Cooled incubators (ST) can provide stable temperature between +3...+70°C regardless of ambient conditions



Cooled incubator ST 2 C Smart PRO



All thermostatic equipment manufactured by POL-EKO-APARATURA can be provided with Calibration Certificate issued by accredited Measurement Laboratory. Detailed information on accreditation is available on website: www.pol-eko.eu.



STANDARD FEATURES

- temperature range +3...+40°C (+70°C for Smart PRO)
- quality control protocol (at +37°C)
- English instruction manual
- temperature protection class 1.0 to DIN 12880 for B (basic) and C (comfort) versions, 2.0 for P (premium) version and 3.3 for Smart PRO
- open door alarm
- castors in standard for models ST 1200 and 1450
- LAN and USB ports
- internal LED light
- access port (Ø30 mm) on the left wall
- door lock
- wire shelves in B (basic) models, stainless steel wire shelves (INOX) in C (comfort) and P (premium) models
- solid door
- anchoring kit for ST 500, 700, 1200, 1450 and double/triple chambers

EXTRA FOR **SMART PRO**

- Wi-Fi
- LAN cable
- LabDesk

SOFTWARE

temperatures

Smart

Smart PRO

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

TR tropic (on request) for higher ambient

AVAILABLE VERSIONS

FOT photoperiod (see page 44)

FIT phytotron (see page 45)

double/triple chamber combined with ZLN 85 or CHL

Application

- BOD determination
- microbiological research
- plant growing and microorganisms breeding at specified temperature
- storage of liquids and samples for physicochemical analysis



