



Heratherm Environmental Chambers offer exceptional environmental control in a hassle-free chamber that is easy to program and use.

## Modern appearance, advanced performance

Sleek in appearance, our chambers blend aesthetics and precise environmental controls with cutting-edge technology. Thermo Scientific<sup>™</sup> Heratherm<sup>™</sup> Environmental Chambers offer reliable and consistent performance supported by data capture and validation for 21 CFR Part 11. They are excellent for use in controlled environments with flexible configurations to meet the demands of academic and industrial workflows.

#### Our commitment to sustainability ensures responsible workflows.

Reduce your environmental footprint\* while achieving outstanding results with Heratherm Environmental Chambers' decreased water and energy consumption and Peltier technology.

- Water-efficient humidification system with integrated water tank and optional clean water connection.
- Peltier technology supports temperature stability and uniformity with lower energy usage compared to traditional compressors.
- Vertical low-energy LED lighting includes UV light and programmable light spectrum and day/night cycles.

#### Additional advanced features of Heratherm Environmental Chambers include:

- Four models available offering various controlled climates including humidity, temperature, light and UV light for testing, and CO<sub>2</sub> incubation.
- Appropriate for controlled environments:
  - Programmable interface for open or restricted user modes
  - Data logging for 21 CFR Part 11 and remote data monitoring needs
  - ICH stability and photostability testing addressing temperature, humidity, light, and UV exposure according to guidelines Q1A(R2) and Q1B
  - Available IQ/OQ qualifications service; visit thermofisher.com/chamberservice
- Security features including overtemperature alarm and switch off features, door alarms, restricted protocol programming, various alerts, and manual/automated door locking.
- Ease-of-use features including dual access ports for maximum flexibility and rounded corners for easy cleaning.

#### At-a-glance environmental chamber comparison

Chamber type	Size	Temperature range	Humidity	Light	CO <sub>2</sub>	Cat. No.
Heratherm Light Chamber						
Solid exterior door with interior glass door	750 L (26.5 cu. ft.)	0 – 70°C (15 – 45°C)*	10 - 90% RH	LED technology	_	ELS750
Glass exterior door	750 L (26.5 cu. ft.)	0 – 70°C (15 – 45°C)*	10 – 90% RH	LED technology	_	ELG750
Heratherm Stability Chamber						
Solid exterior door with interior glass door	750 L (26.5 cu. ft.)	0 – 70°C	10 - 90% RH	_	_	ESS750
Glass exterior door	750 L (26.5 cu. ft.)	0 – 70°C	10 – 90% RH	_	_	ESG750
Heratherm CO <sub>2</sub> Chamber						
Solid exterior door with interior glass door	750 L (26.5 cu. ft.)	0 – 45°C	10 – 90% RH	_	0 – 20% v/v	ECS750
Glass exterior door	750 L (26.5 cu. ft.)	0 – 45°C	10 - 90% RH	_	0 – 20% v/v	ECG750
Heratherm Incubation Chamber						
Solid exterior door with interior glass door	750 L (26.5 cu. ft.)	0 – 70°C	_	_	_	EIS750
Glass exterior door	750 L (26.5 cu. ft.)	0 – 70°C	_	_	_	EIG750

<sup>\*</sup> with LED light switched on

<sup>\*</sup> When you upgrade from current models to new models.

# Heratherm Light Chambers

Get extensive environmental control with versatile LED light distribution settings along programmable temperature and humidity ranges.



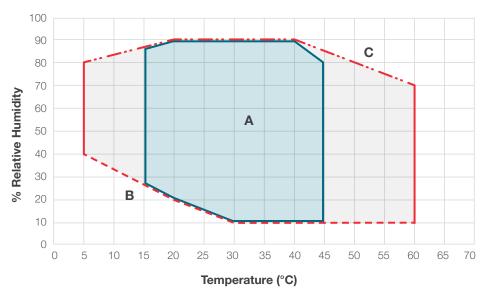
#### \* As shown in graph area A, based on testing June 2023 to April 2024

### High-performance light settings for specialized applications including ICH testing, animal hatching and plant growth. Features include:

