



POL-EKO
Perfect Environment

(+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

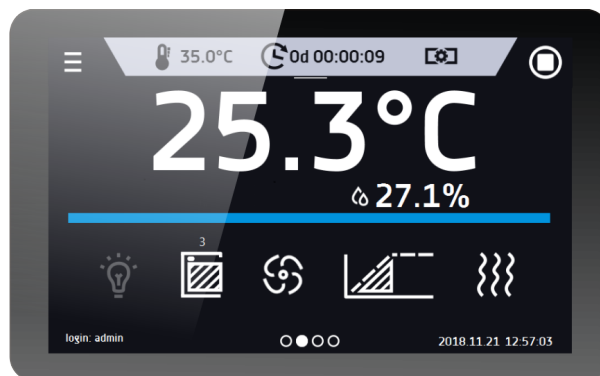
Cooled Incubator (ST) ST 1450 Smart PRO



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



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TECHNICAL DATA

air convection	forced
chamber capacity [l]	1540
working capacity [l]	1525
controller	microprocessor PID
display	7" full colour touch screen

TEMPERATURE

temperature range [°C]	+3...+70
temperature resolution every ... [°C]	0,1
temperature fluctuation at 37°C [±/°C]*	0,3
temperature variation at 37°C [±/°C]*	1,0
temperature protection	class 3.3 to DIN 12880

CHAMBER

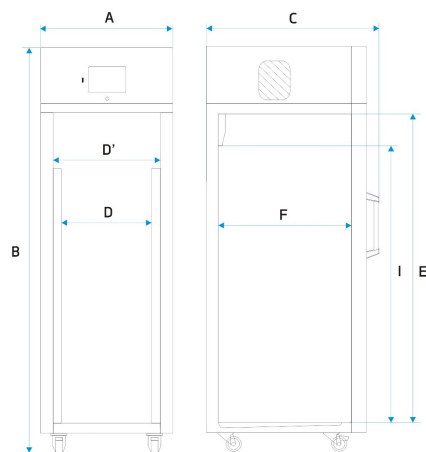
door type	solid / glass or double (option) /4/
interior	
P Smart PRO	acid-proof stainless steel to DIN 1.4301
PS Smart PRO	acid-proof stainless steel to DIN 1.4301
housing	
P Smart PRO	powder coated sheet
PS Smart PRO	stainless steel polished

overall dims [mm] /1/

width A	1440
height B	1940
depth C	1060

internal dims [mm]

width D	1270
width D'	1340
height E	1460
depth F	780
height I	1380



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]	200



ELECTRICAL PARAMETERS

voltage**	230V 50-60Hz
nominal power [W]	950
refrigerant	R290 / GWP=3
warranty	24 months

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

* - fluctuation measured in centre of the chamber; in space, variation (K) calculated for chamber as:

$K = \pm (T \text{ average max.} - T \text{ average min.}) / 2$

** - other power supplies on request

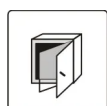
1 - depth doesn't include 50 mm of power cable, the width does not include the 20 mm of rubber plug

2 - on uniformly loaded surface

3 - reinforced shelf

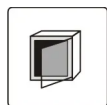
4 - additional internal glass door

OPTIONS AND ACCESSORIES



Order number: */C

Internal glass door



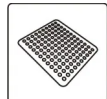
Order number: */A

External glass door



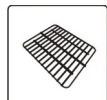
Order number: */P INOX

Stainless steel wire shelf INOX



Order number: */PP

Perforated shelf



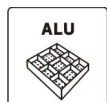
Order number: */PW

Reinforced shelf



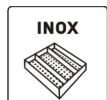
Order number: KUW GN*/*

Stainless steel cuvettes



Order number: ST/CHL/SWP ALU

Aluminum drawer with powder coated slides



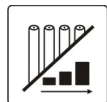
Order number: ST/CHL/SWP INOX

Stainless steel drawer with powder coated slides



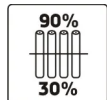
Order number: ST/CHL/SWPN INOX

Stainless steel drawer with stainless steel slides



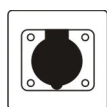
Order number: */FIT

Phytotron system



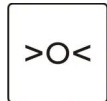
Order number: FIT/R3

FIT panels independent control



Order number: GNZ

Internal socket



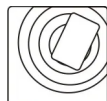
Order number: BRT/*L or IQ/OQ/PQ

Calibration and IQ, OQ, PQ qualification



Order number: */RK

Chart recorder



Order number: ZKM

Magnetic door lock



Order number: BPP 12

Battery backup for display



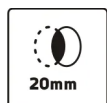
Order number: PORT ALARM

Dry alarm contact



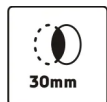
Order number: LANK

LAN cable



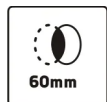
Order number: OCZ/20

Non-standard access port 20 mm



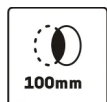
Order number: OCZ/30

Additional access port 30 mm



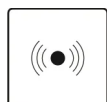
Order number: OCZ/60

Non-standard access port 60 mm



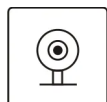
Order number: OCZ/100

Non-standard access port 100 mm



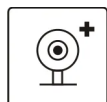
Order number: KD

Access control



Order number: CCTV

Camera inside the chamber



Order number: CCTV CAM

Additional camera