working capacity [I] 55 122 163 203 243 324 469 611 1 door type solid / glass or double' (option) temperature range [°C] +3+40 / up to +70 (option) / +3+70 in Smart PRO temperature resolution [°C] every 0.1 controller Microprocessor PID, 4,3° (Smart) / 7" (Smart PRO) full colour touch screen Interior B (basic) aluminum C (comfort) C (comfort) Stainless steel to DIN 1.4016 P (premium) P (premium/S) acid-proof stainless steel to DIN 1.4301 P (comfort) powder coated sheet P (premium) powder coated sheet P (premium) powder coated sheet P (premium/S) P (premium/S) powder coated sheet						
air convection chamber capacity [I] 70 150 200 250 300 400 500 625 11 working capacity [I] 55 122 163 203 243 324 469 611 11 door type	" "					
air convection chamber capacity [I] 70 150 200 250 300 400 500 625 11 working capacity [I] 55 122 163 203 243 324 469 611 11 door type solid / glass or double' (option) temperature range [°C]						
To 150 200 250 300 400 500 625 100						
working capacity [f] 55 122 163 203 243 324 469 611 1 door type solid / glass or double' (option) temperature range [°C] +3+40 / up to +70 (option) / +3+70 in Smart PRO temperature resolution [°C] every 0.1 controller B (basic) aluminum Uniterior B (basic) aluminum Description of Stainless steel to DIN 1.4016 P (premium) acid-proof stainless steel to DIN 1.4016 PS (premium/S) powder coated sheet Description of Stainless steel P (premium) powder coated sheet PS (premium/S) P (premium/S) <td< td=""><td></td></td<>						
Solid / glass or double (option)	1365 1540					
temperature range [°C]	1355 1525					
temperature resolution [°C] every 0,1 controller microprocessor PID, 4,3" (Smart) / 7" (Smart PRO) full colour touch screen B (basic) aluminum C (comfort) stainless steel to DIN 1,4016 P (premium) acid-proof stainless steel to DIN 1,4301 PS (premium/S) acid-proof stainless steel to DIN 1,4301 B (basic) powder coated sheet C (comfort) powder coated sheet C (comfort) powder coated sheet P (premium) powder coated sheet P (premium) powder coated sheet PS (premium/S) polished stainless steel A width 570 620 620 620 620 620 660 750 14 overall dims [mm] B height 660 900 1100 1300 1500 1900 1990 1990 19 C depth 680 650 650 650 650 650 650 810 890 660 12 D width 430 480 480 480 480 480 480 480 540 11						
controller microprocessor PID, 4,3" (Smart) / 7" (Smart PRO) full colour touch screen B (basic) aluminum C (comfort) Stainless steel to DIN 1.4016 CS (comfort/S) Stainless steel to DIN 1.4016 P (premium) acid-proof stainless steel to DIN 1.4301 PS (premium/S) acid-proof stainless steel to DIN 1.4301 B (basic) powder coated sheet C (comfort) powder coated sheet P (premium) powder coated sheet PS (premium/S) polished stainless steel PS (premium/S) polished stainless steel overall dims [mm] A width 570 620 620 620 620 620 620 90 12 coverall dims [mm] B height 660 900 1100 1300 1500 1900 1990 1990 19 C depth 680 650 650 650 650 650 650 810 890 6 D width 430 480 480 480 480						
B (basic) aluminum						
C (comfort) Stainless steel to DIN 1.4016						
interior	aluminum					
P (premium) acid-proof stainless steel to DIN 1.4301	stainless steel to DIN 1.4016					
PS (premium/s) acid-proof stainless steel to DIN 1.4301	stainless steel to DIN 1.4016					
B (basic) powder coated sheet	acid-proof stainless steel to DIN 1.4301					
C (comfort) powder coated sheet						
housing CS (comfort/S) polished stainless steel P (premium) powder coated sheet PS (premium/S) polished stainless steel A width 570 620 620 620 620 620 660 750 14 overall dims [mm] B height 660 900 1100 1300 1500 1900 1990 1990 19 C depth 680 650 650 650 650 650 810 890 8 D width 430 480 480 480 480 480 480 540 13						
P (premium) PS (premium/S) PS (premium/S) PS (premium/S) A width 570 620 620 620 620 620 620 620 6	powder coated sheet					
PS (premium/S) A width 570 620 620 620 620 620 620 660 750 12 overall dims [mm] B height 660 900 1100 1300 1500 1900 1990 1990 19 C depth 680 650 650 650 650 650 810 890 8 D width 430 480 480 480 480 480 480 540 13	polished stainless steel					
A width 570 620 620 620 620 620 620 660 750 14 b height 660 900 1100 1300 1500 1900 1990 1990 1990 19 C depth 680 650 650 650 650 650 650 810 890 8 D width 430 480 480 480 480 480 480 540 11	powder coated sheet					
Overall dims [mm] B height 660 900 1100 1300 1500 1900 1990 1990 19 C depth 680 650 650 650 650 650 810 890 8 D width 430 480 480 480 480 480 480 540 13						
C depth 680 650 650 650 650 650 810 890 8 D width 430 480 480 480 480 480 480 540 13	1480 1460					
Dwidth 430 480 480 480 480 480 540 13	1990 1940					
	890 990					
D' width 470 520 520 520 520 520 510 600 13	1270 1270					
	1330 1340					
E height 430 660 860 1060 1260 1660 1510 1510 1	1510 1460					
	680 780					
internal dims ³ [mm] F' depth 360 480 480 480 480						
G depth - 320 320 320 320						
H height - 440 640 840 1040 1440						
	1380 1380					
	30 30					
nearless 4fted	100 100					
	300 300					
max unit - 20 30 40 50 60 60 100 150 3 workload [kg] W ⁶ version on request						
W VCISION CONTROLLER	650 950					
	185 200					
	0,3 0,3					
	1,0 1,0					
temperature protection class 1.0 to DIN 12880 / class 3.3 (option) / class 2.0 in P version / class 3.3 in Smart PRO	1,0					
power supply** 230V 50-60Hz						
	v 7/11 ⁸ 2 ·· 7/13 ⁸					
	x 3/11 ⁸ 2 x 3/11 ⁸					
refrigerant R1234ze / GWP=1 R290 / GWP=	=5					
	24 months					
manufacturer POL-EKO-APARATURA all the above technical data refer to standard units (without optional accessories)						

