



Temperature Applied Sciences



Environmental Simulation

SERIES 3 Specification

All figures quoted at +23°C ambient. We reserve the right to alter specifications without notice. Tables for both Temperature only and Climatic. Items do not apply to Climatic only.

Model		400BT	600FS	750FS	1000FS	1200FS	
Volume	Litres	64	252	421	1000	1728	
Chamber dimensions (mm)	Width(w)	400	600	750	1000	1200	
	Depth(d)	400	700	750	1000	1200	
	Height(h)	400	600	750	1000	1200	
External dimensions (mm)	Width(W)	750	900	1050	1500	1700	
	Depth(D)	750	1120	1250	1390	1680	
	Height(H)	1100	1830	1950	1985	2250	
Temperature range °C	Maximum	+180					
	Minimum	HTCL/MT MTCL/MT LTCL/LT	-10 -40 -75				
Rate of change °C /min	Heating average	All models	4.0	4.0	6.0	3.0	2.0
Rate of change °C /min (max temp to +25°C)	Cooling average	HTCL/MT	2.0	2.0	2.0	2.0	1.0
		MTCL/MT	2.0	9.0	6.0	3.0	1.5
		LTCL/LT	2.0	2.6	5.0	4.0	2.0
Rate of change °C /min (max to min)	Cooling average	HTCL/MT	2.0	2.0	2.0	2.0	1.8
		MTCL/MT	1.5	4.0	2.3	2.0	1.0
		LTCL/LT	1.7	2.6	2.5	2.4	1.2
Climatic range	Maximum	°C	+95				
	Minimum	°C	+10				
	Humidity	%RH	10 to 98				
Stability	In time	K	+/- 0.3 to 1.0				
	In time	%RH	+/- 3.0				
Power supply (Confirmed at time of order)	Volts	All models	230	230 / 415	415 + N	415 + N	415 + N
	Amps	Tamp only	13	16	16	25	25
	Amps	Climatic	25	25	25	32	32
Type			bench	free standing with castors			
Weight	Kg approx	HTCL/MT	275	350	530	780	850
		MTCL/MT	275	350	530	780	850
		LTCL/LT	290	380	560	840	900



Temperature Applied Sciences Limited
 MANUFACTURERS OF ENVIRONMENTAL TEST CHAMBERS
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Exterior manufactured from 1.2mm Mild Steel, etch primed and baked with 2-pack textured finish

Composite Mineral Fibre and Closed Cell Foam Insulation for **efficient operation**

Stainless Steel 304ba Interior, vapour tight seam welded

Unique floating **Thermal Break** construction method alleviates 'TCE'

Large surface Silicone Sponge Gaskets with 'knife edge' providing hermetic door sealing, **lockable Door Catches**

Optional door mounted heated **Viewing Window** and internal Halogen Light

Lockable Castors or **Adjustable Feet** fitted as standard

Adjustable Stainless Steel Wire Shelf and 70mm Cable Access Port **supplied as standard**

SERIES 3 chambers use **air-cooled** mechanical refrigeration systems as standard, **self-contained** CFC & HCFC free

Single stage for 'HT & MT' chambers, cascade for 'LT'
 Generously sized compressors mean **high performance** and reliable **low temperature** operation



The **SERIES 3** range of Environmental Test Chambers represent nearly **40 years** of continual refinement

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

Standard sizes range from 64 through to 1728 lt although **bespoke designs** are often produced

Manufactured to high standards with the most reliable components ensures that our products provide **reliable operation** and **long life**

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** through to **Touchscreen** Graphical **Programmer** with advanced data-logging

User adjustable **Alarm Control**

Optional **Digital Outputs** for DUT interfacing

PRT100 Temperature sensors

Solid state Humidity sensor

Factory **Burn-In** and **Calibration** prior to despatch

Other Options:-

- Bespoke Sizes
- Shaker Interface
- Photo Simulation for Biological Growth Studies
- Increased Thermal Ramp Rates



All **SERIES 3** 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

Large diameter fan(s) provide superior **thermal homogeneity** throughout the working area

