



### KS 3000 ic control

Compact incubator shaker with built in cooling coil for connection to an external cooling unit. Designed for safe unattended operation in a temperature-controlled environment. The unit has a large LED display for speed, temperature and timer. Integrated PID temperature control allows the use of PT 1000 temperature sensors to assure highly accurate temperature control. The electronically controlled incubator comes equipped with RS 232 and USB ports for PC interface. All functions can be controlled and documented using labworldsoft®. (software sold separately)

- Controls with antimicrobial coating for reduction of bacteria
- Junction box in the workspace for connection of an additional temperature sensor, e.g. PT-1000 (included with delivery)
- Wide range of attachments allows for using almost all shapes and sizes of vessels
- Unit stops automatically when hood is lifted
- Collecting tray with drain hose on rear of the unit
- Electronic timer
- Error code display

Accessories: STICKMAX, AS 260.2 Fixing clip attachment, AS 260.3 Dish attachment, AS 260.5 Separating funnel attachment, AS 260.1 Universal attachment, PC 1.1 Cable, labworldsoft®

#### Technical Data

Type of movement	orbital
Shaker diameter [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 control	1 RPM steps
Timer	yes
Timer display	7 segment LED
Setting time min. [s]	1
Time setting range [min]	1 - 59940
Operating mode	timer and continuous operation
Touch function	no
Shaking table lock	no
Working with microtiter plates	no
Heating temperature range [°C]	room temp. +5° - 80
Heat output [W]	1000
Heat control accuracy [±K]	0.1
Control accuracy with sensor (1 vessel 0.5 L H <sub>2</sub> O, RT 22°C, T=37°C) [±K]	466
Temperature display	yes
Temperature range (inlet T>3°C) [°C]	room temp. - 10° - 80°
connections for external cooling	yes
embedded cooling coil	yes
embedded cooling unit	no
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]	37
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 / 115 / 100
Frequency [Hz]	50/60
Power input [W]	1120

**Ident. No.**

**0003940100**