



ZETATEK[®]
Committed to Excellence



Industrial Ovens

Salient Features

1 Light Weight
The chamber body is made entirely out of sheet metal making it light weight.

2 Exterior
The outer panels are powder coated for corrosion-resistance and aesthetic appeal.

3 Interior
The test space made from stainless steel 304 provides excellent resistance to corrosion. The aesthetic look is elevated by a mirror finish. The inner tank is welded airtight ensuring that moisture does not leak into the insulation.

4 Insulation
Multilayer insulation with glass wool provides resistance against high and low temperature with just 100mm insulation thickness.

5 Latch
The door can be easily engaged and disengaged with an elegant rotary latch.

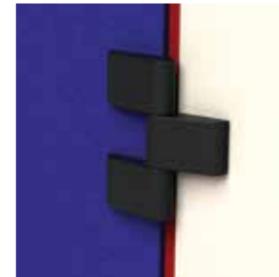
6 Uniform Air Flow
A specially designed bottom sheet with baffles is used to distribute the air throughout the test space with uniformity within ± 1 °C.

7 Port Hole
A port connects cables to the test specimen during testing. These are sealed with soft silicon to avoid thermal leakages.

8 Double Gasket
Two silicon gaskets prevent thermal leakages and contain the heat within the chamber.

9 Damper
An exhaust damper helps in ventilating and faster cooling of chamber.

- Compact design with small foot print
- Illuminated test space
- Isolated electrical compartment for safety



Bad weather seems better through a window..

Controller



Connectivity

- Connectable to chamber through Ethernet or Serial Port (RS-485, RS-232)
- User Friendly Instrumentation



Programs

- Capability to set 50 programs, 500 segments and 999 cycles
- Numerical entry of profile parameters
- Ramp, dwell, hold back function for program mode
- Automatic restart of program after power failure



Software

- Numerical and graphical visualization of test parameters
- Program and Manual mode of chamber operation



Data logging

- Recording of unlimited test data
- Transfer of test data through a USB pen drive
- Exportable to CSV file for easy analysis and graphing in Excel.



Safety Devices

- Earth leakage breaker
- Electrical compartment door switch
- Thermal fuse
- High and low temperature limiter
- Thermostat for overheat protection
- Semi-conductor fuse for heater

*some of the features mentioned above are optional.

Chamber temperature is controlled with an advanced PID controller providing ultimate performance. Temperature uniformity, temperature stability, rate of heating and recovery time are maintained with high reliability.



Models		ZOC-4	ZOC-6	ZOC-12	ZOC-25	ZOF-4	ZOF-6	ZOF-8	ZOF-10
Dimensions									
Test Space Volume (l)		31	62	126	253	393	591	769	1030
Internal Dimensions (mm)	w	312	400	540	600	700	825	900	1000
	d	320	340	390	650	730	700	950	1030
	h	312	460	600	650	770	1025	900	1000
Temperature Performance									
Temperature Range (°C)		Ambient to +250							
Heating Rate (°C/min) ¹		1 to 5							
Temperature Stability (°C) ²		± 0.5 to ± 1							
Temperature Homogeneity (°C)		± 1							
Electrical									
Supply Voltage		415V ± 10% / 50Hz ± 3% / 3+N+G or 230V ± 10% / 50Hz ± 3%							

Options

- Multi-level adjustable wire shelves.
- Inspection window with multi-layer vacuum sealed toughened glass
- Test specimen temperature measurement and control
- Multiple Independent sensors for temperature measurement
- Automatic Damper
- Reinforced floor for heavy specimens
- External electrical terminals
- Multiple portholes of 75mm or 125 mm diameter.
- Test space made from stainless steel 316
- External panels made from stainless steel

*Customization of options and accessories on request.



Note

1. According to IEC 60068-3-5 & IEC 60068-3-6.
2. After reaching a steady state at the given set point, when test space is empty.

*We reserve the right to make any technical changes.

The wall between art and engineering exists only in the mind..

About Zetatek

A pioneer in the environmental test chamber industry, Zetatek has a proven track record of over 3 decades, dedicated to the development of a highly competitive range of environmental chambers with multiple applications.

Our all-encompassing product range includes:

- Ovens
- Temperature chambers
- Climatic chambers
- Thermal shock chambers
- Walk-in chambers
- Thermal mechanical chambers
- Environmental stress screening chambers
- Vacuum chambers
- Customised chambers to meet client requirements

Zetatek is an ISO 9001, 14001 and 18001 company which caters to a niche segment of customers who value high quality products conforming to International standards.

Zetatek chambers are omnipresent both in India and countries across the world and our highly experienced service team ensures continuous customer support to the best satisfaction of our clients.

We, at Zetatek believe in delivering quality products and forging lasting relationships, while continuing our quest for excellence.



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