



Steady-State Food & Drug Stability Chambers

Lunaire's steady-state chambers are available in four convenient sizes. With workspace sizes of 8, 16, 32, and 58-cubic-feet and a variety of temperature and humidity combinations, these chambers provide the flexibility for a wide range of uses.

Watlow F4 Controller allows remote and unattended operation in setting up programs and setpoints. The F4 also allows easy control over both temperature and humidity settings in one controller. Common design elements of the chambers allow shelves to be interchanged among different models. Streamlined design allows Thermal Product Solutions to ship chambers customized to the customer's needs in far less time than previous product lines. Customers with several CEO chambers, even if different sizes, now have consistent controls, utility requirements, and heat output, so plant management issues are greatly reduced.

► Applications Include

- International Committee of Harmonization (ICH) applications
- Accelerated shelf-life studies
- Steady-state testing
- Stability testing
- Burn-in
- Curing
- Controlled temperature storage
- Bio-medical research

► Features

- Remote and unattended operation in setting up programs and setpoints
- Easy control over both temperature and humidity settings
- Non-ramping, manual mode
- Serial communications capabilities via the EIA-232 and EIA-485 standards
- Modbus RTU protocol
- Direct printing to a serial printer
- Direct connection to a PLC, or computer workstation
- High-definition LCD display with four digital input lines
- Two alarm outputs and eight digital event outputs
- Installation has also been improved with the addition of new combination casters/leveling legs



Model	Non-humidified	CEO 908-2		CEO 916-2		CEO 932-2		CEO 958-2		
	Humidified		CEO 908-4		CEO 916-4		CEO 932-4		CEO 958-4	
Workspace inches/cm	W	33/84		33/84		33/84		60/152		
	D	28/71		28/71		28/71		28/71		
	H	15/38		30/76		60/152		60/152		
Exterior inches/ cm	W	39/99		39/99		39/99		70/178		
	D	32/81		32/81		32/81		32/81		
	H	46/117		61/155		91/231		91/231		
No. of Shelves		1		2		4		8		
No. of Shelf Guides		4		9		19		38		
Temperature Range	Low	0								
	High	99°C								
Utilities	Refrigeration (HP)		1/2				3/4			
	Heater Capacity		2 kW				6 kW			
	Humidifier	kW	1.5				3			
		GPH	0.5				1			
AMPS @ 208/230, 3-WIRE, 1Ph-60Hz		20	24	20	24	20	24	43	56	
AMPS Breaker		30	30	30	30	30	30	60	70	
Over-current protection recommended										
Unit Weight	Lbs.	375	400	425	450	524	550	1850	1900	

Humidity capability: above ambient to 20% to 96% RH on -4 models. Based on ambient conditions of 22°C and 50% RH, limited by a 5°C dew point temperature.

Control tolerance: $\pm 0.3^\circ\text{C}$ and $\pm 2\%$ after stabilization.



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