

## Data sheet

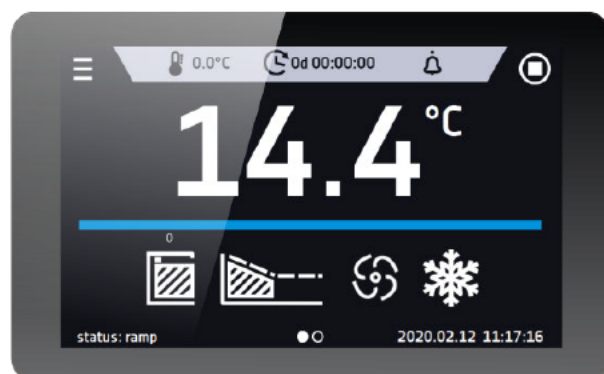
## Laboratory Refrigerator CHL 1/1 Smart



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 controller:

- 4,3", clear, full colour touch screen
- LAN, USB ports for data transfer
- multi-segment time and temperature programs
- visual and sound alarm
- internal memory for programs and data storage
- event registry
- user manual for direct download
- Quick change of program parameters
- Alarm Bar
- operating with gloves on



Smart - preview screen

## TECHNICAL DATA

air convection	forced
chamber capacity [l]	70 / 70
working capacity [l]	55 / 55
controller	microprocessor PID
display	4,3 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
over temperature protection	class 1.0 to DIN 12880 / class 3.2 (option)

## CHAMBER

door type	solid / glass or double (option) /5/
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### interior

B Smart	aluminium
C Smart	stainless steel to DIN 1.4016
CS Smart	stainless steel to DIN 1.4016
P Smart	DIN 1.4301
PS Smart	DIN 1.4301

### housing

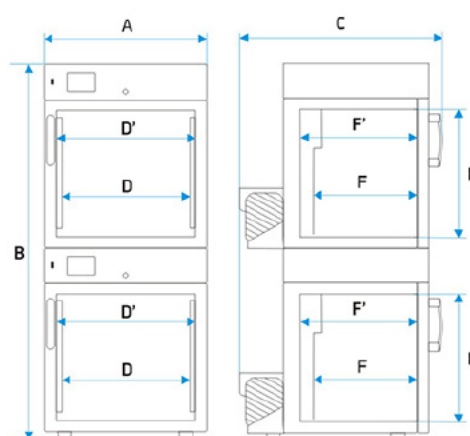
B Smart	powder coated sheet
C Smart	powder coated sheet
CS Smart	stainless steel polished
P Smart	powder coated sheet
PS Smart	stainless steel polished

### overall dims [mm] /1/

width A	570
height B	1290
depth C	680

### 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
max shelf workload [kg] /2/	10
max unit workload [kg]	20 / 20
weight [kg]	65

## ELECTRICAL PARAMETERS

voltage**	230V 50-60Hz
nominal power [W]	500
refrigerant	R1234ze / GWP=1
warranty	24 months
manufacturer	POL-EKO-APARATURA
txt_opis pod tabelą	<p>all the above technical data refer to standard units (without optional accessories)</p> <p>* - fluctuation measured in centre of the chamber; in space, variation (K) calculated for chamber as:  <math>K = \pm (T \text{ average max.} - T \text{ average min.}) / 2</math></p> <p>** - other power supplies on request</p> <p>1 - depth doesn't include 50 mm of power cable                  2 - on uniformly loaded surface                  3 - reinforced shelf                  4 - reinforced version                  5 - additional internal glass door</p>

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\*\* - other power supplies on request

1 - depth doesn't include 50 mm of power cable

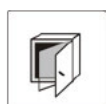
2 - on uniformly loaded surface

3 - reinforced shelf

4 - reinforced version

5 - additional internal glass door

## OPTIONS AND ACCESSORIES



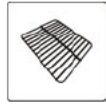
Order number: \*/C

Internal glass door



Order number: \*/A

External glass door



Order number: \*/P

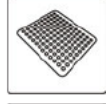
Wire shelf



INOX

Order number: \*/P INOX

Stainless steel wire shelf INOX



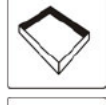
Order number: \*/PP

Perforated shelf



Order number: \*/PW

Reinforced shelf



Order number: KUW GN\*/\*





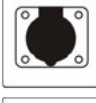

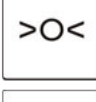
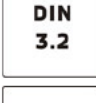



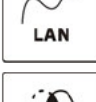
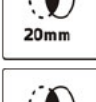
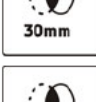
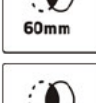
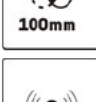

Stainless steel cuvettes



ALU

Order number: ST/CHL/SWP ALU

Aluminum drawer with powder coated slides

	Order number: ST/CHL/SWP INOX	Stainless steel drawer with powder coated slides
	Order number: ST/CHL/SWPN INOX	Stainless steel drawer with stainless steel slides
	Order number: QLK*	Wheels
	Order number: *PLUS	Automatic defrosting function
	Order number: GNZ	Internal socket
	Order number: LabDesk	LabDesk software
	Order number: BRT*/L or IQ/OQ/PQ	Calibration and IQ, OQ, PQ qualification
	Order number: */3.2	Over temperature protection 3.2 class according to DIN 12880
	Order number: BPP 12	Battery backup for display
	Order number: PORT ALARM	Dry alarm contact
	Order number: USBK	USB cable
	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
	Order number: KD	Access control