

-70°C to 300°C Environmental Chambers

Compatible with
Tinius Olsen ST and SL
series of materials testing
systems



- + Temperature control & profiling from Horizon.
- + Removable top and bottom chamber wall components to allow movement of chamber in and out of the test area without disturbing specimen grip configurations and tie rods.
- + Supports use of contacting and non-contacting extensometers
- + Internal radial fan and interlocking door.
- + Triple glazed window for viewing test area.

TO environmental chamber

Suitable for most twin screw materials testing machines, the Tinius Olsen Temperature Chamber provides a means for performing physical tests within a temperature range of -70 to 300°C (-95 to 570°F). An internal radial fan provides efficient air circulation that minimizes temperature gradients throughout the chamber.

A digital controller ensures accurate temperature control. Optional sub-zero temperature testing is available via a self-pressurising liquid nitrogen Dewar. The chamber door is fitted with a triple glazed window for viewing the test area and also scanning the sample for strain measurements when using the Tinius Olsen 500L laser extensometer. When liquid nitrogen is used, a demisting facility is fitted.

The chamber is supported on a frame located between the columns of the testing machine. When the chamber is not in use, the chamber can be rolled back and parked clear of the operating area.

TO order numbers

99-1005933	Env. Test Chamber, Amb..+300C(240V) Removable Inserts,50mm bore inc Rails
99-1005944	Env. Test Chamber, -70..+300C(240V) Removable Inserts,50mm bore inc Rails
99-1005983	Env. Test Chamber, Amb..+300C(110V) Removable Inserts,50mm bore inc Rails
99-1008667	Env. Test Chamber, -70..+300C(110V) Removable Inserts,50mm bore inc Rails

Specifications

Temperature range:	-70°C to 300°C / -94°F to 570°F	
Temperature gradient	±1°C after 30 minutes within 80% center volume of chamber	
Temperature stability	±1°C after 30 minutes	
Internal dimensions (WDH)	mm	250 x 245 x 605
	in	9.8 x 9.6 x 23.8
External dimensions (WDH)	mm	355 x 650 x 750
	in	14 x 25.6 x 29.5
Viewing window dimension	mm	320 x140
	in	12.6 x 5.5
Power	110/220VAC, 50/60Hz, 3kW	
Weight including controller	kg	62
	lbs	137