

MSD-1202-52 Dry Cabinet >technical Productpage<

Our dry cabinet MSD-1202-52 has been designed to store components, and simultaneously protect them from humidity and oxidation. Our dynamic dry unit of series U 5000 ensures quick dehumidification after door opening, and is particularly suitable for use comprising regular access. MSD cabinet series ensures ideal storage conditions at relative humidity below <math><0.5\% \text{ RH}</math>, achieved with efficient energy consumption. Its innovative modular design allows for extending storage capacities by putting cabinets together at any time. Additional cabinet components or dry units can be integrated with the cabinet system as needed. The cabinet will grow with your needs.



Features

Shelves - The dry cabinet has been equipped with 4 extendable coated ESD shelves. Each of them features a carrying capacity of max. 50 kg.

Control - The clearly arranged and user-friendly text display provides for an easily readable measured value (monitoring) and plain text display of all relevant indications. Data input is made on an integrated control panel. Nominal humidity and temperature values as well as limit values for integrated alarms can thus be set reliably and conveniently.

Alarm - If set parameters are not achieved or exceeded, acoustic alarm will be triggered. Alarm is also triggered if the door has been opened for too long. Optionally available: external signal tower for visual indication of operational states and alarm signals. E-mail and SMS notification are available.

Sensor - The cabinet's high-performance sensor features accuracy of $\pm 1\% \text{ RH}$ (optionally available: $0.6\% \text{ RH}$). The sensor's intelligence operates with continuous auto-analysis and will automatically correct measuring error (auto-calibration). A data logger, integrated with the sensor, records humidity and temperature. The optionally available software allows for reading it out via the serial interface, if necessary.

Dry Unit - Series U-5000 ensures silent and maintenance-free operation with dynamic regeneration if necessary. In case the cabinet is not being opened, the dry unit requires no regeneration. Its energy consumption is thus reduced to a minimum. If frequent door opening results in higher humidity, regeneration cycles and their duration are automatically adjusted to respective conditions.

ESD Protection - All surfaces of the dry cabinet as well as the door's glass inserts are electrically conductive, and provide protection from harmful discharges.

Optional Equipment

Data Monitoring - Apart from reading out the integrated data logger, serial RS232 interface facilitates the establishment of online connections to PCs. By network integration, the data of several cabinets can thus be recorded online. Additionally, alarm notification in the event of exceeded limit values (e.g. via e-mail or SMS) can be activated.

Ventilation/Heating - as bypass channel for forced convection or temperature increase of up to 40°C .

Signal Lamp - two-color, magnetically fixed, providing optical signals on operational states and exceeded limit values.

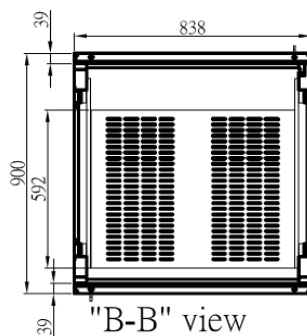
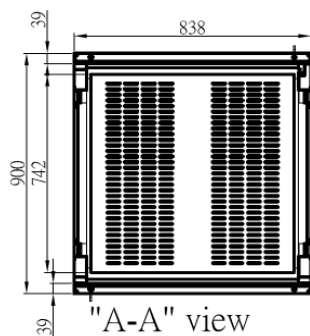
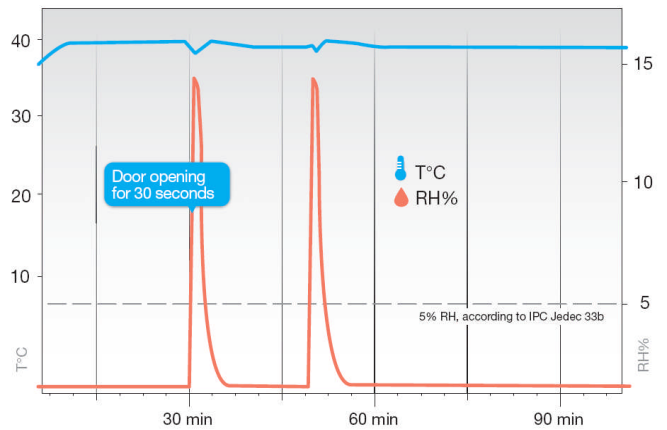
Nitrogen Unit - manual or with automatic rinse function upon cabinet opening. Ideally suitable to quickly achieve set nominal values at low N_2 -consumption.

