ALC-Scientific

LAB-GRADE ENGINEERING. OEM-SCALE RELIABILITY.

PRODUCT BROCHURE

MIXING & SHAKING / INCUBATION

INCUBATOR SHAKER

Controlled incubation with orbital agitation.

A proposed incubator shaker combining controlled temperature with orbital mixing for microbial culture, cell growth, fermentation studies and general laboratory workflows.

SPEED	Approx. 20-300 rpm
TEMPERATURE	Ambient +5 C to 60 C
ORBIT	Approx. 20-26 mm

PROPOSED MODEL	CATALOGUE NUMBER
ALC-IS100	ALC-MX-IS-100

PROPOSED SPECIFICATION SET

Final values, accessories, warranty and compliance require approval against the selected OEM datasheet.

PRODUCT OVERVIEW

Controlled incubation with orbital agitation.

The ALC-IS100 combines an enclosed temperature-controlled chamber with an orbital shaking platform. Programmable speed, temperature and time settings support microbial cultivation and general incubation workflows. Flask capacity, platform dimensions and refrigerated operation depend on the selected configuration.

SPEED

Approx. 20-300 rpm

TEMPERATURE

Ambient +5 C to 60 C

ORBIT

Approx. 20-26 mm

Key Features

- Orbital shaking with controlled incubation
- Microprocessor temperature and speed control
- Digital speed and temperature display
- Brushless motor
- Programmable timer or continuous operation
- Over-temperature and motor-overload protection
- Universal platform or dedicated flask clamps
- Optional refrigeration for below-ambient operation

Working Principle

The chamber maintains the programmed incubation temperature while a motor moves the platform in a circular orbit. Continuous agitation improves mixing, gas transfer and temperature distribution in compatible vessels.

TYPICAL APPLICATIONS

Bacterial and yeast cultivation / Microbial culture / Cell growth / Fermentation studies / Media preparation / Solubility and extraction studies

PROPOSED TECHNICAL DATA

Model-specific values require OEM confirmation.

PARAMETER	PROPOSED SPECIFICATION
Shaking motion	Orbital
Speed range	Approximately 20-300 rpm
Speed accuracy	Approximately +/-1 rpm
Orbit diameter	Approximately 20-26 mm
Temperature range	Ambient +5 C to 60 C
Refrigerated option	Approximately 4 C to 60 C
Temperature accuracy	Approximately +/-0.5 C
Temperature uniformity	OEM-dependent
Timer	1 minute to 99 hours or continuous
Platform size	Approximately 400 x 400 mm or larger
Typical flask capacity	12 x 250 mL or 8 x 500 mL
Controller	Microprocessor PID
Display	LED/LCD or touchscreen
Motor	Brushless motor
Safety	Over-temperature and motor-overload protection
Power supply	220-240 V AC, 50 Hz

STANDARD SUPPLY

- Incubator shaker
- Universal platform
- Selected flask clamps
- Power cable
- Operation manual

OPTIONAL / MODEL-DEPENDENT

- 50 mL to 2 L flask clamps
- Test-tube rack
- Sticky mat
- Microplate platform
- Refrigerated configuration
- Data-logging software

TO BE CONFIRMED

- Exact platform and flask capacity
- Temperature uniformity
- Included clamp quantity
- Chamber dimensions and warranty

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APPLICATIONS & ENQUIRY

LABORATORY APPLICATIONS

A practical platform for professional laboratory workflows.

Applications

- Bacterial and yeast cultivation
- Microbial culture
- Cell growth
- Fermentation studies
- Media preparation
- Solubility and extraction studies

Product Advantages

- Incubation and mixing in one instrument
- Wide vessel configuration options
- Programmable repeatable operation
- Brushless drive system
- Optional refrigerated configuration

INDUSTRIES SERVED

Microbiology laboratories / Biotechnology research / Pharmaceutical laboratories / Universities and fermentation research

SCAN RELATED SHAKER PAGE

Request a model-specific quotation.

Share your application, required capacity or range, quantity, installation city and documentation needs. Final performance values and accessories are issued with the approved datasheet and quotation.

ALC-SCIENTIFIC LABORATORY SYSTEMS

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OEM / PRIVATE LABEL AVAILABLE