

CURING CABINET



Optimize your cement curing process with our Fully Automatic Computer Controlled Cement Curing Cabinet. Designed for precision and efficiency, this stainless steel cabinet provides ideal conditions for curing a wide range of materials, ensuring consistent and reliable results for commercial and site laboratories focused on cement specimen testing.



VTR 1025D



Cement Moisture Curing Cabinet

Full Automatic Computer Controlled

Overview

The included computer program enhances functionality by providing retrospective reports, setting temperature and humidity values, and viewing historical data. The software receives instantaneous readings from the cabinet's sensors, allowing for real-time monitoring and adjustments. Data can be saved to memory, and reports and graphs can be printed directly, facilitating thorough documentation and analysis.

The curing cabinet's design emphasizes energy efficiency through its recirculating water system and insulated construction. By reusing water from the sprinkler system and minimizing heat loss, the cabinet reduces operational costs and environmental impact.

Ideal for curing cement specimens, mortar, concrete cubes, and other materials that require controlled temperature and humidity conditions. The cabinet is suitable for both commercial laboratories and on-site testing environments, offering practicality and ease of use.

Key Features:

Precise Temperature Control: Maintains a consistent temperature range of 20 ± 0.5 °C using a sophisticated heating and cooling system controlled by an electronic unit. A high-precision temperature sensor monitors the conditions, sending real-time data to the computer software for adjustments.

Optimal Humidity Regulation: The integrated sprinkler system controls relative humidity levels between 60% and 98%, essential for proper curing. The system ensures the humidity is maintained from 95% to saturation, complying with standard curing conditions.

Independent Drawers: Features six drawers with slots at 4mm intervals for easy placement of prisms, ensuring they are no more than 5 mm apart as per standard requirements. Each drawer operates independently, allowing you to group samples with individual characteristics without cross-contamination.

Efficient Water Management: Equipped with a resting water tank that supports the heating and cooling system, the cabinet recirculates water from the sprinkler system back to the main tank for reuse, reducing water consumption and promoting sustainability.

Advanced Monitoring and Reporting: The cabinet includes sensors that measure the humidity and temperature of both the interior and the surrounding room. An electronic control system reads these values digitally and communicates with the computer software, enabling you to print reports, view past records, and set parameters easily.

Homogenized Air Circulation: An automatic fan system ensures uniform air distribution within the cabinet, providing consistent curing conditions throughout all compartments.

Compliance with Standards: Meets international standards [EN 196-1](#), [EN 459-2](#), [EN 1015-11](#), [EN 13454-2](#), and [EN 12390-1](#), ensuring that your specimens are cured under conditions that satisfy industry requirements.

Cement Moisture Curing Cabinet

Benefits:

- **Consistency:** Provides uniform curing conditions for all specimens, leading to more reliable test results.
- **Productivity:** Large capacity and independent drawers allow for curing multiple batches simultaneously without interference.
- **Data Management:** Advanced software aids in compliance reporting and quality control processes.
- **Safety and Compliance:** Adheres to CE directives and industry standards, ensuring safe operation and standard-compliant curing processes.

Key Features:

- **Customizable Settings:** Ability to adjust temperature and humidity set values according to specific testing requirements.
- **Upgradable Software:** Software can be updated or customized to include additional features as per user needs.
- **Remote Monitoring:** Optional integration with remote monitoring systems for off-site supervision and alerts.

TECHNICAL SPECIFICATION

Specification	Details
Material	Fully constructed from stainless steel
Capacity	Holds up to 990 prism molds and 24 steel molds
Dimensions (H × D × L)	1300 x 3000 x 2400 mm
Number of Doors	Double doors
Number of Drawers	4 or 6 or 8 user specified
Temperature Control Range	Maintains 20 ± 0.5 °C
Temperature Uniformity	±1 °C throughout the cabinet
Humidity Control Range	Relative humidity from 60% to 98%
Humidity Maintenance	From 95% to saturation via humidifier system
Heating/Cooling System	Rested water tank controlled by electronic unit
Temperature Sensor	6 High-precision sensor
Humidity Sensor	Sensors measuring cabinet and room humidity
Control System	Fully automatic, computer controlled with software
Data Monitoring	Real-time temperature and humidity readings
Air Circulation	Automatic fan system for homogenized air
Water Management	Recirculating system with water reuse
Compliance Standards	EN 196-1, EN 459-2, EN 1015-11, EN 13454-2, ASTM 109 C
Viewing Windows	Transparent glass on front doors
Safety Features	Compliant with CE directives
Construction Material	Chemical-resistant stainless steel structure
Power Supply	220 V 50 Hz
Fan System	Ensures uniform temperature and humidity distribution