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ECOCELL ECO



Dry-Heat Oven Natural Gravity Convection



Research & Laboratory

Sterilization of glassware, devices & media.



Energy & Chemical Industries

Drying of compounds, components & media



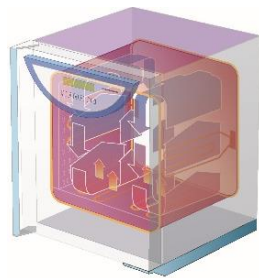
Industrial & Aerospace

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



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

ECO LCD Control Panel



- 3" LCD COG display
- constant monitoring of chamber conditions
- fuzzy logic enabled microprocessor
- 9 programs – 2 segments – for varying loads and parameters up to 99 cycles
- USB device port
- RS 232 – interface for printer or PC
- delayed heating start & stop function
- digital safety thermostat
- acoustic and visual alarms
- exhaust duct
- keyboard security against unauthorized use

Rolling / Elevating Carts



Ecocell ECO 222 (8 ft³) with optional Rolling Cart

Caster Options ...

- A. rolling, swiveling locking
- B. rolling, swiveling, leveling

Options

- USB Flash port
- Ramp programming for rate of temperature change
- Temperature up to 300°C
- access ports 25, 50, 100 mm
- Ethernet communication
- rolling carts
- exhaust port extension for connection to external exhaust system
- HEPA filter for air inlet
- Door sensor and alarm
- automatic and key door lock
- WarmComm 4.0B, 4.0P and 4.0F software
- BMS – Building monitoring alarm contact
- Flexible PT 100 sensor
- stainless steel exterior
- internal 115V socket
- protocol printer
- door window and interior lighting
- IQ / OQ protocols with 9pt temp., mapping

Ecocell ECO Specifications			Model	22	55	111	222	404	707
Interior dimensions Interior made of AISI 304L stainless steel	volume		ft3	.8	1.9	3.9	7.8	14.3	25
			liters	22	55	111	222	404	707
	width		inches	9.5	15.7	21.2	21.2	21.2	37
			mm	240	400	540	540	540	940
	depth		inches	11.6	15.3	15.3	21.2	21.2	21.2
			mm	295	390	390	540	540	540
	height		inches	13.3	13.7	20.8	29.9	55.5	55.5
		mm	340	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	15.9	24.4	29.9	29.9	29.9	45.6
			mm	406	620	760	760	760	1160
	depth		inches	22	25.1	25.1	31.1	31.1	31.1
			mm	560	640	640	790	790	790
	height		inches	23.7	26.7	33.8	42.9	75.1	75.1
			mm	604	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 noted 230V option available	maximum input		kW	.92	1.2	1.8	1.8	3.6	4.5
	standby mode		W	920	1196	1,806	1,806	3,611	3,128
	current		A	8	10.4	15.6	15.6	15.7	13.6
	nominal voltage		V	115	115	115	115	3 x 230	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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