

Industry: Test Lab

Oversized Thermal Shock System

CSZ's standard vertical thermal shock chamber sizes are 1.5, 2.6, 3.3, 9 cu. ft. In addition to these sizes, CSZ can also build chambers to the size that meets the customer's test requirements.

Recently, ESSC Test Laboratory had a need in their Michigan facility to perform thermal shock testing for head curtain air bags up to 9' long. To accommodate the size of these large air bags, CSZ solution was a 144 cu. ft. vertical thermal shock chamber. The chamber is rated to hold up to 600 lbs with a transfer rate of 12 seconds. Basket dimensions are 4' x 4' x 8' with multiple shelves per basket for product placement while still maintaining adequate air flow around the product.

Other products are also tested in the large thermal shock chamber such as hybrid batteries weighing up to 150 lbs. and 3-4' long. Due to the high cost of the batteries, the end user wanted minimal handling and this automated thermal shock chamber was the perfect solution for their testing needs.



Temperature Range:

Cold Temperature: -75°C to Ambient

Hot Temperature: +70°C to +210°C

Product Features

- Large window with internal lights
- Door safety interlocks
- 10 cfm dry air purge
- Automatic machine and transfer motion control, interlocking, timing and cycle counting