

Hiacc[®]

Bench Top/Table Top Chamber

Product Catalogue



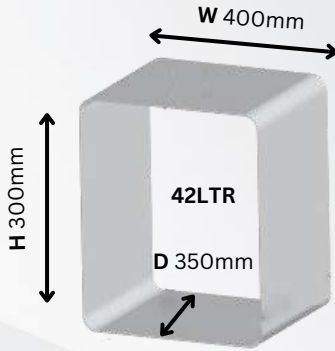
Compact, Quiet & Mobile

Don't let limited space cramp your testing style! The Hiacc tabletop chamber is a powerhouse in miniature. Quiet operation and a compact footprint make it ideal for even the most cramped labs.

Stop sacrificing power for space. Supercharge your testing with the Hiacc tabletop chamber!



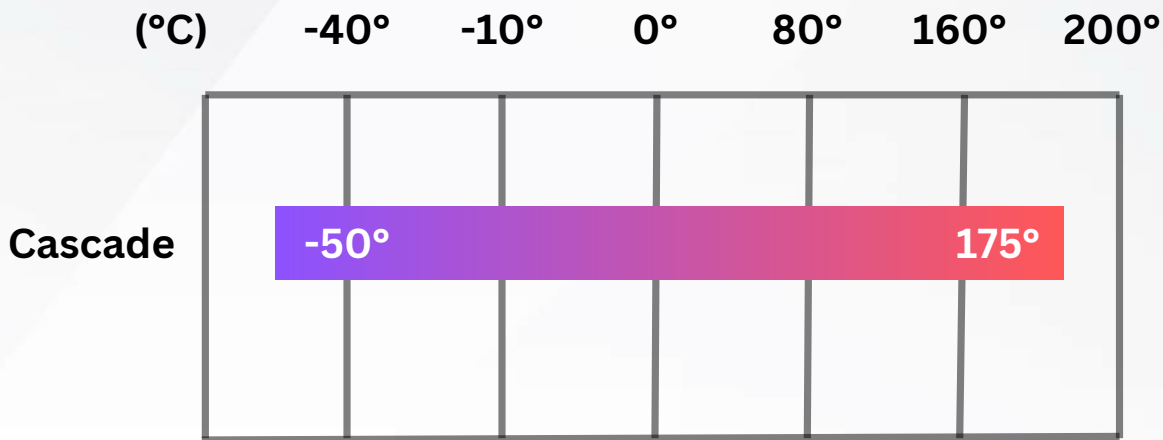
Test Space Capacity



Experience the timeless elegance of our chambers, boasting the signature HIACC stainless steel test space complemented by a sturdy structure. With the control console conveniently located on the door, the unit's footprint is further optimized for compactness. Plus, the user-friendly door latch ensures simplicity and security like never before.

The BT Series available in 42 Liters only

Temperature Range



The KLIMA series offers over ten diverse models, allowing you to select the ideal size and performance for your testing needs. Temperature cycling rates range from 3 to 20°C/min, with options for ultimate low temperatures of either -40°C or -70°C provide expanded testing capabilities beyond temperature cycling. KLIMA Series are engineered to meet the performance criteria outlined in various international environmental test standards such as IEC, ASTM, and MilStd.

Viewing Window

The viewing window for observing the test area now features an integrated light, providing enhanced visibility and a transparent, meta-deposited thin film heater has been incorporated into the window to prevent condensation issues, ensuring clear and unobstructed viewing at all times.



Options

(Special accessories on customer request)

- ✓ Additional Port Holes 50MM, 100MM, 125MM& 150MM
- ✓ Floor Loading Capacity (Customizable)
- ✓ Heavy duty Customized Shelves



Safety

Enhanced Electrical Safety

- ✓ Incoming power supply EMF (Electromagnetic interference filter) protection for reduces electromagnetic field radiation.
- ✓ Dedicated MPCB protection for various components, including Refrigeration Compressors, Air Heater, Circulation Fan Motor, Movement Basket Motor Assembly and Condenser Motor.
- ✓ Dedicated MCB protection for HMI, PLC, Test space Lamp, and the Control Circuit to ensure system stability
- ✓ Three Phase Preventer for under voltage and over voltage protection from the main input power.

Comprehensive Temperature Control

Dual safety mechanisms - Mechanical Thermostats and adjustable electronic safety controllers - prevent thermal deviations and protect your samples.

- ✓ **Level 1** - High and Low temperature adjustable electronic safety controllers
- ✓ **Level 2** - High and Low temperature mechanical thermostats

Advanced Refrigeration Safeguard

- ✓ High and Low Refrigeration safety pressure Protection for safeguards the refrigeration system.



Control

Precise Climate Regulation

precisely controls temperature, humidity, and other environmental factors to match your desired test conditions.

Data Logging and Reporting

Track essential data throughout your tests and generate comprehensive reports for analysis.

Easy Set-Up and Operation

An intuitive user interface allows for simple programming and monitoring of test parameters.



Technical Specifications

Specification/ Model		KLIMA-BT/-50T
TEST SPACE DIMENSIONS		
Test space volume	Ltr.	42L
Width	mm	400
Depth	mm	350
Height	mm	300
PERFORMANCE DATA FOR TEMPERATURE TESTS		
Maximum temperature	°C	175
Minimum temperature discontinuous	°C	-50
Rate of temperature change, cooling	°C/min	2
Rate of temperature change, heating	°C/min	4
Temperature deviation, in time	°C	±0,5 ... ±1
Test Standard Compliance	IEC-60068, IEC-60749, IEC-61747, MIL-STD, ISO16750, ASTM, SAE, BIS & 50 other standards	
TEST SPACE LOADING CAPACITY		
Load, max.	kg	15
Load per grid	kg	80
Possible number of insert grids	piece	3
POWER/CONNECTION DATA		
Voltage rating	V	1/N/PE AC 230V±10% 50Hz other voltages and frequencies optional
Connected Load	kW	3
Sound pressure level	dB(A)	62
Total weight	kg	250
Refrigerant	type	R404A
		R508B

(*) The performance data refer to an operating room (ambient) temperature of +26 °C , 230 V/50 Hz nominal voltage, without test specimen and without accessories

(*) Sound Pressure Level: Using a calibrated instrument, the weighted sound pressure level was measured in free-field environments at a height of 1 meters from the floor and a distance of 1 meter from the equipment surface.

