

# Stericell

## Validated Dry Heat Sterilization Ovens Patented Forced Air Convection



### Temperature:

160°C, 170°C, 180°C

Sterilization exposure times: 60min, 30 min, 20min.

### Chamber:

- AISI 304 stainless steel (AISI 316 option available).
- Double wall, seamless main chamber with removable inner chamber.
- Patented 4-point door locking system securely seals the door to the chamber.
- Clean room pass-through models available with over pressure to protect the “clean side” from the “dirty side.”

### Electrical:

115V 50/60Hz: 22, 55, 111

230V 50/60Hz: 222, 404

### Optional Equipment:

- Stainless steel exterior: AISI 304 or 316.
- Clean room / pass-through models (p. 5).
- 1" (25mm) / 2" (50mm) / 4" (100mm) access port.
- Flexible PT 100 temperature sensor.
- Heavy load chamber.
- Ethernet communication port
- Automatic key and door lock.
- Door sensor and alarm.
- Interior electrical socket: 115V / 230V.
- Rolling cart for 22, 55, 111, 222.
- BMS contacts (24V, 1A).
- IQ/OQ protocols with 9pt. or 27pt. temperature mapping.
- Warmcomm software:
  - 4.0B - data monitoring.
  - 4.0P - data monitoring and control.
  - 4.0F - FDA 21 CFR part 11 compliance.

Stericell dry heat sterilization ovens validate the time and temperature of three preset sterilization cycles at 160°C, 170°C, and 180°C. The 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.

The patented forced air convection system delivers simultaneous vertical and horizontal airflow for precise temperature uniformity with exceptional drying rates. Temperature is controlled by a fuzzy logic enabled microprocessor and a PT 100 sensor.

### Key Benefits:

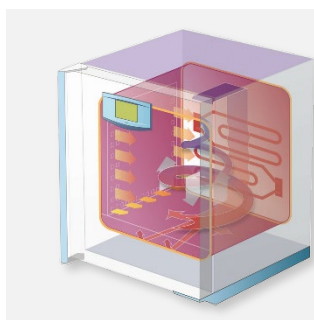
- Three preset validated dry heat sterilization cycles.
- Device will not validate if the sterilization cycle is interrupted.
- Patented forced air convection system with simultaneous vertical and horizontal airflow for precise temperature uniformity.
- Clean room pass-through model available.



### ECO Controller:

- 3" LCD display.
- Fuzzy Logic algorithm constantly monitors chamber conditions and continuously optimizes parameters.
- (9) programs with (2) segments each for varying loads and parameters.
- Real-time programming and cycling.
- Programmable audible & visual alarms - temperature and time.
- Door alarm sensor.
- Delayed heating and start function.
- Digital control sensor and independent safety sensor.
- Air in-flow and exhaust ports.
- USB flash & device, RS232 & optional Ethernet port.
- Integrated USB 30-day data logger for temperature measurement & recording.
- Keypad lock against unauthorized access.
- Optional FDA CFR 21 part 11 compliance.
- 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).
- Device sterilization features complies with EU Directive 93/42 / EEC.

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 <sup>3</sup>	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	21.3
		mm	240	400	400	540	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	20.5
		mm	320	370	370	370	370	520	520	520	520	520
Height	inches	11.8	13.8	13.8	20.9	20.9	29.9	29.9	29.9	55.7	55.7	
	mm	300	350	350	530	530	760	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/coolest	+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	+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	



#### 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.