

environmental chambers



severn thermal solutions

Typical applications :

- Chemical analysis
- Thermal ageing
- Thermal cyclic tests
- Preconditioning samples
- Materials testing :

Tension & compression on metals, composites, paper, plastics, textiles and components

Designed to be compatible with the majority of fatigue / tensile testing machines

Temperatures from -170°C to +600°C

Temperature control system included (various configurations available)

Optional provision for side entry extensometers

Optional viewing window for optical measurement devices



Model	External Height	Internal Height	External Width	Internal Width	External Depth	Internal Depth	Minimum Temp	Maximum Temp	Port Diameter
EC2001*	400mm	300mm	475mm	300mm	600mm	300mm	-150°C	350°C	N/A
EC2094	500mm	350mm	350mm	240mm	642mm	230mm	-100°C	350°C	67mm
EC2007C	710mm	560mm	350mm	240mm	642mm	230mm	-100°C	350°C	67mm
EC2007B	710mm	560mm	350mm	240mm	642mm	230mm	-150°C	600°C	67mm
EC2221	1050mm	900mm	350mm	240mm	692mm	300mm	-100°C	350°C	67mm
EC2209	700mm	550mm	400mm	255mm	1038mm	392mm	-60°C	250°C	112mm
EC2244	850mm	700mm	400mm	260mm	1038mm	392mm	Ambient	200°C	112mm
EC2089	710mm	560mm	460mm	310mm	938mm	400mm	-100°C	350°C	67mm
EC2089A	710mm	560mm	460mm	310mm	938mm	400mm	-170°C	600°C	67mm
EC2222	1000mm	850mm	460mm	310mm	938mm	400mm	-100°C	350°C	67mm
EC2211	1000mm	850mm	460mm	310mm	938mm	400mm	-150°C	600°C	67mm
EC2057A	710mm	560mm	550mm	400mm	938mm	400mm	-100°C	350°C	125mm
EC2057B	710mm	560mm	550mm	400mm	938mm	400mm	-150°C	600°C	125mm
EC2170	710mm	580mm	550mm	400mm	1500mm	1000mm	-100°C	350°C	67mm
EC2170A	710mm	850mm	550mm	400mm	1500mm	1000mm	-170°C	350°C	67mm
EC2219	850mm	700mm	550mm	400mm	1548mm	1000mm	-150°C	600°C	125mm
EC2198	1000mm	850mm	550mm	400mm	938mm	400mm	-100°C	350°C	67mm
EC2169	1150mm	900mm	550mm	400mm	938mm	400mm	-100°C	600°C	125mm
EC2241	710mm	560mm	675mm	525mm	948mm	400mm	-100°C	350°C	125mm

*This unit is a stand alone system and may not necessarily conform to all the information on this specification document.
Alternative sizes available on request

Our environmental chambers have been specifically designed to suit materials testing applications.

The wide range of sizes and options allow the chambers to be mounted onto most materials testing machines with either fixed or rail system mounting. Particular attention has been paid to the materials being used, the build quality and compatibility with testing fixtures and grips.

Temperature controls are based on Eurotherm high precision PID instrumentation. An option of a variable speed fan, which ensures an even distribution of air and superior temperature uniformity. Allowing the fan speed to be reduced when testing delicate specimens helps to reduce turbulence and improves the performance of the test.

In addition, cryogenics options provide below ambient performance using either liquid nitrogen (LN₂) or carbon dioxide (CO₂) depending on your requirements. Alternative sizes are available on request.

