

INCUCELL® / INCUCELL® V

Incubators with Natural / Forced Air Convection



Laboratory incubators

- Suitable for safe treatment of microbiological cultures. The INCUCELL® line produces no noise and provides a very soft air convection within the chamber, the variant INCUCELL® V (with a fan) has an advantage of more precise temperature distribution with small deviations. These devices can be used especially in biological and microbiological laboratories, quality tests in pharmacy, cosmetics and testing in veterinary medicine and food processing industry.

Volume: 22, 55, 111, 222, 404, 707 litres

Working temperature:

INCUCELL®:

5°C above ambient temperature up to 99.9°C

INCUCELL® V:

10°C above ambient temperature up to 99.9°C

Inner glass door

Interior: stainless steel, mat. No. 1.4301 (AISI 304)

The Versatile Standard Line with Microprocessor Control Unit

- 3 adjustable programs
- RS 232 – interface for printer or PC-communication
- delayed heating start and stop function
- acoustic and visual alarm in error state
- time range 99 hours 59 minutes
- digital safety thermostat
- manual control of the air exhaust flap (the suction and air exhaust only INCUCELL® V, the air exhaust only INCUCELL®)



Options

- access ports Ø 25, 50, 100 mm (Ø 50, 100 mm is not available for 22 liters volume)
- door lock
- left door versions (excluded volume 22 and 707 litres)
- HEPA filter for installation in an air inlet (INCUCELL® V only)
- arrangement against drying-up of culture mediums and tissue cultures (INCUCELL® V only)
- adjustable ventilation rate 50–100% (only INCUCELL® V)
- special software WarmComm 4.0
- separate PT 100 sensor
- stainless steel casing of the devices

... standard

The High-Tech Comfort Line with Multi-Functional Microprocessor Control Unit

- 6 adjustable programs
- chip card system for individual program storage
- RS 232 – interface for printer or PC-communication
- delayed heating start and stop function
- acoustic and visual alarm in error state
- time range 0–40 years with 1 min-intervals
- digital safety thermostat
- real time
- selectable rate of temperature increase or decrease – "RAMPS"
- programming of program time segments – "SEGMENTS"
- programme cycles
- adjustable ventilation rate 10 to 100%
- manual control of the air exhaust flap (the suction and air exhaust only INCUCELL® V)
- keyboard blocking
- door opening control



Options

- access ports Ø 25, 50, 100 mm (Ø 50, 100 mm is not available for 22-liters volume)
- door lock
- left door versions (excluded volume 22 and 707 litres)
- HEPA-filter for installation in air inlet (INCUCELL® V only)
- timer programmable water protected inner socket
- arrangement against drying-up of culture mediums and tissue cultures
- high temperature decontamination (INCUCELL® V only excluded volume 404 and 707 litres)
- BMS relay alarm contact
- special software WarmComm 4.0
- separate PT 100 sensor
- stainless steel casing of the devices

... comfort line

Technical data								
Inter dimensions – stainless steel material DIN No. 1.4301	volume	l	22	55	111	222	404	707
	width	mm	240	400	540	540	540	940
	depth	mm	320	370	370	520	520	520
	height	mm	295	350	530	760	1410	1410
External dimensions (including door and handle, feet F or caster C)	width	max. mm	406	620	760	760	760	1160
	depth	max. mm	580	640	640	790	790	790
	height	max. mm	604F	680F	860F	1090F	1910C	1910C
	∅ of the air branch outer/inner	mm	52/49	52/49	52/49	52/49	52/49	52/49
Package – dimensions (three-layers carton)	width	cca mm	465	700	830	830	830	1230
	depth	cca mm	665	730	730	860	860	860
	height (incl. palette)	cca mm	655	880	1050	1280	2070	2080
Screens/shelves	max. No	psc	4	4	7	10	19	19
	standard equipment	psc	2	2	2	2	2	2
	min. distance between screens	mm	60	70	70	70	70	70
	storage area	mm	185 × 265	380 × 335	520 × 335	520 × 485	520 × 485	920 × 485
Maximal load *)	per 1 screen	kg/screen	10	20	20	30	30	50
	for a shelf	kg/shelf	10	20	20	30	30	20
	total inside of device	kg/case	25	50	50	70	100	130
Number of outer metal doors		psc	1	1	1	1	1	2
Weight	nett	cca kg	31	55	75	100	150	215
	brutt (carton)	cca kg	36	66	87	116	175	240
Electrical data – mains 50/60 Hz	max. power	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
	power input [stand by]	W	5	5	5	5	5	5
	current voltage ***)	A	1,1/4,2	1,3/3	1,3/3	2/3	3,9/5,6	3,9/5,6
		V	230	230	230	230	230	230
	current 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	
Protective system			IP20	IP20	IP20	IP20	IP20	IP20
Temperature data								
Working temperature	from 5/10°C **) above ambient temp.	to °C	99,9	99,9	99,9	99,9	99,9	99,9
The temperature deviations from the working temperature when the ventilation flap and doors are closed (DIN 12 880 section 2) ****)	in space IC/ICV at 37°C in time	% temp. ± °C	1,1/0,4 0,4/0,1	0,5/0,3 0,2	0,5/0,3 0,2	1/0,3 0,2	1/0,8 0,2	1,5/1,5 0,2
Temperature rise 37°C time with closed air flap and at the voltage of 230 V	IC/ICV	min	70/8	49/41	57/51	79/66	41/38	59/51
Air exchange rate at 37°C	IC/ICV	s	4/45	5/45	5/49	5/24	5/18	5/12
Heat emission at 37°C	IC/ICV	W	20/70	30/80	45/95	45/95	65/115	85/135

Note:

All technical data are related to 22°C ambient temperature and ± 10% voltage swing (if not specified). For other parameters see section 5.1 – Electric connections.

*) Approx. 50% of the tray area can be filled in a way a uniform air circulation is enabled inside the chamber.

**) Standard type is up to 70°C, optional type is up to 99.9°C

***) Supply voltage is indicated on the type label of the unit.

****) Temperature deviations were measured in accordance with DIN 12 880, section 2

The values may differ depending on specific charge and media parameters.

Changes in the design and make reserved.

