

Temperature Applied Sciences



Environmental Simulation

ECO Specification

All figures quoted in +25°C ambient. We reserve the right to alter specifications without notice. Tables for both Temperature only and Climatic. Items in red apply to Climatic only.

Model			135	400	900
Volume	Litres		135	400	900
Chamber dimensions (mm)	Width(w)	approx	870	590	1170
	Depth(d)		390	580	540
	Height(h)		460	1340	1250
External dimensions (mm)	Width(W)	approx	660	700	1400
	Depth(D)		700	800	780
	Height(H)		840	2085	2105
Temperature range °C	Maximum	°C	+100		
	Minimum	HTCL/HT MTCL/MT	-10 -40		
Rate of change °C /min	Heating average	All models	3.0	2.0	2.0
Rate of change °C /min (max temp to +25°C)	Cooling average	HTCL/HT MTCL/MT	2.3 3.6	1.8 1.8	1.0 1.0
	Climatic range	Maximum °C Minimum °C Humidity %RH	+85 +10 10 to 98		
Stability	In time In time	K %RH	+/- 0.3 to 1.0 +/- 3.0		
Power supply (Confirmed at time of order)	Volts	All models	230	230	230
	Amps Amps	Temp only Climatic	13 13	13 16	13 16
Type			bench	free standing with castors	
Weight	Kg	HTCL/HT MTCL/MT	80	155	195
	approx				

**Temperature Applied Sciences Limited**  
 MANUFACTURERS OF ENVIRONMENTAL TEST CHAMBERS

GORING BUSINESS PARK, GORING-BE-SEA, WEST SUSSEX, BN12 4HF  
 TELEPHONE: +44 (0) 1903-506903 FAX: +44(0) 1903-506911  
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Designed & Built in the UK



- Grained Stainless Steel Exterior for durability and good looks
- Closed Cell Foam Insulation for **efficient operation**
- Stainless Steel & Aluminium Interior for low thermal mass
- Self-closing doors with **Magnetic Gasket** (Thermal) or **Silicone Rubber Gasket** (Climatic)
- Optional door mounted heated **Viewing Window** and Internal Halogen Light
- Adjustable Wire Shelf and 70mm Cable Access Port **supplied as standard**
- ECO chambers use **air-cooled** mechanical refrigeration systems as standard, **self-contained** CFC & HCFC free
- Single stage Hermetically sealed, optimum sized compressors guarantee **low running costs**



The **ECO** range of Environmental Test Chambers offers similar performance and quality to our renowned **SERIES 3** machines

Advanced design and manufacturing techniques at our factory in West Sussex, UK have achieved superb **value for money** for customers with less challenging test requirements

Sizes range from 135 through to 900 litres with bench mounting and free standing models

Ideally suited to **Stability Testing** as required by the Pharmaceutical and Construction industries

Our commitment to customer satisfaction has rewarded us with a high reputation within the industry, with **hundreds of satisfied customers**

Selecting a **Temperature Applied Sciences** product is a decision you will be proud of

- All chambers feature simple to operate digital controls with options to suit all requirements
- From **Single Setpoint** to Dual Loop **Programmer**
- Factory Set **Alarm Control**
- CL chambers feature **Audio Visual** fault alarm (eg. low water)
- Optional **Digital Outputs** for DUT interfacing
- PRT100 Temperature sensors
- Solid state Humidity sensor
- Factory **Burn-in** and **Calibration** prior to despatch
- Other Options:-
- Photo Simulation for Biological Growth Studies
  - Additional Shelves and Access Ports
  - Adjustable Alarms
  - Chart Recorder
  - Glove Ports



- All **ECO** chambers are available as **Thermal only** or with full **Climatic Simulation**, designation 'CL'
- Totally self-contained with **on-board** water supply tank
- Close-coupled '**Micro Aeration**' Humidifier uses just one moving part for un-paralleled reliability
- No jets to block or pumps to seize*
- Using advanced digital control techniques, **De-humidification** is achieved via the main Refrigeration system
- Increased **reliability** and reduced maintenance
- Operation from Mains Water is possible with the optional auto-fill and **de-ioniser system**
- Inconel sheathed resistance heater elements switched via high-speed solid state relays ensure **accurate, economical stability**

