



Data sheet

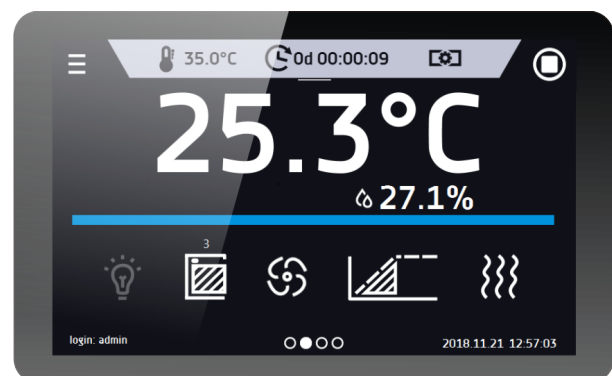
CO₂ Incubator ILC 180 Smart PRO



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	natural (without fan)
chamber capacity [l]	182
working capacity [l]	135 /3/
controller	microprocessor PID
display	7" full colour touch screen

TEMPERATURE

temperature range [°C]	5°C above ambient temperature ... +50°C
temperature resolution every ... [°C]	0,1
temperature fluctuation at 37°C [±/°C]*	0,1
temperature variation at 37°C [±/°C]*	0,3
Temperature recovery time after 30 seconds door opening at 37°C [min]	6
temperature protection	class 3.1 to DIN 12880

CO₂

CO ₂ range [%]	0-20
CO ₂ resolution every ... [%]	0,1
CO ₂ measurement	IR
CO ₂ recovery time after 30 seconds door opening at 5 Vol.-% CO ₂ [min]	10
relative humidity range [%]	90-95

CHAMBER

door type	double (external solid, internal glass)
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interior

Smart PRO	DIN 1.4301
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housing

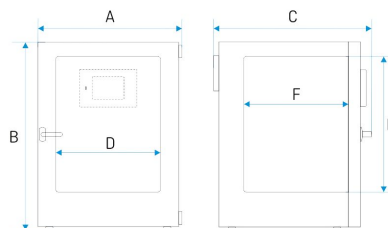
Smart PRO	powder coated sheet
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overall dims [mm] /1/

width A	700
height B	920
depth C	780

internal dims [mm]

width D	560
height E	650
depth F	500



shelves (standard max)	3 / 6
max shelf workload [kg] /2/	10
max unit workload [kg]	30
weight [kg]	96



ELECTRICAL PARAMETERS

Energy consumption at 37°C [Wh/h]	66
voltage**	230V 50-60Hz
nominal power [W]	1700
Noise level [db(A)]	42
warranty	24 months

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:

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

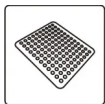
** - other power supplies on request

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

2 - on uniformly loaded surface

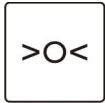
3 - doesn't include rack for shelves

OPTIONS AND ACCESSORIES



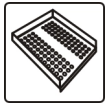
Order number: */PP

Perforated shelf



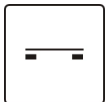
Order number: BRT*/L or IQ/OQ/PQ

Calibration and IQ, OQ, PQ qualification



Order number: */PPW

Reinforced perforated shelf



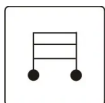
Order number: */AD

Stacking adaptor



Order number: */STN

Base on castors



Order number: */STW

Support frame on castors