Richmond Scientific

Data sheet

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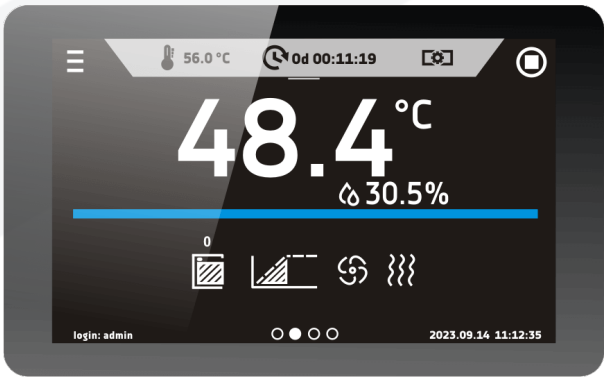
Climatic Chamber

KKP 240 Smart PRO



The photo above is for reference only, may show additional options not included in standard equipment. The real appearance, particularly color and structure of the material may differ from the ones presented in the photo.

Advantages of the SMART PRO controller:
- large (7”), clear, full colour touch screen
- LAN, USB ports and WiFi for communication and data transfer
- multi-segment time and temperature programs
- overview of data in tabular and graphic form
- visual and sound alarm
- Admin function for management
- password protected log-in
- internal memory for programs and data storage
- event registry with user notifications
- LabDesk software and user manual for direct download



Smart PRO - preview screen

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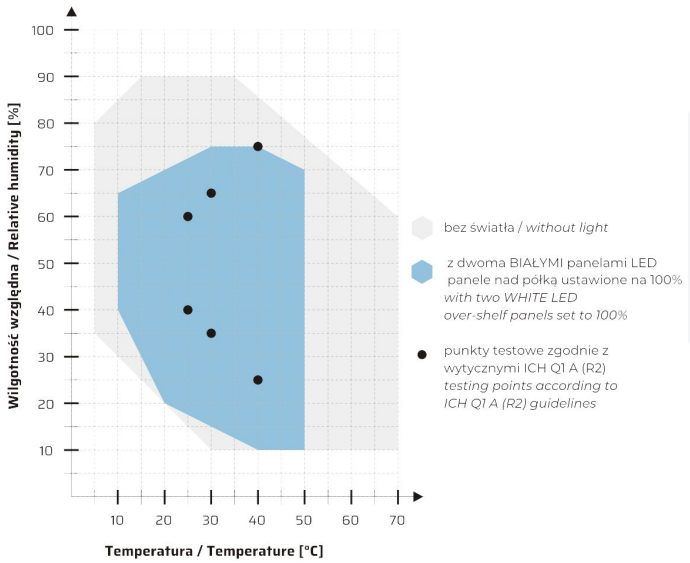
TECHNICAL DATA

air convection	forced
chamber capacity [l]	315
working capacity [l]	237
controller	microprocessor PID
display	7" full colour touch screen

TEMPERATURE AND HUMIDITY

Working temperature range without humidity [°C]	0...+70 (max 20°C below ambient temp.)
Temperature variation (spatial) at 40°C [+/-°C]	±0,3
Temperature fluctuation (time) at 40°C [+/-°C]	±0,1
Working temperature range with humidity [°C]	+5...+70 (max 20°C below ambient temp.)
temperature resolution every ... [°C]	0,1
Temperature variation (spatial) at 40°C, 75% RH [°C]	±0,3
Temperature fluctuation (time) at 40°C, 75% RH [°C]	±0,1
Temperature variation (spatial) at 25°C, 60% RH [°C]	±0,2
Temperature fluctuation (time) at 25°C, 60% RH [°C]	±0,1
temperature protection	class 3.3 to DIN 12880
relative humidity range [%]	10...90 (see chart for details)
humidity resolution every ... [%]	0,1
Humidity variation (spatial) at 40°C, 75% RH [+/-%RH]	< ±1,0
Humidity fluctuation (time) at 40°C, 75% RH [+/-%RH]	±0,3
Humidity variation (spatial) at 25°C, 60% RH [+/-%RH]	±0,8
Humidity fluctuation (time) at 25°C, 60% RH [+/-%RH]	±0,2
Recovery time to set values after 30 sec door open at 40°C, 75% RH [min]	10

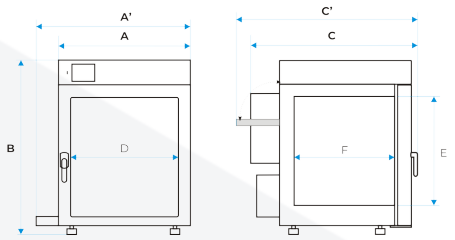


CHAMBER

door type	1 external solid door, 1 internal glass door
interior	
Smart PRO	corrosion-resistant stainless steel to DIN 1.4301
IG Smart PRO	corrosion-resistant stainless steel to DIN 1.4301

housing	
Smart PRO	powder coated sheet
IG Smart PRO	stainless steel linen finish

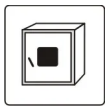
overall dims [mm] /1/	
width A	820
width A'	960
height B	1140
depth C	840
depth C'	940
internal dims [mm]	
width D	600
height E	800
depth F	500

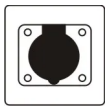
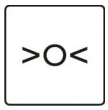
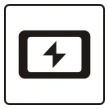


shelves (standard | max)	3 | 10
max shelf workload [kg] /2/	25
max unit workload [kg]	90
External water tank capacity [l]	6
weight [kg]	117
ELECTRICAL PARAMETERS	
voltage	230V 50/60Hz
nominal power [W]	2300
warranty	24 months
manufacturer	POL-EKO®

all the above technical data refer to standard units (without optional accessories)
* - variation (K) calculated for chamber as: K= +/- (T average max. - T average min.) / 2
** - other power supplies on request
1 - width doesn't include shelve for water tank - 140mm
2 - on uniformly loaded surface

OPTIONS AND ACCESSORIES

	Order number: */A	door with viewing window
	Order number: */P INOX	Stainless steel wire shelf INOX
	Order number: */PP	Perforated shelf

	Order number: */PW	Reinforced shelf
	Order number: KUW GN*/*	Stainless steel cuvettes
	Order number: GNZ	Internal socket
	Order number: KK/CP	Low water level sensor
	Order number: BRT/*/L or IQ/OQ/PQ	Calibration and IQ, OQ, PQ qualification
	Order number: RFID LOCK (SMART PRO)	RFID LOCK (SMART PRO)
	Order number: BPP 12	Battery backup for display
	Order number: PORT ALARM	Dry alarm contact
	Order number: OCZ/20	Non-standard access port 20 mm
	Order number: OCZ/30	Additional access port 30 mm
	Order number: OCZ/60	Non-standard access port 60 mm
	Order number: OCZ/100	Non-standard access port 100 mm
	Order number: 05-1200-2008-0600000	Tank with a wide inlet
	Order number: 05-1200-2008-0700000	RO6 System – reverse osmosis kit