

## **SPECIFICATIONS FOR GENESEE SCIENTIFIC MODEL 59-446L**

### **EXTERIOR**

25.9"W x 22"D x 60"H chamber with cold rolled 20 gauge steel front/sides/back/top welded to 14 gauge steel undercarriage and powder coated with blue enamel. Casters add 4" more to final height. Shipping weight is 275 lbs.

### **INTERIOR**

22"W x 19"D x 42"H with prepainted .040 aluminum sides/top and a stainless steel bottom pan. 10 c.f. capacity.

### **INSULATION**

Two inches of non-CFC foamed-in-place urethane insulation.

### **COOLING/HEATING**

Cooling is provided by a 1/5 HP condensing unit that is air cooled, hermetically sealed, thermostatically controlled (adjustable) and self-contained, with permanently lubricated fan motor bearings. An electrically commutated evaporator fan motor is used for energy efficiency. Oversized Electrofin™ coated aluminum finned copper refrigeration coils promote rapid cool-down and tight control over selected temperature settings with R-134A as the coolant. Heat of compressor is used to evaporate condensate to eliminate need for electric condensate evaporator. One 275 watt tubular electric resistance coil provides heat for temperature setting above ambient. Self defrosting.

### **TEMPERATURE RANGE**

Temperature range is 2-50°C, ±1°C measured at the sensor. A 2-3 hour mite cycle may be run at 60°C. Ambient laboratory temperature should be between 60°-80°F. Allow 6" around sides and back of chamber for heat exchange. High and low temperature mechanical failsafes are included on this model to protect research materials from excessive temperatures.

### **ADDITIVE HUMIDITY**

No active humidity generation. A pan of water may be placed inside to boost humidity, if needed. An RH meter is included so humidity levels can be observed.

### **AIR FLOW**

Chamber air is drawn up through the wire shelves and along the door surface to the cooling and heating coils, where it is conditioned to the proper temperature and forced down the rear wall to the bottom of the chamber.

### **DOORS**

Spring loaded, self-closing, insulated stainless steel door.

### **SHELVES**

Each 21" x 17" shelf has powder coated epoxy steel wire construction capable of supporting 50 lbs of evenly distributed weight. Shelves attach to pilaster with stainless steel clips. Three shelves are included.

### **LIGHTS**

Two 3500K LED lamps, one on either side of the door, are wired to the digital clock.

### **DAY/NIGHT SETTINGS**

One 24 hour digital clock with to-the-minute settings controls the lights (on/off).

### **ELECTRICAL**

115/60/1 with standard three prong plug. Draws 4.4 amps. Requires a dedicated circuit. Heat output is 250 BTU/hr at an 18°C temperature setting.

### **QUALITY CONTROL**

All chambers are run for 24 hours and evaluated for overall performance prior to shipping. Checkpoints include temperature regulation, power usage, electrical ground integrity, reverse polarity, and interior/exterior structure inspection.