

# **CLIMATIC CHAMBER**

Experience unparalleled accuracy in environmental testing with the Vector Environmental Test Chambers, designed to simulate real climatic conditions by precisely controlling temperature, humidity, and light cycles. Available in four sizes—120L, 250L, 400L, and 600L—these chambers cater to a wide range of industries and applications, providing the ideal environment for stability testing, artificial



## **VTR 1034**



# Vector Environmental Test Chambers

## Precise Simulation of Real Climatic Conditions

### Overview

Constructed with the highest quality materials, the interior of the chamber is made of stainless steel, ensuring resistance to corrosion and ease of cleaning. The exterior is crafted from epoxy-painted galvanized steel, preventing any adverse effects from high humidity levels. This robust construction guarantees maximum durability and reliability, even under the most demanding conditions.

The Vector Environmental Test Chambers feature powerful lamps protected by heat and moisture-resistant glass inside the door, providing daylight illumination for samples. The glass metal door allows for easy observation of specimens without compromising the controlled humidity and temperature inside the chamber. This design ensures that tests can be monitored in real-time without disturbing the environmental conditions.

For optimal insulation, the chambers are equipped with injected high-density polyurethane, which is crucial for maintaining efficiency across both cold and hot test temperatures. This insulation minimizes energy consumption and ensures consistent test results by preventing external temperature fluctuations from affecting the internal environment.

Additional features include electrostatic epoxy powder paint for enhanced durability, a locked door system for security, cabinet ventilation panels to maintain optimal air circulation, and a sealed gasket system to prevent leaks and maintain consistent internal conditions. An optional acrylic glass door is available for enhanced visibility without affecting the chamber's performance. The sealed rail system ensures smooth and reliable operation, contributing to the overall ease of use.

The precise control over environmental conditions offered by the Vector Environmental Test Chambers makes them ideal for a variety of testing requirements. Whether simulating day and night light cycles, adjusting humidity levels, or setting specific temperature ranges, these chambers provide the flexibility needed for accurate testing in fields such as pharmaceuticals, cosmetics, electronics, and materials research.



# Vector Environmental Test Chambers

## Applications:

**Stability Testing:** Evaluate product stability under different environmental conditions.

**Artificial Aging Tests:** Accelerate aging processes to predict product lifespan.

**Storage and Shelf-Life Evaluations:** Assess how products hold up over time under specific conditions.

**Environmental Simulation for R&D:** Create controlled environments for research and development purposes.

**Quality Control:** Ensure products meet industry standards by testing under various climatic conditions.

Choose Vector Environmental Test Chambers for Reliable Testing Conditions

When precise simulation of climatic conditions is essential, the Vector Environmental Test Chambers offer unmatched performance and reliability. Their robust construction, advanced features, and precise control systems make them an indispensable tool for laboratories and research facilities seeking accurate and consistent testing environments. Trust Vector to provide the solutions you need for your environmental testing and research requirements.

## TECHNICAL SPECIFICATION

Model	VTR 1034-120	VTR 1034-250	VTR 1034-400	VTR 1034-600
Humidity-Free Temperature Range	Unilluminated - 10°C/+60°C - Illuminated 10°C /+60°C			
Moist Temperature Range	+ 10°C /+60°C			
Temperature Adjustment and Reading	0,1°C			
Humidity Adjustment and Reading	%1 Rh			
Sensitivity	%1 Rh			
Maximum Light Intensity	10.000 Lux			
Lighting Scheduler	0 - 999 Hours 59 Minutes and Indefinite			
Program Digits	10			
Program Replays	1 - 999			
Number of Shelves (Standard/Maximum)	3 - 7	4 - 10	4 - 12	4 - 12
Useful Volume	120 Lt.	250 Lt.	400 Lt.	600 Lt.
Internal Surface Structure	Stainless Steel			
Outer Surface Structure	Epoxy Painted Galvanized Steel			
Internal Dimensions (cm)	41x43x76	45x55x90	65x64x101	74x70x115
External Dimensions (cm)	73x79x156	78x85x181	87x97x183	96x103x197
Power Values	220 V 50			