Richmond Scientific

Data sheet

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Laboratory Freezer

ZLN 85 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

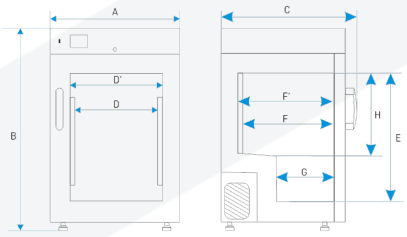


Smart - preview screen

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TECHNICAL DATA	
air convection	natural
chamber capacity [l]	85
working capacity [l]	82
controller	microprocessor PID
display	4,3" full colour touch screen
insulation type	polyurethane foam
TEMPERATURE	
temperature range [°C]	-25...0
temperature resolution every ... [°C]	0,1
temperature fluctuation at -20°C [+/-°C]*	0,5
temperature variation at -20°C [+/-°C]*	2
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	610
height B	920
depth C	650
internal dims [mm]	
width D	410
width D'	420
height E	590
depth F	400
depth F'	440
depth G	270
height H	380

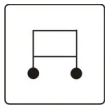
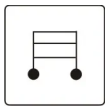
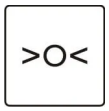


shelves (standard | max)	2 | 4
max shelf workload [kg] /2/	10
max unit workload [kg]	30
weight [kg]	62

ELECTRICAL PARAMETERS	
voltage	230V 50/60Hz
nominal power [W]	200
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: */P INOX	Stainless steel wire shelf INOX
	Order number: */PP	Perforated shelf
	Order number: KUW GN*/*	Stainless steel cuvettes
	Order number: QLK*	Castors
	Order number: */S or */S INOX	Table with castors
	Order number: */ST or */S INOX	Base on castors
	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

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Order number: BPP 12	Battery backup for display
Order number: PORT ALARM	Dry alarm contact

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