



Electrostatica

Research to Result, Engineered to perfection

DE HUMIDITY/ ESD SAFE/ DRY STORAGE CABINETS



MAKE:- ElectroStatica
MODEL NO:- DC-01

Intro:

ElectroStatica manufactures high-performance Dehumidifier Cabinets (also known as Dry Storage Cabinets) designed to protect moisture-sensitive components from humidity damage. Our cabinets are widely used in electronics, semiconductors, laboratories, pharmaceuticals, optics, and defense industries across the globe. These cabinets provide ultra-low humidity environments ideal for long-term storage, quality preservation, and compliance with international standards like IPC/JEDEC J-STD-033.

From compact benchtop dry cabinets to large industrial models, we offer fully customizable solutions for ESD-sensitive equipment, lab materials, and mission-critical defense components.

What is a Dehumidifier Cabinet?:

A Dehumidifier Cabinet is a sealed, humidity-controlled enclosure used for storing sensitive materials in low RH (Relative Humidity) conditions. It prevents corrosion, oxidation, and moisture-related degradation of electronic components, lab samples, optical parts, and packaged products. These cabinets are essential for industries that demand strict environmental stability and material protection.

Key Applications:

Electronics & Semiconductor Industry:

- Moisture-safe storage of ICs, PCBs, SMDs, BGA & QFN components
- Compliant with IPC/JEDEC J-STD-033 for MSDs (Moisture-Sensitive Devices)
- Prevents “popcorn effect” during reflow soldering

Pharmaceutical & Biotech Labs:

- Preserves moisture-sensitive powders, capsules & biological samples
- Dry storage of reagents and sterile packaging
- Ideal for long-term shelf-life and quality assurance

Optical Instruments & Defense

- Anti-moisture storage for lenses, sensors, UAV parts & defense electronics
- Used in aerospace, satellite R&D, and military communication systems

Industrial & Packaging

- Protects moisture-reactive raw materials
- Ensures dryness during transport and extended warehousing

Key Features & Benefits:

Ultra-Low Humidity Control

- Adjustable RH levels: <1% to 50%
- Rapid dehumidification with automatic regeneration

Digital Intelligent Control

- High-accuracy humidity sensors
- Touchscreen or LCD controls with programmable settings

Custom Sizes & Volumes

- Available in 400L to 1500L+
- Customized layouts

ESD-Safe Construction

- Antistatic coating & grounding for sensitive electronic parts
- Data logging via USB / Ethernet

Energy-Efficient Performance

- Eco-friendly operation using thermoelectric or desiccant systems
- Low power consumption with silent operation

Technical Specifications:

| Parameter | Standard Specification | Optional Upgrades |
|-------------------|--------------------------------------|--|
| Humidity Range | 2% to 50% RH (adjustable) | Auto drying below 1% RH |
| Cabinet Sizes | 400L to 1500L+ | Custom-built dimensions |
| Shelves | Stainless steel or anti-static trays | Slide-out adjustable shelving |
| Humidity Sensor | High-precision $\pm 2\%$ RH accuracy | Remote display with 7-day logger |
| Display | LCD or digital control panel | Touchscreen with multi-zone control |
| Material | Powder-coated CRCA steel | Stainless steel, ESD coating available |
| Power Consumption | <40W (avg.) | Energy saver mode |
| Doors | 1 to 6 | As per requirement |

Why Choose ElectroStatica?

Globally Trusted Manufacturer:

We Manufacture Dry Cabinets to Defense Labs, Research Centers, EMS facilities, and PCB manufacturing units in 30+ countries including the US, Europe, UAE, and Southeast Asia.

Custom Engineering Solutions:

Whether you need nitrogen-purged, UV-protected, or cleanroom-compatible cabinets – we build tailor-made systems to meet your exact environmental needs.

Data Compliance & Security:

Our smart cabinets support advanced data logging, audit trails, password protection, and CFR 21 Part 11 validation for regulated environments.

THANKYOU

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