



POL-EKO
Perfect Environment

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Data sheet



Crucial Temperature Solutions

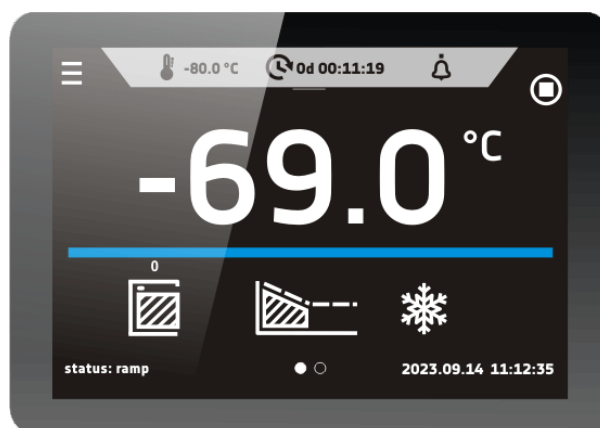
Ultra-Low Freezer ZLN-UT 300 VIP Smart



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



TECHNICAL DATA

air convection	natural
chamber capacity [l]	345
number of boxes 133x133x50mm (option) [pcs]	256
controller	microprocessor PID
display	4,3" full colour touch screen
insulation type	vacuum - VIP panels

TEMPERATURE

temperature range [°C]	-86...-50
temperature resolution every ... [°C]	0,1
cooling time from +20°C to -80°C [min]	180
heating time in case of power failure -80°C to -60°C [min]	90
temperature fluctuation at -80°C [±/°C]*	1,4
temperature variation at -80°C [±/°C]*	3,0

CHAMBER

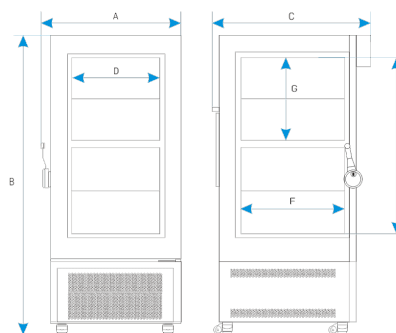
door type	solid
interior	
C Smart	stainless steel to DIN 1.4016
P Smart	acid-proof stainless steel to DIN 1.4301
housing	
C Smart	powder coated sheet
P Smart	powder coated sheet

overall dims [mm] /1/

width A	880
height B	1620
depth C	960

internal dims [mm]

width D	620
height E	1000
depth F	580
height G	480



shelves (standard max)	2/2
max shelf workload [kg] /2/	10
number of internal chambers	2
max unit workload [kg]	65
weight [kg]	220



ELECTRICAL PARAMETERS

voltage**	230V 50-60Hz
nominal power [W]	2100
refrigerant	R290 / GWP=3 R170 / GWP=6
warranty	24 months
manufacturer	POL-EKO

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






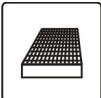

* - fluctuation measured in centre of the chamber; in space, variation (K) calculated for chamber as:

$K = \pm (T_{\text{average max.}} - T_{\text{average min.}}) / 2$

** - other power supplies on request

1 - depth doesn't include 50 mm of power cable, the width does not include the 20 mm of rubber plug

OPTIONS AND ACCESSORIES

	Order number: LabDesk	LabDesk software
	Order number: PORT ALARM	Dry alarm contact
	Order number: LANK	LAN cable
	Order number: KD	Access control
	Order number: ZLN-UT/CO2	CO ₂ back up system
	Order number: ZLN-UT/STP12 / 16	Boxes for samples
	Order number: ZLN-UT/ST12 / 16	Rack with drawers