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Cooled incubators

Application

- microbiological tests
- plant growing, microorganisms breeding at precisely controlled environment
- BOD determination
- incubation of samples at specified temperature



Calibration

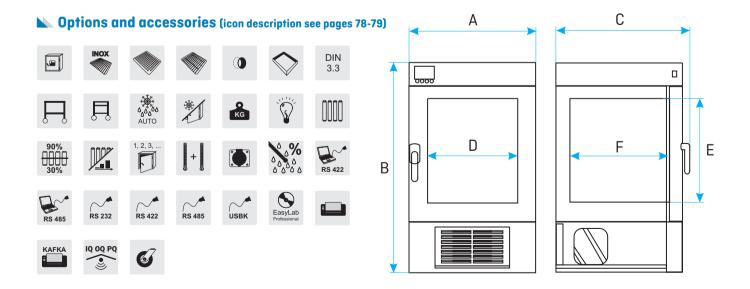


All thermostatic equipment manufactured by POL-EKO-APARATURA can be provided with Calibration Certificate issued by accredited Measurement Laboratory. Detailed information on accreditation is available on website: www.pol-eko.eu.

		ILW 53	ILW 115	ILW 240	ILW 400	ILW 750				
Parameter		-								
air convection		forced								
chamber capacity¹ [I]		56	112	245	424	749				
door type		double/door with viewing window (option)								
temperature range [°C]		-10 (option)/ 0+70 (+100 for TOP+ version)								
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 dims² [mm]	A width	610	660	820	1040	1260				
	B height	960	1100	1430	1680	1910				
	C depth	630	720	780	780	880				
internal dims [mm]	D width	400	460	600	800	1040				
	E height	390	540	800	1040	1200				
	F depth	360	450	510	510	600				
max shelf workload ⁵ [kg]	-	25	25	25	25	-				
	PW ³ version	50	50	100	100	100				
max unit workload [kg]	-	40	60	90	120	140				
	W⁴version	80	120	300	300	300				
nominal power [W]		450	450	900	1300	1900				
weight [©] [kg]		69	90	140	185	275				
over temperature protection		class 2.0 according to DIN 12880 / class 3.3 (option) / 3.3 in TOP+								
power supply*		230 V 50 Hz								
shelves fitted		2/5	2/7	3/10	3/14	5/16				
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
- 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 double door without optional equipment





Innovative and ecological ILP Peltier-cooled incubators

Advantages of Peltier-cooled incubators





Quiet operation

The noise generated by the unit has been limited significantly to create more comfortable working conditions in the laboratory.



Environmentally friendly

Elimination of compressor and refrigerants ensures environmental protection.



Lighter and smaller

The Peltier-element system has reduced the size and weight of the unit.



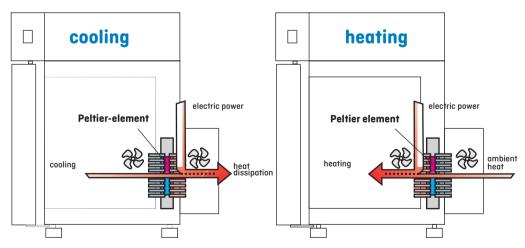
Vibration-free

With the introduction of the Peltier-element system, vibrations previously generated by the compressor have been eliminated.



Perfect performance

The cooling system based on the Peltier-element features excellent temperature stability and uniformity. It also improves the temperature recovery time (e.g. after door opening).







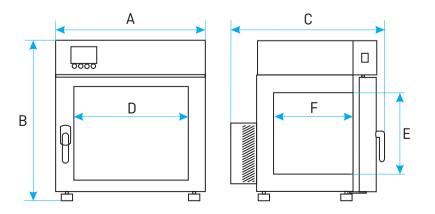
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		ILP 53	ILP 115					
Parameter			-					
air convection		ford	forced					
chamber capacity [I]		56	112					
door type		double / door with viewing window (option)						
temperature range [°C]		0+70 (max 20°C belov	0+70 (max 20°C below ambient temperature)					
temperature resolution [°C]		ever	y 0,1					
controller		microprocessor with external LCD graphic display						
interior		acid-proof stainless	steel to DIN 1.4301					
hausing	-	powder coated sheet						
housing	INOX/G	stainless steel linen finish						
	A width	590	650					
overall dims[mm]	B height	710	850					
	C depth	690	780					
	D width	400	460					
internal dims [mm]	E height	390	540					
	F depth	360	450					
max shelf workload¹[kg]		25	25					
max unit workload [kg]		50	50					
nominal power [W]		500	600					
weight[kg]		69	90					
over temperature protection		class 2.0 to DIN 12880 / class 3.3 (option) / class 3.3 in TOP+						
power supply*		230 V 50 Hz						
shelves fitted/max		2/5	2/7					
warranty		24 months						
manufacturer		POL-EKO-A	PARATURA					