- Accurate and even light distribution throughout chamber.
- Increased energy efficiency and sustainability with long-lasting LED lighting, compared to florescent bulbs – no hazardous metal mercury.
- Programmable range of light color and intensity available across red, blue and white color spectrums, and UV channel on ICH mode.
- Fits up to 3 light modules, sold separately as accessories.
- Broad relative humidity range to cover many applications, including humidity levels below ambient.
- Environmentally friendly water-efficient humidification system.
- Minimal condensate in standard applications.\*
- Integrated water tank; fixed water connection for in-house purified water option available.
- Energy-efficient Peltier technology supports temperature stability and uniformity with lower energy usage compared to traditional compressors and without hazardous refrigerant.
- Two access ports for independent data capture, and internal documentation of set and actual parameter values, along with event log to meet 21 CFR Part 11 requirements for process documentation. **NOTE:** Factory-installed electrical sockets not available for this model.
- Data retrieval via USB stick, Ethernet connection, or Thermo Cloud via OPC-UA™ standard.
- Sample and process protection: Assign personalized access with user IDs; restrict access with standard door lock, or optional automated door lock; various alarm options to prevent operator of process issues.
- Intuitive touchscreen interface with easy programmability of temperature cycles and process duration.
- Simplified set-up with no technician required; install using standard power cord.
- IQ/OQ qualifications and other services available; visit thermofisher.com/chamberservice.
- Additional features: Inner glass door keeps environments stable, even when opening outer door. Rounded corners for easy cleaning if space allows.

# Temperature and relative humidity ranges

#### Heratherm Light Chamber with temperature and RH control

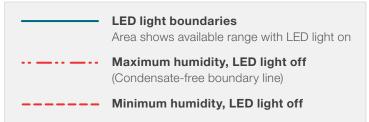


#### Relative humidity - temperature

(Reference ambient condition: 22°C; <50% rel. humidity)

#### With activated LED light:

Temp: 15 – 45°C RH: 10 – 90%



#### Area A:

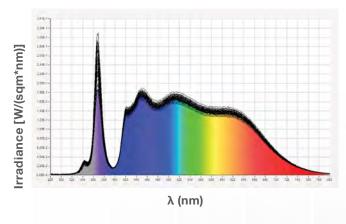
Effective temperature and humidity range. (Condensate-free area)

#### Area B:

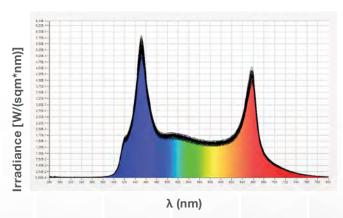
Very low temperature and humidity area. Reachable only if the ambient condition is significantly lower and the chamber samples are very dry

#### Area C:

Immediate condensation formation area at coldest point of unit



This graph shows the range of the light spectrum inside the Light Chamber when set with ICH light modules.



This graph shows the range of the light spectrum inside the Light Chamber when set up with plant growth light modules.







# **Specifications**

### **Heratherm Light Chambers**

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Specifications	ELS750	ELG750		
Chamber size	750 L (26.5 cu. ft.)	750 L (26.5 cu. ft.)		
Door type	Solid door with inner glass door	Exterior glass door		
Temperature	•			
Temperature range	0 – 70°C	0 – 70°C		
Temperature range with light	15 – 45°C	15 – 45°C		
Temperature increments	0.1°C	0.1°C		
Humidity				
Humidity range at 37°C	10 – 90% RH	10 – 90% RH		
Humidity increments	0.1%	0.1%		
Water consumption	0.2 – 1.5 L / day*	0.2 - 1.5 L / day*		
Light				
Number of light modules	1 to 3	1 to 3		
Choice of light modules	ICH, plant growth/animal hatching/testing	ICH, plant growth/animal hatching/testing		
Electrical				
Voltage, power	100 – 240 V, 50/60 Hz, 1650 W	100 – 240 V, 50/60 Hz, 1650 W		
Power plug **	Standard plug, based on country	Standard plug, based on country		
Energy consumption	3.5 to 21 kWh per day*	3.5 to 21 kWh per day*		
Shelving				
Shelves (std. / positions)	3 / 36	3 / 36		
Shelf construction	Perforated stainless steel, Type 1.4301 / AISI 304	Perforated stainless steel, Type 1.4301 / AISI 304		
Dimensions				
Internal dimensions (WxHxD)	840 x 1450 x 630 mm (33.07 x 57.09 x 24.8 in.)	840 x 1450 x 630 mm (33.07 x 57.09 x 24.8 in.)		
Exterior dimensions (WxHxD)	1080 x 1835 x 885 mm (42.52 x 72.24 x 34.84 in.)	1080 x 1835 x 885 mm (42.52 x 72.24 x 34.84 in.)		
Shipping weight	381 kg (840 lbs.)	372 kg (820 lbs.)		
Certifications				
	UL, CE	UL, CE		

NOTE: 24-month warranty standard with Heratherm Environmental Chambers

<sup>\*</sup> Value depends on settings, usage and environmental conditions.

<sup>\*\*</sup> Standard power cords are available for all countries. Please reach out to your representative for more information.

# Environmental chamber factory-installed options

Factory-installed options must be selected when ordering an environmental chamber. These options cannot be retrofitted after delivery.

