

INCUCELL® / INCUCELL® V

Laboratory Incubators with Natural/Forced Air Convention



Suitable for safe processing of microbiologic cultures. The INCUCELL® line is characterised by noiseless operation and slow air flow in usable space. The INCUCELL® V line (version with fan) guarantees faster and more precise temperature distribution with small variations. Special fields of use include mainly biologic and microbiologic laboratories. They can be also used for quality tests in pharmaceutical industry and cosmetics, for tests in veterinary medicine and food processing industry.

Internal volume: 22, 55, 111, 222, 404, 707, 1212 litres

Temperature range:

INCUCELL®: from 5°C above the ambient temperature up to 100°C

INCUCELL® V: from 10°C above the ambient temperature up to 100°C

Inner glass door

Internal chamber: stainless steel DIN 1.4301 (AISI 304)

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)

Evo line



- Intuitive control
- Microprocessor process control Fuzzy logic
- Multi-lingual communication
- Acoustic and visual alarm
- LED indicator of device functionality
- 5.7-inch (14.5 cm) LCD colour touch display
- Graphic representation of a new program
- Control via coloured icons
- Touch screen lock to protect against unauthorized access by password
- Multi-level user management (FDA 21 Part 11 compliant)
- Data encryption and non-manipulation (according to FDA 21 Part 11)
- Up to 100 programs and up to 100 segments for each program, a maximum of 500 segments in the device in total
- Programming of temperature ramps, real time and cycling
- Annual data recording in graphical and numerical form
- Export data in online and offline mode
- Preset service programs for quick fault diagnosis
- SD memory card, USB Device and RS232 interface
- WiFi, USB Host and Ethernet (RJ 45) as a part of the communication module (optional equipment)

Technical data									
Inner space	volume	l	22	55	111	222	404	707	1212
	width	mm	240	400	540	540	540	940	3x540
	depth	mm	350 / 320	370	370	520	520	520	520
	height	mm	300	350	530	760	1410	1410	1410
External dimensions (including door, handle, legs N or casters K)	width	max. mm	406	620	760	760	760	1160	2175
	depth	max. mm	560	680	680	830	790	790	845
	height	max. mm	610N	680N	860N	1090N	1910K	1910K	1910
	ventilation neck diameter – internal / external	mm	52/49	52/49	52/49	52/49	52/49	52/49	52/49
Package – basic package	width	approx mm	500	700	830	820	830	1230	2360
	depth	approx mm	720	760	750	890	860	860	1020
	height (including palette)	approx mm	810	880	1060	1260	2085	2085	2100
Package – case	width	approx mm	730	800	830	940	910	1330	2360
	depth	approx mm	780	840	910	960	970	1010	1020
	height (including palette)	approx mm	855	900	1085	1310	2125	2125	2240
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	3x19
	standard equipment	pc	2	2	2	2	2	2	6
	minimal distance between trays/shelves	mm	60	70	70	70	70	70	70
	usable area	mm	185x265	380x335	520x335	520x485	520x485	920x485	520x485
Maximal allowed loading of trays *)	per 1 tray	kg	10	20	20	30	30	50	30
	per 1 shelf	kg	10	20	20	30	30	20	30
	inside the device – in total	kg	25	50	50	70	100	130	300
Number of external metal door		pc	1	1	1	1	1	2	3
Weight	net	approx kg	31	55	75	100	150	215	475
	brut (cartoon)	approx kg	36	66	87	116	175	240	525
Electric data – mains 50/60 Hz	max. input	kW	0,24/0,96	0,3/0,7	0,3/0,7	0,5/0,7	0,9/1,3	0,9/1,3	2,4/3,6
	stand by input	W	5	5	5	5	5	5	5
	current for voltage **)	A	1,1/4,2	1,3/3	1,3/3	2/3	3,9/5,6	3,9/5,6	2x3,9/2,6//5,2
		V	230	230	230	230	230	230	400/3NPE
	current for voltage **)	A	2,2/8,4	2,6/6	2,6/6	4/6	7,8/11,3	7,8/11,3	-
		V	115	115	115	115	115	115	-
IP Code			IP20	IP20	IP20	IP20	IP20	IP20	IP20
Temperature data									
Operation temperature	from 5°C/10°C ***) above ambient temperature	to°C	100	100	100	100	100	100	100
Variations from operation temperature with closed flap and door (DIN 12 880 part 2)	space	± % temperature	1,1/0,4	0,5/ 0,3	0,5/ 0,3	1/ 0,3	1/ 0,8	1,5/ 1,5	3,4/2,3
		± at 37°C	0,4/0,2	0,3/0,2	0,3/0,2	0,3/0,3	0,4/0,3	0,6/0,3	1,3/0,8
	time	±°C	0,4/0,1	0,2	0,2	0,2	0,2	0,2	0,4/0,3
Time to reach temperature of 37°C with closed flap and voltage 230 V		min	70/80	49/41	57/51	79/66	41/38	59/51	68/54
Number of air exchanges at 37°C		per hour	4/45	5/45	5/49	5/24	5/18	5/12	5/16
Heat losses	at 37°C	W	20/70	30/80	45/95	45/95	65/115	85/135	180/310
Noise level of complete device		dB	0/55	0/55	0/55	0/55	0/55	0/55	0/60

Note:

INCUCELL®/INCUCELL® V

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 (IC)/ with an empty chamber and a fan at 100 % (ICV). 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.

***) Without fan/ with fan.

Changes in the design and make reserved.



MMM Medcenter Einrichtungen GmbH,
Sammelweisstrasse 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