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POL-EKO A.Polok-Kowalska sp.k.
 44-300 Wodzisław Śląski
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Data sheet

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 $% \left(1\right) =\left(1\right) \left(1\right$
- event registry
- user manual for direct download
- Quick change of program parameters
- Alarm Bar
- operating with gloves on



Smart - preview screen





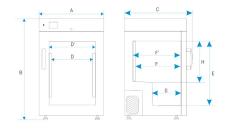
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air convection natural chamber capacity [I] 85 working capacity [I] 73 controller microprocessor PID display 4,3° full colour touch screen insulation type polyurethane foam TEMPERATURE temperature range [°C] 250 temperature resolution every [°C] 0,1 temperature fluctuation at -20°C [+/-°C]* 2,0 temperature variation at -20°C [+/-°C]* 2,0 temperature protection class 3.2 to DIN 12880 (option) CHAMBER door type solid interior C Smart stainless steel to DIN 1.4016 CS Smart acid-proof stainless steel to DIN 1.4301 P Smart power of the stainless steel to DIN 1.4301 P Smart power of the stainless steel to DIN 1.4301 P Smart power of the stainless steel to DIN 1.4301 P Smart power of the stainless steel to DIN 1.4301 P Smart power of the stainless steel to DIN 1.4301 P Smart power of the stainless steel to DIN 1.4301 P Smart power of the stainless steel to DIN 1.4301 P Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301 P S Smart power of the stainless steel to DIN 1.4301	TECHNICAL DATA	
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controller microprocessor PID display 4,3" full colour touch screen insulation type polyurethane foam TEMPERATURE temperature range [°C] -250 temperature resolution every [°C] 0,1 temperature fluctuation at -20°C [+/-°C]* 0,5 temperature variation at -20°C [+/-°C]* 2,0 temperature variation at -20°C [+/-°C]* 2,0 temperature protection class 3.2 to DIN 12880 (option) CHAMBER door type solid interior C Smart stainless steel to DIN 1.4016 CS Smart acid-proof stainless steel to DIN 1.4301 pS Smart acid-proof stainless steel to DIN 1.4301 housing C Smart powder coated sheet CS Smart powder coated sheet CS Smart powder coated sheet	chamber capacity [I]	85
display 4,3" full colour touch screen insulation type polyurethane foam TEMPERATURE temperature range [°C] -250 temperature resolution every [°C] 0,1 temperature fluctuation at -20°C [+/-°C]* 0,5 temperature variation at -20°C [+/-°C]* 2,0 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 acid-proof stainless steel to DIN 1.4301 PS Smart acid-proof stainless steel to DIN 1.4301 housing C Smart powder coated sheet CS Smart powder coated sheet CS Smart powder coated sheet CS Smart powder coated sheet	working capacity [I]	73
insulation type polyurethane foam TEMPERATURE temperature range [°C] -250 temperature resolution every [°C] 0.1 temperature fluctuation at -20°C [+/-°C]* 0.5 temperature variation at -20°C [+/-°C]* 2.0 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 acid-proof stainless steel to DIN 1.4301 PS Smart acid-proof stainless steel to DIN 1.4301 Nousing C Smart powder coated sheet CS Smart powder coated sheet CS Smart powder coated sheet CS Smart powder coated sheet	controller	microprocessor PID
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temperature variation at -20°C [+/-°C]* 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 acid-proof stainless steel to DIN 1.4301 PS Smart bousing C Smart powder coated sheet CS Smart powder coated sheet	temperature resolution every [°C]	0,1
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 acid-proof stainless steel to DIN 1.4301 PS Smart bousing C Smart powder coated sheet CS Smart powder coated sheet CS Smart powder coated sheet CS Smart powder coated sheet	temperature fluctuation at -20°C [+/-°C]*	0,5
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CS Smart stainless steel polished P Smart powder coated sheet	housing	
P Smart powder coated sheet	C Smart	powder coated sheet
P	CS Smart	stainless steel polished
PS Smart stainless steel polished	P Smart	powder coated sheet
	PS Smart	stainless steel polished

overall	dims	[mm]/1	1
overall	ulliis	fillilli] / T	-/

width A	620
height B	930
depth C	650
internal dims [mm]	
width D	380
width D'	420
height E	590
depth F	400
depth F'	440
depth G	230
height H	380



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





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ELECTRICAL PARAMETERS		
voltage**	230V 50-60Hz	
nominal power [W]	200	
refrigerant	R290 / GWP=36	
warranty	24 months	

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

st - 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

INOX	Order number: */P INOX	Stainless steel wire shelf INOX
	Order number: */PP	Perforated shelf
	Order number: KUW GN*/*	Stainless steel cuvettes
a	Order number: QLK*	Castors
	Order number: */S or */S INOX	Table with castors
	Order number: */ST or */S INOX	Base on castors
- NI//=	Order number: OWW/OWW LED	Interior lighting
LAB DESK	Order numberLabDesk	LabDesk software
>0<	Order number: BRT/*/L or IQ/OQ/PQ	Calibration and IQ, OQ, PQ qualification
DIN 3.2	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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ALARM 🔲 🗖

Order number: PORT ALARM Dry alarm contact

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Order number: KD Access control

