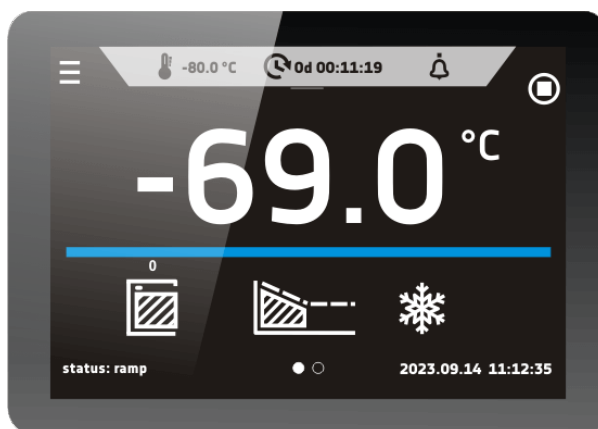# Data sheet

VDW

Crucial Temperature Solutions

Ultra-Low Freezer
ZLN-UT 500 VIP 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

(+48) 32 453 91 70

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

TECHNICAL DATA

air convection	natural
chamber capacity [l]	482
number of boxes 133x133x50mm (option) [pcs]	352
controller	microprocessor PID
display	4,3" full colour touch screen
insulation type	vacuum - VIP panels

TEMPERATURE

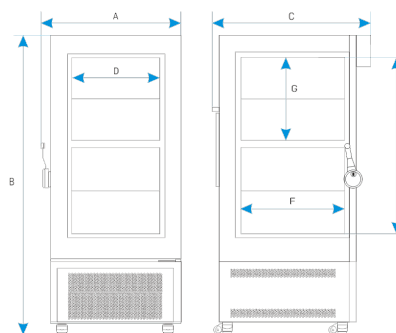|	
temperature range [°C]	-86...-50
temperature resolution every ... [°C]	0,1
cooling time from +20°C to -80°C [min]	210
heating time in case of power failure -80°C to -60°C [min]	90
temperature fluctuation at -80°C [+/-°C]*	1,4
temperature variation at -80°C [+/-°C]*	3,5

CHAMBER

door type	solid
interior	
C Smart	stainless steel to DIN 1.4016
P Smart	acid-proof stainless steel to DIN 1.4301
housing	
C Smart	powder coated sheet
P Smart	powder coated sheet

overall dims [mm] /1/	
width A	880
height B	2000
depth C	960
internal dims [mm]	
width D	620
height E	1380
depth F	580
height G	670

shelves (standard | max)	4 | 4
max shelf workload [kg] /2/	10
number of internal chambers	2
max unit workload [kg]	85
weight [kg]	243

POL-EKO Perfect Environment

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ELECTRICAL PARAMETERS

voltage**	230V 50-60Hz
nominal power [W]	2100
refrigerant	R290 / GWP=3	R170 / GWP=6
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

** - 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

OPTIONS AND ACCESSORIES

LAB DESK	Order numberLabDesk	LabDesk software
ALARM	Order number: PORT ALARM	Dry alarm contact
LAN	Order number: LANK	LAN cable
(((•)))	Order number: KD	Access control
CO₂ BACKUP	Order number: ZLN-UT/CO2	CO_2 back up system
	Order number: ZLN-UT/STP12 / 16	Boxes for samples
	Order number: ZLN-UT/ST12 / 16	Rack with drawers

Bank: ING BŚ o/Wodzisław Śląski | **Nr rachunku:** 90 1050 1403 1000 0022 0879 5498 | **Nr rej. w BDO** 000005609
NIP: 647-216-26-87 | **REGON:** 276111984 | Sąd Rejonowy w Gliwicach, X Wydział Gospodarczy | **KRS** 0001009595

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