



POL-EKO®

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Data sheet

print date: 2026-07-29

Laboratory Refrigerator CHL 1/1/1 Smart PRO



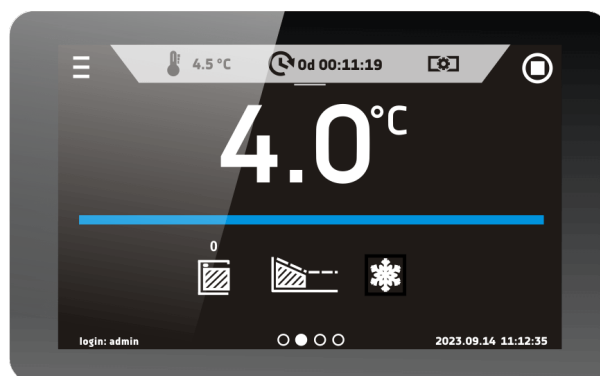
The photo above is for reference only, may show additional options not included in standard equipment. The real appearance, particularly color and structure of the material may differ from the ones presented in the photo.

Advantages of the SMART PRO controller:

- large (7"), clear, full colour touch screen
- LAN, USB ports and WiFi for communication and data transfer
- multi-segment time and temperature programs
- overview of data in tabular and graphic form
- visual and sound alarm
- Admin function for management
- password protected log-in
- internal memory for programs and data storage
- event registry with user notifications
- LabDesk software and user manual for direct download

Features:

- open door alarm
- internal LED light
- access port for external sensor (Ø30 mm) on the left side of the unit
- door lock
- automatic defrost function



Smart PRO - preview screen



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TECHNICAL DATA

air convection	forced
chamber capacity [l]	74 / 74 / 74
working capacity [l]	54 / 54 / 54
controller	microprocessor PID
display	7" full colour touch screen

TEMPERATURE

temperature range [°C]	0...+15
temperature resolution every ... [°C]	0,1
temperature fluctuation at 4°C [±/°C]*	0,4
temperature variation at 4°C [±/°C]*	0,7
temperature protection	class 3.2 to DIN 12880

CHAMBER

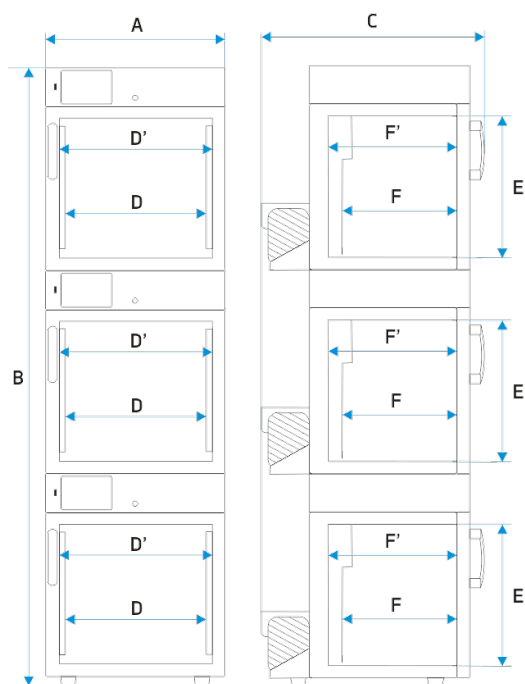
door type	solid / glass or double (option) /4/
interior	
C Smart PRO	stainless steel to DIN 1.4016
CS Smart PRO	stainless steel to DIN 1.4016
P Smart PRO	corrosion-resistant stainless steel to DIN 1.4301
PS Smart PRO	corrosion-resistant stainless steel to DIN 1.4301
housing	
C Smart PRO	powder coated sheet
CS Smart PRO	stainless steel polished
P Smart PRO	powder coated sheet
PS Smart PRO	stainless steel polished

overall dims [mm] /1/

width A	580
height B	1920
depth C	690

internal dims [mm]

width D	430
width D'	470
height E	430
depth F	300
depth F'	360



shelves (standard max)	2 2 / 2 2 / 2 2
max shelf workload [kg] /2/	10
max unit workload [kg]	20 / 20 / 20
weight [kg]	115



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ELECTRICAL PARAMETERS

voltage	230V 50/60Hz
nominal power [W]	750
refrigerant	R1234ze / GWP=7
warranty	24 months
manufacturer	POL-EKO®

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

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

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

** - other power supplies on request

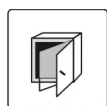
1 - depth doesn't include 50 mm of power cable, the width does not include the 20 mm of rubber plug

2 - on uniformly loaded surface

3 - reinforced shelf

4 - additional internal glass door

OPTIONS AND ACCESSORIES



Order number: */C

Internal glass door



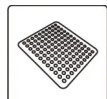
Order number: */A

External glass door



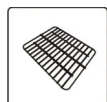
Order number: */P INOX

Stainless steel wire shelf INOX



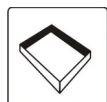
Order number: */PP

Perforated shelf



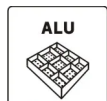
Order number: */PW

Reinforced shelf



Order number: KUW GN*/*

Stainless steel cuvettes



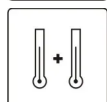
Order number: ST/CHL/SWP ALU

Aluminum drawer with powder coated slides



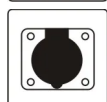
Order number: ST/CHL/SWPN INOX

Stainless steel drawer with stainless steel slides



Order number: PT 100

Additional temperature sensor



Order number: GNZ

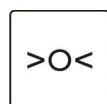
Internal socket



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Order number: BRT/*/L or IQ/OQ/PQ

Calibration and IQ, OQ, PQ qualification



Order number: RFID LOCK (SMART PRO)

RFID LOCK (SMART PRO)



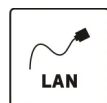
Order number: BPP 12

Battery backup for display



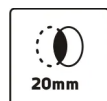
Order number: PORT ALARM

Dry alarm contact



Order number: LANK

LAN cable



Order number: OCZ/20

Non-standard access port 20 mm



Order number: OCZ/30

Additional access port 30 mm



Order number: OCZ/60

Non-standard access port 60 mm



Order number: OCZ/100

Non-standard access port 100 mm