

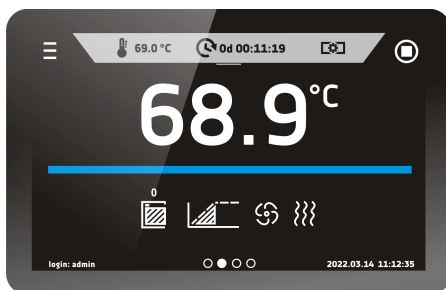
Incubator

CLW 53 IG SMART PRO NA

Compact 56 L laboratory incubator with forced air convection, precise PID temperature control and a 7" touchscreen. Designed for reliable incubation ambient +5 °C to 100 °C , ideal for routine laboratory applications requiring stability and ease of use.

Key features:

- Chamber volume: 56 L (2.0 cu ft)
- Temperature range: ambient +5 °C to 100 °C (ambient +41 °F to 212 °F)
- Temperature resolution: 0.1 °C
- Air convection: forced
- Controller: microprocessor PID
- Display: 7" color touchscreen LCD
- Overtemperature protection: Class 3.1 DIN 12880
- Chamber material: AISI 304 acid-resistant stainless steel interior
- Housing: linen-finish stainless steel
- Access port (Ø30 mm) with silicone plug on the left wall
- Shelves: 2 standard / up to 5
- Power supply: 120V 60 Hz, 500 W
- Certifications: UL, CSA, CE
- Manufacturer / warranty: POL-EKO® / 24 months



SMART PRO Controller - As smart as your smartphone

The **SMART PRO controller** is a high-performance, microprocessor-based PID control system designed for modern laboratory applications. Its **7-inch full-color touch screen** provides intuitive, glove-friendly operation and clear visualization of process parameters, alarms, and trends.

SMART PRO enables **precise multi-segment time and temperature programming**, including ramping, looping, and delayed start functions, making it ideal for complex test protocols. Real-time process data is displayed in **graphical and tabular form** and securely stored in internal memory for full traceability.

With **LAN, USB, and Wi-Fi connectivity**, the controller supports easy data transfer, remote access, and integration with **LabDesk software** for program management, data analysis, and reporting. Built-in **visual and audible alarms**, power-failure recovery, and an **event log with user notifications** ensure maximum process safety.

User access is protected by **password-controlled login and administrator rights**, supporting GLP-compliant operation. SMART PRO combines precision, connectivity, and reliability—delivering full control and confidence in every laboratory environment.

TECHNICAL DATA CLW 53 IG SMART PRO NA

Parameter	Value
air convection	forced
chamber volume	56 L (2.0 cu ft)
working capacity	56 L (2.0 cu ft)
controller	Microprocessor PID controller with graphical LCD display
display	7" full-color touchscreen
TEMPERATURE	
temperature range	ambient +5 °C to 100 °C (ambient +41 °F to 212 °F)
temperature resolution every ...	0.1 °C
temperature fluctuation at 37°C*	±0.1 °C
temperature variation at 37°C*	±0.3 °C
temperature protection	class 3.1 to DIN 12880
CHAMBER	
door type	solid external door with additional internal glass door
interior	AISI 304 acid-resistant stainless steel interior (DIN 1.4301 / 0H18)
housing	linen-finish stainless steel
number of doors	1
shelves (standard / max)	2 / 5
maximum shelf load (1)	25 kg (55.1 lbs)
maximum unit load	40 kg (88.2 lbs)
weight	50 kg (110.2 lbs)
ELECTRICAL PARAMETERS	
electrical	120 V 60 Hz
power supply	500 W
over-voltage category	II according to IEC 61010-1
installation environment / IP	Indoors only / IP 20 according to IEC 60529
pollution degree	II according to IEC 61010-1
certificates	UL, CSA, CE
warranty	24 months
manufacturer	POL-EKO®

