

SOVTEST

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SOVTEST DRY BOXES

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SDB 151

SDB 302

SDB 702

Sovtest Dry Boxes (SDB) Model Overview

Model	SDB 151*	SDB 302*	SDB 306	SDB 702*	SDB 1106*	SDB 1560
Number of doors	1	2	2	3	6	4
Dimensions, W*H*D mm	500*642*560	500*1235*560	1005*642*560	500*1829*560	1005*1829*560	1202*1582*933
Effective Capacity, l	164	327	350	502	989	1600
Number of shelves	3	5	6	7	10	4
Number of drying units	1	1	1	1	2	2
Weight, kg	40	60	65	80	160	250

*The selected models are available in Extra Capacity Version SDB NM

SOVTEST DRY BOXES



SDB 1106

SDB 306



SDB 1560

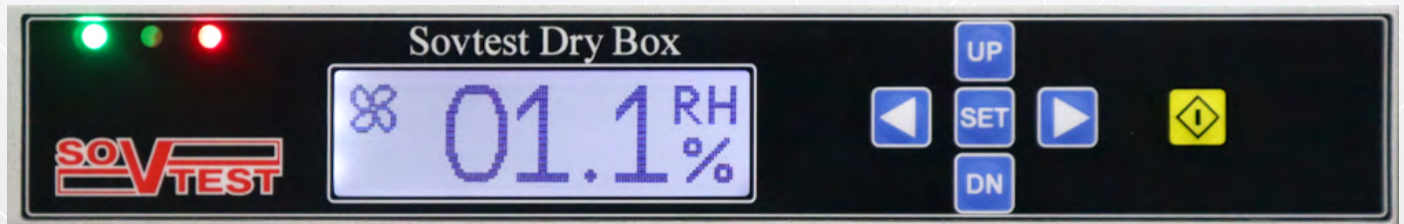
Humidity range	1-50% Rh (tolerance $\pm 1\%$)
Drying agent	Automatically regenerated absorbent Zeolite NaA
Control and Monitoring	High Precision Censor, Digital Control Panel
Design	ESD Safe
Open door alarm buzzer	Integrated
IP protection class	IP65
Supply voltage	220 \pm 20 V, 50Hz
Recovery time	5 min
Time to reach set humidity value after start-up	≤ 3 hours
Power consumption in storage mode (without additional equipment)	≤ 8 W
Power consumption in drying mode (without additional equipment)	≤ 20 W (for 1 drying unit) ≤ 40 W (for 2 drying units)
Power consumption in regeneration mode (without additional equipment)	≤ 285 W (for 1 drying unit) ≤ 540 W (for 2 drying units)
Max weight on shelf	50 kg (100 kg for Model SDB1560)
Color	RAL 7035 (Light Grey)

SDB (Sovtest Dry Box) series dry storage cabinets manufactured by Sovtest ATE provide storage and moisture protection for a wide range of moisture sensitive components including integrated circuits, semiconductors, printed circuit boards, LEDs & LDs, precision metal parts, optical equipment, laboratory samples, etc.

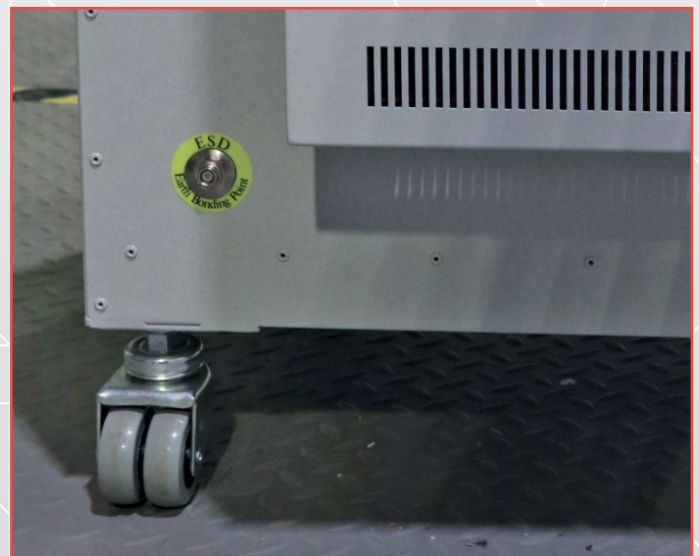
The cabinets maintain internal humidity range of **1-50%RH (tolerance $\pm 1\%$)**. Humidity and temperature are controlled by the **integrated high-precision sensor** with digital interface.

