



Data sheet

print date: 2026-01-21

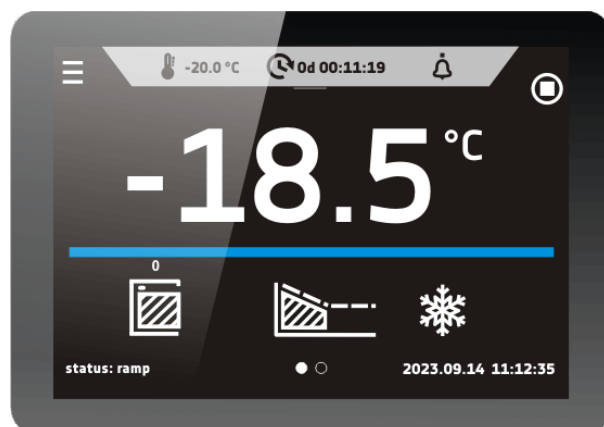
Laboratory Freezer ZLN 85 Smart



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 controller:

- 4,3", clear, full colour touch screen
- LAN, USB ports for data transfer
- multi-segment time and temperature programs
- visual and sound alarm
- internal memory for programs and data storage
- event registry
- user manual for direct download
- Quick change of program parameters
- Alarm Bar
- operating with gloves on



Smart - preview screen



TECHNICAL DATA

air convection	natural
chamber capacity [l]	85
working capacity [l]	82
controller	microprocessor PID
display	4,3" full colour touch screen
insulation type	polyurethane foam

TEMPERATURE

temperature range [°C]	-25...0
temperature resolution every ... [°C]	0,1
temperature fluctuation at -20°C [±/°C]*	0,5
temperature variation at -20°C [±/°C]*	2
temperature protection	class 3.2 to DIN 12880 (option)

CHAMBER

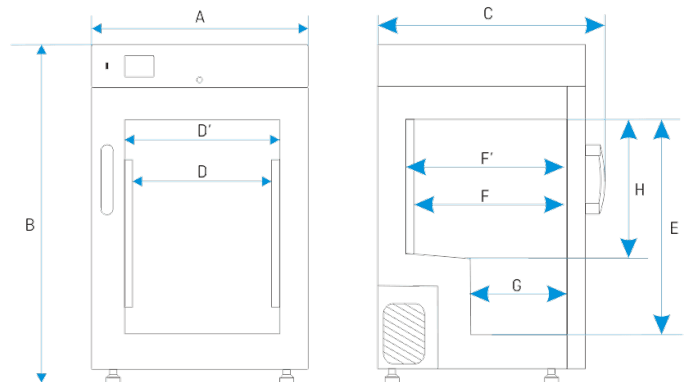
door type	solid
interior	
C Smart	stainless steel to DIN 1.4016
CS Smart	stainless steel to DIN 1.4016
P Smart	acid-proof stainless steel to DIN 1.4301
PS Smart	acid-proof stainless steel to DIN 1.4301
housing	
C Smart	powder coated sheet
CS Smart	stainless steel polished
P Smart	powder coated sheet
PS Smart	stainless steel polished

overall dims [mm] / l/

width A	610
height B	920
depth C	650

internal dims [mm]

width D	400
width D'	420
height E	590
depth F	400
depth F'	440
depth G	270
height H	380



shelves (standard max)	2 4
max shelf workload [kg] /2/	10
max unit workload [kg]	30
weight [kg]	62



ELECTRICAL PARAMETERS

voltage	230V 50/60Hz
nominal power [W]	200
refrigerant	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:

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

** - other power supplies on request

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

2 - on uniformly loaded surface

3 - reinforced shelf

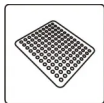
4 - reinforced version

OPTIONS AND ACCESSORIES



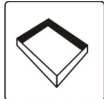
Order number: */P INOX

Stainless steel wire shelf INOX



Order number: */PP

Perforated shelf



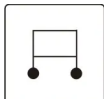
Order number: KUW GN**

Stainless steel cuvettes



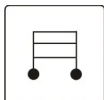
Order number: QLK*

Castors



Order number: */S or */S INOX

Table with castors



Order number: */ST or */S INOX

Base on castors



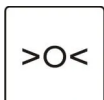
Order number: OWW/OWW LED

Interior lighting



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



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



Order number: KD

Access control



Order number: BPP 12

Battery backup for display



Order number: PORT ALARM

Dry alarm contact