



Storage Cabinet



Outstanding performance

The PD Series is equipped with a dynamic drying unit U-2000. Engineered for medium to long-term constant low humidity storage of ≤ 2 %RH.

Humidity, temperature, alarm functions are shown and can be adjusted on a digital display.

The circulation of air in the cabinet is regulated through an integrated fan.

All surfaces are ESD coated in conformity with current ESD 61340-5-1 standard.

The PD 151-21 is ideal for the moisture-proof and anti-oxidation storage of wide-ranging technologies and conforms with IPC/JEDEC J-STD 033C & IPC-1601.



Standard Features

Accuracy of sensor RH% & T°C	+/- 3% RH, +/- 0,3°C
ESD safe design	Norm (IEC 61340-5-1) ESD metal painted body (<10 ⁶ Ohm/sq) Dissipative glazing (in- and outside 10 ⁸ Ohm/sq)
Door alarm buzzer	Longer door openings are detected
Lockable doors	2 doors locked with key
Shelves	In height adjustable chrome steel shelves (3 pcs)
1 series digital display	Very convenient settings of RH%, temperature, alarm and calibration functions.
Drying unit	U-2000 drying unit
ESD bonding point	ESD wristband can be connected to the cabinet
Pre mounted holes	For nitrogen unit & heater
Power supply	Power cord 5 meter with IEC plug

Benefits

Datalogging	Through network with software (optional)
Recovery time after door opening	<30 minutes to below 5% (by 1 door opening)
Highly energy efficient	Average power consumption 35 W/h.
Option availability	N ₂ auto flow, heating, SMD reel racks, etc.
IPC	According to IPC-JEDEC J-STD 033C & IPC-1601
Temperature	Maximal up to 40°C (optional)
Maintenance	The drying unit is maintenance free, easy to service

Technical data cabinet

- External dimensions: (W x H x D) 500 x 630 x 580 mm
- Internal dimensions: (W x H x D) 490 x 560 x 450(530) mm
- Weight: 37.1 kg
- Weight on shelf: 30 kg
- Max. loading capacity: 100 kg
- Body: Steel, conductive coated $10^8 \Omega/\text{sq}$
- Shelves (WxD): 4 pcs, 468 x 380 mm adjustable.
- Volume: 320 L
- Electric supply: 230 VAC (120 VAC optional)
- Power consumption: Average 35 W/h (excl. heating)
- Protection class: Class 1, hard grounded

Technical data type 1 display

- Nominal value humidity
- Nominal value humidity alarm (light)
- Delay time humidity alarm
- Nominal value temperature
- Door alarm buzzer
- Offset possibilities

Technical data dry-unit U-2000 series

- Control: Adjustable with control panel type 1
- Dehumidifying Temperature: 10 – 40° C
- Electric supply: 230 VAC (120 VAC optional)
- Dimensions (L x B x H): 260 x 380 x 100 mm
- Weight: 8,1 kg

