



**POL-EKO**  
Perfect Environment

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## Data sheet

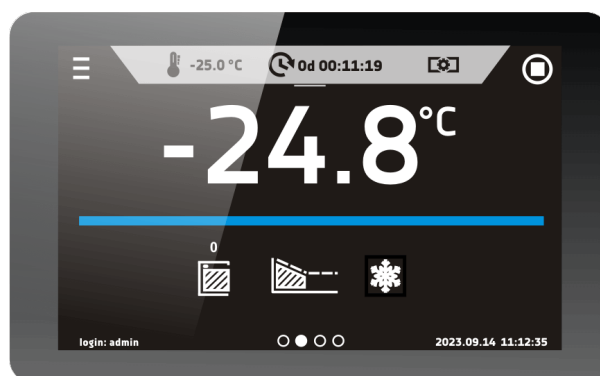
## Laboratory Freezer ZLN-T 300 Smart PRO



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



|      |                     |
|------|---------------------|
| 1    | 125                 |
| type | ZLN-T 300 Smart PRO |

#### TECHNICAL DATA

|                      |                             |
|----------------------|-----------------------------|
| air convection       | natural                     |
| chamber capacity [l] | 310                         |
| working capacity [l] | 262                         |
| controller           | microprocessor PID          |
| display              | 7" full colour touch screen |
| insulation type      | polyurethane foam           |

#### TEMPERATURE

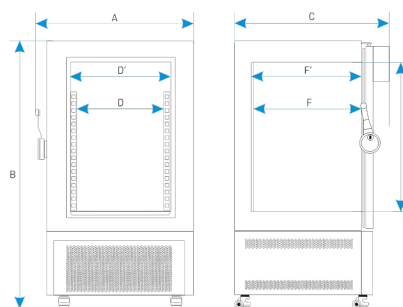
|  |                                 |
|--|---------------------------------|
| temperature range [°C]                   | -40...0                         |
| temperature resolution every ... [°C]    | 0,1                             |
| temperature fluctuation at -20°C [±/°C]* | 0,5                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

#### CHAMBER

|                 |  |
|-----------------|--|
| door type       | solid                                    |
| <b>interior</b> |  |
| 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                   | 820  |
| height B                  | 1730 |
| depth C                   | 810  |
| <b>internal dims [mm]</b> |      |
| width D                   | 450  |
| width D'                  | 520  |
| height E                  | 1120 |
| depth F                   | 520  |
| depth F'                  | 530  |



|  |       |
|--|-------|
| 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   |



## ELECTRICAL PARAMETERS

|                   |   |
|-------------------|---|
| voltage**         | 230V 50-60Hz  |
| nominal power [W] | 450   |
| refrigerant       | R290 / GWP=3  |
| warranty          | 24 months   |
| manufacturer      | POL-EKO   |
| txt_opis_pt       | <p>all the above technical data refer to standard units (without optional accessories)</p> <p>* - fluctuation measured in centre of the chamber; in space, variation (K) calculated for chamber as:<br/>K= +/- (T average max. - T average min. ) / 2</p> <p>** - other power supplies on request</p> <p>1 - depth doesn't include 50 mm of power cable<br/>2 - on uniformly loaded surface<br/>3 - reinforced shelf<br/>4 - reinforced version</p>                       |
| PL typ urządzenia | Laboratory Freezer  |
| img_photo         | ZLN-T-300-Smart-PRO   |
|                   | <p>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.</p> <p>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.</p> |
| nazwa www pl      | Zamrażarka Laboratoryjna ZLN-T 300 Smart PRO  |
| nazwa www EN      | Laboratory Freezer ZLN-T 300 Smart PRO  |
| nazwa www ES      | Congelador de Laboratorio ZLN-T 300 Smart PRO   |
| ekran_grafika     | zl_smart_pro  |
|                   | zamrażarki laboratoryjne  |
| 0                 | 1   |

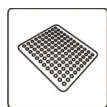
all the above technical data refer to standard units (without optional accessories)

\* - fluctuation measured in centre of the chamber; in space, variation (K) calculated for chamber as:  
K= +/- (T average max. - T average min. ) / 2

\*\* - other power supplies on request

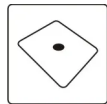
1 - depth doesn't include 50 mm of power cable  
2 - on uniformly loaded surface  
3 - reinforced shelf  
4 - reinforced version

## OPTIONS AND ACCESSORIES



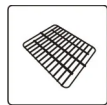
Order number: \*/PP

Perforated shelf



Order number: \*/PO

Full shelf with hole



Order number: \*/PW

Reinforced shelf



Order number: KUW GN\*/\*

Stainless steel cuvettes



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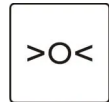
Order number: \*/W

Reinforced version



Order number: OWW/OWW LED

Interior lighting



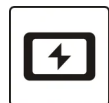
Order number: BRT/\*/L or IQ/OQ/PQ

Calibration and IQ, OQ, PQ qualification



Order number: \*/3.2

Over temperature protection 3.2 class according to DIN 12880



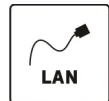
Order number: BPP 12

Battery backup for display



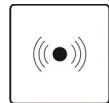
Order number: PORT ALARM

Dry alarm contact



Order number: LANK

LAN cable



Order number: KD

Access control