Data sheet

print date: 2026-11-10

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

Richmond Scientific

TECHNICAL DATA

air convection	natural
chamber capacity [l]	314
working capacity [l]	293
controller	microprocessor PID
display	7" full colour touch screen
insulation type	polyurethane foam

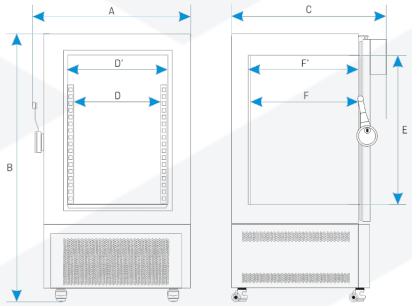
TEMPERATURE

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
interior	
P Smart PRO	corrosion-resistant stainless steel to DIN 1.4301
PS Smart PRO	corrosion-resistant stainless steel to DIN 1.4301
housing	
P Smart PRO	powder coated sheet
PS Smart PRO	stainless steel polished

overall dims [mm] /1/	
width A	820
height B	1740
depth C	810
internal dims [mm]	
width D	490
width D'	520
height E	1120
depth F	530
depth F'	550

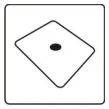
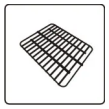
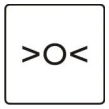
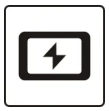


shelves (standard | max)	3 | 6
max shelf workload [kg] /2/	10
- reinforced shelf version (PW) [kg] /3/	50
max unit workload [kg]	80
- reinforced unit version (W) [kg] /4/	160
weight [kg]	185

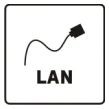
ELECTRICAL PARAMETERS	
voltage	230V 50/60Hz
nominal power [W]	450
refrigerant	R290 / GWP=3
warranty	24 months
manufacturer	POL-EKO®

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= +/- (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
	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

Richmond Scientific



Order number: LANK LAN cable