

Cooled incubators are perfect for incubation of samples in a stable environment, regardless of ambient conditions, at temperatures from -10 up to +100°C



ILW IG Smart PRO cooled incubator

■ STANDARD FEATURES

- temperature range -10°C (option) / 0°C...+70°C (+100°C in Smart PRO)
- English instruction manual
- temperature protection class 2.0 (Smart) and 3.3 (Smart PRO) to DIN 12880
- open door alarm
- castors in standard for models ILW 240, 400, 750, 1000
- LAN and USB ports
- access port (Ø30 mm) on the left wall
- door lock
- stainless steel wire shelves (INOX)
- double door (external solid, internal glass)

■ AVAILABLE VERSIONS

- Smart
- Smart PRO
- FOT photoperiod (see page 44)
- FIT phytotron (see page 45)
- reinforced

■ SOFTWARE

- LabDesk for data download to a PC via LAN or Wi-Fi (optional for Smart version)






■ EXTRA FOR SMART PRO

- Wi-Fi
- LAN cable
- LabDesk

Application

- microbiological tests
- plant growing, microorganisms breeding at precisely controlled environment
- incubation of samples under certain temperature conditions
- incubation of samples for BOD determinations



		ILW 53	ILW 115	ILW 240	ILW 400	ILW 750
						
Parameter						
air convection		forced				
chamber capacity [l]		56	112	245	424	749
door type		double ¹ / door with viewing window (option)				
temperature range [°C]		-10 (option) / 0...+70 (+100 in Smart PRO version)				
temperature resolution [°C]		every 0,1				
controller		microprocessor PID, 4,3" (Smart) / 7" (Smart PRO) full colour touch screen				
interior		acid-proof stainless steel to DIN 1.4301				
housing	-	powder coated sheet				
	IG	stainless steel linen finish				
overall dims ² [mm]	A width	590	660	820	1020	1260
	B height	1000	1140	1430	1730	1910
	C depth	630	720	780	780	890
internal dims [mm]	D width	400	460	600	800	1040
	E height	390	540	800	1040	1200
	F depth	350	450	510	510	600
max shelf workload ³ [kg]	-	25	25	25	25	-
	PW ⁴ version	50	50	100	100	100
max unit workload [kg]	-	40	60	90	120	140
	W ⁵ version	80	120	300	300	300
nominal power [W]		450	500	900	1300	1900
weight [kg]		69	90	140	185	256
temperature fluctuation* at +37°C [±/- °C]		0,2	0,2	0,2	0,2	0,2
temperature variation* at +37°C [±/- °C]		0,3	0,3	0,3	0,3	0,3
temperature protection		class 2.0 to DIN 12880 / class 3.3 (option) / class 3.3 in Smart PRO				
power supply**		230V 50-60Hz				
shelves fitted/max		2/5	2/7	3/10	3/14	5/16
refrigerant		1234ze / GWP=1		R290 / GWP=3		
warranty		24 months				

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

* - fluctuation measured in centre of chamber; in space, variation (K) calculated for chamber as: $K = \pm (T_{avg\ max} - T_{avg\ min}) / 2$

** - other power supplies on request

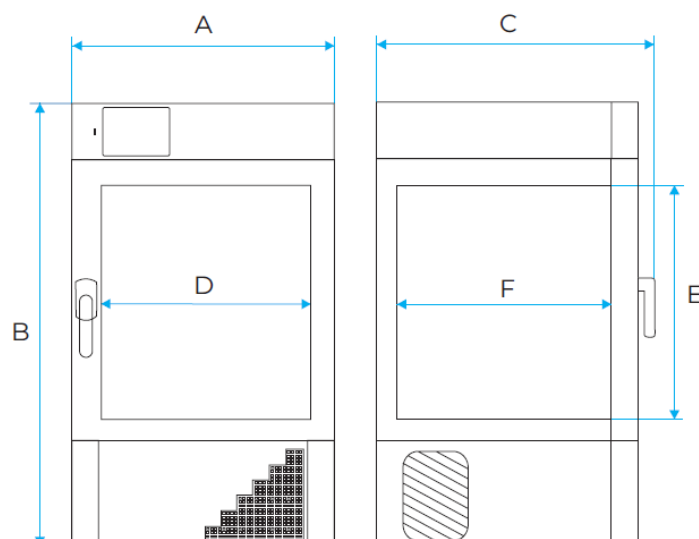
1 - internal glass door, external solid

2 - depth doesn't include 50 mm of power cable

3 - reinforced shelf

4 - reinforced version

5 - on uniformly loaded surface



■ ADVANTAGES OF PELTIER-COOLED INCUBATORS



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.



