

# 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
- 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.



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