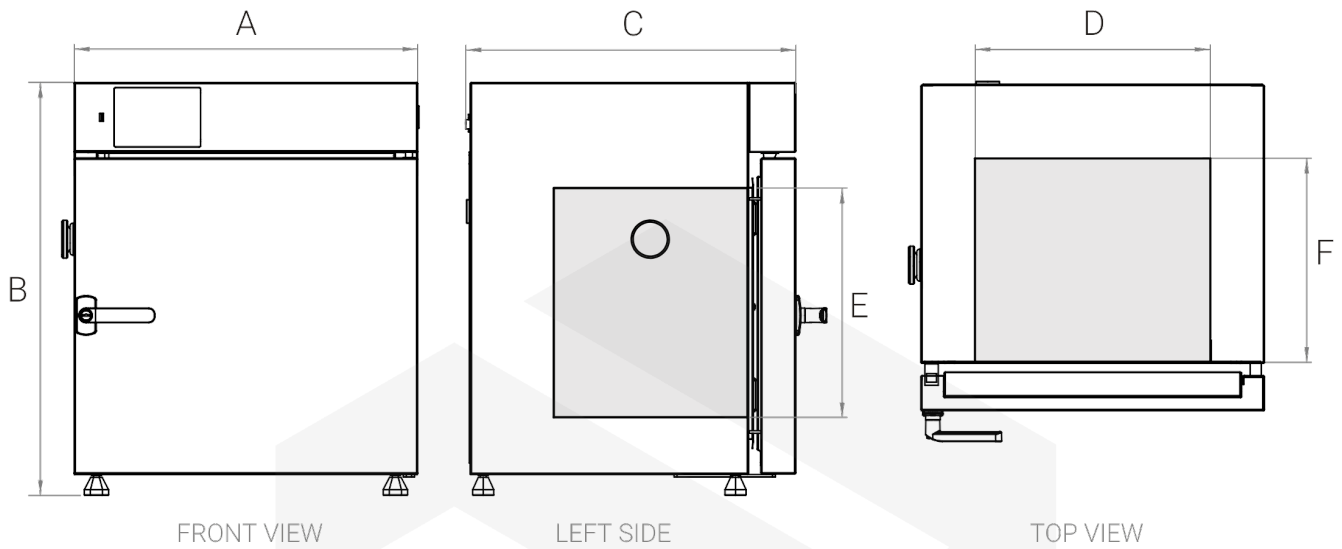
all the above technical data refer to standard units (without optional accessories)

* - fluctuation measured in center of the chamber; in space, variation (K) calculated for chamber as:

$K = \pm (T_{\text{average max}} - T_{\text{average min}}) / 2$

1 - on uniformly loaded surface

DIMENSIONS CLW 53 IG SMART PRO NA



Parameter	Value
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OVERALL DIMENSIONS	
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width A	599 mm (23.6 in)
height B	710 mm (28.0 in)
depth C	635 mm (25.0 in)

INTERNAL DIMENSIONS	
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width D	403 mm (15.9 in)
height E	390 mm (15.4 in)
depth F	350 mm (13.8 in)
diameter of the air flap	40 mm (1.6 in)

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

Overall depth doesn't include 50 mm (1.97 in) of power cable, the width does not include the 20 mm (0.79 in) of access port's silicone plug.

Possibility of changing the shelf position every 70 mm (2.76 in).

OPTIONS CLW 53 IG SMART PRO NA

Name	Description	Order number
Stainless steel wire shelf INOX	wire stainless steel shelf for CL/SL 53 and SL 75 with slide rails, dimensions: 392 x 310 mm (15.4 x 12.2 in), maximum shelf load: 25 kg (55.1 lbs)	05-1200-3011-0400530
Perforated shelf	perforated stainless steel shelf for CL/SL 53 and SL 75, dimensions: 392 x 310 mm (15.4 x 12.2 in), with slide rails, maximum shelf load: 25 kg (55.1 lbs)	05-1200-3031-0400530
Reinforced shelf	reinforced stainless steel wire shelf for CL/SL 53 and SL 75, with slide rails, dimensions: 392 x 310 mm (15.4 x 12.2 in), maximum shelf load: 50 kg (110.2 lbs)	05-1200-3021-0400530
Base on casters	powder-coated base on casters for CL/SL 53, 800 mm (31.5 in) high	05-1200-4202-0405301
Base on casters INOX	stainless steel base on casters for CL/SL 53, 800 mm (31.5 in) high	05-1200-4202-0405311
Table with casters	powder-coated table with casters for CL/SL 53, 800 mm (31.5 in) high	05-1200-4201-0405301
Table with casters INOX	stainless steel table with casters for CL/SL 53, 800 mm (31.5 in) high	05-1200-4201-0405311
LabDesk software	LabDesk software for temperature monitoring of POL-EKO thermostatic equipment, available for SMART (optional) and SMART PRO (standard) versions. Per-unit license; includes memory stick with software, dongle, and 3 m (9.8 ft) LAN cable. NOTE: SMART controller requires a dongle.	05-1200-1204-0300001
Calibration 5 points 1 shelf	Calibration at 5 points (corners + center) on one shelf at one selected temperature from -40°C to +200°C for new POL-EKO equipment, carried out in the POL-EKO Measurement Laboratory member of ILAC.	05-9090-1010-0500101
Calibration 5 points 2 shelves	Calibration at 5 points (corners + center) on two shelves simultaneously at one selected temperature from -40°C to +200°C for new POL-EKO equipment, carried out in the POL-EKO Measurement Laboratory member of ILAC.	05-9090-1012-1000101
Calibration 9 points of the chamber	Calibration at 9 points (corners + center) at one selected temperature from -40°C to +200°C for new POL-EKO equipment, carried out in the POL-EKO Measurement Laboratory member of ILAC.	05-9090-1010-0900101

