



Stericell Eco



Patented Forced Air Convection

Dry Heat Sterilization Ovens



The STERICELL® is a dry heat sterilization oven which validates the time and temperature of the sterilization process. Patented forced air convection moves air vertically and horizontally inside the chamber to produce precise temperature uniformity with exceptional drying rates.

The entire sterilization process is secured with an automatic door sensor and will only validate if the process is completed without interruption.

Deposits and substances can be sterilized in closed bottles. Temperature is controlled by a fuzzy logic enabled microprocessor and a PT 100 sensor.



Sterilization of pharmaceutical glassware, devices, and media. Installation in clean rooms



Sterilization of laboratory glassware, devices, and media. Installation in clean rooms



Life science, biology and microbiology sterilization of glassware, devices, and media. Installation in clean rooms



ECO Controller

3" LCD digital display

Fuzzy Logic algorithm constantly monitors chamber conditions & optimizes parameters.

Device sterilization features complies with EU Directive 93/42 / EEC

Audible & visual alarms – temperature & time

Data capture with addition of optional Warmcomm software

USB flash, device & RS232 ports. Optional Ethernet port

Integrated USB 30-day data logger for temperature measure

Air in-flow & exhaust ports

Digital control sensor and independent safety sensor

Delayed heating & start function

Door alarm sensor

The protocols or logs of each sterilization batch can be exported to a USB flash drive, sent to a printer (optional), or saved to a computer using the Printer Archive program (optional)

Preset Validated Sterilization Cycles:

160°C, 170°C, 180°C

Sterilization Exposure Times: 60min / 30min / 20min

Patented Door Closing Mechanism:

4-point patented door locks for exceptional seal of the door to the chamber

Chamber Volumes:

22 (.8 ft³) • 55 (2 ft³) • 111 (4 ft³) • 222 (8 ft³) • 404 (14.3 ft³)

• 707 (25 ft³) - available as custom order or 2-door pass-through model

Chamber Construction:

- AISI 304 stainless steel chamber (AISI 316 SS option available)
- Double wall, seamless main chamber & removeable inner chamber

Electrical Data:

115V 50/60Hz: 22, 55, 111; 230V 50/60Hz: 222, 404

Clean Room Models:

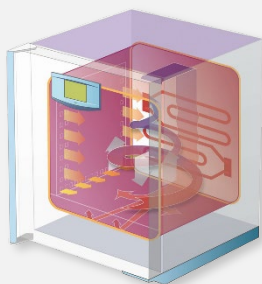
- Pass-through
- Over Pressure to protect "clean" side from "dirty side"



Optional Equipment:

- Access ports 25 (1"), 50 (2"), 100 (4") mm
- Drying time: adjustable temp. 10°C above ambient to 250°C
- Ethernet communication port
- Rolling carts for 22, 55, 111 & 222 models
- HEPA Filter on incoming air inflow
- Exhaust port extension to direct air out of the room
- Particle free modification
- Door sensor and alarm
- Automatic and key door lock
- Warmcomm data acquisition software:
 - ✓ 4.0B – Receive data
 - ✓ 4.0P – Receive data and control the device
 - ✓ 4.0F – FDA 21 CFR part 11 compliant
- BMS – Building monitoring alarm contact
- Flexible PT 100 sensor
- 304 or 316 AISI stainless steel exterior
- USB Flash drive, 30-day data logging: 22, 55, 111
- Inner electrical socket 230V
- IQ / OQ protocols with 9pt or 27pt temperature mapping