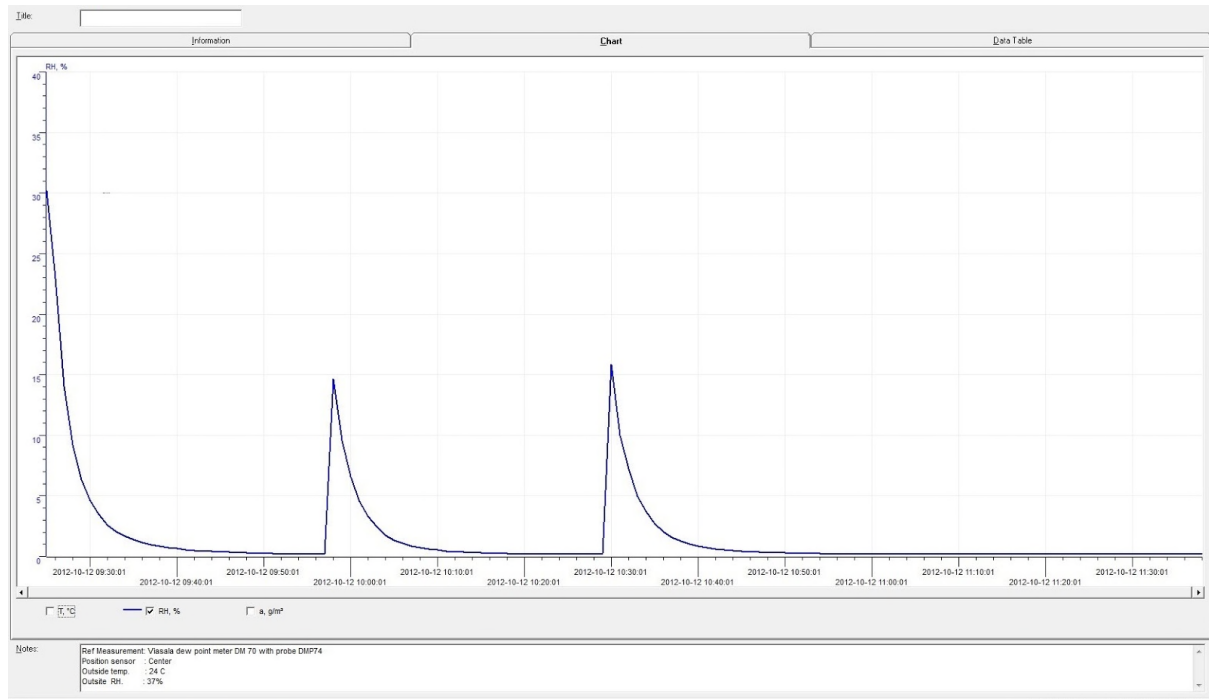
Technical data heater PH 230-1

- Voltage: 230 VAC / 50 Hz (120 VAC / 60 Hz optional)
- Power: 530 W
- Temperature sensor: PTC 100
- Thermal protection: 90 °C
- Temperature range: 30 - 40 °C
- Air flow: 86 m³/h
- Display tolerance: 1 digit at 25 °C

Technical data N² (Auto) Flow

- N² connection: 8mm hose connection
- N² pressure: 1 - 6 bar
- N² standby amount: 0 - 25 L/min
- N² purge: 0 - 25 L/min
- Purge time: 0 - 99 min

Performance test



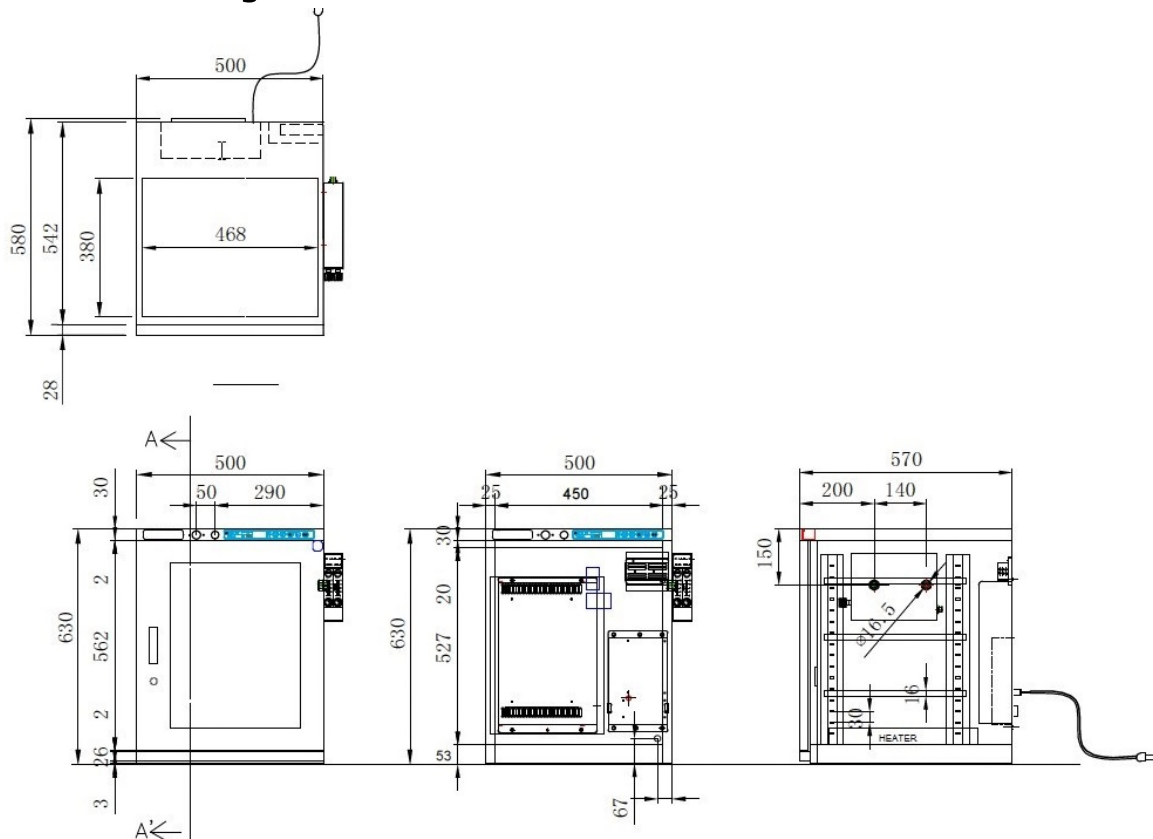
Test conditions

- Instrument: Vaisala
- Type of dew point sensor: Vaisala drycap 180M
- Accuracy of dew point sensor: $\pm 0,2^{\circ} \text{C}$ at $+ 20^{\circ} \text{C}$ ($+ 68^{\circ} \text{F}$)

