

**THERMOLINEAR**





- Control panel includes separately locked plexiglass door for operating controls and a separate locked door for relays, fuses and other circuitry
- Independent high/low temperature alarms with dedicated sensors
- High/low temperature alarms interfaced with cooling/heating functions
- Electric defrost standard utilizing low density tubular heaters contained within evaporator coil and defrost temperature termination thermostat to minimize defrost duration
- Temperature uniformity up to  $.5^{\circ}\text{C}$  throughout room;  $.2^{\circ}\text{C}$  at controlling temperature sensor
- Ceiling conditioning plenum contains copper tube evaporator coil, low density tubular heater and lighting system
- Refrigeration system operates continuously for maximum longevity, all motor compressors have 5 year warranty
- Room top mounted condensing unit standard. Remote outdoor air cooled, water cooled or cooling tower systems available
- Microprocessor based temperature/humidity controllers used exclusively. Digital setpoint with digital induction standard
- 12" circular, 7 day chart recorder with dedicated sensor standard available
- Optional humidification system includes stainless steel vapor generator with auto-timed flush, proportional output for control of 2% RH

Standard room heights of 7'6", 8'6", 9'6", 10'6" and 12'0"

Standard rooms of multi-range temperatures of  $-20^{\circ}\text{C}$  to  $0^{\circ}\text{C}$ ,  $0^{\circ}\text{C}$  to  $+10^{\circ}\text{C}$ ,  $+10^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ , and  $40^{\circ}\text{C}$  to  $60^{\circ}\text{C}$  (other ranges available)

Flush, self closing door with magnetic gasket, cylinder key lock and inside safety release

14' x 24' viewing window in door available

Uniform fluorescent lighting (above  $0^{\circ}\text{C}$ ) for maximum illumination

Floors designed to withstand uniformly distributed loads of 600 lbs. per square foot

Standard interior/exterior finishes of stucco embossed galvanized steel

Optional interior/exterior finishes of white stucco embossed aluminum, stainless steel or painted (any color)

Cam-action panel fasteners

Ceiling, wall and floor panels are 4" foamed-in-place 100% urethane with tongue and groove foam edges

All panels have fire classification according to ASTM E-84 as performed by Factory Insurance System test and bears Factory Mutual label

All panels have flame spread rating of 25 or less with smoke density of no greater than 450

Panels have overall coefficient of heat transfer (U factor) of no greater than .029. "R" factor is 34

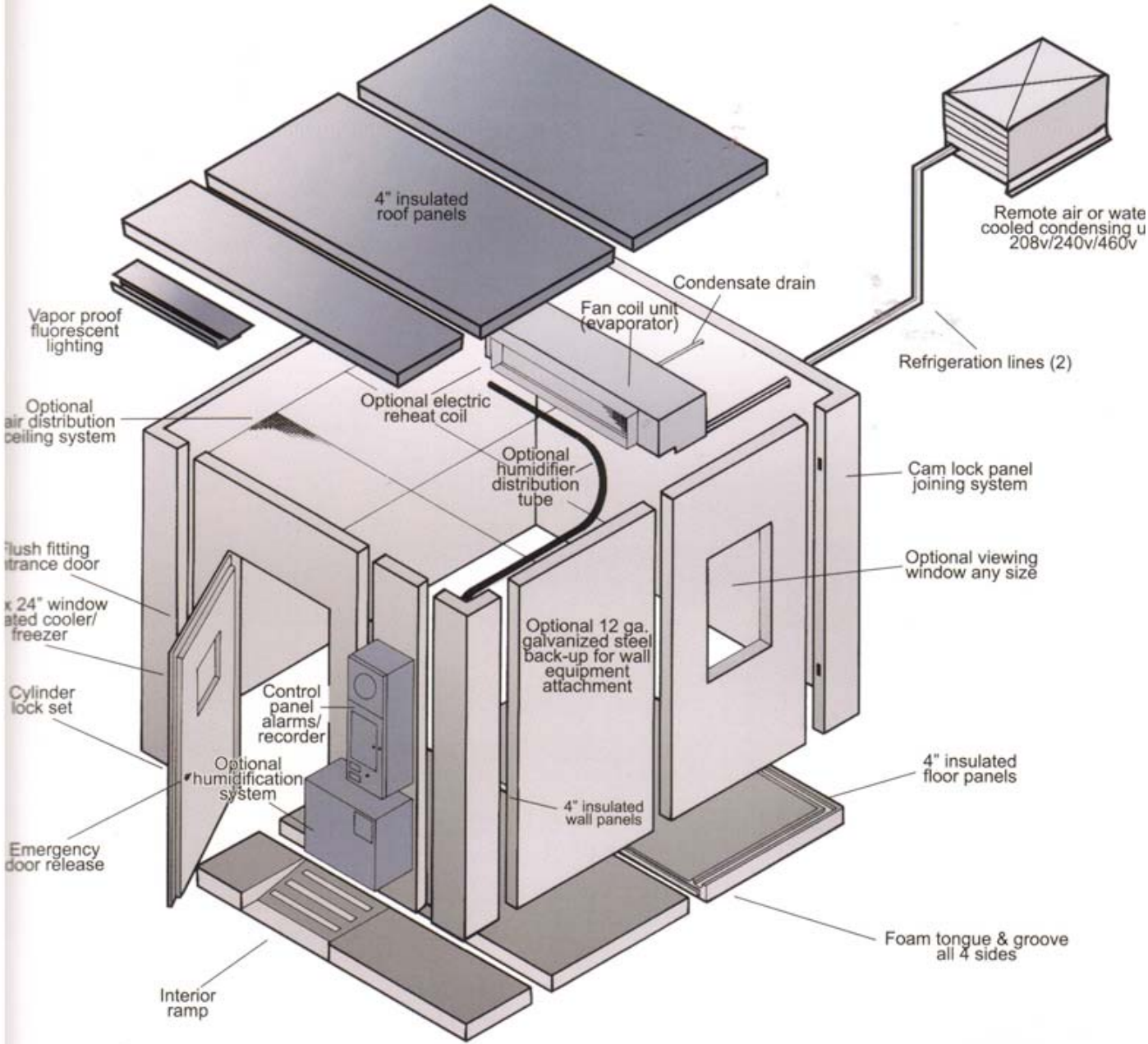
Panels covered by 10 year warranty



Standard accessories subject to change without notice



# Typical Controlled Environment Room



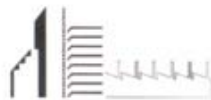


Since 1990, Thermolinear has been providing unique, turnkey environmental rooms for various chemical, pharmaceutical, electronic and institutional markets. Our extensive engineering staff excels in designing unusual rooms for specific applications and architectural configurations. We specialize in cold rooms, incubators, clean rooms, explosion proof rooms, stability rooms and chemical storage rooms. Our user-friendly microprocessor controls provide optimum accuracy for precise temperature and humidity control and can be adapted to interface with our clients data acquisition systems.

Thermolinear rooms are complimented by our experienced refrigeration service department. Our highly skilled pipefitters, carpenters and electricians install, test, and start up all systems to insure a complete quality installation.



## CONTROLLED ENVIRONMENTAL ROOMS



*The Cincinnati Air Conditioning Co.*

A Division of Cincinnati Air Conditioning Co.

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