Incucell V

Microbiological Incubators



Temperature range:	Ambient +10°C – 100°C
Chamber volume:	2 cu. ft. (55 L) – 43 cu. ft. (1212 L)
Controller:	ECO standard or EVO advanced microprocessor
Housing material:	Galvanized mild steel, painted
Chamber material:	AISI 304 stainless steel
Regulatory labels:	CE, UL, and CSA listed



ECO Controller:

- 3" LCD with keypad operation
- 9 programs, 2 segments each, up to 99 cycles
- Real-time programming, optional temperature ramp settings
- Cycle status display
- Acoustic and visual alarms: temperature and time
- USB, RS-232, and optional Ethernet connectivity
- Keypad lock against unauthorized access



EVO Controller:

- 5.7" touch display, color, glove-friendly operation
- Up to 100 programs, up to 100 segments each, unlimited cycles
- Real-time programming with temperature ramp settings
- Fan adjustments in 1% increments
- Graphic cycle display
- Acoustic and visual alarms: temperature and time
- USB, SD card, RS-232, and optional Ethernet connectivity
- Multi-level secure user authentication

Standard Equipment:

- Patented forced air convection system with simultaneous vertical and horizontal airflow for precise temperature uniformity
- Fuzzy Logic microprocessor for real-time adaptive control
- Integrated 30-day data logger with Excel-formatted export
- AISI 304 stainless steel chamber, double-walled:
  - Seamless main chamber with rounded corners and fully removable inner chamber for ease of cleaning
- Five layers of insulation to minimize heat loss and efficiently maintain chamber conditions
- Shelving brackets molded into inner chamber walls
- Patented 4-point door locking system securely seals the door to the chamber
- Inner glass door allows sample viewing without disrupting chamber conditions
- 2" (50 mm) stainless steel access port for routing sensors, probes, or external connections

Optional Equipment:

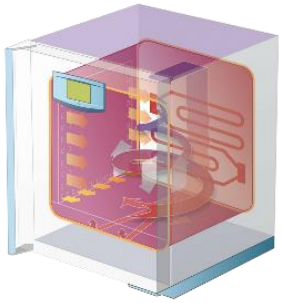
- Stainless steel exterior, AISI 304 or 316
- ECO+, adds 6 program segments (8 total)
- Reinforced heavy-load chamber
- Additional 1" (25 mm), 2" (50 mm), 4" (100 mm) stainless steel access port
- Flexible PT100 temperature sensor
- Ethernet communication port
- Automatic key and door lock
- Door sensor and alarm
- Interior electrical socket, 115 V
- Rolling cart: 55, 111, 222
- BMS contacts (24 V, 1 A)
- 4–20 mA output contacts
- IQ/OQ protocols with 9-pt. or 27-pt. temperature mapping
- USB drive, 30-day data logging: 55, 111
- WarmComm software:
  - 4.0B, data monitoring
  - 4.0P, data monitoring and control
  - 4.0F, supports FDA 21 CFR Part 11 compliance

Incucell V

Microbiological Incubators

	Unit	55	111	222	404	707	1212
Temperature							
Working temperature from ambient	°C	+10 – 100	+10 – 100	+10 – 100	+10 – 100	+10 – 100	+10 – 100
Temperature uniformity	±% of temp.	0.3	0.3	0.3	0.8	1.5	2.3
Temperature uniformity @ 37°C	±°C	0.2	0.2	0.3	0.3	0.3	0.8
Temperature stability	±°C	0.2	0.2	0.2	0.2	0.2	0.3
Time to reach 37°C, closed air flap	minutes	41	51	66	38	51	54
Air exchanges per hour @ 37°C	#	45	49	24	18	12	16
Heat emission @ 37°C	watts	80	95	95	115	135	310
Chamber							
Capacity	cu. ft. / liters	2 / 55	4 / 111	8 / 222	14.3 / 404	25 / 707	43 / 1212
Doors	#	1	1	1	1	2	3
Shelves (standard / max)	#	2 / 4	2 / 7	2 / 10	2 / 19	2 / 19	6 / 3x19
Shelf distance	in / mm	2.8 / 70	2.8 / 70	2.8 / 70	2.8 / 70	2.8 / 70	2.8 / 70
Usable shelf area (w x d)	in	15 x 13.2	20.5 x 13.2	20.5 x 19.1	20.5 x 19.1	36.2 x 19.1	20.5 x 19.1
	mm	380 x 335	520 x 335	520 x 485	520 x 485	920 x 485	520 x 485
Maximum shelf load	lb / kg	44 / 20	44 / 20	66 / 30	66 / 30	44 / 20	66 / 30
Maximum unit load	lb / kg	110 / 50	110 / 50	154 / 70	220 / 100	287 / 130	661 / 300
Overall Dimensions							
Width	in / mm	24.4 / 620	29.9 / 760	29.9 / 760	29.9 / 760	45.7 / 1160	85.6 / 2175
Depth	in / mm	26.8 / 680	26.8 / 680	32.7 / 830	31.1 / 790	31.1 / 790	33.3 / 845
Height*	in / mm	26.8 / 680	33.9 / 860	42.9 / 1090	75.2 / 1910	75.2 / 1910	75.2 / 1910
Weight	lb / kg	121 / 55	165 / 75	220 / 100	331 / 150	474 / 215	1047 / 475
Internal Dimensions							
Width	in / mm	15.7 / 400	21.3 / 540	21.3 / 540	21.3 / 540	37 / 940	3x21.3 / 3x540
Depth	in / mm	14.6 / 370	14.6 / 370	20.5 / 520	20.5 / 520	20.5 / 520	20.5 / 520
Height	in / mm	13.8 / 350	20.9 / 530	29.9 / 760	55.5 / 1410	55.5 / 1410	55.5 / 1410
Electrical							
Voltage	V, Hz	115, 50/60	115, 50/60	115, 50/60	115, 50/60	115, 50/60	230, 50/60
Wattage	watts	700	700	700	1300	1300	4100
Amperage	amps	6	6	6	11.3	11.3	17.8
IP code		IP20	IP20	IP20	IP20	IP20	IP20

*Overall device height measured on feet (55, 111, 222) and on casters (404, 707, 1212).



Patented Forced Air Convection

Simultaneous vertical and horizontal airflow delivers precise temperature uniformity, while bottom-to-top circulation simulates natural convection, improving temperature accuracy and stability.