- 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 = +/- (T avg max T avg min) / 2
- ** other power supplies on request
- 1- additional internal glass door
- 2- depth does not include 50 mm of power cable
- 3- dims of units with double door are smaller
- 4- on uniformly loaded surface

- 5- reinforced shelf
- 6- reinforced version
- 7- for equipment with solid door, in version B (basic)
- 8- two columns with 3 shelves each

Options and accessories (icon description see pages 76-82)





























































		ST 1/1	ST 1/1/1	ST 2/2	ST 2/3	
					1	
		-	-		1	
Parameter						
ir convection		forced				
chamber capacity [I]		70 / 70	70 / 70 / 70	150 / 150	150/200	
vorking capacity [I]		55 / 55	55/55/55	122 / 122	122 / 163	
		solid / glass or double (option)				
door type temperature range [°C]		+3+40 / up to +70 (option) / +3+70 in Smart PRO				
		every 0,1				
temperature resolution [°C] controller		microprocessor PID, 4,3" (Smart) / 7" (Smart PRO) full colour touch screen				
in one	D (hessia)	aluminum				
interior	B (basic)	stainless steel to DIN 1.4016				
	C (comfort) CS (comfort/S)	stainless steel to DIN 1.4016				
	P (premium) PS (premium/S)	acid-proof stainless steel to DIN 1.4301				
		acid-proof stainless steel to DIN 1.4301 powder coated sheet				
	B (basic)					
pusing	C (comfort)	powder coated sheet				
343.119	CS (comfort/S)	polished stainless steel powder coated sheet				
	P (premium) PS (premium/S)					
		polished stainless steel				
verall dims² [mm]	A width B height	570 1290	570 1920	620 1720	620 1930	
	-		680	650		
	C depth	680			650	
internal dims ³ [mm]	D width	430	430	480	480	
	D' width	470	470 430	520 660	520 660 / 860	
	E height					
	F depth	300	300	420	420	
	F' depth	360	360	480	480	
	G depth	-	-	320	320	
	H height	-	-	440	440 / 640	
max shelf workload ⁴ [kg]		10 10 10 10				
	PW⁵ version	on request				
max unit workload [kg]	-	20/20 20/20/20 30/30 30/40				
	W ⁶ version	500	on req	500	500	
nominal power [W] weight ⁷ [kg]			98	109		
temperature fluctuation* at +37°C [+/- °C]		65 0,3	0,3	0,3	0,3	
		0,5	0,5	0,5	0,5	
temperature variation* at +37°C [+/- °C]		class 1.0 to DIN 12880 / class 3.3 (option) / class 2.0 in P version / class 3.3 in Smart PRO				
mperature protection		Ciass I.O to DIN 12			5.5 III SMALL PRO	
ower supply**			230V 50			
nelves fitted/max	see page 36					
efrigerant	R1234ze / GWP=1 24 months					
/arranty						
nanufacturer			POL-EKO-AF	AKATUKA		

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= +/- (Tavg max Tavg min) / 2
 **- other power supplies on request
- 1- additional internal glass door
- 2- depth does not include 50 mm of power cable
- 3- dims of units with double door are smaller
- 4- on uniformly loaded surface

- 5- reinforced shelf
- 7- for units with solid door, in version B (basic)

Options and accessories (icon description see pages 76-82)















































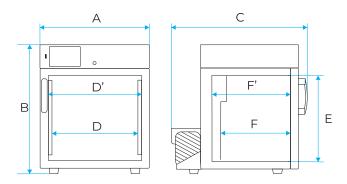




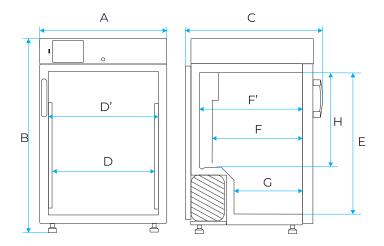




Dimensions ST 1



Dimensions ST 2/3/4/5/6



Dimensions ST 500/700/1200/1450