Stericell Technical Data		Model	22	55	55-2	111	111-2	222	222-2	404	404-2
Interior Dimensions Chamber: AISI 316 stainless steel	Volume	ft ³	0.8	2	2	3.9	3.9	7.8	7.8	14.3	14.3
		liters	22	55	55	111	111	222	222	404	404
	Width	inches	9.4	15.7	15.7	21.3	21.3	21.3	21.3	21.3	21.3
		mm	240	400	400	540	540	540	540	540	540
	Depth	inches	12.6	14.6	14.6	14.6	14.6	20.5	20.5	20.5	20.5
		mm	320	370	370	370	370	520	520	520	520
	Height	inches	11.8	13.8	13.8	20.9	20.9	29.9	29.9	55.7	55.7
mm		300	350	350	530	530	760	760	1415	1415	
Exterior Dimensions (Including Door, Handle, Leg L, or Caster C)	Width	inches	16	24.4	24.4/34.3	29.9	29.9/39.8R	29.9	29.9/39.8R	29.9	29.9/39.8R
		mm	406	620	620/870R	760	760/1010R	760	760/1010R	760	760/1010R
	Depth	inches	22	26.8	26	26.8	26	32.7	31.9	31.1	31.9
		mm	560	680	660	680	660	830	810	790	810
	Height (inches	24	26.8	26.8	33.9	33.9	42.9	43.7	75.2	75.2
		mm	610L	680L	680L	860L	860L	1090L	1110L	1910C	1910C
Shelves: Stainless Steel	Capacity: # of shelf guides inside chamber	Maximum #	4	4	4	7	7	10	10	19	19
		Standard #	2	2	2	2	2	2	2	2	2
Shelf Distance	Min. distance between trays	Inches	2.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
		mm	60	70	70	70	70	70	70	70	70
Useable Shelf Area	Width x Depth	Inches	7.3x10.4	15x13.2	15x13.2	20.5x13.2	20.5x13.2	20.5x19.1	20.5x19.1	20.5x19.1	20.5x19.1
		mm	185x265	380x335	380x335	520x335	520x335	520x485	520x485	520x485	520x485
Maximum Shelf Load	One Shelf	lbs	22	44.1	44.1	44.1	44.1	66.1	66.1	66.1	66.1
		kg	10	20	20	20	20	30	30	30	30
	Total Per Unit	lbs	55.1	110.2	110.2	110.2	110.2	154.3	154.3	220.5	220.5
		kg	25	50	50	50	50	70	70	100	100
# Outer Metal Doors			1	1	2	1	2	1	2	1	2
Operation Temperature	From 10°C above ambient Temperature	Up to °C	250	250	250	250	250	250	250	250	250
Temperature deviations from sterilizing temperature of 160°C , up to 180°C with door and air flap closed	Temperature Distribution from setpoint	°C Hottest/Cooltest	+5 -1	+5 -1	+5 -1	+5 -1	+5 -1	+5 -1	+5 -1	+5 -1	+5 -1
		Uniformity from setpoint	To °C	+3 -1	+3 -1	+3 -1	+3 -1	+3 -1	+3 -1	+3 -1	+3 -1
Heat Emission	@ 250°C	W	350	590	590	760	760	990	990	1940	1940
Number of Air Exchanges	@ 150°C	Per Hour	45	45	45	49	49	24	24	18	18
Noise Level of Complete Device		dB	<55	<55	<55	<55	<55	<55	<55	<58	<58
Electrical Data	Maximum Input	kW	0.96	1.3	1.9	1.9	2.5	1.9	3.7	3.7	5.5
	Standby Mode	W	5	5	5	5	5	5	5	5	5
	Current	A	8.4	11.3	16.6	16.6	21.2	16.6	19	19	28
	Nominal Voltage	V	115	115	115	115	115	230	230	230	230
IP Code			IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Weight	Net	lbs	68.3	121.3	132.3	165.3	176.4	220.5	231.5	330.7	352.7
		kg	31	55	60	75	80	100	105	150	160
	Gross	lbs	79.4	145.5	156.5	191.8	202.8	255.7	266.8	385.8	407.9
		kg	36	66	71	87	92	116	121	175	185
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BMT Patented Forced Air Convection System

BMT's patented force air convection system moves air vertically and horizontally inside the chamber for precise temperature uniformity and fast heating and cooling times. The process of heating from the bottom of the chamber to the top mimics natural airflow, allowing for more precise simulation of climatic conditions.