

 Made in Poland. Established 1990.



POL-EKO®
Perfect Environment



COOLED
INCUBATORS
ST SERIES





MAIN STANDARD BENEFITS

- temperature range: 3 to 65 °C (37 to 149 °F)
- quality control protocol (at 37°C)
- English, French and Spanish instruction manual
- temperature protection class 3.3 to DIN 12880
- door open alarm
- LAN and USB ports
- height adjustable feet
- access port (Ø30 mm) with silicone plug on the left side of the unit
- door lock
- stainless steel wire shelves
- external solid door
- main power switch flush with housing prevents unintentional switch off
- anchoring kit for ST 4, 5, 6 units
- automatic defrosting function
- forced air convection

EXTRA FOR SMART PRO

- Wi-Fi
- LAN cable
- LabDesk software

AVAILABLE VERSIONS

- SMART
- SMART PRO

SOFTWARE

- LabDesk for data download to a PC via LAN or Wi-Fi (optional for SMART version)
- LabDesk Cloud platform for remote data monitoring <https://labdesk.cloud>

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 the website: www.polekolab.pl.



TECHNICAL DATA

PARAMETERS		ST 1 NA	ST 2 NA	ST 3 NA	ST 4 NA	ST 5 NA	ST 6 NA
Air convection		forced					
Chamber volume [L / cu ft]		70 / 2.5	150 / 5.3	200 / 7.1	250 / 8.8	300 / 10.6	400 / 14.1
Working capacity [L / cu ft]		55 / 1.9	122 / 4.3	163 / 5.8	203 / 7.2	243 / 8.6	324 / 11.5
Door type		solid external door / glass (option) / double ¹ (option)					
Temperature range [°C / °F]		3 to 65 / 37 to 149					
Temperature resolution [°C]		every 0.1					
Controller		microprocessor PID, 4.3" (SMART) / 7" (SMART PRO) full-color touchscreen					
Interior	C (comfort)	AISI 430 stainless steel					
	CS (comfort/S)	AISI 430 stainless steel					
	P (premium)	AISI 304 acid-resistant stainless steel					
	PS (premium/S)	AISI 304 acid-resistant stainless steel					
Housing	C (comfort)	powder-coated sheet					
	CS (comfort/S)	AISI 304 acid-resistant polished stainless steel					
	P (premium)	powder-coated sheet					
	PS (premium/S)	AISI 304 acid-resistant polished stainless steel					
Maximum shelf load ² [kg / lbs]		10 / 22.1	10 / 22.1	10 / 22.1	10 / 22.1	10 / 22.1	10 / 22.1
Maximum unit load [kg / lbs]		20 / 44.1	30 / 66.1	40 / 88.2	50 / 110.2	60 / 132.3	60 / 132.3
Nominal power [W]		250	250	250	250	350	350
Weight ³ [kg / lbs]		46 / 101.4	63 / 138.9	71 / 156.5	82 / 180.8	98 / 216.1	114 / 251.3
Temperature protection		class 3.3 to DIN 12880					
Temperature fluctuation ⁴ at 37°C [±/°C]		0.3	0.3	0.3	0.3	0.3	0.3
Temperature variation ⁴ at 37°C [±/°C]		0.5	0.5	0.5	0.8	0.8	1.0
Power supply		120 [V] ±10 %, 60 [Hz]					
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					
Refrigerant typ / Global Warming Potential		R1234ze / GWP=7					
Refrigerant charge [g / oz]		55 / 1.94	62 / 2.19	75 / 2.65	110 / 3.88	110 / 3.88	110 / 3.88
Number of doors		1	1	1	1	1	1
Number of shelves fitted / maximum		2 / 2	3 / 4	3 / 4	4 / 6	4 / 7	4 / 10
Warranty		24 months					
Manufacturer		POL-EKO®					

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

the rating plate is located on the left side of the unit in the upper left corner

1 - additional internal glass door

2 - on uniformly loaded surface

3 - for equipment with solid external door, in version C (comfort)

4 - fluctuation measured in centre of chamber; in space, variation (K) calculated for chamber as: $K = \pm(T_{avg\ max} - T_{avg\ min})/2$
for ST 2-6 NA parameters given for the chamber space above the bottom step

