POL-EKO®

(+48) 32 453 91 70
info@pol-eko.com.pl
www.pol-eko.com.pl

POL-EKO A.Polok-Kowalska sp.k.
44-300 Wodzisław Śląski
ul. Kokoszycka 172 C

Data sheet

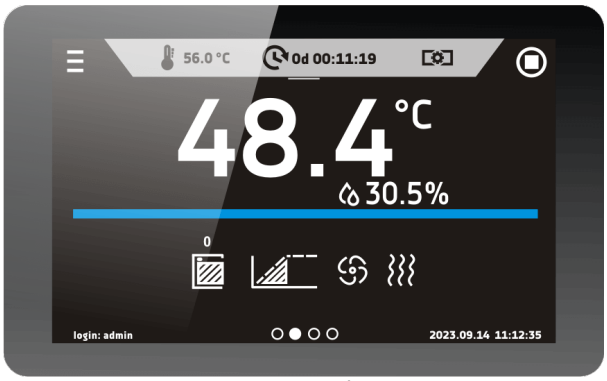
print date: 2026-10-09

Climatic Chamber with Phytotron System

KKS 240 FIT 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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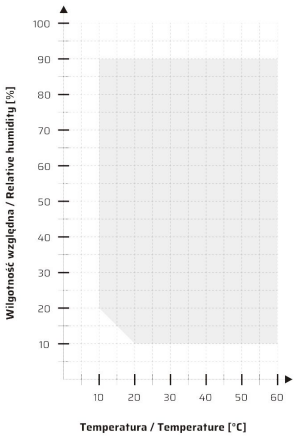
TECHNICAL DATA	
air convection	forced
chamber capacity [l]	315
working capacity [l]	237
controller	microprocessor PID
display	7" full colour touch screen
TEMPERATURE AND HUMIDITY	
temperature range [°C]	0...+60 (with light on +10...+50)
temperature resolution every ... [°C]	0,1
temperature variation at 25°C and 60%rH [+/-°C]*	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 at 25°C and 60% rH [%rH]	2



LIGHT	
phytotron FIT P LED MULTI option	
maximum number of shelves	2
PPFD in µmol/m²/s /4/	600
phytotron FIT P LED WHITE (4000 K) option	
maximum number of shelves based on power, option 1	2
PPFD in µmol/m²/s, option 1 /5/	300
maximum number of shelves based on power, option 2	2
PPFD in µmol/m²/s, option 2 /5/	600
FIT D option (doors)	Average light intensity on the shelf > 150 µmol/m²/s
CHAMBER	
door type	double (external solid, internal glass) / external glass (option)
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

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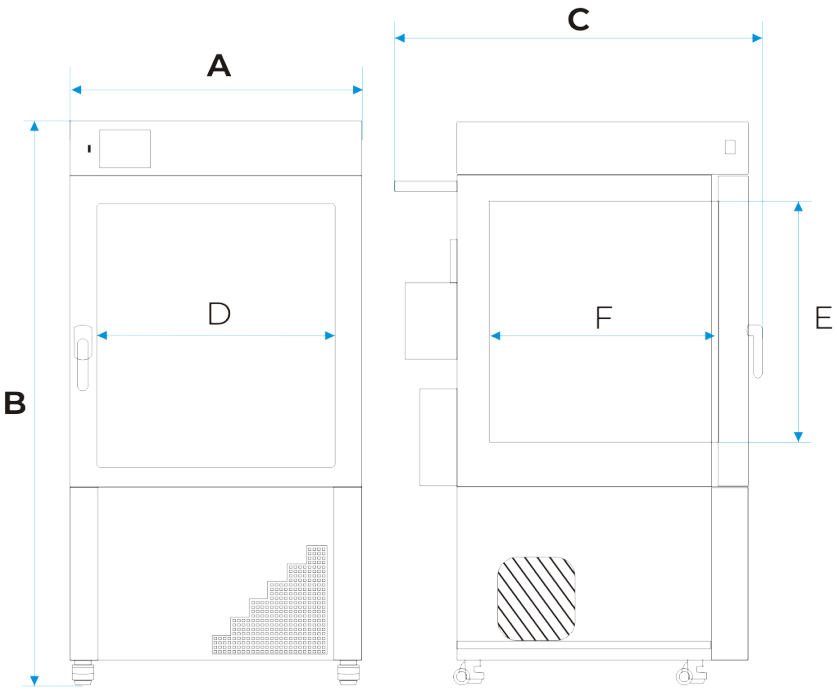
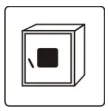
overall dims [mm] /1/	
width A	820
height B	1590
depth C	880
internal dims [mm]	
width D	600
height E	790
depth F	500



shelves (standard | max)	3 | 10
max shelf workload [kg] /2/	25
- reinforced shelf version (PW) [kg] /3/	100
max unit workload [kg]	90
weight [kg]	170
ELECTRICAL PARAMETERS	
voltage	230V 50/60Hz
nominal power [W]	2000
refrigerant	R290 / GWP=3
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 - depth doesn't include 50 mm of power cable
2 - on uniformly loaded surface
3 - reinforced shelf
4 - Average light intensity on the shelf, measured at a distance of 15 cm from the light source, with all four light colours set to 100%
5 - Average light intensity on the shelf, measured at a distance of 15 cm from the light source

OPTIONS AND ACCESSORIES

	Order number: */A	door with viewing window

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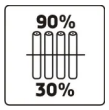
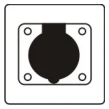
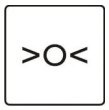
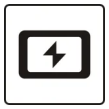
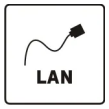
	Order number: */P INOX	Stainless steel wire shelf INOX
	Order number: */PP	Perforated shelf
	Order number: */PW	Reinforced shelf
	Order number: KUW GN*/*	Stainless steel cuvettes
	Order number: FIT/R3	FIT panels independent control
	Order number: GNZ	Internal socket
	Order number: KK/CP	Low water level 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: LANK	LAN cable
	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: KK/Z	Container for deionised water
	Order number: 05-1200-0803-0000002	Tank with a wide inlet

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Order number: 05-1200-2008-0500001

RO6 System – reverse osmosis kit