

# 05

# CO<sub>2</sub> INCUBATORS



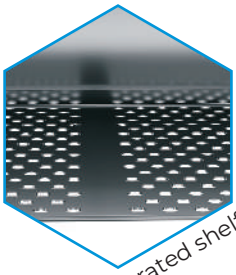
CO<sub>2</sub> Incubators ILC

# CO<sub>2</sub> INCUBATORS

offers optimum growth conditions for cell cultures. Very precise temperature control, optimal humidity and CO<sub>2</sub> concentration are undeniable advantages of this product

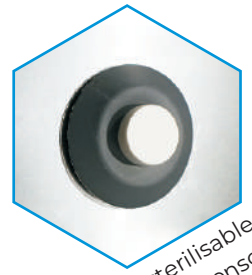


smooth rounded corners

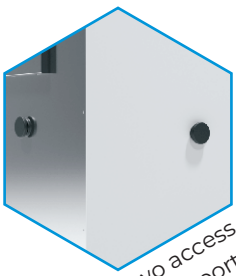


perforated shelf

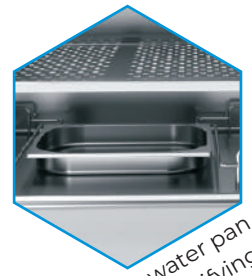
CO<sub>2</sub> Incubator ILC 180 SMART PRO



sterilisable IR CO<sub>2</sub> sensor



two access ports



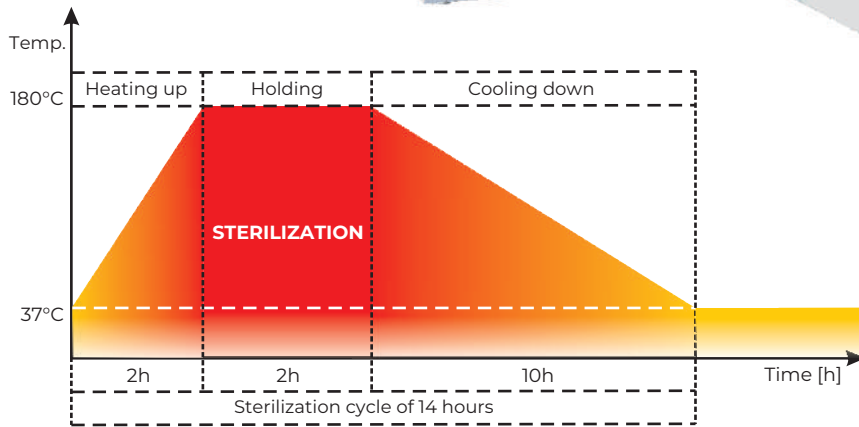
water pan (passive humidifying)



stacking adaptor (option)



All thermostatic equipment manufactured by POL-EKO® can be provided with Calibration Certificate issued by accredited Measurement Laboratory. Detailed information on accreditation is available on website: [www.polekolab.pl](http://www.polekolab.pl) and on page 161.



### MAIN STANDARD BENEFITS

- temperature range: +5°C above ambient temp...+50°C
- quality control certificate (at +37°C, 5% CO<sub>2</sub>)
- English instruction manual
- temperature protection class 3.1 to DIN 12880
- open door alarm
- LAN and USB ports
- height adjustable feet
- two access ports (Ø30 mm) on the left wall and on the rear, both secured with silicone plugs
- water pan to provide optimal humidity (passive humidifying)
- door lock
- perforated shelves and rack for them to optimal shelf positioning
- silicone gaskets
- magnetic handle for ergonomic internal door opening
- CO<sub>2</sub> gas-mixing jet with Venturi effect to ensure quicker atmosphere mixing and more homogeneous distribution
- multiple temperature sensors for accurate measurement
- main power switch flush with housing prevents unintentional switch off
- Wi-Fi
- LAN cable

### CONTAMINATION PROTECTION

- hot-air sterilization at 180°C for 2 hours
- fanless construction
- smooth, easy to clean stainless steel interior with rounded corners
- sterilizable, drift-free infrared CO<sub>2</sub> sensor
- inner glass door for sample viewing without changing the conditions in the chamber
- no hidden spaces

### SOFTWARE

- LabDesk for data download to a PC via LAN or Wi-Fi
- LabDesk Cloud platform for remote data monitoring



**TECHNICAL DATA**


parametrs	ILC 180	ILC 260
air convection	natural (fanless)	
chamber capacity <sup>1</sup> [l]	182	262
working capacity <sup>1</sup> [l]	135	205
door type	double (external solid, internal glass)	
temperature range [°C]	+5°C above ambient temperature...+50	
temperature resolution [°C]	every 0,1	
humidity range [% rH]	90-95	
CO <sub>2</sub> range[%]	0-20	
CO <sub>2</sub> resolution [%]	every 0,1	
CO <sub>2</sub> measurement	IR	
controller	microprocessor with a large 7" full-colour touch screen	
interior	acid-proof stainless steel to DIN 1.4301	
housing	powder coated sheet	
maximum drawer load [kg]	10	30
max unit workload [kg]	30	50
nominal power [W]	1700	1700
weight [kg]	96	118
temperature fluctuation <sup>2</sup> at 37°C [°C]	< ± 0,1	< ± 0,1
temperature variation <sup>2</sup> at 37°C [°C]	< ± 0,3	± 0,4
time required to achieve 37°C of the load, at set 37°C (40% load) [min]	6	5
time required to achieve 37°C of the load, at set 37°C (70% load [min])	10	10
energy consumption at 37°C [Wh/h]	66	97
temperature protection	class 3.1 to DIN 12880	
power supply	230V 50-60Hz / 115V 50-60Hz	
sound levels [db(A)]	42	44
shelves (fitted/max)	3/6	3/8
warranty	24 months	
manufacturer	POL-EKO®	

