



POL-EKO®

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

## Data sheet

print date: 2026-01-21

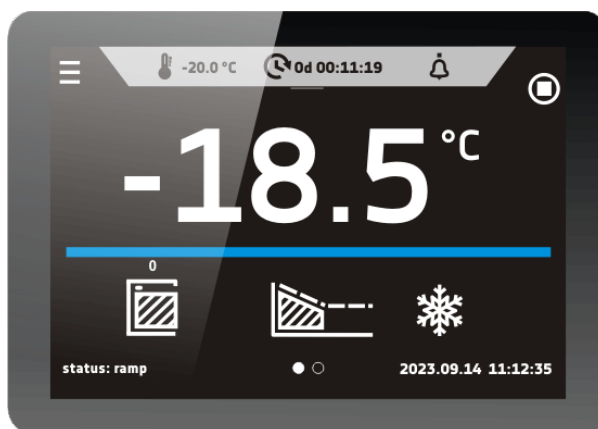
## Laboratory Freezer ZLN-T 300 Smart



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



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## TECHNICAL DATA

|                      |                               |
|----------------------|-------------------------------|
| air convection       | natural                       |
| chamber capacity [l] | 314                           |
| working capacity [l] | 293                           |
| controller           | microprocessor PID            |
| display              | 4,3" full colour touch screen |
| insulation type      | polyurethane foam             |

## TEMPERATURE

|                                          |                                 |
|------------------------------------------|---------------------------------|
| temperature range [°C]                   | -40...0                         |
| temperature resolution every ... [°C]    | 0,1                             |
| temperature fluctuation at -20°C [±/°C]* | 0,5                             |
| temperature variation at -20°C [±/°C]*   | 2,5                             |
| temperature protection                   | class 3.2 to DIN 12880 (option) |

## CHAMBER

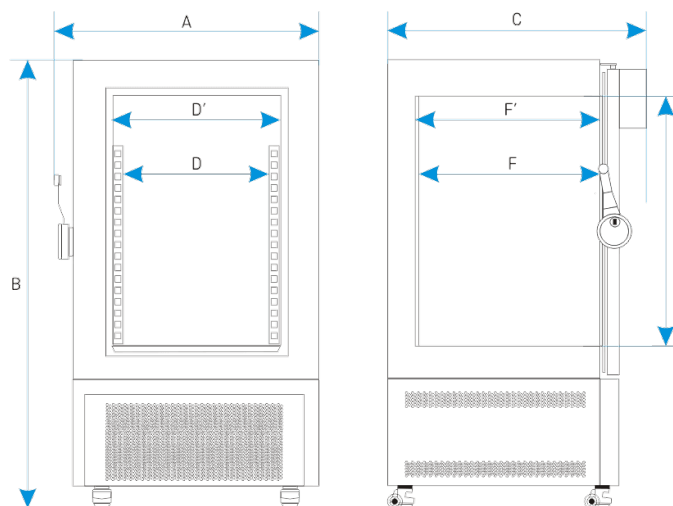
|                 |                                          |
|-----------------|------------------------------------------|
| door type       | solid                                    |
| <b>interior</b> |                                          |
| C Smart         | stainless steel to DIN 1.4016            |
| 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 |
| <b>housing</b>  |                                          |
| 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  | 820  |
| height B | 1740 |
| depth C  | 810  |

## internal dims [mm]

|          |      |
|----------|------|
| width D  | 460  |
| width D' | 520  |
| height E | 1120 |
| depth F  | 530  |
| depth F' | 550  |



|                                          |       |
|------------------------------------------|-------|
| shelves (standard   max)                 | 3   6 |
| max shelf workload [kg] /2/              | 10    |
| - reinforced shelf version (PW) [kg] /3/ | 50    |
| max unit workload [kg]                   | 80    |
| - reinforced unit version (W) [kg] /4/   | 160   |
| weight [kg]                              | 185   |



Bank: ING BŚ o/Wodzisław Śląski | Nr rachunku: 90 1050 1403 1000 0022 0879 5498 | Nr rej. w BDO 000005609  
NIP: 647-216-26-87 | REGON: 276111984 | Sąd Rejonowy w Gliwicach, X Wydział Gospodarczy | KRS 0001009595



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## ELECTRICAL PARAMETERS

|                   |              |
|-------------------|--------------|
| voltage           | 230V 50/60Hz |
| nominal power [W] | 450          |
| 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

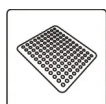
1 - depth doesn't include 50 mm of power cable

2 - on uniformly loaded surface

3 - reinforced shelf

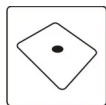
4 - reinforced version

## OPTIONS AND ACCESSORIES



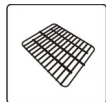
Order number: \*/PP

Perforated shelf



Order number: \*/PO

Full shelf with hole



Order number: \*/PW

Reinforced shelf



Order number: KUW GN\*/\*

Stainless steel cuvettes



Order number: \*/W

Reinforced version



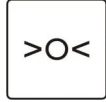
Order number: OWW/OWW LED

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



Order number: KD

Access control



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Order number: BPP 12

Battery backup for display



Order number: PORT ALARM

Dry alarm contact