Richmond Scientific

Data sheet

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Laboratory Freezer

ZLN-T 200 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

+44 (0) 1257 270 433
harry@richmondscientific.com
Richmond Scientific Limited
Unit 9, Edward Street, Chorley, Lancashire, PR6 0RE

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TECHNICAL DATA

air convection	natural
chamber capacity [l]	217
working capacity [l]	202
controller	microprocessor PID
display	4,3" full colour touch screen
insulation type	polyurethane foam

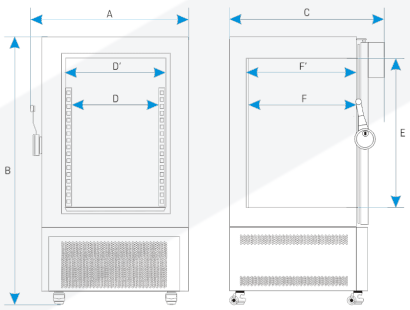
TEMPERATURE

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
interior	
C Smart	stainless steel to DIN 1.4016
CS Smart	stainless steel to DIN 1.4016
P Smart	corrosion-resistant stainless steel to DIN 1.4301
PS Smart	corrosion-resistant stainless steel to 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	820
height B	1390
depth C	810
internal dims [mm]	
width D	490
width D'	520
height E	770
depth F	530
depth F'	550

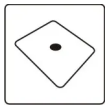
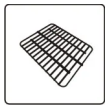
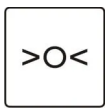
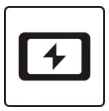


shelves (standard | max)	2 | 4
max shelf workload [kg] /2/	10
- reinforced shelf version (PW) [kg] /3/	50
max unit workload [kg]	65
- reinforced unit version (W) [kg] /4/	130
weight [kg]	120

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

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: 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: BPP 12	Battery backup for display

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Order number: PORT ALARM

Dry alarm contact