



Data sheet

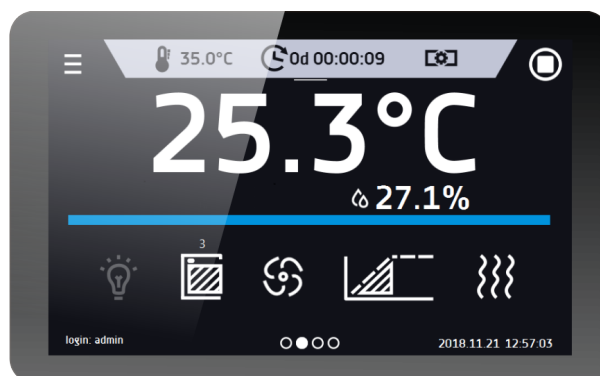
Climatic Chamber KK 1450 Smart PRO



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



TECHNICAL DATA

air convection	forced
chamber capacity [l]	1485
working capacity [l]	1264
controller	microprocessor PID
display	7" full colour touch screen

TEMPERATURE AND HUMIDITY

temperature range [°C]	0...+60
temperature resolution every ... [°C]	0,1
temperature variation at 25°C and 60%rH [±/°C]*	2,0
temperature protection	class 3.3 to DIN 12880
relative humidity range [%]	30...90 (see chart for details)
humidity resolution every ... [%]	1,0
humidity variation at 25°C and 60% rH [%rH]	5,0



CHAMBER

door type	double (external solid, internal glass) / external glass (option)
interior	
Smart PRO	acid-proof stainless steel to DIN 1.4301
IG Smart PRO	acid-proof stainless steel to DIN 1.4301
housing	
Smart PRO	powder coated sheet
IG Smart PRO	stainless steel linen finish



POL-EKO
Perfect Environment

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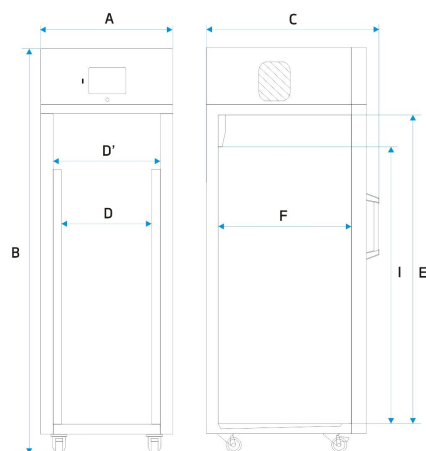
POL-EKO A. Polok-Kowalska sp.k.
44-300 Wodzisław Śląski
ul. Kokoszycka 172 C

overall dims [mm] /1/

width A	1460
height B	1940
depth C	1240

internal dims [mm]

width D	1270
width D'	1340
height E	1460
depth F	750
height I	1270



shelves (standard max)	2 x 3 11
max shelf workload [kg] /2/	30
- reinforced shelf version (PW) [kg] /3/	100
max unit workload [kg]	300
weight [kg]	230

ELECTRICAL PARAMETERS

voltage**	230V 50-60Hz
nominal power [W]	3450
refrigerant	R290 / GWP=3
warranty	24 months

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

* - variation (K) calculated for chamber as: $K = \frac{T_{\text{average max.}} - T_{\text{average min.}}}{2}$

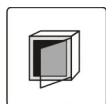
** - other power supplies on request

1 - depth doesn't include 50 mm of power cable

2 - on uniformly loaded surface

3 - reinforced shelf

OPTIONS AND ACCESSORIES



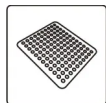
Order number: */A

External glass door



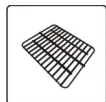
Order number: */P INOX

Stainless steel wire shelf INOX



Order number: */PP

Perforated shelf



Order number: */PW

Reinforced shelf



Bank: ING BŚ o/Wodzisław Śląski | Nr rachunku: 90 1050 1403 1000 0022 0879 5498 | Nr rej. w BDO 000005609
NIP: 647-216-26-87 | REGON: 276111984 | Sąd Rejonowy w Gliwicach, X Wydział Gospodarczy | KRS 0001009595



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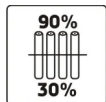
Order number: KUW GN*/*

Stainless steel cuvettes



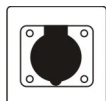
Order number: */FIT

Phytotron system



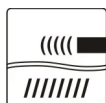
Order number: FIT/R3

FIT panels independent control



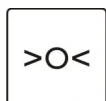
Order number: GNZ

Internal socket



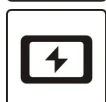
Order number: KK/CP

Low water level sensor



Order number: BRT*/L or IQ/OQ/PQ

Calibration and IQ, OQ, PQ qualification



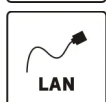
Order number: BPP 12

Battery backup for display



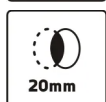
Order number: PORT ALARM

Dry alarm contact



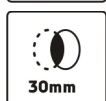
Order number: LANK

LAN cable



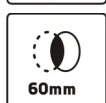
Order number: OCZ/20

Non-standard access port 20 mm



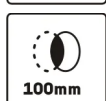
Order number: OCZ/30

Additional access port 30 mm



Order number: OCZ/60

Non-standard access port 60 mm



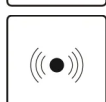
Order number: OCZ/100

Non-standard access port 100 mm



Order number: KK/Z

Container for deionised water



Order number: KD

Access control