

DUROCELL

Laboratory Ovens with Natural Air Convection



MMM Group



The special line DUROCELL with highly resistant layer of INTERPON, protecting the inner stainless steel from aggressive substances like acids and lyes. It allows optimal tempering of materials. Ideal for acid and alkali hydrolysis, extraction with non-flammables and decomposition of substances in solid phase.

Internal volume: 22, 55, 111, 222 litres
Temperature range: from 5°C above the ambient temperature up to 125°C
Internal chamber: stainless steel DIN 1.4301 (AISI 304) covered with chemically-resistant layer
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
	width	mm	240	400	540	540
	depth	mm	350	370	390	520
	height	mm	300	350	530	760
External dimensions (including door, handle, legs)	width	max. mm	406	620	760	760
	depth	max. mm	560	680	680	830
	height	max. mm	610N	680N	860N	1090N
	ventilation neck diameter - internal / external	mm	52/49	52/49	52/49	52/49
Package – basic package	width	approx mm	500	700	830	820
	depth	approx mm	720	760	750	890
	height (including palette)	approx mm	810	880	1060	1260
Package – case	width	approx mm	730	800	830	940
	depth	approx mm	780	840	910	960
	height (including palette)	approx mm	855	900	1085	1310
Package – wooden crate	width	approx mm	-	780	910	900
	depth	approx mm	-	840	830	970
	height (including palette)	approx mm	-	870	1090	1270
Trays / shelves	maximal number	pc	4	4	7	10
	standard equipment	pc	2	2	2	2
	minimal distance between trays/shelves	mm	60	70	70	70
	usable area	mm	185x265	380x335	520x335	520x485
Maximal allowed loading of trays *)	per 1 tray	kg	10	20	20	30
	per 1 shelf	kg	10	20	20	30
	inside the device - in total	kg	25	50	50	70
Number of external metal door		pc	1	1	1	1
Weight	net	approx kg	31	55	75	100
	brut (cartoon)	approx kg	36	66	87	116
Electric data – mains 50/60 Hz	max. input	kW	0,9	1,2	1,8	1,8
	stand by input	W	5	5	5	5
	current for voltage 230 V**)	A	4	5,2	7,8	7,8
	current for voltage 115 V**)	A	8	10,4	15,6	15,6
IP Code			IP20	IP20	IP20	IP20
Temperature data						
Operation temperature	from 5°C above ambient temperature	to°C	125	125	125	125
Variations from operation temperature with closed flap and door (DIN 12 880 part 2)	space	± % temperature	2,7	2	2	2
	time	±°C	1	0,3	0,8	0,8
Time to reach temperature of 100°C with closed flap and voltage 230 V		min	34	41	48	50
Number of air exchanges at 100°C		h ⁻¹	6	8	12	5
Heat losses	at 100°C	W	140	380	490	630
Noise level of complete device		dB	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 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