



**POL-EKO**  
Perfect Environment

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

## Data sheet

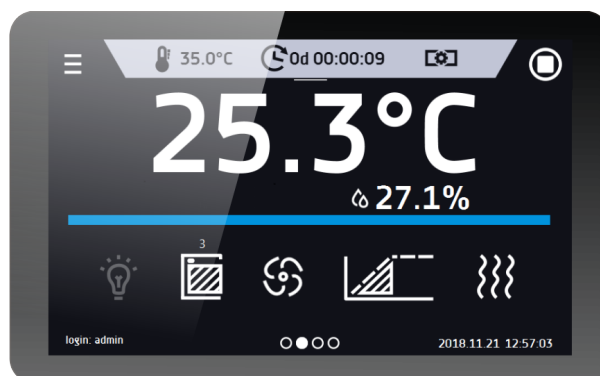
## Cooled Incubator (ST) ST 4 Smart PRO



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]	250
working capacity [l]	203
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]*	0,6
temperature protection	class 3.3 to DIN 12880

## CHAMBER

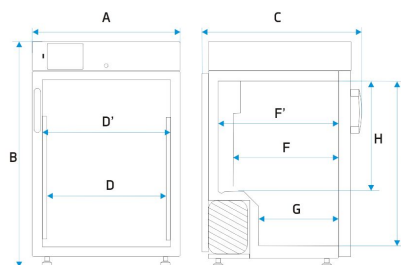
door type	solid / glass or double (option) /4/
<b>interior</b>	
P Smart PRO	acid-proof stainless steel to DIN 1.4301
PS Smart PRO	acid-proof stainless steel to DIN 1.4301
<b>housing</b>	
P Smart PRO	powder coated sheet
PS Smart PRO	stainless steel polished

### overall dims [mm] /1/

width A	600
height B	1300
depth C	650

### internal dims [mm]

width D	480
width D'	520
height E	1060
depth F	420
depth F'	480
depth G	320
height H	840



shelves (standard   max)	4   6
max shelf workload [kg] /2/	10
max unit workload [kg]	50
weight [kg]	69



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## ELECTRICAL PARAMETERS

voltage**	230V 50-60Hz
nominal power [W]	250
refrigerant	R1234ze / GWP=1
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:  $K = \pm (T \text{ average max.} - T \text{ average min.}) / 2$ ; parameters given for the chamber above the bottom step

\*\* - other power supplies on request

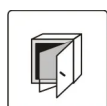
1 - depth doesn't include 50 mm of power cable, the width does not include the 20 mm of rubber plug

2 - on uniformly loaded surface

3 - reinforced shelf

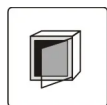
4 - additional internal glass door

## OPTIONS AND ACCESSORIES



Order number: \*/C

Internal glass door



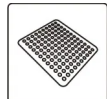
Order number: \*/A

External glass door



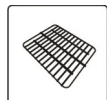
Order number: \*/P INOX

Stainless steel wire shelf INOX



Order number: \*/PP

Perforated shelf



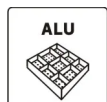
Order number: \*/PW

Reinforced shelf



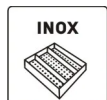
Order number: KUW GN\*/\*

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: ORG-FARM

Pharma organizer



Order number: QLK\*

Castors



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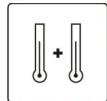
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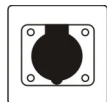
Order number: \*PLUS

Automatic defrosting function



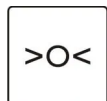
Order number: PT 100

Additional temperature sensor



Order number: GNZ

Internal socket



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

Calibration and IQ, OQ, PQ qualification



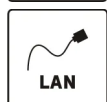
Order number: BPP 12

Battery backup for display



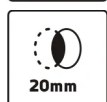
Order number: PORT ALARM

Dry alarm contact



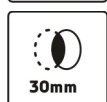
Order number: LANK

LAN cable



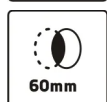
Order number: OCZ/20

Non-standard access port 20 mm



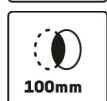
Order number: OCZ/30

Additional access port 30 mm



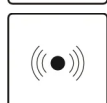
Order number: OCZ/60

Non-standard access port 60 mm



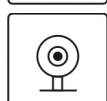
Order number: OCZ/100

Non-standard access port 100 mm



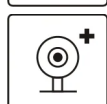
Order number: KD

Access control



Order number: CCTV

Camera inside the chamber



Order number: CCTV CAM

Additional camera