



## KS 3000 i control

### /// Data Sheet

Innovative incubator shaker design allowing unattended operation in a temperature-controlled environment.

- Large LED display for speed and time settings
- Controls with antimicrobial coating for reduction of bacteria
- Integrated PID temperature control (use of two PT 1000 temperature sensors)
- Junction box in the workspace for connection of an additional temperature sensor e.g. PT 1000.60
- Electronic temperature and speed control
- Electronic timer switch: 0 - 999 h (set by the minute or by the hour)
- Unit switches off automatically if disturbed



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- Unit stops automatically when hood is lifted
- Collecting tray with drain hose on rear of unit
- Simple operation
- All functions can be controlled and documented with labworldsoft®
- Attachements are not included in delivery, please order separately





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## Technical Data

|   |                                |
|---|--------------------------------|
| Type of movement  | orbital                        |
| Shaking stroke [mm]   | 20                             |
| Permissible shaking weight (incl. attachment) [kg]                                  | 7.5                            |
| Motor rating input [W]  | 45                             |
| Motor rating output [W]   | 10                             |
| Permissible ON time [%]   | 100                            |
| Speed min (adjustable) [rpm]  | 10                             |
| Speed range [rpm]   | 10 - 500                       |
| Speed display   | LED                            |
| Speed deviation [%]   | 1                              |
| Speed adjustment  | 1 RPM steps                    |
| Timer   | yes                            |
| Timer display   | 7 segment LED                  |
| Time setting min. [s]   | 1                              |
| Time setting range [min]  | 1 - 59940                      |
| Operating mode  | timer and continuous operation |
| Heating temperature range [°C]  | room temp. +5° - 80            |
| Heat output [W]   | 1000                           |
| Set temperature resolution [K]  | ±0.1                           |
| Control accuracy with sensor (1 vessel 0.5 L H <sub>2</sub> O, RT 22°C, T=37°C) [K] | ±0.5                           |
| Temperature display   | yes                            |
| Temp. stability (0,2l H <sub>2</sub> O; RT 25°C, T=37°C) [K]                        | ±0.1                           |
| Operating area inner chamber [mm]   | 330 x 330 x 258                |
| Total volume inner chamber [l]  | 50                             |
| Raw material housing  | Sheet metal powder coat        |
| Raw material hood   | PMMA                           |
| Raw material front foil   | polyester                      |
| Raw material front panel  | ABS painted                    |
| Temperature stability (1 vessel 0.5 L, RT 25°C, T=37°C) [K]                         | ±0.05                          |
| Temperature homogeneity (5 vessel 0.5 L; RT 25°C, T=37°C) [K]                       | ±0.5                           |
| Height with open hood [mm]  | 875                            |
| Dimensions (W x H x D) [mm]   | 465 x 430 x 695                |
| Weight [kg]   | 35                             |
| Permissible ambient temperature [°C]  | 15 - 32                        |
| Permissible relative humidity [%]   | 80                             |
| Protection class according to DIN EN 60529  | IP 30                          |
| RS 232 interface  | yes                            |
| USB interface   | yes                            |
| Voltage [V]   | 230                            |
| Frequency [Hz]  | 50/60                          |
| Power input [W]   | 1120                           |

