Drying ovens

Application

- thermal resistance analysis of building materials, electronic and electro-technical components
- tests of properties of products subjected to high temperatures
- drying of wires of papermaking machines
- drying of laboratory glass
- general aging
- preheating
- digestion of proteins
- plant tissues drying
- drug metabolism
- paper drying

Drying ovens are designed to provide high temperatures up to 300°C.

Calibration

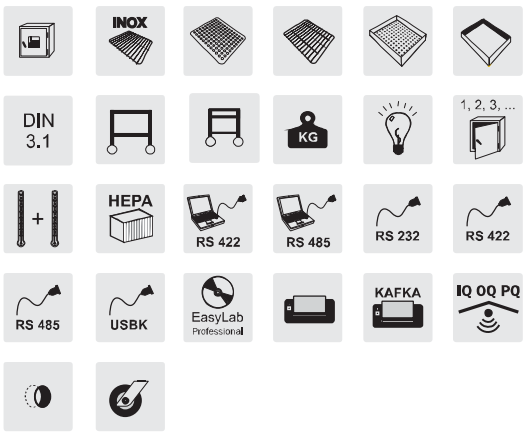
All thermostatic equipment manufactured by POL-EKO-APARATURA can be provided with Calibration Certificate issued by accredited Measurement Laboratory. Detailed information on accreditation is available on website: www.pol-eko.eu.

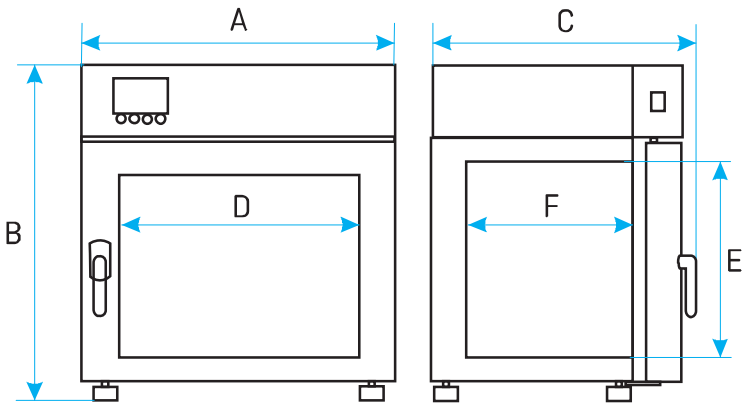
Parameter		SL 15	SL 32	SL 53	SL 75	SL 115	SL 180	SL 240	SL 400	SL 750	SL 1000
air convection		natural (SLN) / forced (SLW)							forced (SLW)		
chamber capacity[1] [l]		15	32	56	76	112	180	245	424	749	1005
door type		solid		solid/door with viewing window (option)							
temperature range		+5°C above ambient temperature ...+300°C									
temperature resolution [°C]		every 0,1									
controller		microprocessor with external LCD graphic display									
interior		acid-proof stainless steel to DIN 1.4301									
housing	-	powder coated sheet									
	INOX/G	stainless steel linen finish									
overall dims[2] [mm]	A width	510	590	590	590	650	650	810	1010	1260	1260
	B height	550	630	700	850	850	1030	1200	1430	1600	2000
	C depth	470	520	620	620	710	820	770	780	870	880
internal dims [mm]	D width	320	400	400	400	460	470	600	800	1040	1040
	E height	230	320	390	530	540	720	800	1040	1200	1610
	F depth	200	250	360	360	450	560	510	510	600	600
max shelf workload[5] [kg]	-	10	10	25	25	25	25	25	25	-	-
	PW[3] version	-	-	50	50	50	50	100	100	100	100
max unit workload [kg]	-	20	30	40	40	60	75	90	120	140	-
	W[4] version	-	-	80	80	120	120	300	300	300	300
nominal power [W]		700	1200	1700	1700	2500	2800	3100	4000	5500	5500
weight[6] [kg]		27	35	50	60	65	94	126	174	260	330
over temperature protection		class 2.0 according to DIN 12880 / class 3.1 (option) / 3.1 in TOP+									
power supply*		230 V 50 Hz							400 3/N		
shelves fitted/max		1/2	1/3	2/5	2/5	2/7	3/9	3/10	3/14	5/16	6/22
warranty		24 months									
manufacturer		POL-EKO-APARATURA									

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

* also available: 230V 60Hz, 115V 60Hz, 3P 230V 60Hz (according to model)
1 - working capacity of chamber can be smaller
2 - depth doesn't include 50 mm of power cable
3 - reinforced shelf
4 - reinforced version
5 - on uniformly loaded surface
6 - for units with solid door without optional equipment

Options and accessories (icon description see pages 78-79)





Drying ovens with nitrogen blow

The European norm ISO 589:2003 Hard Coal - Determination of Total Moisture ensures samples are dried between 105°C - 110°C in a drying oven featuring nitrogen blow possibility with flow equal to about 15x capacity of the oven per hour.

Available models

- SLWN1 - laboratory oven with dry nitrogen blow system of the chamber; the kit includes connections, valves and a laboratory rotameter (which can be calibrated)
- SLWN2 - laboratory oven with dry nitrogen blow system of the chamber; the kit includes connections, valves and a tech rotameter (which cannot be calibrated)

The nitrogen bottle is not supplied.

	SLWN1 15 SLWN2 15	SLWN1 32 SLWN2 32	SLWN1 53 SLWN2 53	SLWN1 115 SLWN2 115	SLWN1 240 SLWN2 240
chamber capacity[1] [l]	15	32	56	112	245

1 - working capacity of chamber can be smaller

For dimensions see page 50 (models SLW 15, 32, 53, 115, 240)

Calibration

- Calibration in air in 9 points (corners + geometrical center) of the chamber at 1 selected by the Customer temperature in accredited laboratory. Calibration is confirmed by 'Calibration certificate'.
- Calibration in nitrogen in 9 points (corners + geometrical center) of the chamber at 1 selected by the Customer temperature in accredited laboratory. Calibration is confirmed by 'Calibration certificate'.
- Calibration of laboratory rotameter in accredited laboratory. Calibration is confirmed by 'Calibration certificate'.