ULTRA-LOW FREEZERS ZLN-UT

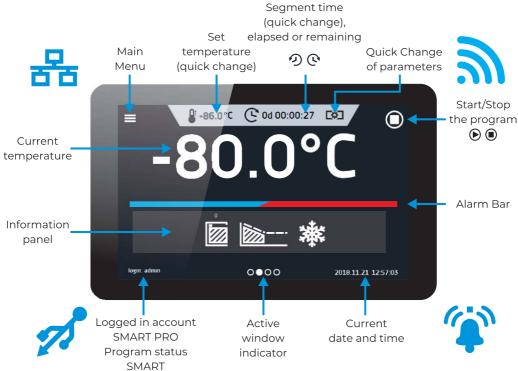




Ultra-low freezers are used for deep freezing of biotechnological samples and other materials which should be stored at very low temperatures.



Smart & Smart PRO controllers 4,3" colour touch panel Smart 7" colour touch panel Smart PRO guarantees intuitive and comfortable operation



Advantages of the controllers:

- large (7"), clear, full colour touch screen Smart PRO
- 4,3", clear, full colour touch screen Smart
- LAN, USB (Smart) ports and WiFi for communication for data transfer
- multi-segment time and temperature programs
- overview of data in tabular and graphic form
- visual and sound alarm
- administrating functions for management (Smart PRO)
- password protected log-in (Smart PRO)
- internal memory for programs and data storage
- operating with gloves on
- event registry with user notifications
- LabDesk software and user manual for direct download
- Alarm Bar quick visual information about device status
- Quick Note user can save messages (50 characters) in Smart PRO controller memory
- Quick Change of parameters: temperature, humidity, time, air flap and fan



Touch screens of the Smart and Smart PRO controllers can be operated with latex gloves!



Ultra-Low freezers ZLN-UT 200 and ZLN-UT 130



Ultra-low freezer ZLN-UT 200 Smart

- temperature range -86 ... -40°C
- 242 liters chamber capacity
- 3 compartments, each (WxHxD) 520 x 240 x 560 mm
 - access port for external sensor for e.g. RT 2014
 - **CO₂** backup system (option)
 - wheels with brake
 - **key** door lock
 - visual and sound alarm
 - **ECO** ecological refrigerant



Ultra-low freezer ZLN-UT 130 VIP Smart

- temperature range -86 ... -40°C
- about 130 liters chamber capacity
- 1 compartment (WxHxD) **620 x 370 x 570 mm**
- access port for external sensor for e.g. **RT 2014**
 - **CO₂** backup system (option)
 - wheels with brake
 - **key** door lock
 - visual and sound alarm
 - thin construction thanks to **VIP** (vaccum insulated panels) insolation
 - **ECO** ecological refrigerant



Ultra-Low freezers ZLN-UT 300 and ZLN-UT 500



Ultra-low freezer ZLN-UT 300 Smart

- temperature range -86 ... -40°C
- **326** liters chamber capacity
- 4 compartments, each (WxHxD) 520 x 240 x 560 mm
- access port for external sensor for e.g. RT 2014
- **CO₂** backup system (option)
- wheels with brake
- key door lock
- visual and sound alarm
- **ECO** ecological refrigerant

ready for



Ultra-low freezer ZLN-UT 500 VIP Smart

- temperature range -86 ... -40°C
 - **447** liters chamber capacity
- 2 compartments with 2 shelves, each (WxHxD) **560 x 670 x 570 mm**
- access port for external sensor for e.g. RT 2014
 - **CO₂** backup system (option)
 - wheels with brake
 - **key** door lock
 - visual and sound alarm
 - thin construction thanks to **VIP** (vaccum insulated panels) insolation
 - **ECO** ecological refrigerant





Racks with drawers and boxes

Racks with drawers and boxes for test-tubes for ultra-low freezers





Racks with drawers ZLN-UT/ST12 and ST16

Sturdy and heavy duty, made of stainless steel; feature quick and easy access to all boxes; 3 or 4 drawers (each for 4 boxes) per rack.

Rack loaded from the side ZLN-UT/R

The rack made of aluminium; It has 4 levels, each can hold 3 boxes.





Boxes for test-tubes

Made of polypropylene or cardboard.

(dimensions: 133x133x50mm; each box suits 81 test-tubesof Ø 12,5mm)

description	model	compartments	rack per compartment	boxes per rack	boxes per compartment	boxes per unit	test-tubes per unit*
rack with drawers	ZLN-UT 200	3	3	16	48	144	11 644
	ZLN-UT 300	4	3	16	48	192	15 552
	ZLN-UT 500	2	8+4	16/12	176	352	28 512
rack loaded from the side	ZLN-UT 200	3	3	12	36	108	8 748
	ZLN-UT 300	4	3	12	36	144	11 664
	ZLN-UT 500	2	8+4	12/16	176	352	28 512

^{*} applies to 12,5 mm diameter test-tubes

Made III I Olaria. Est	ablistica 1990.	ZLN-UT 200	ZLN-UT 300	ZLN-UT 500			
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		_	_				
Parameter							
air convection			natural				
chamber capacity [l]		242	326	447			
number of boxes 133x133x50mm [pcs]		144	192	352			
door type		double, solid					
temperature range [°C]			-8640				
temperature resolution [°C]		every 0,1					
pull-down time from +25°C to -86°C [h]		3,5	3,5	3,5			
warm-up time in case of power failure -80°C to -60°C [h]		1,5	1,5	1,5			
controller		microprocessor PID, 4,3" or 7" full colour touch screen					
interior	C (comfort)		stainless steel to DIN 1.4016				
	CS (comfort/S)	stainless steel to DIN 1.4016					
	P (premium)	acid-proof stainless steel to DIN 1.4301					
	PS (premium/S)	acid-proof stainless steel to DIN 1.4301					
	C (comfort)		powder coated sheet				
have in a	CS (comfort/S)		polished stainless steel				
housing	P (premium)	powder coated sheet					
	PS (premium/S)	polished stainless steel					
overall dims¹ [mm]	A width	880	880	850			
	B height	1630	1930	2010			
	C depth	950	950	950			
internal dims [mm]	D width	520	520	620			
	E height	830	1120	1380			
	F depth	560	560	570			
	G height	240	240	670			
max unit workload [kg]		65	80	80			
max shelf workload [kg]		10	10	10			
nominal power [W]		2100	2100	2100			
energy consumption 24h [kWh] at -80°C		16	18	18			
weight [kg]		180	200	200			
temperature fluctiation at -80°C [+/- °C]		1,5	1,4	1,4			
temperature variation at -80°C [+/- °C]		4	3	3			
power supply			230V 50Hz				
shelves fitted/max		-	-	4/4			
number of internal chambers		3	4	2			
refrigerant		R290 / GWP=3 R170 / GWP=6	R290 / GWP=3 R170 / GWP=6	R290 / GWP=3 R170 / GWP=6			
warranty		24 months					
manufacturer		POL-EKO-APARATURA					

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

^{1 -} depth doesn't include 50 mm of power cable

