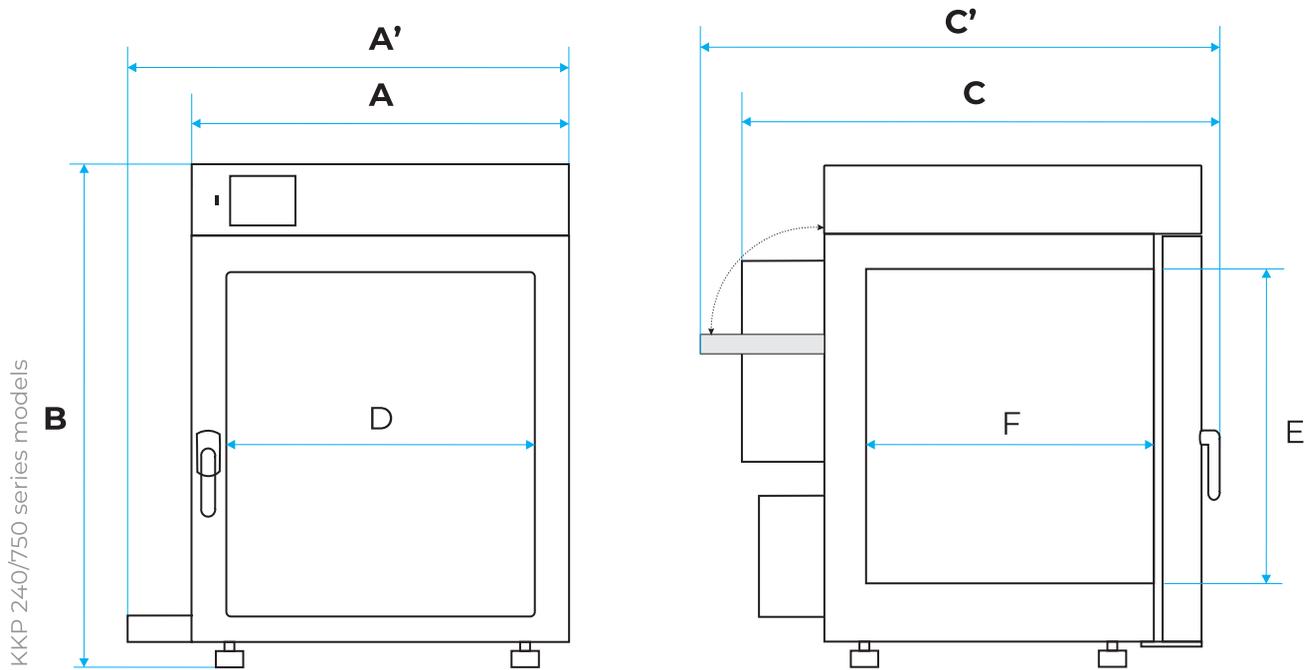
**DIMENSIONS & DATA**

All dimensions refer to standard units (without optional accessories).

Overall depth doesn't include 50 mm of power cable, the width does not include the 20 mm of access port's silicone plug.

Width doesn't include shelf for water tank - 140mm

Possibility of changing shelf position - KKP 240/750 - every 70 mm



		KKP 240	KKP 750
overall dims [mm]	A width	820	1260
	A' width	960	1400
	B height	1140	1580
	C depth	840	940
	C' depth	940	1040
internal dims [mm]	D width	600	1040
	E height	800	1200
	F depth	510	600