



Data sheet

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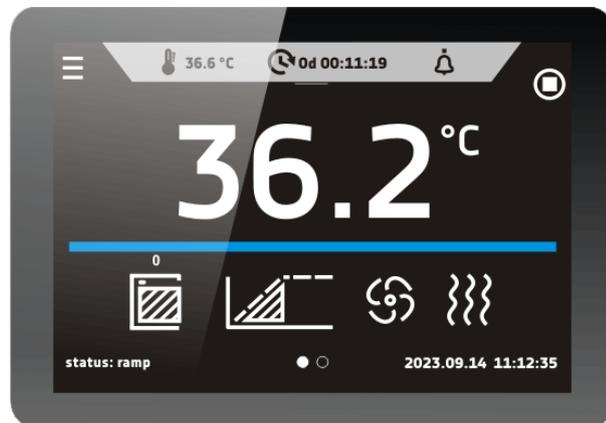
Laboratory Incubator CLN 180 Smart



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 | natural |
| chamber capacity [l] | 246 |
| working capacity [l] | 182 |
| controller | microprocessor PID |
| display | 4,3" full colour touch screen |

TEMPERATURE

| | |
|---|---|
| temperature range [°C] | 5°C above ambient temperature ... +100°C |
| temperature resolution every ... [°C] | 0,1 |
| temperature fluctuation at 37°C [±/°C]* | 0,2 |
| temperature variation at 37°C [±/°C]* | 0,8 |
| temperature protection | class 2.0 to DIN 12880 / class 3.1 (option) |

CHAMBER

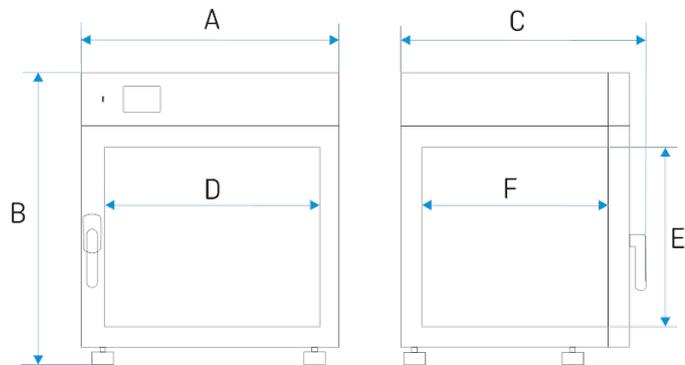
| | |
|-----------------|---|
| door type | double(5) / door with viewing window (option) |
| interior | |
| Smart | acid-proof stainless steel to DIN 1.4301 |
| IG Smart | acid-proof stainless steel to DIN 1.4301 |
| housing | |
| Smart | powder coated sheet |
| IG Smart | stainless steel linen finish |

overall dims [mm] /1/

| | |
|----------|------|
| width A | 660 |
| height B | 1040 |
| depth C | 820 |

internal dims [mm]

| | |
|----------|-----|
| width D | 460 |
| height E | 720 |
| depth F | 550 |



| | |
|--|-------|
| shelves (standard max) | 3 9 |
| max shelf workload [kg] /2/ | 25 |
| - reinforced shelf version (PW) [kg] /3/ | 50 |
| max unit workload [kg] | 75 |
| - reinforced unit version (W) [kg] /4/ | 120 |
| weight [kg] | 92 |



ELECTRICAL PARAMETERS

| | |
|-------------------|--------------|
| voltage | 230V 50/60Hz |
| nominal power [W] | 650 |
| 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

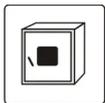
1 - depth doesn't include 50 mm of power cable, the width does not include the 20 mm of rubber plug

2 - on uniformly loaded surface

3 - reinforced shelf

4 - additional internal glass door

OPTIONS AND ACCESSORIES



Order number: */A

door with viewing window



Order number: */P INOX

Stainless steel wire shelf INOX



Order number: */PP

Perforated shelf



Order number: */PW

Reinforced shelf



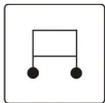
Order number: KUW GN*/*

Stainless steel cuvettes



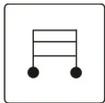
Order number: QLK*

Castors



Order number: */S or */S INOX

Table with castors



Order number: */ST or */S INOX

Base on castors



Order number: */W

Reinforced version



Order number: OWW/OWW LED

Interior lighting



Order number: HEPA

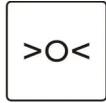
HEPA Clean Air Filter





Order number: LabDesk

LabDesk software



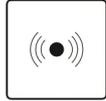
Order number: BRT/*/L or IQ/OQ/PQ

Calibration and IQ, OQ, PQ qualification



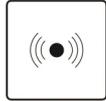
Order number: */3.1

Over temperature protection 3.1 class according to DIN 12880



Order number: KD

Access control



Order number: RFID LOCK (SMART)

RFID LOCK (SMART)



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