

A. **Sheldon 31400 Climatarium II:**

TP 12.21.17

Controlled Environment Center (Fixed) - 56" L. x 28-1/4" W. x 74" H.

1. **Controlled Environment Center:** Consists of a finished Oak case with a metal top frame and removable top that houses a locking control panel, two (2) internal blowers for air circulation, two (2) exhaust air duct collars, and a 6-ft. power cord. The unit also includes a center section with light chambers, a lower vented storage compartment, and a Project Manual.
2. **Center Section:** The center section is divided into four (4) light chambers (two (2) upper and two (2) lower compartments), containing a metal lining on interior ends with a baked white corrosion-resistant surface. Ends are perforated to provide even air circulation in each chamber. Backs and center partition of the four (4) chambers are lined with white plastic laminate. The two (2) upper chambers contain a fixed metal light box with each housing fluorescent lamps on the underside. The two (2) lower chambers each contain a metal light box with an integral water-tight tray on the top side for use in the upper chamber. The light box is adjustable on 3" centers and houses fluorescent lamps on the underside. Light boxes have a baked white corrosion-resistant surface. The bottom of each lower chamber contains a removable water-tight, pull-out stainless steel tray. The center section is enclosed with two (2) sliding doors with aluminum frames, lock, and tinted Lexan panels to minimize entry of exterior light.
3. **Light Chambers:** Each of the four (4) metal light boxes contain a light bank housing four (4) Sylvania GRO-LUX (or equal) lamps, and four (4) colored lamps. One (1) chamber has (4) red lamps, another has four (4) blue lamps, another has four (4) green lamps, and the fourth chamber has four (4) yellow lamps, for a total of sixteen (16) colored lamps, and a total of sixteen (16) GRO-LUX lamps, or a grand total of thirty (32) fluorescent lamps.
4. **Control Panel:** The panel, with a lockable, hinged, clear plastic cover contains a power control on/off switch that controls the master 15-amp circuit breaker, a thermostat dial that activates an internal fan to lower the temperature range to ambient, and a light switch for each of the four (4) chambers that allows use of either the group of colored lamps or the group of GRO-LUX lamps to be turned off or on in that chamber. Each set of chamber lights can also be controlled with its own 24-hour photo-period timer that has an off/on/auto switch, 12-hour AM and PM segments, with each hour having three (3) 20-minute timed intervals set with tripper tabs adjusted on perimeter of timer dial when timer switch is in the ON position.
5. **Lower Section Storage Compartment:** Provided with two (2) hinged grilled doors separated with a grilled panel.
6. **Unit Ventilation:** Provided by (2) internal 115VAC blowers, each circulating 70 CFM of air at 2870 RPM from lower section through the center section and top frame, and out through two (2) 3" duct collars into ductwork to the building exterior. **Ductwork to building exterior not included.**