

Heratherm Environmental Chambers - 250L Models

	EIS250/EIG250 - Incubation Chambers	ESS250 / ESG250 - Stability Chambers	ECS250/ECG250 - CO ₂ Chambers
Specification	Description	Description	Description
Models	Cat. No.	Cat. No.	Cat. No.
Solid door with inner glass door	EIS250	ESS250	ECS250
Exterior glass door	EIG250	ESG250	ECG250
Overview	Overview	Overview	Overview
Chamber size	250 L / 8.8 cu. ft.	250 L / 8.8 cu. ft.	250 L / 8.8 cu. ft.
Controller: Microprocessor	PID - temperature, with programmability	PID - temperature, relative humidity (RH), with programmability	PID - temperature, relative humidity (RH), CO ₂ with programmability
User interface	7-in. display with capacitive touchscreen	7-in. display with capacitive touchscreen	7-in. display with capacitive touchscreen
Temperature	Temperature	Temperature	Temperature
Temperature range	0 to 70 °C / 15 to 40 °C with optional socket	0 to 70 °C / 15 to 40 °C with optional socket	0 to 70 °C / 15 to 40 °C with optional socket
Temperature range with humidity	N/A	5 to 60 °C / 15 to 40 °C with optional socket	5 to 60 °C / 15 to 40 °C with optional socket
Temperature range with CO ₂	N/A	N/A	15 to 45 °C / 15 to 40 °C with optional socket
Temperature increments	0.1 °C	0.1 °C	0.1 °C
Peltier cooling / heating capacity	ΔT ≥ 23 C / ΔT ≥ 50C	ΔT ≥ 23 C / ΔT ≥ 50C	ΔT ≥ 23 C / ΔT ≥ 50C
Temp. uniformity at 20°C to 37°C	≤ ±0.5 °C	≤ ±0.5 °C	≤ ±0.5 °C
Temp. stability at 20°C to 37°C	≤ ±0.1 °C	≤ ±0.1 °C	≤ ±0.1 °C
Heat up time to 37°C	≤ 35 min	≤ 35 min	≤ 35 min
Heat up time to 60°C	≤ 90 min	≤ 90 min	≤ 90 min
Cool down time to 0°C	≤ 120 min	≤ 120 min	≤ 120 min
Recovery time at 37°C	≤ 5 min	≤ 5 min	≤ 5 min
Humidity	Humidity	Humidity	Humidity
Humidity range at 37°C	N/A	10 - 90% RH	10 - 90% RH
Humidity increments	N/A	0.1 % RH	0.1 % RH
Humidity stability	N/A	≤ ±2% RH	≤ ±2% RH
Water consumption	N/A	≤ 0.25 L per day*	≤ 0.25 L per day*
Water specification	N/A	Deminerlized water, resistance = 0.05 - 1 MΩ	Deminerlized water, resistance = 0.05 - 1 MΩ
Water supply	N/A	Water reservoir 5L	Water reservoir 5L
CO₂			
CO ₂ range	N/A	N/A	0 - 20 Vol-%
CO ₂ increments	N/A	N/A	0.1%
CO ₂ Sensor accuracy at 37 °C and 5 %	N/A	N/A	CO ₂ ± 0.2 % CO ₂
CO ₂ - fumigation time at climate set point 37 °C- 90 % RH and 5 % CO ₂	N/A	N/A	≤14 min
CO ₂ - recovery time at climate set point 37 °C- 90 % RH and 5 % CO ₂	N/A	N/A	≤13 min
CO ₂ increments	N/A	N/A	0.1%
Electrical	Electrical	Electrical	Electrical
Voltage, power	100 - 240 V, 50/60 Hz, 600 W 120 VAC; 50/60 Hz; 900 W (w. interior socket US) 230 VAC; 50-60 Hz; 1100 W (w. interior socket EU)	100 - 240 V, 50/60 Hz, 900 W 120 VAC; 50/60 Hz; 1100 W (w. interior socket US) 230 VAC; 50-60 Hz; 1400 W (w. interior socket EU)	100 - 240 V, 50/60 Hz, 900 W 120 VAC; 50/60 Hz; 1100 W (w. interior socket US) 230 VAC; 50-60 Hz; 1400 W (w. interior socket EU)