(*) 20 Amp, 32 Amp minimum service Required

Advanced Energy Saving

The KLIMA features a solenoid valve for advanced cooling control, which modifies proportionately depending on demand to save energy and improve temperature stability. A smart forward-looking algorithm improves and smoothest temperature ramping. It also improves test accuracy and energy efficiency. Combined with further advancements in refrigeration and heater performance, these superior features are unique to HIACC and make the most energy efficient HIACC KLIMA chambers to ever.



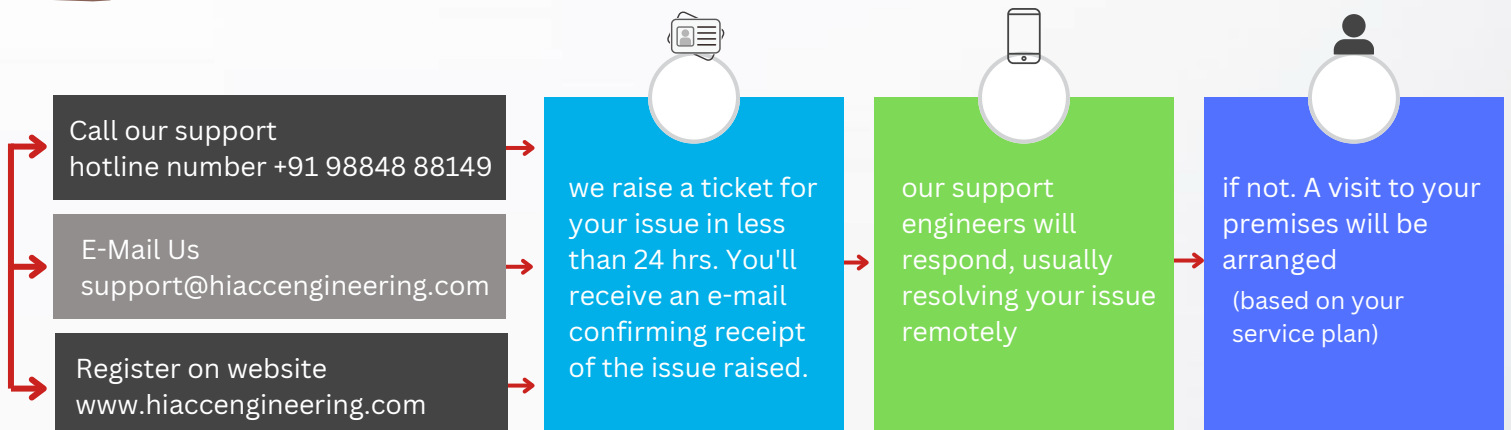
Touchscreen Controller

Watlow F4T Controller, a cutting-edge solution for precise temperature control and system management. With the ability to program up to 256 steps across 40 nameable profiles, the F4T boasts unparalleled flexibility and customization. The context-sensitive information key and guided steps streamline profile programming, while the four-line backlit LCD provides comprehensive visibility into programming, setup, operating, and help information. The large LED readout delivers precise chamber temperature monitoring with 0.1° resolution, and internal logic ensures reliable refrigeration compressor control. Additionally, the F4T features two alarms and seven event outputs for seamless remote device control, alongside RS-232C communications. Optional GPIB, Ethernet, and analog retransmit capabilities further enhance its adaptability. Elevate your temperature control and system management with the Watlow F4T Controller.

- Multi-level, password-based security system to protect data
- Test data that can be downloaded to .CSV formats
- The MIMIC to detect excessive refrigeration pressures and temperatures and notify users when problems occur
- Remotely to connect up to Chamber
- Graphical trend view of actual/set temperature values
- Easy to Program 40 Profiles up to 50setps each, with battery backup and real time clock.

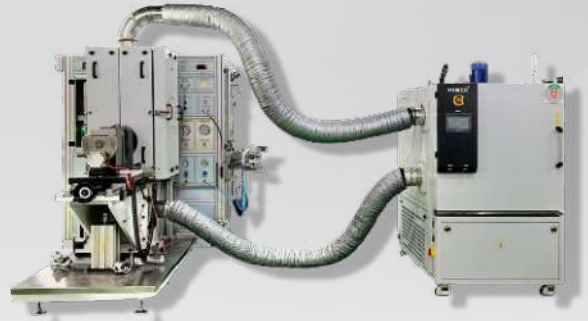


How Our Support Works





Integrated Temperature Chamber with Force Calibration System



Remote Cooling / Heating Customized Temperature System for Automotive Testing



Environmental Chamber with Ultra-Low Humidity Control



Custom Size Environmental Chamber with Vibration Integration (AGREE)



Walk in/ Drive in Chamber (Customizable)



Customized Thermal Shock System

Related Products

Expand your testing horizons with our diverse range of complementary equipment, ensuring comprehensive, accurate, and reliable testing outcomes. your ultimate destination for environmental testing solutions, we provide cutting-edge products to elevate your testing capabilities to new heights.



Climatic Test Chamber



Temperature Test Chamber



Thermal Shock Test Chamber



Stress Screening Test Chamber



Altitude Test Chamber



HALT/HASS



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