

## Data sheet

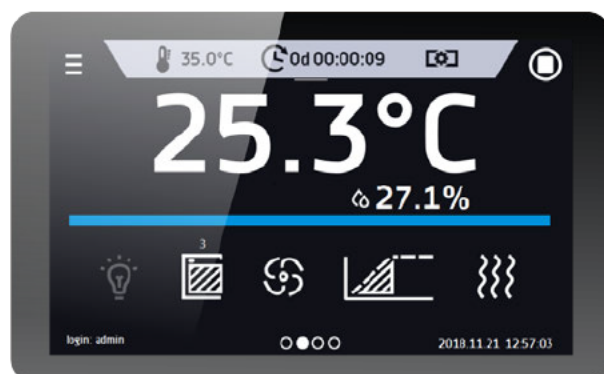
## Laboratory Freezer ZLN-T 200 Smart PRO



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	natural
chamber capacity [l]	210
working capacity [l]	180
controller	microprocessor PID
display	7 full colour touch screen
insulation type	polyurethane foam

## TEMPERATURE

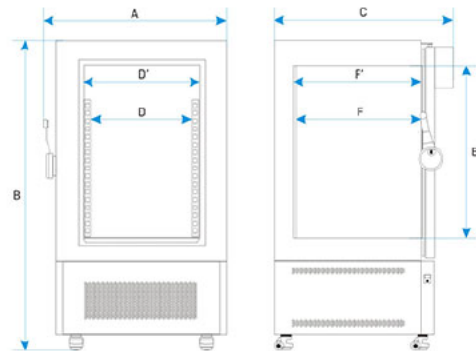
temperature range [°C]	-40...0
temperature resolution every ... [°C]	0,1
temperature fluctuation at -20°C [±/°C]*	0,5
temperature variation at -20°C [±/°C]*	2,5
over temperature protection	class 3.2 to DIN 12880 (option)

## CHAMBER

door type	solid
<b>interior</b>	
P Smart PRO	DIN 1.4301
PS Smart PRO	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	1380
depth C	810
<b>internal dims [mm]</b>	
width D	450
width D'	520
height E	770
depth F	520
depth F'	530



shelves (standard   max)	2   4
max shelf workload [kg] /2/	10
- reinforced shelf version (PW) [kg] /3/	50
max unit workload [kg]	65
- reinforced unit version (W) [kg] /4/	130
weight [kg]	120

## ELECTRICAL PARAMETERS

voltage**	230V 50-60Hz
nominal power [W]	450
refrigerant	R290 / GWP=3
warranty	24 months
manufacturer	POL-EKO-APARATURA
txt_opis pod tabelą	<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:  <math>K = \pm (T \text{ average max.} - T \text{ average min.}) / 2</math></p> <p>** - other power supplies on request</p> <p>1 - depth doesn't include 50 mm of power cable                  2 - on uniformly loaded surface                  3 - reinforced shelf                  4 - reinforced version</p>

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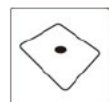
1 - depth doesn't include 50 mm of power cable  
 2 - on uniformly loaded surface  
 3 - reinforced shelf  
 4 - reinforced version

## 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



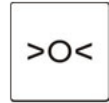
Order number: \*/W

Reinforced version



Order number: OWW/OWW LED

Interior lighting



Order number: 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



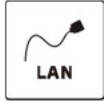
Order number: PORT ALARM

Dry alarm contact



Order number: USBK

USB cable



Order number: LANK

LAN cable



Order number: KD

Access control