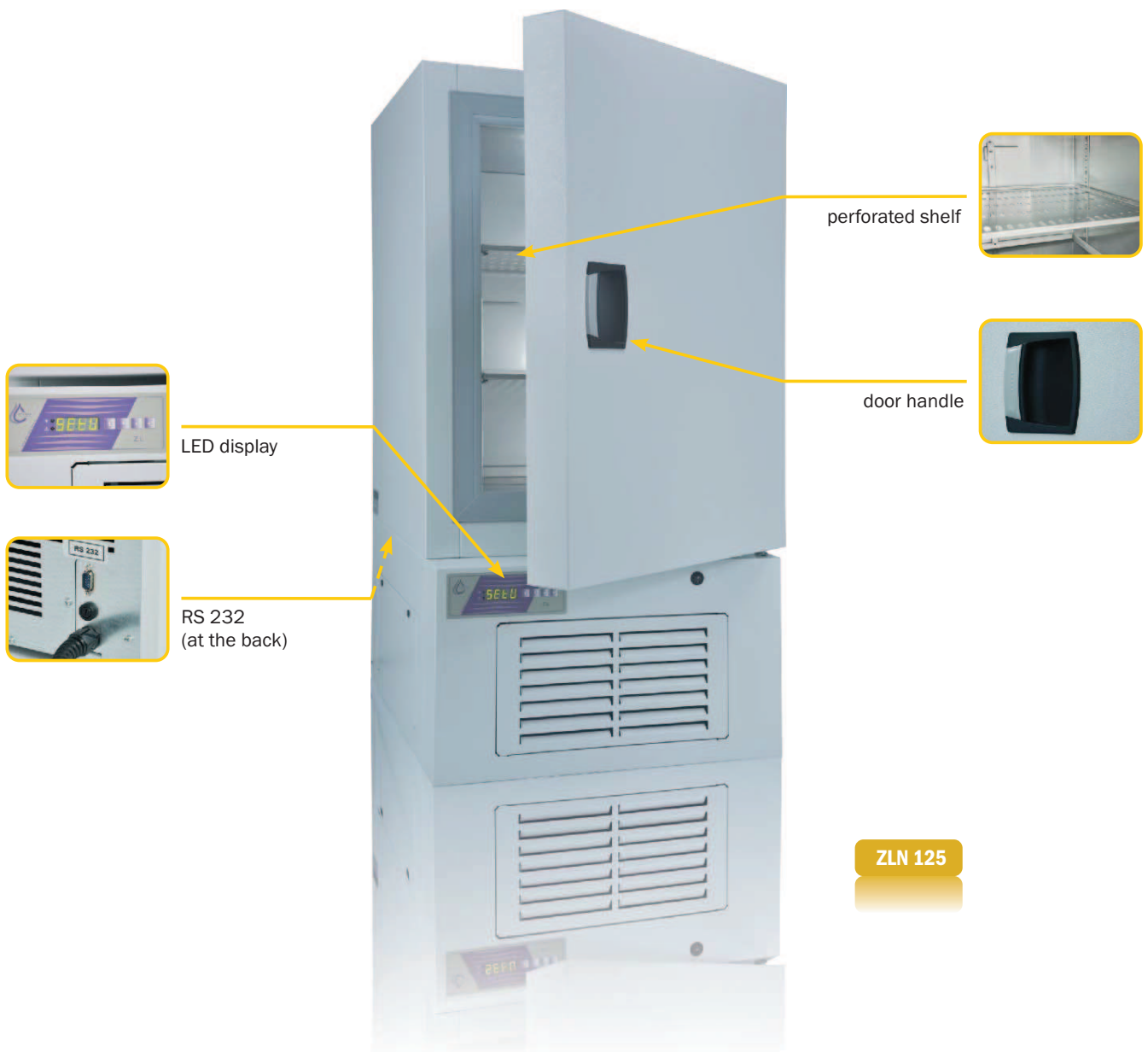


Laboratory freezers

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

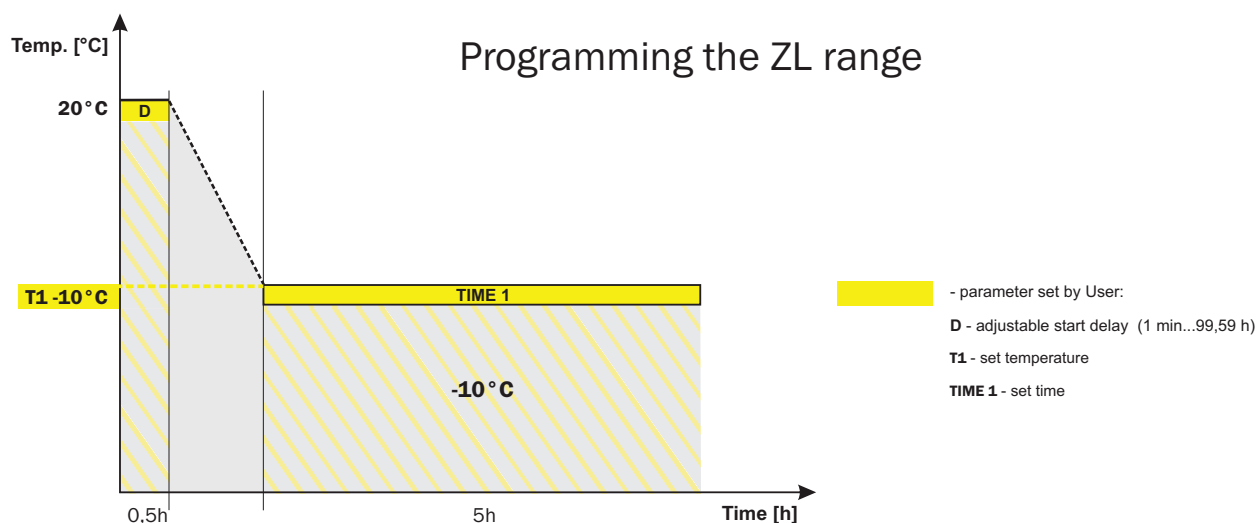


Advantages

- 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

Laboratory freezers



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 accesories (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