



Independent Engineering Laboratories, Inc.

*Innovation Beyond Limitation*

## Environmental Chambers

The Fuel Systems Laboratory features eight environmental chambers that range in capacity from 8 to 180 cubic feet. These chambers are fuel-rated, allowing for true simulation of real-world conditions. Five of the chambers can be placed over Electro-Dynamic or Servo Hydraulic Shakers.



Additionally *iEL* has ten environmental chambers separate from the laboratory that are used for non-fuel applications. Capabilities include: Thermal Cycle, Two High Rate of Change, Three Zone Thermal Shock Chambers, Liquid Thermal Shock, Ozone and Humidity.

Temperature ranges from  
-60degC to +200degC

All of the environmental chambers can be interfaced with host computers and programmers. *iEL* has developed a portable LabVIEW based data-acquisition system that features an aggregate sample rate of 10 MHz and is capable of monitoring up to 128 channels. Infinitely flexible software can direct the necessary apparatus to follow complicated cycles and schedules, while providing automated shutdown protection.

