



POL-EKO
Perfect Environment

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Data sheet

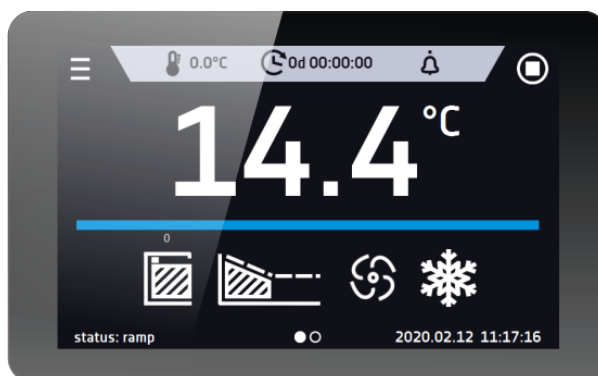
Laboratory Freezer ZLN 85 Smart



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] | 73 |
| 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]* | 2,0 |
| over temperature protection | class 3.2 to DIN 12880 (option) |

CHAMBER

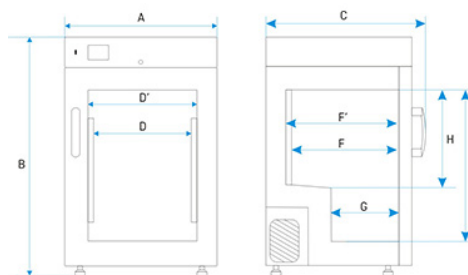
| | |
|-----------------|-------------------------------|
| door type | solid |
| interior | |
| C Smart | stainless steel to DIN 1.4016 |
| CS Smart | stainless steel to DIN 1.4016 |
| P Smart | DIN 1.4301 |
| PS Smart | DIN 1.4301 |
| housing | |
| C Smart | powder coated sheet |
| CS Smart | stainless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

overall dims [mm] /1/

| | |
|----------|-----|
| width A | 620 |
| height B | 930 |
| depth C | 650 |

internal dims [mm]

| | |
|----------|-----|
| width D | 380 |
| width D' | 420 |
| height E | 590 |
| depth F | 400 |
| depth F' | 440 |
| depth G | 230 |
| 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=36 |
| 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

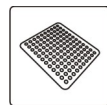
4 - reinforced version

OPTIONS AND ACCESSORIES



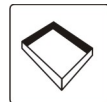
Order number: */P INOX

Stainless steel wire shelf INOX



Order number: */PP

Perforated shelf



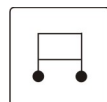
Order number: KUW GN*/*

Stainless steel cuvettes



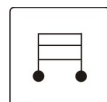
Order number: QLK*

Castors



Order number: */S or */S INOX

Table with castors



Order number: */ST or */S INOX

Base on castors



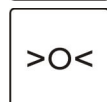
Order number: OWW/OWW LED

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



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Order number: BPP 12

Battery backup for display



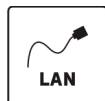
Order number: PORT ALARM

Dry alarm contact



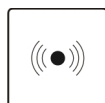
Order number: USBK

USB cable



Order number: LANK

LAN cable



Order number: KD

Access control