



Dry-Heat Oven with Natural Gravity Convection

ASSURING YOUR QUALITY



MMM Group

bmtus.com



Research & Laboratory

Sterilization of glassware, devices & media.



Energy & Chemical Industries

Drying of compounds, components & media



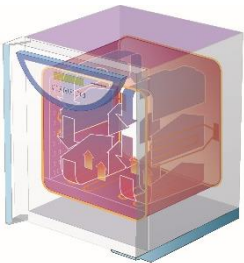
Industrial & Aerospace

Testing of materials durability, components, ageing tests, cables, wiring, seals, etc. under extended heating conditions

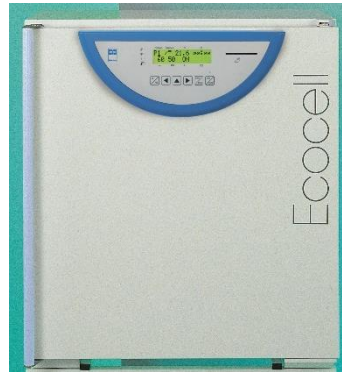


Construction & Transport

Materials testing for quality and durability in the construction industry – cement, paints, asphalt, construction plastics, adhesives, roofing products etc.



Natural Convection
Precise uniformity in the chamber is maintained with the double wall chamber design and 5 layers of insulation.



EcoCell 55



EcoCell 707

The **ECOCELL** natural gravity convection produces no noise or vibration while providing exceptional temperature uniformity.

Applications for the EcoCell include drying glassware, light powders, textiles, soils, and non-flammable chemicals. As well the EcoCell is used in Hospitals and Animal care for warming blankets and bedding

Industrial uses of the EcoCell include testing material durability, (cement, asphalt, roofing, adhesives) component and ageing testing.

Natural Gravity Air Convection

Chamber Volumes 22, 55, 111, 222, 404, 707 liters
.8, 2, 4, 8, 14.3, 25 ft³

Working temperature 5°C above ambient up to 250 °C

300°C optional temperature upgrade available

Access ports (optional)

25 mm (1"), 50 mm (2"), 100 mm (4")

Double Wall – Removable inner chamber for cleaning
Chamber – AISI 304 seamless stainless steel w/ rounded corners

Fuzzy Logic accurate temperatures w/out overshooting

Smart Handle with four-point locking

Comfort Control Panel with Fuzzy Logic Microprocessor



- 6 programs – 40 segments – for varying loads and parameters
- chip card system for individual user program storage
- time range 0 – 16 years with 1 min. intervals
- clear user friendly LCD display
- RS 232 – interface for printer or PC
- delayed heating start & stop function
- programming temperature ramps
- program cycles
- digital safety thermostat
- acoustic and visual alarms

Standard Control Panel with Fuzzy Logic Microprocessor



- 3 adjustable programs for temperature, time and cycles
- RS232 – interface for printer or PC
- delayed heating start & stop function including ramping and cycling
- acoustic and visual alarm
- time range 99 hours 59 minutes
- digital safety thermostat
- manual control of the exhaust damper

Standard Controller Options

- Temperature to 300°C
- access ports 25, 50, 100 mm
- automatic and key door lock
- PT 100 flexible sensor
- stainless steel exterior
- WarmComm 4.0B Software
- door window and interior lighting
- Ethernet communication

Comfort Controller Options

- Temperature to 300°C
- BMS – building monitoring system contacts
- Access ports 25, 50, 100mm
- automatic and key door lock
- WarmComm 4.0P and 4.0F software
- PT 100 flexible sensor
- stainless steel exterior
- door window and interior lighting
- Ethernet communication

Ecocell Specifications			Model	22	55	111	222	404	707
Interior dimensions Interior made of AISI 316L stainless steel	volume	ft ³	.777	1.94	3.92	7.84	14.27	24.97	
		liters	22	55	111	222	404	707	
	width	inches	7.87	15.75	21.26	21.26	21.26	37	
		mm	240	400	540	540	540	940	
	depth	inches	12.60	15.35	15.35	21.26	21.26	21.26	
		mm	320	390	390	540	540	540	
height	inches	11.61	13.78	20.87	29.92	55.51	55.51		
	mm	295	350	530	760	1410	1410		
Shelves	number of shelf guides in chamber side walls	max number	4	4	7	10	19	19	
		shelves incl.	2	2	2	2	2	2	
Maximum weight of load(*)	Per tray	Max lbs	22	44	44	66	66	110	
	Max. inside oven	Max lbs	55	110	110	154	220	286	
Door		No.	1	1	1	1	1	2	
External dimensions (including door and handle)	width	inches	15.98	24.41	29.92	29.92	29.92	45.67	
		mm	406	620	760	760	760	1160	
	depth	inches	22S/ 22.83C	25.2	25.2	31.1	31.1	31.1	
		mm	560S/580C	640	640	790	790	790	
	height	inches	25.20	26.77	33.86	42.91	75.2	75.2	
		mm	640	680	860	1090	1910	1910	
Shipping dimensions	width	inches	18.31	27.95	33.46	33.46	33.46	49.21	
		mm	465	710	850	850	850	1250	
	depth	inches	26.18	28.35	28.35	33.86	33.86	35.83	
		mm	665	730	730	860	860	860	
	height (including pallet)	inches	25.79	35.43	42.52	52	84.65	84.65	
		mm	655	900	1080	1320	2150	2150	
Weight	net	lbs	68.34	121.25	165	221	331	474	
		kg	31	55	75	100	150	215	
	gross	lbs	79.37	134.5	185	258	364	514	
		kg	36	61	84	117	165	233	
Electric parameters 115V unless notes 230V option available	maximum input	kW	.92	1.2	1.8	1.8	3.6	4.5	
	standby mode	W	5	5	5	5	5	5	
	current	A	4.0	10.4	15.7	15.7	3.9;3.9;7.8 10.4;6.8;1 0.4 20.8;13.6; 20.8	3.9;7.8;7.8 10.5;13.5; 10.5 21;27;21	
			nominal voltage	V	115	115	115	115	3 x 230
Working temperature (regular start)	from 5° C over ambient temperature to °C		250	250	250	250	250	250	
Temperature deviation from working temperature.	Temperature Distribution	Appro x. ±% of set temp.	2.7	2	2	2	2.5	3.5	
	Temp. Uniformity	±° C	1.0	0.3	≤ 0.8	≤ 0.8	≤ 1	≤ 1	
Time required to reach 250° C with closed air flap and 230V power		Minutes	34	59	60	99	85	95	
Heat Emissions		W	300	590	760	990	1940	2550	
Air Exchange speed at 150°C		Hour	6	8	12	5	4	3	
* Approx. 50% of the tray area can be filled in a way a uniform air circulation is enabled inside the chamber. Note: All technical data are related to 22° C ambient temperature and +/- 10% voltage swing (if not specified). Changes in design and make are reserved.									



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