

ECOCELL®

Laboratory Ovens with Natural Air Convection



The line of economic ovens with wide temperature range, exact and reliable course of simple processes of material heating and drying. The ECOCELL® line is characterised by noiseless operation and slow air flow in usable space.

Internal volume: 22, 55, 111, 222, 404, 707 litres
Temperature range: from 5°C above the ambient temperature up to 250/300°C
Internal chamber: stainless steel DIN 1.4301 (AISI 304)
Clean premises version – on request.

Eco line



- Intuitive control
- Microprocessor process control Fuzzy logic
- Multi-lingual communication
- Acoustic and visual alarm
- LED indicator of device functionality
- 3-inch (7.6 cm) LCD display
- Transflective brilliant FSTN display, uses COG technology (it is backlit and uses the reflection of external light – higher intensity of external light increases the readability of the display)
- Adjustable display contrast depending on the location of the device
- Extra wide viewing angle
- Large, remotely visible characters on the display
- Current information (e.g. temperature, relative humidity on the CLIMACELL® instrument, pressure on the VACUCELL® instrument) is increased during the program run for better readability
- Durable, foil keyboard using a pleasant SoftTouch surface
- Mechanical button response
- Backlit symbols integrated directly into the foil keyboard
- Keypad lock to protect against unauthorized access – by adjustable multi-press
- Real time programming and cycling (ramps as optional equipment)
- 9 programs, 2 segments in each program, up to 99 cycles
- RS232 and USB Device interface
- Ethernet (RJ 45) and USB Host (optional)

Technical data								
Inner space	volume	l	22	55	111	222	404	707
	width	mm	240	400	540	540	540	940
	depth	mm	350	370	370	520	520	520
	height	mm	300	350	530	760	1415	1415
External dimensions (including door, handle, legs N or casters K)	width	max. mm	406	620	760	760	760	1160
	depth	max. mm	560	680	680	830	790	790
	height	max. mm	610N	680N	860N	1090N	1910K	1910K
	ventilation neck diameter – internal / external	mm	52/49	52/49	52/49	52/49	52/49	52/49
Package – basic package	width	approx. mm	500	700	830	820	830	1230
	depth	approx. mm	720	760	750	890	860	860
	height (including palette)	approx. mm	810	880	1060	1260	2085	2085
Package – case	width	approx. mm	730	800	830	940	910	1330
	depth	approx. mm	780	840	910	960	970	1010
	height (including palette)	approx. mm	855	900	1085	1310	2125	2125
Package – wooden crate	width	approx. mm	-	780	910	900	910	1310
	depth	approx. mm	-	840	830	970	940	940
	height (including palette)	approx. mm	-	870	1090	1270	2120	2120
Trays / shelves	maximal number	pc	4	4	7	10	19	19
	standard equipment	pc	2	2	2	2	2	2
	minimal distance between trays/shelves	mm	60	70	70	70	70	70
	usable area	mm	185x265	380x335	520x335	520x485	520x485	920x485
Maximal allowed loading of trays *)	per 1 tray	kg	10	20	20	30	30	50
	per 1 shelf	kg	10	20	20	30	30	20
	inside the device – in total	kg	25	50	50	70	100	130
Number of external metal door	pc	1	1	1	1	1	2	
Weight	net	approx. kg	31	55	75	100	150	215
	brut (cartoon)	approx. kg	36	66	87	116	175	240
Electric data – mains 50/60 Hz	max. input	kW	0,9	1,2	1,8	1,8	3,6	5,4
	stand by input	W	5	5	5	5	5	5
	current for voltage **)	A	4	5,2	7,8	7,8	7,8	7,8
		V	230	230	230	230	400/3NPE	400/3NPE
	current for voltage **)	A	8	10,4	15,6	15,6	20,8	27,1
V		115	115	115	115	115/3PE	115/3PE	
IP Code			IP20	IP20	IP20	IP20	IP20	IP20
Temperature data								
Operation temperature	from 5°C above ambient temperature	to °C	250 (300)	250 (300)	250 (300)	250 (300)	250 (300)	250 (300)
Variations from operation temperature with closed flap and door (DIN 12 880 part 2)	space	± % temperature	2,7	2	2	2	2,5	3,5
	time	± °C	1	0,3	0,8	0,8	1	1
Time to reach temperature of 250°C with closed flap and voltage 230 V		min	54	59	60	99	85	95
Number of air exchanges at 250°C		h ⁻¹	6	8	12	5	4	3
Heat losses		W	300	590	760	990	1940	2550
Noise level of complete device		dB	0	0	0	0	0	0

Note:

All the technical data refer to 22°C ambient temperature and 230 V supply voltage.

The stated deviations of temperature are valid for the device in standard version without options, measured according to DIN 12880 in a steady state with an empty chamber. The other parameters may also vary depending on the optional options added and the media used. The standard design is up to 250°C.

*) The trays may be covered to approximately 50% of their surface and if possibly in such a way so as the air may evenly flow inside the chamber space.

**) Mains voltage is specified on type label of the device.

Changes in the design and make reserved.



MMM Medcenter Einrichtungen GmbH,
 Semmelweisstrasse 6, D-82152 Planegg / München
 Tel.: +49 89 8992 2620, Fax.: +49 89 8992 2630,
 E-mail: medcenter@mmm-medcenter.de,
 www.mmm-medcenter.de