



POL-EKO®

(+48) 32 453 91 70  
info@pol-eko.com.pl  
www.pol-eko.com.pl

POL-EKO A.Polok-Kowalska sp.k.  
44-300 Wodzisław Śląski  
ul. Kokoszycka 172 C

## Data sheet



Crucial Temperature Solutions

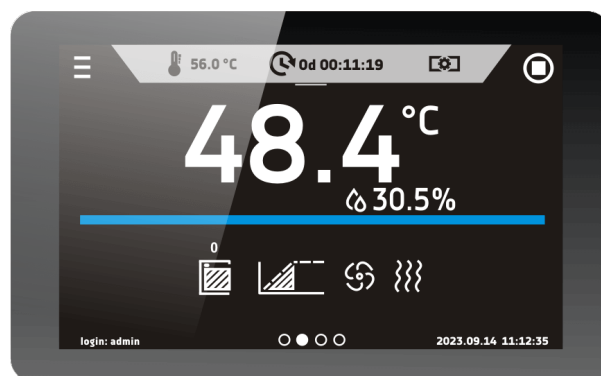
## Climatic Chamber KKS 1450 Smart PRO



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



POL-EKO®

(+48) 32 453 91 70  
info@pol-eko.com.pl  
www.pol-eko.com.pl

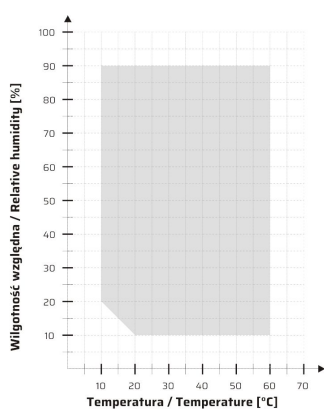
POL-EKO A. Polok-Kowalska sp.k.  
44-300 Wodzisław Śląski  
ul. Kokoszycka 172 C

## TECHNICAL DATA

|                      |                             |
|----------------------|-----------------------------|
| air convection       | forced                      |
| chamber capacity [l] | 1564                        |
| working capacity [l] | 1326                        |
| controller           | microprocessor PID          |
| display              | 7" full colour touch screen |

## TEMPERATURE AND HUMIDITY

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| temperature range [°C]                          | 0...+60                         |
| temperature resolution every ... [°C]           | 0,1                             |
| temperature variation at 25°C and 60%rH [±,°C]* | 1                               |
| temperature protection                          | class 3.3 to DIN 12880          |
| relative humidity range [%]                     | 10...90 (see chart for details) |
| humidity resolution every ... [%]               | 0,1                             |
| humidity variation at 25°C and 60% rH [%rH]     | 2                               |



## CHAMBER

|                 |                                                                   |
|-----------------|-------------------------------------------------------------------|
| door type       | double (external solid, internal glass) / external glass (option) |
| <b>interior</b> |                                                                   |
| Smart PRO       | corrosion-resistant stainless steel to DIN 1.4301                 |
| IG Smart PRO    | corrosion-resistant stainless steel to DIN 1.4301                 |
| <b>housing</b>  |                                                                   |
| Smart PRO       | powder coated sheet                                               |
| IG Smart PRO    | stainless steel linen finish                                      |



