



Data sheet

print date: 2024-11-03

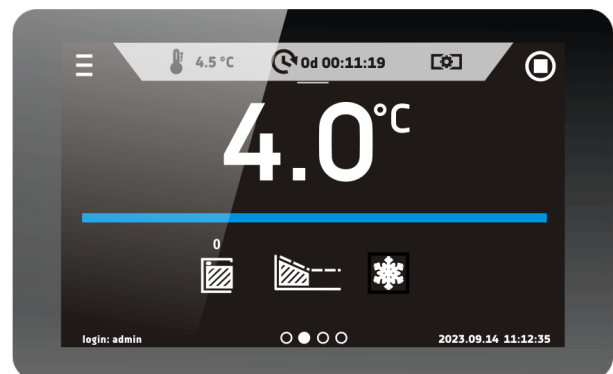
Cooled Incubator (ST) with freezer ST 2 / ZLN 85 Smart PRO



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 / natural
chamber capacity [l]	150 / 85
working capacity [l]	122 / 73
controller	microprocessor PID
display	7" full colour touch screen

TEMPERATURE

temperature range [°C]	+3...+70 / -25...0
temperature resolution every ... [°C]	0,1
temperature fluctuation at 37°C [+/°C]*	0,3
temperature fluctuation at -20°C [+/°C]*	0,5
temperature variation at 37°C [+/°C]*	0,6
temperature variation at -20°C [+/°C]*	2
temperature protection	class 3.2 to DIN 12880

CHAMBER

door type	solid / glass or double (option) /4/ solid (ZL)
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interior

C Smart PRO	stainless steel to DIN 1.4016
CS Smart PRO	stainless steel to DIN 1.4016
P Smart PRO	acid-proof stainless steel to DIN 1.4301
PS Smart PRO	acid-proof stainless steel to DIN 1.4301

housing

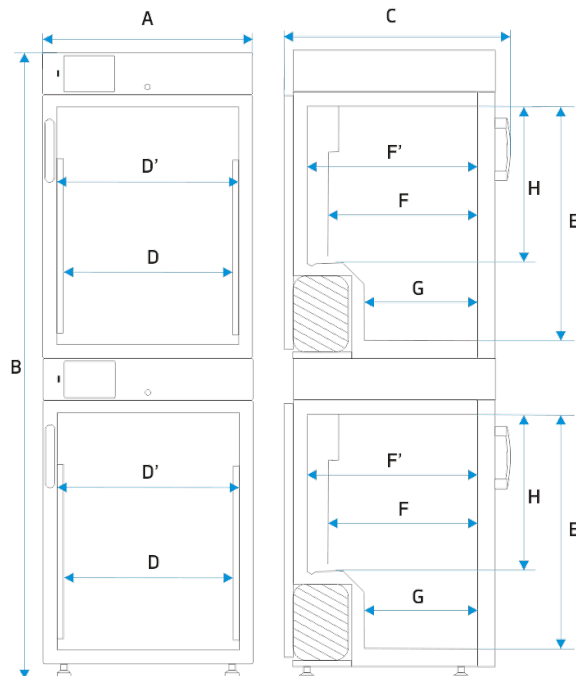
C Smart PRO	powder coated sheet
CS Smart PRO	stainless steel polished
P Smart PRO	powder coated sheet
PS Smart PRO	stainless steel polished

overall dims [mm] /1/

width A	610
height B	1740
depth C	650

internal dims [mm]

width D	480 / 400
width D'	520 / 420
height E	660 / 590
depth F	420 / 400
depth F'	480 / 440
depth G	320 / 270
height H	440 / 380



shelves (standard max)	3 4 / 2 4
max shelf workload [kg] /2/	10
max unit workload [kg]	30 / 30
weight [kg]	116



ELECTRICAL PARAMETERS

voltage	230V 50-60Hz
nominal power [W]	500
refrigerant	R1234ze / GWP=7 R290 / GWP=3
warranty	24 months
manufacturer	POL-EKO®

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: $K = \frac{T_{max} - T_{min}}{T_{avg}}$ / 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

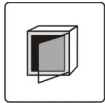
4 - additional internal glass door

OPTIONS AND ACCESSORIES



Order number: */C

Internal glass door



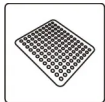
Order number: */A

External glass door



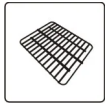
Order number: */P INOX

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



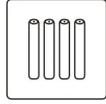
Order number: *PLUS

Automatic defrosting function



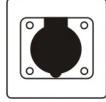
Order number: ST/70

Extended temperature range to 70°C



Order number: */FOT

Photoperiodic system



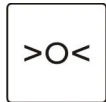
Order number: GNZ

Internal socket



Order number: LabDesk

LabDesk software



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

Calibration and IQ, OQ, PQ qualification



Order number: */3.2

Over temperature protection 3.2 class according to DIN 12880



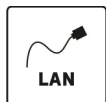
Order number: BPP 12

Battery backup for display



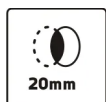
Order number: PORT ALARM

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