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

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





^{*} also available: 230V 60Hz, 115V 60Hz

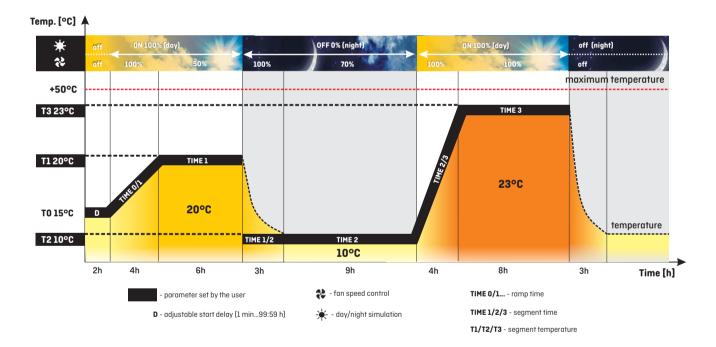
^{1 -} on uniformly loaded surface

Cooled incubators (ILW) with photoperiodic system

The photoperiodic (FOT) and phytotron (FIT) systems allow day and night simulation. While the FOT option enables turning the light on and off in a program, the FIT option can additionally control the light intensity. The photoperiodic system is designed for cooled incubators in the STD version and the phytotron system for the TOP+ version.

▶ Program possibilities with FOT option

- day and night simulation software to control light (on/off), time and temperature separately for each segment
- temperature range for "night": -10°C up to +60°C (with IL/T option)
- temperature range for "day": +10°C up to +50°C
- lamps installed in the door or ceiling
- fluorescent lamp 840 type (daylight) used as standard
- operating with time priority (see page 80)
- automatic defrosting function included



► Photoperiodic system (*/FOT option) for cooled incubators (ILW)**

	IL/F0T2S	IL/F0T3S	IL/F0T5D	IL/FOT6D	IL/FOT8D	IL/FOT10D		
available for models	ILW 53 ILW 115 ILW 53		ILW 53	ILW 115 ILW 240	ILW 240 ILW 400 ILW 750	ILW 750		
temperature range with photoperiod [°C]	+10 +50°C							
number of lamps in door	-	-	5	6	8	10		
number of lamps in ceiling	2	3	-	-	-	-		
adjustable illumination intensity	no							

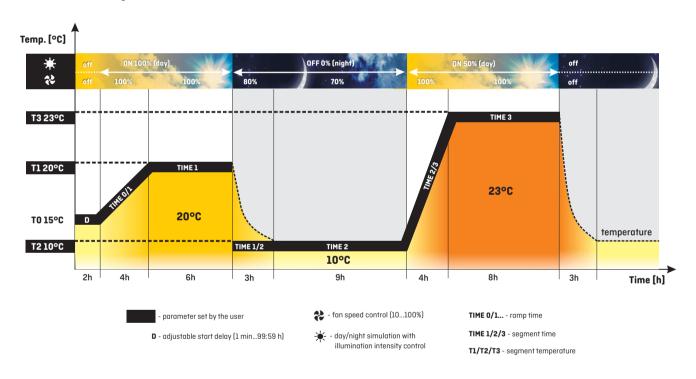
^{**} FOT option is factory preinstalled. There is no possibility to order it separately.

Cooled incubators (ILW) with phytotron system

The TOP+ version of cooled incubators (models ILW 115, 240, 400, 750) can be equipped with the FIT system.

▶ Program possibilities with FIT option

- day and night simulation software to control light intensity [%], time, temperature and fan speed separately for each segment
- temperature range for "night": -10°C up to +60°C (with IL/T option)
- temperature range for "day": +10°C up to +50°C
- lamps installed in over-shelf panels (FIT P) or in the door (FIT D)
- fluorescent lamp 840 type (daylight) used as standard
- operating with temperature or time priority (see page 80)
- automatic defrosting function included





▶ Phytotron system (*/FIT option) for cooled incubators (ILW) in TOP+ version.

	IL/115/FIT P	:	IL/240/FIT F	• :	IL/400/FIT	P :	IL/750/FIT P	
temperature range with phytotron ON [°C]	+10 +50°C							
number of over-shelf panels with illumination std/max	1/1		1/2		1/2		1/3	
adjustable illumination intensity	yes							