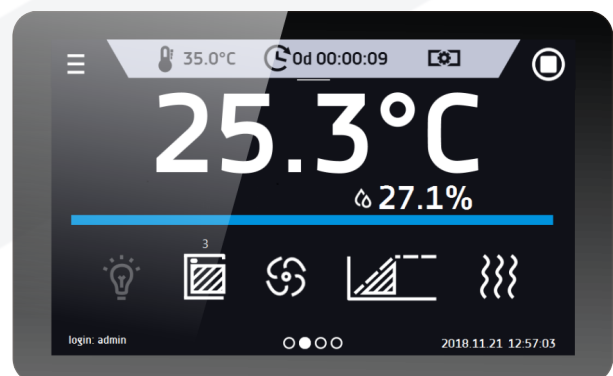# Richmond Scientific

Data sheet

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

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1/4

TECHNICAL DATA

air convection	forced / natural
chamber capacity [l]	200 / 85
working capacity [l]	163 / 73
controller	microprocessor PID
display	7" full colour touch screen

TEMPERATURE

|	
temperature range [°C]	0...+15 / -25...0
temperature resolution every ... [°C]	0,1
temperature fluctuation at 4°C [+/-°C]*	0,4
temperature fluctuation at -20°C [+/-°C]*	0,5
temperature variation at 4°C [+/-°C]*	0,7
temperature variation at -20°C [+/-°C]*	2
temperature protection	class 3.2 to DIN 12880

CHAMBER

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

overall dims [mm] /1/

width A	600
height B	1910
depth C	650
internal dims [mm]	
width D	480 / 380
width D'	520 / 420
height E	860 / 590
depth F	420 / 400
depth F'	480 / 440
depth G	320 / 230
height H	640 / 380
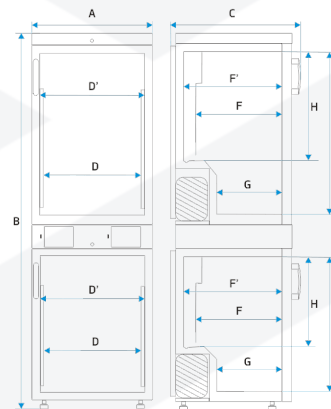
shelves (standard | max)	3 | 4 / 2 | 4
max shelf workload [kg] /2/	10
max unit workload [kg]	30 / 30
weight [kg]	121

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2/4

ELECTRICAL PARAMETERS

voltage**	230V 50-60Hz
nominal power [W]	500
refrigerant	R1234ze / GWP=1	R290 / GWP=36
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; parameters given for the chamber above the bottom step

** - 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

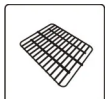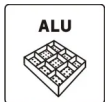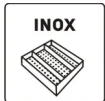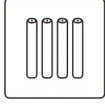|		
	Order number: */C	Internal glass door
	Order number: */A	External glass door
	Order number: */P INOX	Stainless steel wire shelf INOX
	Order number: */PP	Perforated shelf
	Order number: */PW	Reinforced shelf
	Order number: KUW GN*/*	Stainless steel cuvettes
	Order number: ST/CHL/SWP ALU	Aluminum drawer with powder coated slides
	Order number: ST/CHL/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
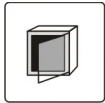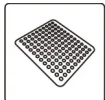
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3/4

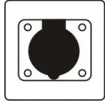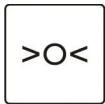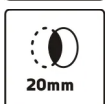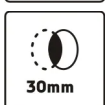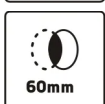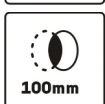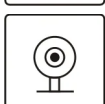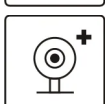|	Order number: *PLUS	Automatic defrosting function
	Order number: ST/70	Extended temperature range to 70°C
	Order number: */FOT	Photoperiodic system
	Order number: GNZ	Internal socket
	Order numberLabDesk	LabDesk software
	Order number: BRT/*/L or IQ/OQ/PQ	Calibration and IQ, OQ, PQ qualification
	Order 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: 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

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4/4