

Steady-State Stability Chambers

Lunaire's steady-state chambers is available in four convenient workspace sizes of 8, 16, 32, and 58-cubic-feet with a variety of temperature and humidity combinations, these chambers provide the flexibility for a wide range of uses. The CEO Model chambers feature a high volume horizontal type airflow with electric heating and refrigeration systems.

Applications include ICH Q1A stability testing, accelerated shelf-life studies, package testing, controlled temperature storage, bio-medical research among many others. Chambers can also be configured as intrinsically safe to allow for hazardous materials testing applications.

►ICH Q1A Pharmaceutical Stability Guidelines

- Long Term: 25°C/60% RH, 25°C/40% RH, 30°C/35% RH or 30°C/65% RH
- Intermediate: 30°C/65% RH
- Accelerated: 40°C/75% RH, 25°C/60% RH





▶ Features

- All models feature vapor-tight, continuously welded stainless steel interiors
- 2-inch access port is standard on rear
- Temperature and humidity conditions are controlled with the Watlow F4T 1/4 DIN controller
- Data logging and Graphical trend chart for Watlow F4T controller
- Ethernet communication
- USB port
- Horizontal recirculation conditioning system
- Adjustable semi-pierced duct walls
- Stainless steel shelves
- Incoloy-sheathed tubular heaters
- Single stage reciprocating compressor
- Automatic hot gas defrost
- Platinum RTD temperature sensor
- Solid state humidity sensor
- Heavy-duty leveling casters



Continuously welded stainless steel interior and adjustable semi-pierced duct walls shown in photo above.

CEO 916-2

CEO Temperature / Humidity Stability Test Chamber Specifications

CEO 932-2

CEO 932-4

32

CEO 958-2

58

CEO 958-4

CEO 916-4

16

*±1.5°C uniformity at 70°C in CEO 958 model

Note applicable to all models above:

Model

Cubic Feet

- 1. Specifications are subject to change without notice.
- 2. Performance is based upon an empty chamber operating at 24°C (75°F) ambient air.

CEO 908-2

CEO 908-4

8

- 3. 50Hz and special voltages available upon special request. Consult factory for additional information.
- 4. On 50Hz or higher than 24°C ambient conditions, performance may be reduced.

▶ Available Options*

- RS 232 or RS485 communications
- Data logging and graphical trend chart for Watlow F4T controller
- 5 gallon water reservoir**
- Recirculating system for humidity water**
- Water demineralizer**
- Reverse osmosis system**
- Condensate pump**
- External dryer for obtaining humidity levels as low as 5%**
- Additional ports
- Additional stainless steel shelves
- Stainless steel exterior
- Heated viewing window
- Interior lighting
- Recording Instruments
- OTP high limit control
- Interior non-sealed Lexan door
- Interior vapor proof duplex receptacle
- NIST Calibration
- Tenney Environmental offers calibration services accredited to the ISO 17025 standard
- Additional engineered to order custom configurations available
- *Consult your Tenney/Lunaire Environmental Sales Representative for a full list of available options.

^{**}Humidity models only.



Baker Furnace, Blue M, Gruenberg, Lindgerg/MPH, Lunaire, Tenney, Wisconsin Oven

Address: 2821 Old Route 15 | New Columbia, PA 17856-9396 | USA

Phone: (570) 538-7200 | Fax: (570) 538-7380 info@thermalproductsolutions.com

Specifications and Product Information are subject to change without notice.