



ZETATEK®
Committed to Excellence

**Simulating Environments
Since 1990.**



Vacuum Temperature & Climatic Chambers

Introduction

Vacuum Temperature and Climatic chambers from Zetatek are a revolution in environmental testing. Simulating a wide range of environmental conditions from the equator to the poles and from the sea level to stratosphere, these chambers stand out for their brilliant design, exceptional build quality, performance and reliability.

Combining over three decades of experience in the design and manufacture of environmental test chambers, Zetatek, the market leader in the industry, offers test chambers of sizes varying from 400 litres to 1400 litres. They have a vacuum range from ambient to 1 milli bar, temperature range from -70°C to +180°C and humidity from 10% RH to 98% RH.

Features

- The test space made from stainless steel 304 and is welded air tight.
- Multilayer composite insulation provides resistance against high and low temperature with just 100mm insulation thickness.
- Bottom sheet with baffles is used to uniformly distribute the air throughout the test space
- Large inspection window with multi-layer vacuum sealed toughened glass and heating system
- Heavy duty, high capacity vacuum pumps provide reliable performance
- Port hole to enable electrical connections to the specimen.

Klima Controller

- Connectable to chamber through Ethernet, Wi-Fi or Serial Port (RS-485, RS-232)
- Multiple touchscreen options: 7", 10" and 15"
- Multiple user levels with passcode access
- Synoptic chart for status monitoring
- Program and Manual mode of chamber operation
- Test data logging for easy analysis and graphing

Options

- Multi-level adjustable wire shelves.
- Water cooled system for better performance
- Multiple independent sensors for temperature measurement
- External panels made from stainless steel
- Multiple portholes of 75mm or 125 mm diameter.
- Test space made from stainless steel 316

Specifications

Models	ZAF	4S/4C	6S/6C	10S/10C	14S/14C
Dimensions					
Test Space Volume (l)		393	591	1030	1410
Internal Dimensions (mm)	w	700	825	1000	1175
	d	730	700	1030	1000
	h	770	1025	1000	1200
Temperature Performance					
Temperature Range (°C)	+180 to -40 or -70 (C Model)				
Cooling Rate (°C/min)	1 to 5				
Heating Rate (°C/min)	1 to 5				
Temperature Stability (°C) ³	±0.5 to ±1				
Temperature Homogeneity (°C)	±1				
Condenser	air-cooled / water-cooled				
Altitude Performance					
Vacuum Range (mBar)	Ambient to 1				
Vacuum Stability (mBar)	±3				
Vacuum time to 10 mBar (min)	30				
Climatic Performance					
Temperature Range (°C)	10 to 95				
Humidity range (% RH)	10 to 98				
Humidity Stability (% RH)	±1 to ±3				
Electrical					
Supply Voltage	415±10% / 50Hz ±3% / 3+N+G				



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