



Research & Laboratory

Sterilization of glassware, devices & media. Installation in clean rooms



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 & Transportation Materials

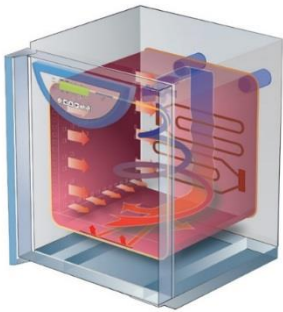
testing for quality and durability of materials in the construction industry – cement, paints, asphalt, construction plastics, adhesives, roofing products etc.



Eccell 55



Eccell 707



Patented Forced Air System moves air vertically and horizontally for precise uniformity.

The Venticell's patented forced air-flow system moves air both vertically and horizontally through computer engineered precision air ports within the inner chamber. Once at the bottom the air is moved up through the middle of the chamber. This creates a precise temperature profile reducing heating time and uniform heat distribution throughout the chamber. The Venticell is especially good for drying wet media. Operating performance is ensured at a higher rate and precision without "overshooting" the set point with the "Fuzzy Logic" microprocessor controllers.

Forced Air / Mechanical Convection

Chamber Volumes 22, 55, 111, 222, 404, 707 liters

.8, 2, 2, 8, 14.3, 25 ft³

Working temperature 10°C above ambient up to 250 °C

300°C optional temperature available

Access ports (optional)

25 mm (1"), 50 mm (2"), 100 mm (3")

Double Wall – Removable inner walls for cleaning

Chamber – AISI stainless steel w/ rounded corners

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

Smart Handle with four point locking

Pass Through / Clean Room models available

Standard Control Panel with Fuzzy Logic Microprocessor



- 3 adjustable programs
- RS232 – interface for printer or PC
- delayed heating start & stop function
- acoustic and visual alarm
- time range 99 hours 59 minutes
- program up to 259 cycles
- digital safety thermostat
- manual control of exhaust and air inflow
- patented forced air system with controllable air-flow rate of 50 – 100%

Comfort Control Panel with Fuzzy Logic Microprocessor



- 6 programs – 40 segments – for varying loads and parameters
- chip card storage for user program storage
- time range 0 – 16 years with 1 min. intervals
- clear user friendly LCD display
- patented forced air system with controllable air-flow rate of 10 – 100%
- RS 232 – interface for printer or PC
- delayed heating start & stop function
- programming temperature ramps
- digital safety thermostat
- acoustic and visual alarms

Standard Controller Options

- Temperature up to 300°C
- access ports 25, 50, 100 mm
- Ethernet communication
- stainless steel exterior
- WarmComm 4.0B Software
- door window and interior lighting
- HEPA filter for air inlet

Comfort Controller Options

- Temperature up to 300°C
- Access ports 25, 50, 100mm
- automatic and key door lock
- Ethernet communication
- HEPA-filter for air inlet
- Pass through / Clean room models
- WarmComm 4.0P and 4.0F software
- BMS – Building monitoring alarm contact
- Flexible PT 100 sensor
- stainless steel exterior
- door window and interior lighting

Venticell Specifications			Model	22	55	111	222	404	707
Interior dimensions	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	11.61	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	22.04/22.83	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	28.7	28.7	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	maximum input	kW	.96	1.3	1.9	1.8	3.7	4.9	
	standby mode	W	5	5	5	5	5	5	
	current	A	4.2	11.3	16.5	16.5	5.7;5.2; 5.2 9.5;9.9 19.1;18. 1;18.1	5.7;5.2; 10.4;11.9; 13.5;11.4; 23.8;27.1; 22.8	
			nominal voltage	V	115	115	115	115	230
Working temperature (regular start)	from 10°C over ambient temperature to °C			250/300	250/300	250/300	250/300	250/300	250/300
Temperature deviation from working temperature	Temperature Distribution		Approx. ±% of set temp.	1.2	1	1	1	1.5	2.5
	Temp. Uniformity	±° C		0.3	0.4	0.4	0.4	0.4	0.4
Time required to reach 250° C with closed air flap and 230V power			Minutes	28	49	53	70	58	64
Heat Emissions			W	350	590	760	990	1940	2550
Air Exchange speed at 150°C			Hour	45	45	49	24	18	12
* not measured									
** The heat is transferred to the goods on the shelves through convection, thus the noted temperature deviations are valid for the shelf surface temperature. A perfect heat-conducting contact between the temperature sensors and the shelf surface must be obtained. Goods on the shelves must also be in perfect contact with the shelves. The temperature of the goods will depend upon their physical properties and their contact with the shelf surface.									



BMT USA
14532 169th Dr. SE, Suite 142
Monroe, WA 98272
USA

ph. 360-863-2252
fax 360-863-2366
e-mail sales@bmtus.com
www.bmtus.com