A **highly efficient drying unit** mounted on the outside of the cabinet creates a drying cycle with a maximum rate of moisture absorption.

Humidity and temperature parameters are displayed and set on the **digital control panel with LCD**. The control panel has 5 buttons and is **easy-to-operate**. The cabinet operating mode can be easily checked by colored **LED indicators**. The cabinets are equipped **with open door alarm buzzer**.



All SDB Series cabinets are **completely ESD safe** in compliance with IEC 61340-5-1 regulations. All metal elements are coated with electrostatic paint (conductivity 10^5 - 10^8 Ohm) and grounded.



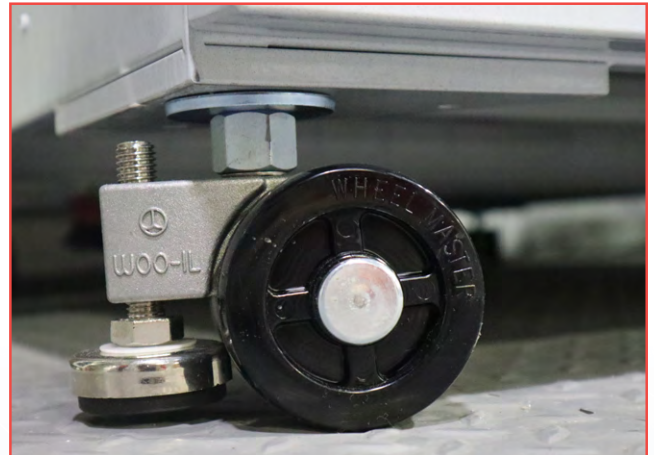
High quality of our products is achieved by the **in-process control of each cabinet** at all production stages (material inspection, assembly control, ESD test, functional test). Each cabinet is tracked during production by serial number as required by ISO 9001:2015.

All models except for SDB 151 and SDB 306 are equipped with a set of **ESD wheels combined with supporting swivels** of adjustable height.

SDB cabinets feature **rational energy consumption** and **low noise level**.

Dust- and waterproof design provides **IP65 protection class** against external impacts according to EN 60529. Each door has a separate key to prevent unauthorized access.

Perforated shelves enable the most efficient air circulation within the cabinet.



EXTRA CAPACITY VERSIONS

Extra capacity versions are available for the selected SDB models.

SDB NM Series Model Overview

Model	SDB 151 NM	SDB 302 NM	SDB 702 NM	SDB 1106 NM
Number of doors	1	2	3	6
Dimensions W*H*D, mm	602*642*680	602*1235*680	602*1844*680	1204*1844*680
Effective capacity, l	235	470	708	1350

PERFORMANCE

	3 Door Cabinet with 1 Drying Unit (SDB 702/ SDB 702 NM)	1 Door Cabinet with 1 Drying Unit (SDB 151 / SDB 151 NM) and 6 Door Cabinet with 2 Drying Units (SDB 1106 / SDB 1106 NM)
Time to Reach Set Humidity Level (50% Rh to 1% Rh)	≈ 1 h 20 min	≈ 1 h 20 min
Time to Reach Set Humidity Level (50% Rh to 5% Rh)	≈ 30 min	≈ 30 min
Recovery time to <10% Rh after 10 sec. door opening	≈ 5 min	≈ 5 min
Recovery time to <5% Rh after 10 sec. door opening	≈ 9 min	≈ 11 min
Recovery time to <3% Rh after 10 sec. door opening	≈ 21 min	≈ 21 min
Recovery time to <1% Rh after 20 sec. door opening	≈ 40 min	≈ 30 min

Ambient Conditions: 23,8 °C, Humidity 54,2% Rh, Pressure 98,5 kPa

Notice: Time to Reach Set Humidity Level may vary at the first start-up after transportation depending on the moisture amount in the drying agent



1. **Automatic N2 flow unit.**
This system enables the following:
- a) to quickly remove high humidity air from the inside the cabinet after the door opening
 - b) storage in high N² environment to prevent oxidation
- Can be fitted with N² sensor



2. **Heating unit up to +40°C.** The heating unit maintains temperature inside the cabinet up to +40°C to reduce the risk of electronic parts oxidation.



3. **Light tower indicating** Cabinet operating mode (in addition to default LED indicators)



4. **Reinforced shelves** (100 kg max loading) or **stainless steel shelves**

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