



POL-EKO
Perfect Environment

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Data sheet

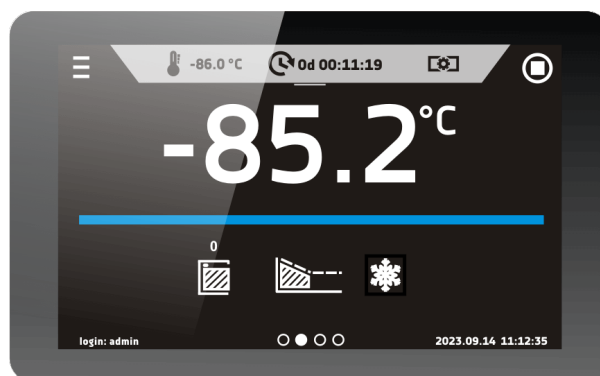
Ultra-Low Freezer ZLN-UT 300 VIP Smart PRO



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



TECHNICAL DATA

air convection	natural
chamber capacity [l]	345
number of boxes 133x133x50mm (option) [pcs]	256
controller	microprocessor PID
display	7" full colour touch screen
insulation type	vacuum - VIP panels

TEMPERATURE

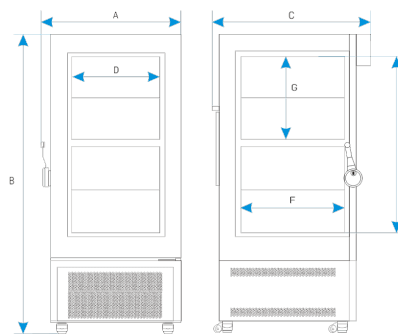
temperature range [°C]	-86...-50
temperature resolution every ... [°C]	0,1
cooling time from +20°C to -80°C [min]	180
heating time in case of power failure -80°C to -60°C [min]	90
temperature fluctuation at -80°C [±/°C]*	1,4
temperature variation at -80°C [±/°C]*	3,0

CHAMBER

door type	solid
interior	
P Smart PRO	acid-proof stainless steel to DIN 1.4301
housing	
P Smart PRO	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

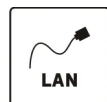
1 - depth doesn't include 50 mm of power cable, the width does not include the 20 mm of rubber plug

OPTIONS AND ACCESSORIES



Order number: PORT ALARM

Dry alarm contact



Order number: LANK

LAN cable



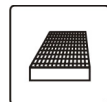
Order number: KD

Access control



Order number: ZLN-UT/CO2

CO₂ back up system



Order number: ZLN-UT/STP12 / 16

Boxes for samples



Order number: ZLN-UT/ST12 / 16

Rack with drawers