



Environmental Simulation

Micro Specification

All figures quoted in +23°C ambient. We reserve the right to alter specifications without notice. Table for both Temperature only and Climatic. Items in red apply to Climatic only

Model:		225g	xx225	xx300	xx350	xxCL225	xxCL350	
Volume	Litres	11	11	27	45	11	45	
Chamber dimensions (mm)	Width(W)	225	225	300	350	225	350	
	Depth(D)	225	225	300	300	225	350	
	Height(H)	225	225	300	350	225	350	
External dimensions (mm)	Width(W)	415	350	450	750	470	750	
	Depth(D)	240	490	800	650	460	650	
	Height(H)	270	630	840	1000	630	1350	
Temperature range °C	Maximum	°C	180	+180 (+180 CL)				
	Minimum	MTCLMT LTCLLT	-20	-40 -70				
Rate of change °C/min	Heating average	All models	3.0	7.0	4.0	4.0	7.0	4.0
Rate of change °C/min (max temp to +25°C)	Cooling average	MTCLMT LTCLLT	2.0	6.0	2.0	2.0	6.0	2.0
			-	2.0	5.0	6.0	2.0	6.0
Rate of change °C/min (max to min)	Cooling average	MTCLMT LTCLLT	2.0	1.0	1.5	1.5	1.0	1.5
			-	1.2	1.5	1.9	1.2	1.8
Climatic range	Maximum °C	°C	-	+55				
	Minimum °C	°C	-	+10				
	Humidity %RH	%RH	-	10 to 98				
Stability	In time in hrs	°C	+/- 1.0	+/- 0.3 to 1.0				
		%RH	-	+/- 3.0				
Power supply (Confirmed at time of order)	Volts	All models	230	230	230	230	230	
	Amps	Temp	13	13	13	13	20	
Type			Bench - optional stand					
Weight	Kg		20	70	90	130	90	
	approx						100	



**Temperature Applied Sciences Limited**  
 MANUFACTURERS OF ENVIRONMENTAL TEST CHAMBERS  
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- Attractive mirror finish 1.2mm Stainless Steel Exterior for durability
- High Technology mineral fibre Insulation for **efficient operation** with minimal wall thickness
- Stainless Steel 304ba Interior, vapour tight seam welded
- Silicone Sponge Gasket** provides hermetic door sealing
- Standard** door mounted heated **Viewing Window** and internal Halogen Light
- Wire Shelf and 20mm Cable Access Port **supplied as standard**
- Optional Stand with adjustable feet or castors
- Micro** chambers use **air-cooled** mechanical refrigeration systems as standard\*, **self-contained** CFC & HCFC free
- Single stage for 'MT' chambers, cascade for 'LT' Hermetically sealed compressors for **low noise** and reliable **low temperature** performance

\*MT225g is gas cooled



The ultra compact **Micro** range of Environmental Test Chambers are superbly engineered, just like the **SERIES 3**

Great looks come as standard too and the smallest chamber takes up **less space** than a laptop PC

All machines are **designed and manufactured** at our factory in West Sussex, UK

Sizes range from 11 through to 45 litres

Manufactured to very high standards using the highest quality components ensures **reliable operation and long life**

Designed for testing **discrete components** and small sub assemblies over a **wide range** of Thermal and Climatic conditions

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:-

- Gas cooling - CO2 or LN2
- Additional Shelves and Access Ports
- Adjustable Alarms
- Glove Ports



**Micro** 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**
- Incanthal sheathed resistance heater elements switched via high-speed solid state relays ensure **accurate, economical** stability
- Large diameter fan provides superior **thermal homogeneity** throughout the working area

