

Laboratory incubators are perfect for incubation of samples at temperatures above ambient up to +100°C



CLN 180 IG Smart PRO laboratory incubator

STANDARD FEATURES

- temperature range 5°C above ambient temperature...+100°C
- quality control protocol (at +37°C)
- 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 CL 400, 750, 1000
- Ø40 mm air-flap for CL 15-180 and Ø60 mm for CL 240-1000
- LAN and USB ports
- access port: Ø30 mm for models 53-1000 or Ø9 mm for models 15, 32 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
- reinforced

SOFTWARE

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

Application

- incubation of samples for microbiological determinations
- analysis of thermal resistance of samples subjected to higher temperatures
- antibodies tests
- bacteria tests
- crystallization observations
- cultivation of thermophilic microorganisms
- pharma stability tests
- food industry denaturalizing tests



		CL 15	CL 32	CL 53	CL 115	CL 180	CL 240	CL 400	CL 750	CL 1000
Parameter										
air convection		natural (CLN) / forced (CLW)						forced (CLW)		
chamber capacity [l]		15	32	56	112	180	245	424	749	1005
door type		double ¹		double ¹ / door with viewing window (option)						
temperature range		+5°C above ambient temperature ...+100°C								
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	510	590	590	660	660	820	1020	1260	1260
	B height	550	630	710	850	1040	1140	1430	1600	2000
	C depth	470	520	620	710	820	770	770	880	880
internal dims [mm]	D width	320	400	400	460	470	600	800	1040	1040
	E height	230	320	390	540	720	800	1040	1200	1610
	F depth	200	250	360	450	560	510	510	600	600
max shelf workload ⁵ [kg]	-	10	10	25	25	25	25	25	-	-
	PW ³ version	-	-	50	50	50	100	100	100	100
max unit workload [kg]	-	20	30	40	60	75	90	120	140	-
	W ⁴ version	-	-	80	120	120	300	300	300	300
nominal power [W]		350	350	450	450	650	850	1300	1900	1900
weight [kg]		32	35	50	65	92	118	170	260	319
temperature fluctuation* at +37°C [±/- °C]	CLN	0,2	0,2	0,2	0,2	0,2	0,3	-	-	-
	CLW	0,2	0,2	0,1	0,1	0,1	0,1	0,1	0,1	0,2
temperature variation* at +37°C [±/- °C]	CLN	0,7	0,7	0,7	0,8	0,8	0,8	-	-	-
	CLW	0,4	0,4	0,3	0,3	0,3	0,3	0,5	0,5	1,0
over temperature protection		class 2.0 to DIN 12880 / class 3.1 (option) / class 3.1 in Smart PRO								
power supply**		230V 50-60Hz								
shelves fitted/max		1/2	1/3	3/9	2/7	3/9	3/10	3/14	5/16	6/22
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, external solid

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

3 - reinforced shelf

4 - reinforced version

5 - on uniformly loaded surface

