

Data Sheet

Mixing / Shakers



KS 4000i control

New 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 (included with delivery)
- 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
- 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 using the labworldsoft® software
- Attachments not included - please order accessories as required

Accessories: AS 4000.1 Universal attachment, AS 4000.2 Fixing clip attachment, AS 4000.3 Dish attachment, AS 2.1 Fixing clips, AS 2.2 Fixing clips, AS 2.3 Fixing clips, AS 2.4 Fixing clips, AS 2.5 Fixing clips, AS 2.6 Fixing clips, PT 1000.60 Temperature sensor, stainless steel, labworldsoft®, PC 1.5 Cable, H 11 Mains cable Euro plug, H 11 Mains cable UK plug, H 11 Mains cable CH plug, H 11 Mains cable USA plug

Technical Data

Type of movement	orbital
Orbital diameter [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) [1/min]	10
Speed range [1/min]	10 - 500
Speed display	LED
Timer	yes
Timer display	7 segment LED
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
Temperature display	yes
Dimensions (W x H x D) [mm]	580 x 525 x 750
Weight [kg]	50
Permissible ambient temperature [°C]	15 - 32
Permissible relative moisture [%]	80
RS 232 interface	no
Voltage [V]	230 / 115 / 100
Frequency [Hz]	50/60
Power input [W]	1120
Ident. No.	3510000



KS 4000ic control

New innovative incubator shaker design with built-in cooler 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 (included with delivery)
- Electronic temperature and speed control
- Electronic timer switch: 0 - 999 h (set by the minute or by the hour)
- With built-in cooling spiral for connection to an external cooling unit e.g. KV 600
- 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 using the labworldsoft® software
- Attachments not included - please order accessories as required

Accessories: AS 4000.1 Universal attachment, AS 4000.2 Fixing clip attachment, AS 4000.3 Dish attachment, AS 2.1 Fixing clips, AS 2.2 Fixing clips, AS 2.3 Fixing clips, AS 2.4 Fixing clips, AS 2.5 Fixing clips, AS 2.6 Fixing clips, KV 600 cooling water supply (230 V), PT 1000.60 Temperature sensor, stainless steel, labworldsoft®, PC 1.5 Cable, H 11 Mains cable Euro plug, H 11 Mains cable UK plug, H 11 Mains cable CH plug, H 11 Mains cable USA plug

Technical Data

Type of movement	orbital
Orbital diameter [mm]	20
Permissible shaking weight (incl. attachment) [kg]	20
Motor rating input [W]	82
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Permissible ON time [%]	100
Speed min (adjustable) [1/min]	10
Speed range [1/min]	10 - 500
Speed display	LED
Timer	yes
Timer display	7 segment LED
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. - 10° - 80
Heat output [W]	1000
Temperature display	yes
Temp. stability (0,2l H ₂ O; RT 25°C, T=37°C) [±K]	0.1
Dimensions (W x H x D) [mm]	580 x 525 x 750
Weight [kg]	55
Permissible ambient temperature [°C]	15 - 32
Permissible relative moisture [%]	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
Ident. No.	3510100

Accessories

AS 4000.1 Universal attachment – Part no 8022200



For various types of vessels. Infinitely variable clamping rolls allow universal adaptation to the vessels.

Dimensions (W x D x H) 470 x 447 x 135 mm
Set-up plate 360 x 410 mm
Weight 3200 g

AS 4000.2 Fixing clip attachment – Part no 3710100



For shaking flasks, Erlenmeyer flasks and bottles with a round crosssection (without fixing clips).

Dimensions (W x D x H) 470 x 444 x 25 mm
Set-up plate 430 x 430 mm
Weight 2650 g

AS 4000.3 Dish attachment – Part no 3710000



For smooth shaking operations in the low viscosity range, e.g. for cell cultures, nutrient media in Petri dishes, culture bottles and vessels with a low center of gravity. With integrated slip-resistant foil (PP).

Dimensions (W x D x H) 470 x 444 x 25 mm
Set-up plate 430 x 430 mm
Weight 800 g

AS 2.1 Fixing clips For flask volume 25 ml – Part no 1234300



AS 2.2 Fixing clips For flask volume 50 ml – Part no 1234400



AS 2.3 Fixing clips For flask volume 100 ml – Part no 1234500



AS 2.4 Fixing clips For flask volume 200/250 ml – Part no 1234600



AS 2.5 Fixing clips For flask volume 500 ml – Part no 1234700



AS 2.6 Fixing clips For flask volume 1000 ml – Part no 3819300

