



designed for scientists



KS 4000 ic 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)
- Optional built-in cooler for connection to an external cooling unit e.g. RC 2 basic / control



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- Unit switches off automatically if disturbed
- 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®
- Attachments are not included in delivery, please order separately



Technical Data

| | |
|---|--------------------------------|
| Type of movement | orbital |
| Shaking stroke [mm] | 20 |
| Permissible shaking weight (incl. attachment) [kg] | 20 |
| Motor rating input [W] | 82 |
| Motor rating output [W] | 24 |
| Permissible ON time [%] | 100 |
| Speed min (adjustable) [rpm] | 10 |
| Speed range [rpm] | 10 - 500 |
| Speed display | LED |
| Speed deviation [rpm] | ±5 |
| Speed adjustment | 1 RPM steps |
| Timer | yes |
| Timer display | 7 segment LED |
| Time setting range [min] | 1 - 59940 |
| Operating mode | timer and continuous operation |
| Heat output [W] | 1000 |
| Set temperature resolution [K] | ±0.1 |
| Control accuracy with sensor (1 vessel 0.5 L H ₂ O, RT 22°C, T=37°C) [K] | ±0.5 |
| Temperature display | yes |
| Temp. stability (0,2l H ₂ O; RT 25°C, T=37°C) [K] | ±0.1 |
| Temperature range (inlet T>3°C) [°C] | room temp. - 10° - 80° |
| Operating area inner chamber [mm] | 440 x 440 x 352 |
| Total volume inner chamber [l] | 90 |
| Raw material housing | Sheet metal powder coat |
| Raw material front foil | polyester |
| 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] | 580 x 520 x 750 |
| Weight [kg] | 55 |
| Permissible ambient temperature [°C] | 15 - 32 |
| Permissible relative humidity [%] | 80 |
| Protection class according to DIN EN 60529 | IP 30 |
| RS 232 interface | yes |
| Voltage [V] | 230 |
| Frequency [Hz] | 50/60 |
| Power input [W] | 1120 |
| Fuse | 2x T10A 250V |