POL-EKO®

(+48) 32 453 91 70  
info@pol-eko.com.pl  
www.pol-eko.com.pl

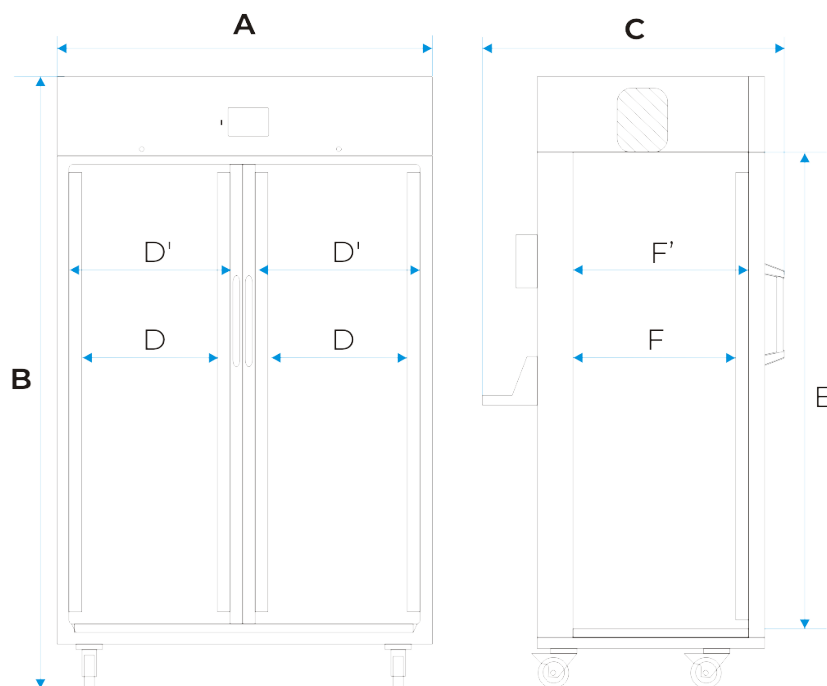
POL-EKO A. Polok-Kowalska sp.k.  
44-300 Wodzisław Śląski  
ul. Kokoszycka 172 C

overall dims [mm] / 1/

|          |      |
|----------|------|
| width A  | 1440 |
| height B | 1920 |
| depth C  | 1130 |

internal dims [mm]

|          |         |
|----------|---------|
| width D  | 2 x 545 |
| width D' | 1340    |
| height E | 1410    |
| depth F  | 690     |
| depth F' | 800     |



|                                          |            |
|------------------------------------------|------------|
| shelves (standard   max)                 | 2 x 3   11 |
| max shelf workload [kg] /2/              | 30         |
| - reinforced shelf version (PW) [kg] /3/ | 100        |
| max unit workload [kg]                   | 300        |
| weight [kg]                              | 230        |

ELECTRICAL PARAMETERS

|                   |              |
|-------------------|--------------|
| voltage           | 230V 50/60Hz |
| nominal power [W] | 2500         |
| refrigerant       | R290 / GWP=3 |
| warranty          | 24 months    |
| manufacturer      | POL-EKO®     |

all the above technical data refer to standard units (without optional accessories)

\* - 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

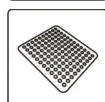
3 - reinforced shelf

## OPTIONS AND ACCESSORIES



Order number: \*/P INOX

Stainless steel wire shelf INOX



Order number: \*/PP

Perforated shelf



Bank: ING BŚ o/Wodzisław Śląski | Nr rachunku: 90 1050 1403 1000 0022 0879 5498  
NIP: 647-216-26-87 | REGON: 276111984 | KRS: 0000083696 | Nr rej. w BDO 000005609



POL-EKO®

(+48) 32 453 91 70  
info@pol-eko.com.pl  
www.pol-eko.com.pl

POL-EKO A. Polok-Kowalska sp.k.  
44-300 Wodzisław Śląski  
ul. Kokoszycka 172 C



Order number: \*/PW

Reinforced shelf



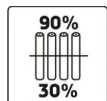
Order number: KUW GN\*/\*

Stainless steel cuvettes



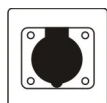
Order number: \*/FIT

Phytotron system



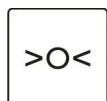
Order number: FIT/R3

FIT panels independent control



Order number: GNZ

Internal socket



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

Calibration and IQ, OQ, PQ qualification



Order number: RFID LOCK (SMART PRO)

RFID LOCK (SMART PRO)



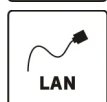
Order number: BPP 12

Battery backup for display



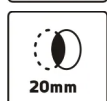
Order number: PORT ALARM

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: 05-1200-0803-0000002

Tank with a wide inlet



Order number: 05-1200-2008-0500001

RO6 System - reverse osmosis kit