

CDS-5-XT CYTOGENETIC DRYING SYSTEM

Accurate and Repeatable Chromosome Spreading

The Thermotron CDS-5-XT provides the optimum controlled temperature and humidity environment for ideal chromosome spreading results. Favorable chromosome spreading results can be obtained for both in situ and non-in situ cultures including PHA-stimulated lymphocytes, bone marrow, amniocytes, and fibroblasts.

- Facilitates accurate and repeatable chromosome spreading results
- Enhances test results for both in situ and non-in situ situations
- Useful for hemostasis, amniocentesis, bone marrow, and tissue sample tests
- Door design provides easy access to workspace, providing maximum visibility
- Temperature and humidity uniformly controlled throughout the workspace
- Quickly reaches test condition, minimizing stabilization time
- Air baffles limit the effects of inconsistent airflow in the slide preparation area
- Ergonomically configured for a more comfortable work environment



Developed in Cooperation with Mayo Clinic

The CDS-5 line of chambers facilitates reliable and repeatable chromosome spreading as evidenced in research conducted by the Cytogenetics Laboratory at the Mayo Clinic. Mayo's research revealed that optimum metaphase areas can be achieved at various controlled combinations of temperature and humidity. The use of an environmentally controlled drying system is a practical and cost-effective way of achieving ideal chromosome spreading in a routine and highly consistent manner.

Designed for Cytogenetic Technologists

Developed in cooperation with cytogenetic technologists, the CDS-5-XT has many beneficial features. Specially designed arm ports provide maximum comfort and maneuverability inside the workspace. A full-view polycarbonate door and interior light allow complete visibility of the entire workspace, making precise tasks easier to accomplish. The door lip acts as a convenient storage space for supplies. Our cytogenetic drying system operates quietly and releases minimal amounts of heat. The system's design optimizes the width of the workspace and limits the overall exterior dimensions. Casters accommodate movement into and throughout the laboratory. It is ergonomically designed for technologists to prepare slides in the standing or sitting position.

Optimum Environmental Performance and Control

The CDS-5-XT's temperature, humidity, and airflow systems are designed to optimize control and consistency to reach desired slide drying conditions in a minimal amount of time. A wide range of temperature and humidity conditions (20°C to 40°C and 25% RH to 75% RH) lend to the equipment's versatility. Air baffles limit the detrimental effects of inconsistent airflow over the slides. Providing uniform airflow throughout the entire workspace prevents slides from drying too slowly or too quickly. Annoying fixative fumes can be removed from the workspace via an exhaust port.

Adapts to Changing Needs

To accommodate workflow where cytogenetic drying is an occasional need, the transparent front of the CDS-5-XT can be removed to accommodate a solid plug. This enables more traditional chamber operation up to 70°C (baking) or down to -28°C (cold storage) with the same control and precision used in the standard CDS process.

8200+ Touchscreen Programmer Controller

The enhanced 8200+ Controller features an intuitive, color touchscreen display, with quick and efficient performance. Users can securely and easily enter, control, and monitor precise temperature and humidity conditions with a familiar Windows®-based interface, complete with graphing capabilities and a USB port for uploading and downloading data.

Useful Accessories Enhance Productivity

To efficiently use the full depth of the workspace, half-depth shelving can be provided, allowing trays of prepared slides to be set out of the way. A flask holder can be supplied to secure an aspiration flask on the outside of the CDS-5-XT in order to free up additional workspace. Optional accessories such as circular chart recorder, vacuum pump with flask, and an exhaust fan to connect to a secondary (or building) vent system can be added to the CDS-5-XT to increase its utility.

Worldwide Service and Support

Our worldwide service centers and technical support staff provide responsive service after the sale for the life of your equipment. Factory-trained field service engineers and a complete inventory of standard parts and components are available to keep your equipment running.

GENERAL SPECIFICATIONS

Operating Mode	Cytogenic Drying	Extreme Temperature
Temperature Range	+20°C to +40°C / +68°F to +104°F	-28°C to +70°C / -18°F to +158°F
Temperature Control	±0.3°C / ±0.5°F	
Temperature Uniformity	±0.7°C / ±1.25°F	
Humidity Range	25% RH to 75% RH limited by a 5°C (41°F) dewpoint	No humidity control
Dewpoint Range	+5°C to +23°C / +41°F to +73°F	No humidity control
Humidity Control	±3% RH	No humidity control
Interior Dimensions — W x D x H Inches Centimeters	28 x 18 x 19 71 x 46 x 48	
Interior Workspace Volume	5.5 cubic feet / 156 liters	
Viewing Area — W x H Inches Centimeters	Polycarbonate window provides visibility into the workspace. 24 x 18 61 x 46	Opaque insulated plug
Exterior Dimensions — W x D x H Inches Centimeters	46x28x60 117x71x152	
Refrigeration Compressor	1/3 HP single-stage, air-cooled	
Chamber Heater	918 Watts	
Humidity Heater	1,000 Watts	Not active
Electrical Service 115 / 1 / 60 220 / 1 / 50 (coming soon!)	10' long power cord with plug is included with the chamber 20-Amp Service 20 Full Load Amps 10 Full Load Amps	
Shipping Weight — Pounds / Kg	472 / 214	

Performance is based on 60 Hz and laboratory ambient conditions of 23.9°C (75°F) ambient air, and may vary slightly on 50 Hz power or at other temperature levels. Chambers are designed for use under normal laboratory operating conditions. For other applications, please consult Thermotron.

It is Thermotron's understanding that the unit will be used in a non-hazardous environment. The unit is not designed for use with or for the purpose of processing hazardous materials. If hazardous materials are involved, please consult the factory for an alternative quote for a properly designed unit.

Specifications subject to change without notice.

For more than 60 years, Thermotron has provided quality environmental test equipment. We've worked to establish a trusted reputation among our peers, and when people hear the name Thermotron, they have confidence in the testing of their own product. We've been building our name since 1962; now it's your turn.

QUALITY. TRUST.
CONFIDENCE.

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