

## Data sheet

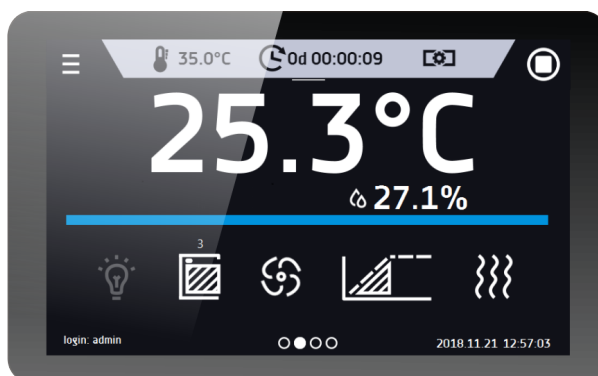
## Laboratory Refrigerator CHL 4 Smart PRO



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

## TECHNICAL DATA

|                      |                             |
|----------------------|-----------------------------|
| air convection       | forced                      |
| chamber capacity [l] | 250                         |
| working capacity [l] | 203                         |
| 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]*   | 0,8                    |
| over temperature protection            | class 3.2 to DIN 12880 |

## CHAMBER

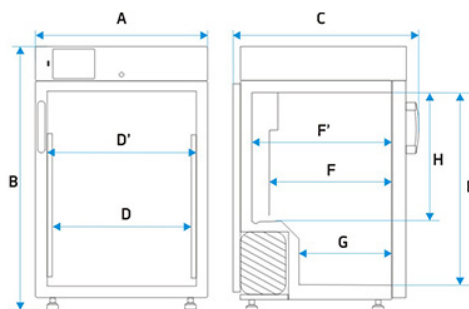
|                 |                                      |
|-----------------|--------------------------------------|
| door type       | solid / glass or double (option) /4/ |
| <b>interior</b> |                                      |
| P Smart PRO     | DIN 1.4301                           |
| PS Smart PRO    | DIN 1.4301                           |
| <b>housing</b>  |                                      |
| P Smart PRO     | powder coated sheet                  |
| PS Smart PRO    | stainless steel polished             |

## overall dims [mm] /1/

|          |      |
|----------|------|
| width A  | 620  |
| height B | 1300 |
| depth C  | 650  |

## internal dims [mm]

|          |      |
|----------|------|
| width D  | 480  |
| width D' | 520  |
| height E | 1060 |
| depth F  | 420  |
| depth F' | 480  |
| depth G  | 320  |
| height H | 840  |



|                             |       |
|-----------------------------|-------|
| shelves (standard   max)    | 4   6 |
| max shelf workload [kg] /2/ | 10    |
| max unit workload [kg]      | 50    |
| weight [kg]                 | 69    |

## ELECTRICAL PARAMETERS

|                   |                   |
|-------------------|-------------------|
| voltage**         | 230V 50-60Hz      |
| nominal power [W] | 250               |
| refrigerant       | R1234ze / GWP=1   |
| warranty          | 24 months         |
| manufacturer      | POL-EKO-APARATURA |

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

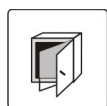
1 - depth doesn't include 50 mm of power cable

2 - on uniformly loaded surface

3 - reinforced shelf

4 - additional internal glass door

## OPTIONS AND ACCESSORIES



Order number: \*/C

Internal glass door



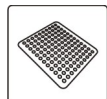
Order number: \*/A

External glass door



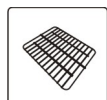
Order number: \*/P INOX

Stainless steel wire shelf INOX



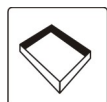
Order number: \*/PP

Perforated shelf



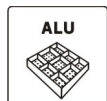
Order number: \*/PW

Reinforced shelf



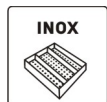
Order number: KUW GN\*/\*

Stainless steel cuvettes



Order number: ST/CHL/SWP ALU

Aluminum drawer with powder coated slides



Order number: ST/CHL/SWP INOX

Stainless steel drawer with powder coated slides



Order number: ST/CHL/SWPN INOX

Stainless steel drawer with stainless steel slides



Order number: ORG-FARM

Pharma organizer



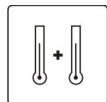
Order number: QLK\*

Castors



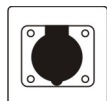
Order number: \*PLUS

Automatic defrosting function



Order number: PT 100

Additional temperature sensor



Order number: GNZ

Internal socket



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

Calibration and IQ, OQ, PQ qualification



Order number: BPP 12

Battery backup for display



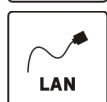
Order number: PORT ALARM

Dry alarm contact



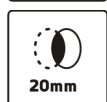
Order number: USBK

USB cable



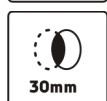
Order number: LANK

LAN cable



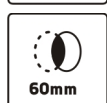
Order number: OCZ/20

Non-standard access port 20 mm



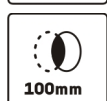
Order number: OCZ/30

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



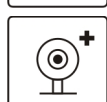
Order number: KD

Access control



Order number: CCTV

Camera inside the chamber



Order number: CCTV CAM

Additional camera