Option	Description	Includes	Cat. No.
Electrical outlets USA	Two interior electrical outlets US. Available with models EIS750, EIG750, ESS750, ESG750, ECS750, ECG750	Two electrical outlets with cover, on left side of inner chamber, US NEMA 5-15, 120 V, 60 Hz. <b>NOTE:</b> Maximum settings of temperature / humidity levels are restricted to 40°C / 80% with this option.	OUTLUS
Electrical outlets EU (Schuko)	Two interior electrical outlets EU (Schuko). Available with models ElS750, ElG750, ESS750, ESG750, ECS750, ECG750.	Two electrical outlets with cover, on left side of inner chamber, EU Schuko, 230 V, 50 Hz. <b>NOTE:</b> Maximum settings of temperature / humidity levels are restricted to 40°C / 80% with this option.	OUTLEU
Electrical outlets China	Two interior electrical outlets China. Available with models EIS750, EIG750, ESS750, ESG750, ECS750, ECG750.	Two electrical outlets with cover, on left side of inner chamber, China, 230 V, 50 Hz. Note: Maximum settings of temperature / humidity levels are restricted to $40^{\circ}$ C / $80\%$ with this option.	OUTLCH
Electrical outlets UK	Two interior electrical outlets UK. Available with models EIS750, EIG750, ESS750, ESG750, ECS750, ECG750.	Two electrical outlets with cover, on left side of inner chamber, UK, 230 V, 50 Hz. <b>NOTE:</b> Maximum settings of temperature / humidity levels are restricted to 40°C / 80% with this option.	OUTLUK
Electrical outlets India	Two interior electrical outlets India. Available with models EIS750, EIG750, ESS750, ESG750, ECS750, ECG750.	Two electrical outlets with cover, on left side of inner chamber, India, 230 V, 50 Hz. <b>NOTE:</b> Maximum settings of temperature / humidity levels are restricted to 40°C / 80% with this option.	OUTLIND
Electrical outlets Australia	Two interior electrical outlets Australia. Available with models ElS750, ElG750, ESS750, ESG750, ECS750, ECG750.	Two electrical outlets with cover, on left side of inner chamber, Australia, 230 V, 50 Hz. <b>NOTE:</b> Maximum settings of temperature / humidity levels are restricted to 40°C / 80% with this option.	OUTLAUS
Electrical outlets Switzerland	Two interior electrical outlets Switzerland. Available with models ElS750, ElG750, ESS750, ESG750, ECS750, ECG750.	Two electrical outlets with cover, on left side of inner chamber, Swiss outlet, 230 V, 50 Hz. NOTE: Maximum settings of temperature / humidity levels are restricted to 40°C / 80% with this option.	OUTLSWI
Left hinge door	Left hinge door	Door with left hinge.	LHDOOR
Automated door lock	Automated, motorized door lock: opening and closing is done via the user interface.	Door lock is automated and can be locked / unlocked by user interface. Protection with user ID / password.	AUTOLOCK
Shaker shelving	Shaker shelving: 1 shaker shelf installed at middle of workspace (please add interior outlet choice as a separate line item if needed)	Note that changes in position of the shelf or additional shaker shelves need to be installed by a qualified technician for safety reasons. Standard shelves can be used as needed in addition.	SHAKESH
External water connection	Chamber does not contain a water tank. An external water connection must be connected to the chamber for water supply.	Note the required water quality resistance range of 50 K to 1 M Ohm*cm.	EXTWATER

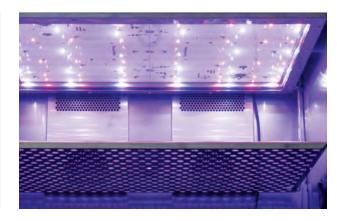
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# **Environmental chamber accessories**

Accessory	Description	Includes	Cat. No.
Shelving			
Perforated stainless steel shelf kit 750L	Perforated stainless steel shelf, including shelf holders for 750 L models of the Heratherm environmental chambers: 30 kg max. capacity	1 perforated shelf and 2 shelf supports	333946
Reinforced stainless steel shelf kit 750L	Reinforced stainless steel shelf, including shelf holders for 750 L models of the Heratherm environmental chambers: 90 kg max. capacity	1 reinforced perforated shelf and 2 shelf supports	333950
Wire mesh shelf kit 750L	Wire mesh shelf, including shelf holders for 750 L models of the Heratherm environmental chambers; 30 kg max. capacity	1 wire mesh shelf and 2 shelf supports	333948
Humidity system			
Water tank	Extra tank, includes tubing	1 water tank (5L), tubing to connect	33267G01
Light system			
Light module 1	Light module for ICH, with white, red and blue LED lights, and UV LED light	1 module with LED, connection and 2 shelf supports	333979
Light module 2	Light module plant / animal with white, red and blue LED lights	1 module with LED, connection and 2 shelf supports	333980













Learn more at thermofisher.com/chambers

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