DIMENSIONS & DATA

		ST 1 NA	ST 2 NA	ST 3 NA	ST 4 NA	ST 5 NA	ST 6 NA
Overall dims [mm / in]	A width	570 / 22.4	620 / 24.4	620 / 24.4	620 / 24.4	620 / 24.4	620 / 24.4
	B height	660 / 26.0	900 / 35.4	1,100 / 43.3	1,300 / 51.2	1,500 / 59.1	1,900 / 74.8
	C depth	680 / 26.8	650 / 25.6	650 / 25.6	650 / 25.6	650 / 25.6	650 / 25.6
Internal dims [mm / in]	D width	430 / 16.9	480 / 18.9	480 / 18.9	480 / 18.9	480 / 18.9	480 / 18.9
	D' width	470 / 18.5	520 / 20.5	520 / 20.5	520 / 20.5	520 / 20.5	520 / 20.5
	E height	430 / 16.9	660 / 26.0	860 / 33.9	1,060 / 41.7	1,260 / 49.6	1,660 / 65.4
	F depth	300 / 11.8	420 / 16.5	420 / 16.5	420 / 16.5	420 / 16.5	420 / 16.5
	F' depth	360 / 14.2	480 / 18.9	480 / 18.9	480 / 18.9	480 / 18.9	480 / 18.9
	G depth	-	320 / 12.6	320 / 12.6	320 / 12.6	320 / 12.6	320 / 12.6
	H height	-	440 / 25.2	640 / 25.2	840 / 33.1	1,040 / 40.9	1,440 / 56.7

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

Overall depth does not include 50 mm (2 in) of power cable, the width

does not include the 20 mm (0.8 in) of access port silicone plug.

The internal depth of units with double door is smaller.

Possibility of changing the shelf position: ST 1-6 every 25 mm (1 in)

OPTIONS & ACCESSORIES



additional internal glass door



external glass door



wire stainless steel shelf with slide rails, max shelf load: 10 kg



perforated stainless steel shelf with slide rails, max shelf load: 10 kg



reinforced stainless steel wire shelf with slide rails, max shelf load: 20kg



powder-coated or stainless steel base on casters, 800 mm high



powder-coated or stainless steel table with casters, 800 mm high



LabDesk software
(option for SMART only)

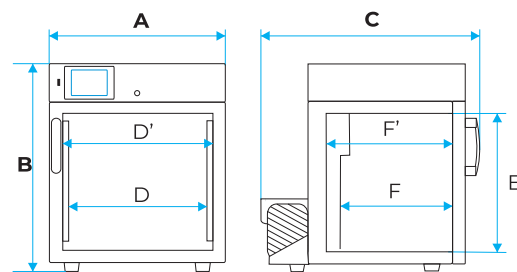


Calibration with certificate (ILAC)

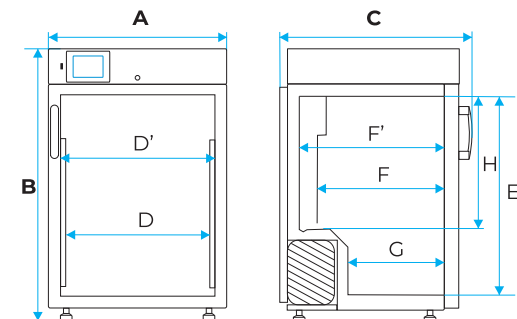


LabDesk CLOUD on-line platform
available on <https://labdesk.cloud>

ST 1 NA model



ST 2/3/4/5/6 NA models



Display 4.3" SMART 7" SMART PRO

SMART VS SMART PRO COMPARISON

The SMART and SMART PRO controllers are the next generation of intelligent control solutions designed to elevate the performance and usability of POL-EKO laboratory units. Both controllers deliver precise environmental control, intuitive touch-screen navigation, and flexible programming capabilities, ensuring that every unit operates with accuracy, reliability, and ease of use. While the **SMART** controller provides a solid foundation for everyday laboratory work, offering all essential functions needed for standard applications, the **SMART PRO** controller takes innovation a step further. With expanded programmability, advanced data logging, enhanced connectivity, and multi-user management, SMART PRO is tailored for laboratories that demand complete process transparency, traceability, and control. The comparison table below highlights the technological advantages and unique features of each controller, helping you choose the ideal solution for your unit.



CONTROLLER	SMART	SMART PRO
Display	4.3" touchscreen	7" touchscreen
Network	LAN	LAN and Wi-Fi
USB	YES saving registration data saving events	YES saving registration data saving events uploading programs
Keypad	numeric	alphanumeric
Languages	PL, EN, RU, CZ, IT, PT, UA, FR, ES	PL, EN, RU, CZ, IT, PT, UA, FR, ES
Main screen	dashboard (all relevant data visible from one main window)	dashboard (all relevant data visible from one main window)
Users	-	5
Users account types	-	User / Admin / Super Admin
Programs	5	40
Program name	free number assigned	user editable
Priority	parameters	parameters, time
Segments	6	100
Schedule	-	10 schedules
Data registry	maximum 10,000 measurement data stored for a maximum of 6 months	maximum 10,000 measurement data stored for a maximum of 12 months
Events registry	YES	YES
Statistics	YES - only the current cycle	YES - from every segment and program cycle
Temperature protection	class 3.3 to DIN12880	class 3.3 to DIN 12880
Quick Note	-	ability to enter user text notes
Graph	-	YES
Mail notifications	-	alarm notifications
Unit name	fixed (serial number)	editable
Alarm Bar	YES	YES
Quick Change	YES	YES
PC software	LabDesk (option)	LabDesk



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