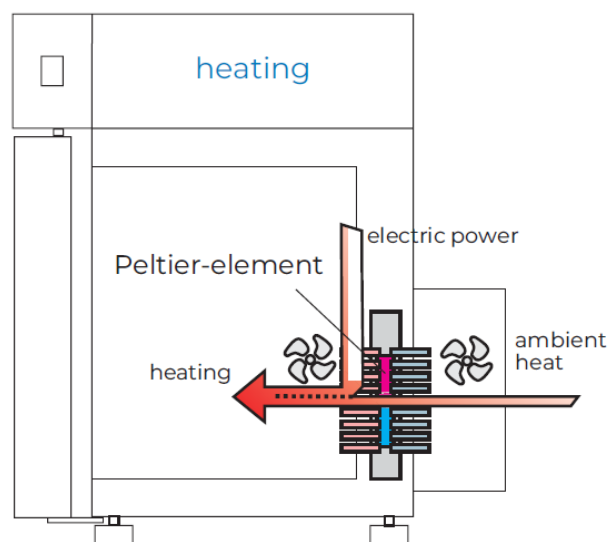
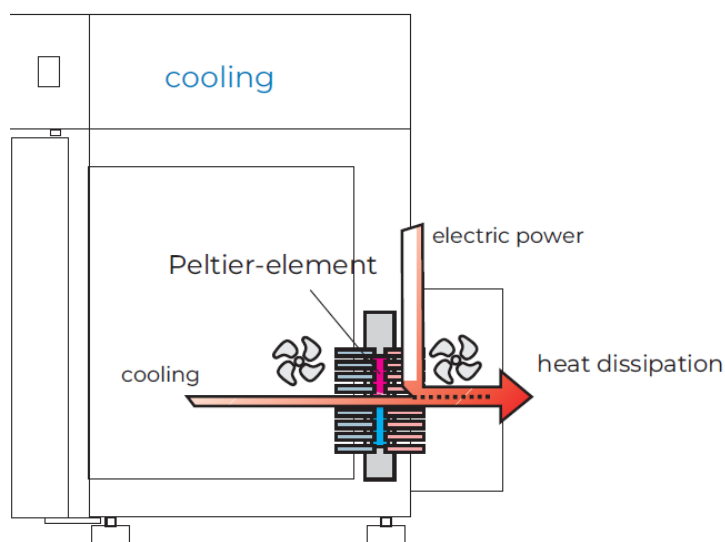
Vibration-free

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).



■ STANDARD FEATURES

- temperature range 0...+70°C
- English instruction manual
- temperature protection class 2.0 (Smart) and 3.3. (Smart PRO) to DIN 1288
- open door alarm
- castors in standard for ILP 750 model
- LAN and USB ports
- access port (Ø30 mm) on the left wall
- door lock
- stainless steel wire shelves (INOX)
- double door (external solid, internal glass)

■ EXTRA FOR SMART PRO





- Wi-Fi
- LAN cable
- LabDesk

■ AVAILABLE VERSIONS

- Smart
- Smart PRO

■ SOFTWARE

- LabDesk for data download to a PC via LAN or Wi-Fi (optional for Smart version)

		ILP 53	ILP 115	ILP 240	ILP 750
Parameter					
air convection		forced			
chamber capacity [l]		56	112	245	749
door type		double ¹ / door with viewing window (option)			
temperature range [°C]		0...+70 (max 20°C below ambient temperature)			
temperature resolution [°C]		every 0,1			
controller		microprocessor PID, 4,3" (Smart) / 7" (Smart PRO) full colour touch screen			
interior		acid-proof stainless steel to DIN 1.4301			
housing	-	powder coated sheet			
	IG	stainless steel linen finish			
overall dims ² [mm]	A width	590	650	820	1260
	B height	710	850	1140	1580
	C depth	690	780	840	1040
internal dims [mm]	D width	400	460	600	1040
	E height	390	540	800	1200
	F depth	360	450	510	600
max shelf workload ³ [kg]		25	25	25	-
max reinforced shelf workload (PW) ³ [kg]		-	-	-	100
max unit workload [kg]		50	50	90	140
nominal power [W]		500	600	800	1400
weight [kg]		69	90	140	240
temperature fluctuation* at +37°C [± °C]		0,1	0,1	0,1	0,1
temperature variation* at +37°C [± °C]		0,2	0,2	0,3	0,3
temperature protection		class 2.0 to DIN 12880 / class 3.3 (option) / 3.3 in Smart PRO			
power supply**		230V 50-60Hz			
shelves fitted/max		2 / 5	2 / 7	3 / 10	5 / 16
warranty		24 months			

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

* - fluctuation measured in centre of chamber; in space, variation (K) calculated for chamber as: $K = \pm (T_{avg\ max} - T_{avg\ min}) / 2$

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