Data sheet

print date: 2026-11-06

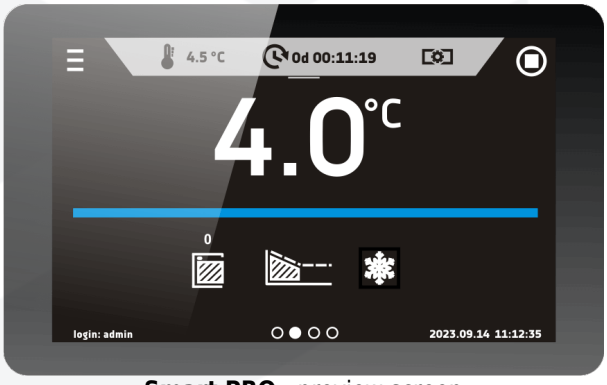
Laboratory Refrigerator

CHL 500 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



Smart PRO - preview screen

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

Richmond Scientific

TECHNICAL DATA

air convection	forced
chamber capacity [l]	506
working capacity [l]	475
controller	microprocessor PID
display	7" full colour touch screen

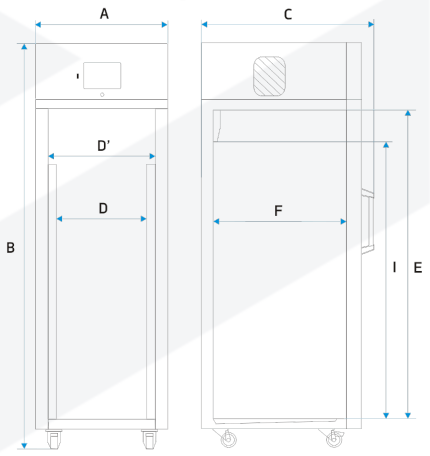
TEMPERATURE

temperature range [°C]	0...+15
temperature resolution every ... [°C]	0,1
temperature fluctuation at 4°C [+/-°C]*	0,6
temperature variation at 4°C [+/-°C]*	1
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	640
height B	1990
depth C	840
internal dims [mm]	
width D	470
width D'	510
height E	1510
depth F	610
height I	1380

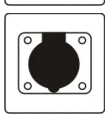


shelves (standard | max)	3 | 11
max shelf workload [kg] /2/	20
- reinforced shelf version (PW) [kg] /3/	100
max unit workload [kg]	100
weight [kg]	125

ELECTRICAL PARAMETERS	
voltage	230V 50/60Hz
nominal power [W]	650
refrigerant	R290 / GWP=3
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= +/- (T average max. - T 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: QLK*	Castors
	Order number: GNZ	Internal socket

>O<	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
ALARM	Order number: PORT ALARM	Dry alarm contact
LAN	Order number: LANK	LAN cable
20mm	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