THERMOTRON®

CDS-5 CYTOGENETIC DRYING SYSTEM

Accurate and repeatable chromosome spreading testing

- **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 chamber**
- **Quickly reaches test condition, minimizing stabilization time**
- **Baffling minimizes the effects of airflow in the slide preparation area**
- **Ergonomically configured for a more comfortable working environment**

- **Developed in Cooperation with Mayo Clinic**

  The Thermotron CDS-5 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 fibroblast.

  The CDS-5 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 incorporates many beneficial features. Specially designed arm ports provide maximum comfort and maneuverability inside the workspace. A full-view polycarbonate door and interior light allows complete visibility of the entire workspace, making precise tasks easier to accomplish. The door lip acts as a convenient storage space for supplies.

- **Adapts Easily to Laboratory Surroundings**

  Our Cytogenetic Drying System is ideal for laboratories because it 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 are incorporated to accommodate movement into and throughout the laboratory. The chamber is self supported by a base that provides a comfortable work station, ergonomically designed for technologists to prepare slides in the standing or sitting position.

■ Optimum Environmental Performance and Control

The CDS-5'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 chamber's versatility. Baffling is provided in the top and bottom of the chamber to limit the effect of airflow over the slides and to provide uniform gradient specs throughout the workspace. Annoying fixative fumes can be removed from the workspace via an exhaust port.

■ 3200 Touch Sensitive Programmer Controller

The 3200 programmer controller's interactive touch sensitive keypad and informative four line display with 20 characters per lines makes temperature and humidity setpoint entry and monitoring easy. Built-in Ethernet connection allows easy computer interface for PC control and recording test 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 to the outside of the chamber and free-up additional workspace area. Optional accessories such as refrigeration gauges, circular chart recorder, computer interface, vacuum pump with flask, and an exhaust fan to connect to a secondary (or building) vent system can be added to the chamber 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 chamber. Factory-trained field service engineers and a complete inventory of standard parts and components are all designed to keep your equipment running. We can also provide overnight delivery on emergency parts if needed.

CDS-5 CYTOGENETIC DRYING CHAMBER SPECIFICATIONS

Temperature Range	+20ºC to +40ºC / +68ºF to +104ºF
Temperature Control	±0.3ºC / ±0.5ºF
Temperature Uniformity	±0.7ºC / ±1.25ºF
Humidity Range	25% RH to 75% RH limited by a 5ºC (41ºF) dewpoint
Dewpoint Range	+5ºC to +23ºC / +41ºF to +73ºF
Humidity Control	±2.5% RH
Humidity Uniformity	±1.0% RH
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	32 x 23 / 81 x 58 Polycarbonate viewing window provides full frontal visibility into the workspace.
Exterior Dimensions — W x D x H Inches / Centimeters	43 x 28 x 56 / 109 x 71 x 142
Refrigeration Compressor	1/4 HP single stage, air-cooled, HFC refrigerant
Chamber Heater	918 Watts
Humidity Heater	1,000 Watts
Electrical Service 115 / 1 / 60 220 / 1 / 50	 20 Amp Service (14.9 Full Load Amps) 8 Full Load Amps 10' long power cord with plug is included with the chamber
Shipping Weight — Pounds / Kg	450 / 204
Materials of Construction	Stainless Steel Interior Epoxy painted sheet metal exterior Polycarbonate door

Performance is based upon 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.

THERMOTRON®

THERMOTRON INDUSTRIES
291 Kollen Park Drive
Holland, Michigan 49423
(P): (616) 393-4580
(F): (616) 392-5643
info@thermotron.com
www.thermotron.com

THERMOTRON INDUSTRIES, U.K.
Newton House
Winch Road
Kent Science Park
Sittingbourne, Kent
ME9 8EF England
(P): 01795 436333
(F): 01795 436777
sales@thermotron.co.uk