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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®
- Attachements are not included in delivery, please order separatly

Scope of delivery
•KS 4000 ic control
•PT 1000.60 Temperature sensor, stainless steel
•Clamping screws short (4 pcs.)
•Clamping screws long (2 pcs.)

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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 H2O, RT 22°C, T=37°C) [K]	±0.5
Temperature display	yes
Temp. stability (0,2l H2O; 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 homogenity (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