Energy consumption	2.5 - 7.0 kWh per day*	2.5 - 9.2 kWh per day*	2.5 - 9.2 kWh per day*
Power plug:			
Standard plug, based on country	US, EU (Schuko), UK, CN, IN ,AU, CH, JP**, DK**	US, EU (Schuko), UK, CN, IN ,AU, CH, JP**, DK**	US, EU (Schuko), UK, CN, IN ,AU, CH, JP**, DK**
Power cord length	3 m/9.8 ft power cord	3 m/9.8 ft power cord	3 m/9.8 ft power cord
Shelving / load	Shelving / load	Shelving / load	Shelving / load
Shelves (std. / positions)	2 / 17	02 / 17	02 / 17
Shelf construction	Perforated stainless steel, Type 1.4301 / AISI 304	Perforated stainless steel, Type 1.4301 / AISI 304	Perforated stainless steel, Type 1.4301 / AISI 304
Shelf dimensions (w x d)	615 x 460 mm / 24.2 x 18.1 in.	615 x 460 mm / 24.2 x 18.1 in.	615 x 460 mm / 24.2 x 18.1 in.
Shelf surface area	0.28 m ² / 3.0 ft ²	0.28 m ² / 3.0 ft ²	0.28 m ² / 3.0 ft ²
Max. load on shelf	15kg / 33 lbs. (pulled out); 30 kg / 66.1 lbs. (stationary)	15kg / 33 lbs. (pulled out); 30 kg / 66.1 lbs. (stationary)	15kg / 33 lbs. (pulled out); 30 kg / 66.1 lbs. (stationary)
Max. load on reinforced shelf	15kg / 33 lbs. (pulled out); 90 kg / 198.4 lbs. (stationary)	15kg / 33 lbs. (pulled out); 90 kg / 198.4 lbs. (stationary)	15kg / 33 lbs. (pulled out); 90 kg / 198.4 lbs. (stationary)
Max. total load	136 kg / 300 lbs.	136 kg / 300 lbs.	136 kg / 300 lbs.
Dimensions	Dimensions	Dimensions	Dimensions
Internal dimensions (WxHxD)	660 x 800 x 519 mm / 26 x 31.5 x 20.4 in.	660 x 800 x 519 mm / 26 x 31.5 x 20.4 in.	660 x 800 x 519 mm / 26 x 31.5 x 20.4 in.
Exterior dimensions (WxHxD)	901 x 1128 x 790 mm / 35.5 x 44.45 x 31.1 in.	901 x 1128 x 790 mm / 35.5 x 44.45 x 31.1 in.	901 x 1128 x 790 mm / 35.5 x 44.45 x 31.1 in.
Shipping weight	Shipping weight	Shipping weight	Shipping weight
ExS250 (solid door model):	208 kg / 459 lbs.	208 kg / 459 lbs.	208 kg / 459 lbs.
ExG250 (glass door model):	203 kg / 448 lbs.	203 kg / 448 lbs.	203 kg / 448 lbs.
Installation space requirements			
Back wall:	200 mm / 7.9 in.	200 mm / 7.9 in.	200 mm / 7.9 in.
Side wall:	150 mm / 5.9 in.	150 mm / 5.9 in.	150 mm / 5.9 in.
Ceiling:	500 mm /19.7 in.	500 mm /19.7 in.	500 mm /19.7 in.
General information			
Connectivity Back:	Back side: USB, Dry contact; Front: USB	Back side: USB, Dry contact; Front: USB	Back side: USB, Dry contact; Front: USB
Access port - standard	2 - right and left side	2 - right and left side	2 - right and left side
Calibration certificate included	37 °C	30 °C / 60% RH	37 °C / 90% RH
Certifications	UL, CE, UKCA	UL, CE, UKCA	UL, CE, UKCA

* Value depends on settings, usage, and environmental conditions