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

1 - doesn't include rack for shelves space

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

**OPTIONS & ACCESSORIES** (icon description see pages 117-124)

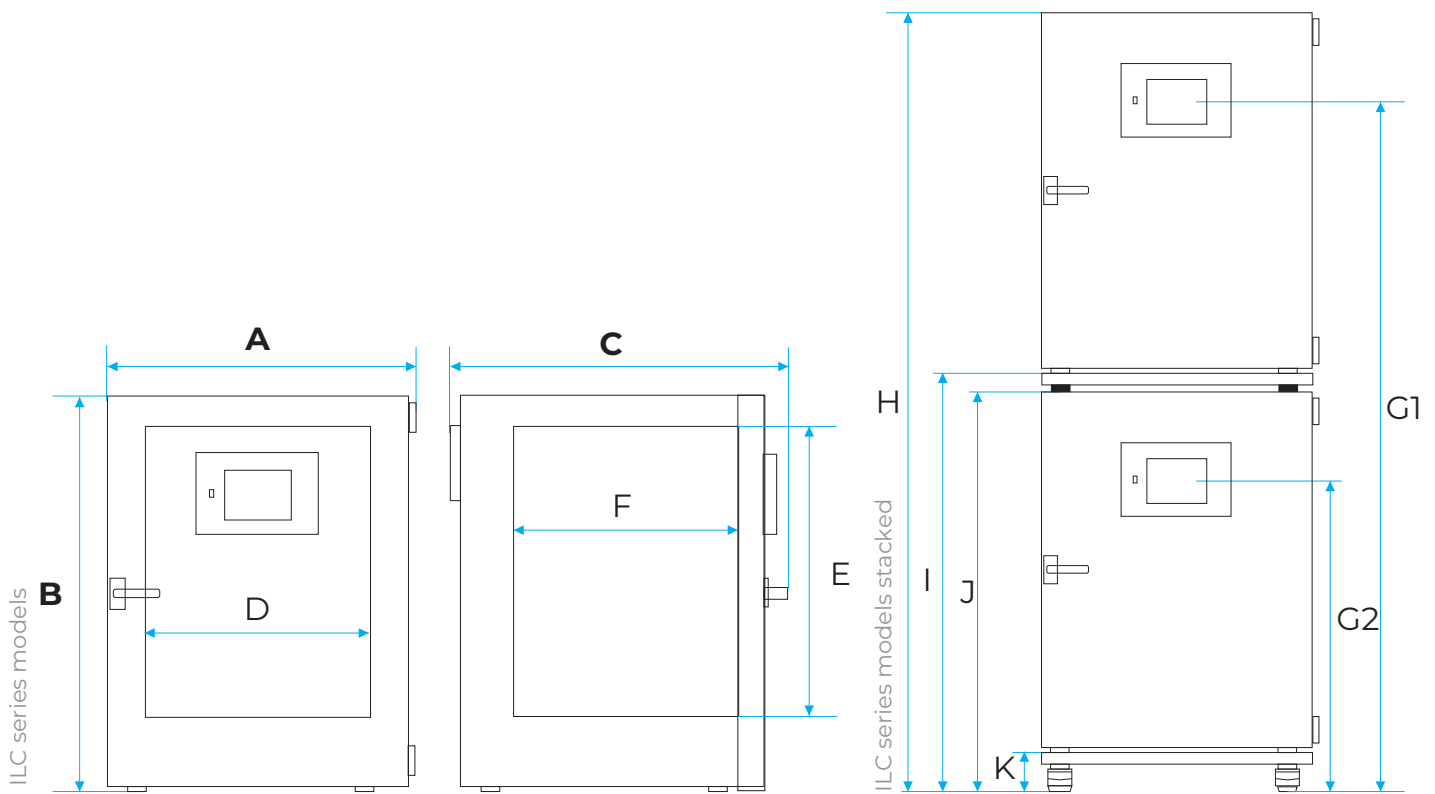

## DIMENSIONS & DATA

All dimensions refer to standard units (without optional accessories).

Overall depth doesn't include 50 mm of power cable, the width does not include the 20 mm of access port's silicone plug.

Possibility to change the position of shelf:

- ILC 180 - every 87mm
- ILC 260 - every 84 mm



		ILC 180	ILC 260
overall dims [mm]	A width	710	750
	B height	920	1070
	C depth	790	840
internal dims [mm]	D width	560	600
	E height	650	800
	F depth	500	550
stacked dims [mm]	G1 height	1710	2070
	G2 height	800	950
	H height	1930	2290
	I height	1030	1240
	J height	1020	1170
	K height	105	105