- Location of sensor: In the direct surroundings of the cabinet sensor
- Ambient conditions: Hum. $50 \pm 5\% \text{ rH}$, $22^{\circ}\text{C} \pm 2^{\circ}\text{C}$, Pressure $994 \pm 20 \text{ hPa}$
- Door openings: 2 door openings, 15 sec. (average RH 0,70%)



Technical drawings



Dimensions mentioned in mm.

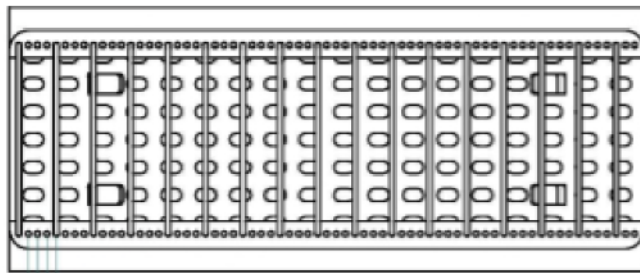
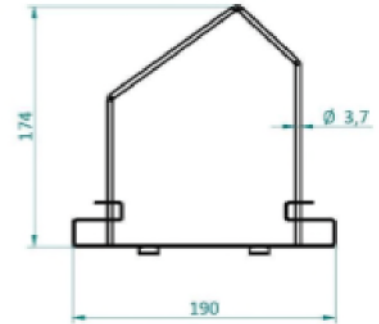
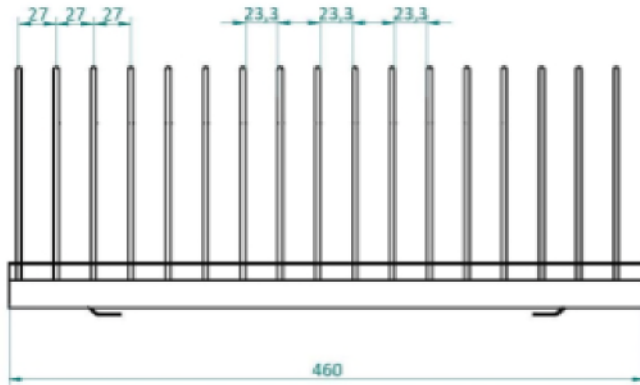
Shelves

Number of different types of shelves that can be mounted in the cabinet

Number of shelves bottom section	1	2	3
Distance (in mm) between shelves if equally divided in bottom section	x	165	103
Remaining space between top shelf and middle beam	295	155	120
Remaining space between bottom shelf and bottom cabinet	265	175	145
Loading capacity shelves m ² (1155 mm x 780 mm)	0,18	0,35	0,53

Measurements can slightly deviate.

Technical drawings

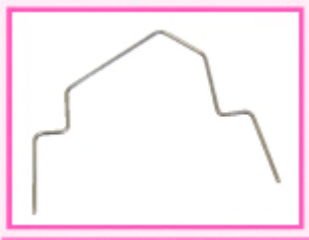


Options



SMD Reel rack with reel supports
460 mm length.

Item number 20014000



Reel support
Additional reel supports for 20014000.

Item number 20014200



Humidity alarm signal lamp
One color (orange or red), magnetically fixed, providing optical signals on operational states and exceeded limit values. Operates on 24V.

Item number 20016033



N² Autoflow system
The autoflow system is developed to use in combination with a drying cabinet. The device is used for the quick removal of moisture in the cabinet after the doors have been opened. The drying process is realised by using Nitrogen (N²), which is purged automatically after the doors are closed. (timer controlled)

Item number 22613001



Heater SH 230-1
40°C heater

Item number 21001300

Options



Shelf standard

Chrome steel shelf, short:
Item number 20030210

Chrome steel shelf, long:
Item number 20030202



Set main spare parts PD cabinet

Set includes the main spare parts of the PD cabinet: Dry-unit
U-2000, Main PCB and Power Supply
Item number 30006099

Exchange set main spare parts PD cabinet:
Item number 30006096



Pro Dry Data Logger

Highly accurate data logger with standard Ethernet interface.
Compatible with the Free Viewer and Monitor software.

Item number 47000582

Pro Dry BV
info@prodry-asy.com

For more information visit
www.prodry-asy.com

Subject to change without notice.

Some general descriptions and performance characteristics may not be applicable to all products. Technical specifications are subject to change without notice. Only features and technical data provided in purchasing contract are legally binding.

v18.02