

Laboratory freezers

Application

- long-term storage of samples and biological material for research
- storing easily decomposing material (e.g. solid state)
- freeze resistance tests (e.g. of building materials: concrete, wood etc.)
- pre-freezing

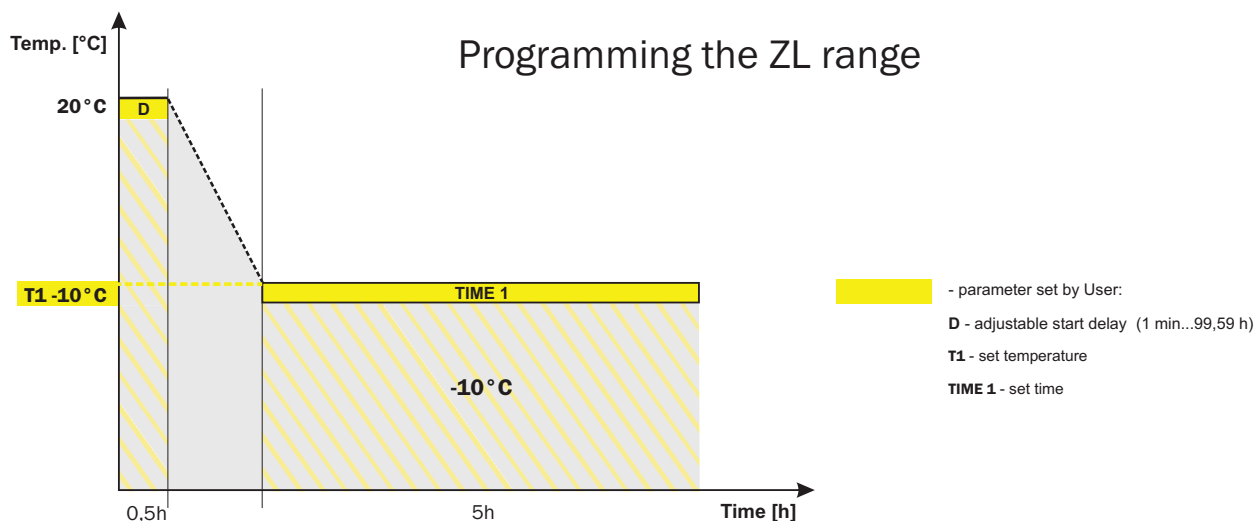


Advantages

- single chamber models
- plastic or stainless steel interior (depending on model)
- housing, depending on model: powder coated sheet, stainless steel linen finish (**INOX/G**) or polished (**INOX/S**)
- two temperature ranges depending on the model:
 - -25...0 °C
 - -35...0 °C
- thermal insulation - polyurethane foam
- cooling system
- natural air convection
- LED time and temperature display
- microprocessor temperature and time control
- temperature sensor fail alarm (see page 56)
- power failure control system (see page 56)
- real time clock
- sound alarm (see page 56)
- defrosting function
- self-check function (auto control)

Program possibilities

- single segment temperature-time profile
- temperature program priority
- adjustable start delay feature (from 1 min to 99,59 h)
- adjustable time of holding the set temperature (from 1 min to 99,59 h), or continuous operating
- overview of set parameters during operating time
- over temperature sound alarm



All POL-EKO-APARATURA products can be provided with IQ, OQ, PQ qualifications (see page 70)



All POL-EKO-APARATURA products can be supplied with a calibration certificate issued by an accredited Measurement Laboratory. Further information is available on pages 69-70 and our website: www.pol-eko.eu

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Stainless steel interior

Stainless steel interior and perforated shelves are standard equipment of ZLN 125, 200, 300.

Standard equipment

- solid door
- RS 232 interface; RS 232 cable must be purchased additionally (RSK)
- glass shelves in models ZLN 75, 145, 180 and perforated shelves in models ZLN 125, 200, 300
- manufacturer's test certificate at -10 °C
- operation manual in English and English menu (other languages on request)







Options and accessories (icon description see page 51)

Laboratory freezers



Available options

- * / **A** - door with viewing window
- * / **W** - reinforced version
- * / **PW** - reinforced shelf
- QLK** / * - wheels

Parameter		Model	ZLN 75	ZLN 145	ZLN 180	ZLN 125	ZLN 200	ZLN 300
								
air convection			natural					
chamber capacity ¹	[l]		85	160	196	127	200	299
	[cu ft]		3,0	5,6	6,9	4,4	7,0	10,5
door type			solid / glass (option)					
temperature range	[°C]		-25...0			-35...0		
	[°F]		-13...+32			-31...+32		
controller			microprocessor with external display					
interior			plastic			stainless steel		
housing			powder coated sheet			powder coated sheet / stainless steel (INOX/G or INOX/S)		
overall dims [mm]	width		560	600	600	580	680	680
	height		850	1250	1455	1150	1320	1680
	depth		610	650	650	720	720	720
internal dims [mm]	width		410	450	450	400	500	500
	height		630	970	1160	600	770	1150
	depth		390	420	420	530	520	520
nominal power [W]			120	96	100	450	450	450
weight [kg]			34	48	55	90	120	185
temperature accuracy [°C]			every 1,0					
temperature fluctuation ² at -10°C [°C]			±0,4	±0,6	±0,7	±0,7	±0,7	±1,0
voltage	50 Hz [V]		220-240	220-240	220-240	110-120/220-240		
	60 Hz [V]		-	-	-			
shelves fitted / max			2/2	4/4	5/5	2/3	2/4	3/6
warranty			24 months					
manufacturer			POL-EKO-APARATURA					

1 - working capacity of chamber can be smaller
 2 - fluctuation measured in centre of the chamber