Shelves - extractable, ESD coated or made from stainless steel; shelf separators as storage organization system and storage system for SMD Reels.

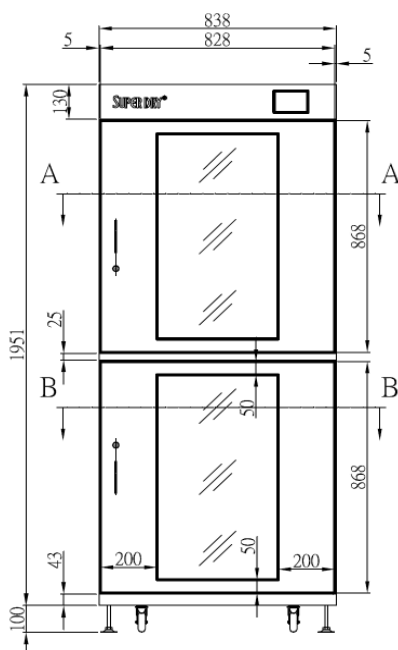
Technical Data

External dimension: (BxHxT): 840 x 2040 x 900 mm
 Internal dimension: (BxHxT): 760 x 1780 x 850/730 mm
 Weight: 150 kg
 Weight on shelf: 50 kg
 Dimensions shelf (WxD): 2 Stk. 740 x 742 mm
 2 Stk. 740 x 592 mm
 Volume: 1200 l
 Voltage: 230 V, 50 Hz, 1200 W max
 120 V, 60Hz
 Power Consumption: 31 W/h
 RH%: <0,5 % RH
 Sensor Accuracy: ± 1 % RH, $\pm 0,3^{\circ}\text{K}$
 Heater : max 40°C (optional)
 N²-Flow: 0 – 120 L/min (optional)

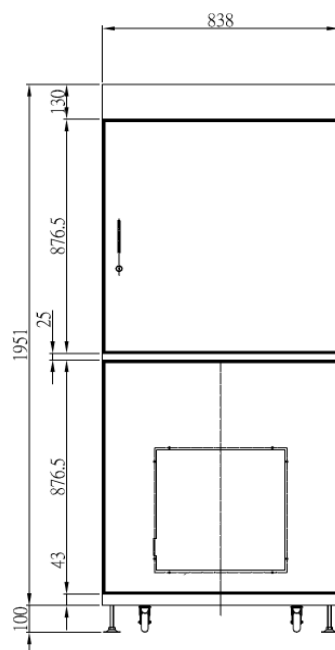
Diagram



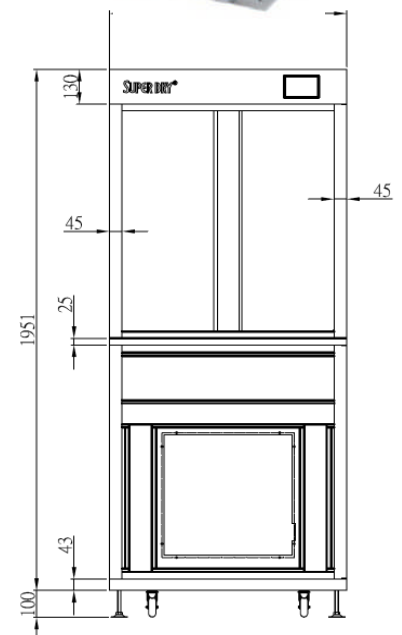
Heater
max. 40°C



front view



back view



top view without front doors