BMT USA
MMM Group
bmtus.com

DUROCELL

Dry-Heat Oven with Protective Chamber Coating

ASSURING YOUR QUALITY

Animal Sciences
Testing of acidic and corrosive substances

Earth & Space Science
Drying of soils and minerals

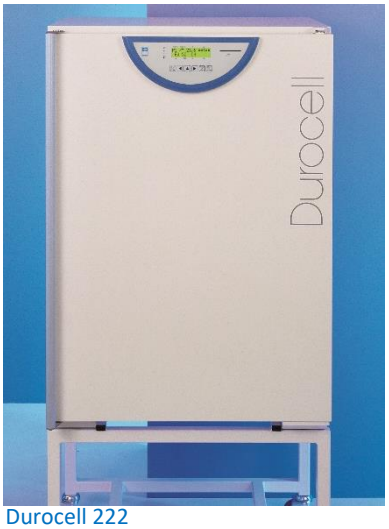
Construction & Transport
Materials testing for quality and durability such as – cement, paints, asphalt, construction plastics, adhesives, roofing products etc.

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

Energy & Chemical Industries
Drying of compounds, components & media

Epolon coated shelf and inner chamber

Durocell 55



Durocell 222

SPECIAL PROTECTIVE CHAMBER COATING

DUROCELL's chambers are coated with **EPOLON**. Epolon protects the internal chamber from aggressive and corrosive substances like acids or alkaline liquids.

This Durocell ensures optimum temperature uniformity. It is ideal for acid, industrial oils and lubricants, animal waste and basic hydrolysis, extraction of non-flammable materials, soils and decomposition of solid substances.

Natural Air Convection

Chamber Volumes 22, 55, 111, 222 liters
.8, 2, 4, 8 ft3

Working temperature 5°C above ambient up to 125 °C

Access ports - 50 mm (2") optional port

Double Wall – Removable inner chamber for cleaning

Chamber – AISI seamless stainless steel w/ rounded corners

Fuzzy Logic ensures accurate temperatures w/out overshoot & flexible and repeatable cycles

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 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 up to 259 cycles
- digital safety thermostat
- acoustic visual alarms
- control of exhaust damper

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
- control of the exhaust damper
- program up to 259 cycles

Standard Controller Options

- access port 50mm
- key door lock
- left door versions (excluding 22 & 707)
- flexible PT 100 sensor
- stainless steel exterior
- WarmComm 4.0B Software
- door window and interior light
- Ethernet communication

Comfort Controller Options

- automatic and key door lock
- access port 50mm
- left door versions (excluding 22 and 707)
- WarmComm 4.0P and 4.0F software
- flexible PT 100 sensor
- stainless steel exterior
- door window and interior light
- BMS – Contacts for building monitoring
- Ethernet communication

Durocell Specifications			Model	55	111	222
Interior dimensions	volume		ft3 cu. Ft.	1.94	3.92	7.84
			liters	55	111	222
Interior made of AISI 316L stainless steel	width		inches	15.75	21.26	21.26
			mm	400	540	540
	depth		inches	15.35	15.35	21.26
			mm	390	390	540
	height		inches	13.78	20.87	29.92
			mm	350	530	760
Shelves	number of shelf guides		max number	4	7	10
	in chamber side walls		shelves incl.	2	2	2
Maximum weight of load(*)	Per tray		Max lbs	44	44	66
	Max. inside oven		Max lbs	110	110	154
Door			No.	1	1	1
External dimensions (including door and handle)	width		inches	24.41	29.92	29.92
			mm	620	760	760
	depth		inches	25.2	25.2	31.1
			mm	640	640	790
	height		inches	26.77	33.86	42.91
			mm	680	860	1090
Shipping dimensions	width		inches	27.95	33.46	33.46
			mm	710	850	850
	depth		inches	28.35	28.7	33.86
			mm	720		
	height (including pallet)		inches	35.43	42.52	52
			mm	900	1080	1320
Weight	net		lbs	121.25	165	221
			kg	55	75	100
	gross		lbs	134.5	185	258
			kg	61	84	117
Electric parameters	maximum input		kW	1.2	1.8	1.8
	standby mode		W	5	5	5
	current		A	10.4	15.7	15.7
230V option available	nominal voltage		V	115	115	115
Working temperature (regular start)	from 5° C over ambient temperature to °C			125	125	125
Temperature deviation from working temperature.	Temperature Distribution	Approx. ±% of set temp.		2	2	2
	Temp. Uniformity	±° C		0.3	≤ 0.3	≤ 0.3
Time required to reach 1000° C with closed air flap and 230V power			Minutes	41	48	50
Heat Emissions			W	380	490	630
Air Exchange speed at 100°C			Hour	8	12	5

*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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