

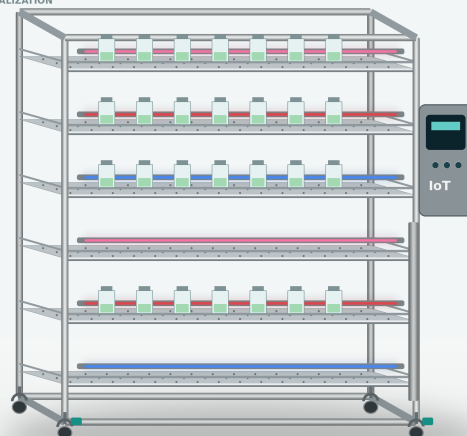


CULTURE ROOM SYSTEMS / ILLUMINATED RACKS

SS-304 Programmable Multi-Spectrum LED Tissue Culture Rack System

Programmable illuminated stainless-steel rack for controlled culture-room workflows.

ENGINEERING VISUALIZATION

**CONSTRUCTION**

SS-304

ILLUMINATED TIERS

Approx. 6

LIGHT INTENSITY

800-1800 lux adjustable

MODEL

To be confirmed

CATALOGUE NO.

To be confirmed

PRELIMINARY CONFIGURATION

Final dimensions, configuration, accessories and supplied scope require approved model-specific technical confirmation.



PRODUCT OVERVIEW

Programmable illuminated stainless-steel rack for controlled culture-room workflows.

A heavy-duty SS-304 illuminated rack configuration combining welded stainless construction, perforated shelves, multi-spectrum LED lighting and centralized programmable control. The source configuration specifies approximately six illuminated tiers with individual photoperiod control and castor-mounted mobility.



CONSTRUCTION

SS-304

ILLUMINATED TIERS

Approx. 6

LIGHT INTENSITY

800-1800 lux adjustable

Key Engineering Features

- SS-304 heavy-duty square-tube frame with argon-arc welded construction
- Minimum 1 mm laser-cut perforated stainless shelf panels over SS framework
- Approximately six illuminated tiers with about 450 mm shelf spacing
- Approx. 30 mm guard rail on all four sides of each shelf
- Four heavy-duty castors; locking brakes on at least two
- Central IoT-based programmable dashboard with individual photoperiod/day-night control
- Internal stainless cable routing with fire-retardant wiring and IP65-rated waterproof connectors
- Minimum 60 W multi-spectrum LED bars with adjustable 800-1800 lux output

Configuration Overview

Controlled culture-room / microbial bioconversion reference configuration as stated in the supplied source. Final shelf depth and overall rack depth require engineering confirmation before public release.

DOCUMENT CONTROL

Use approved model-specific datasheet for final procurement values



TECHNICAL SPECIFICATIONS

REFERENCE TECHNICAL DATA

Source values preserved; unresolved items remain explicitly flagged.

CONSTRUCTION	SS-304 stainless steel or equivalent as specified; heavy-duty frame
FRAME	Minimum 1 in x 1 in or wider SS square pipe; 18-gauge wall thickness
FABRICATION	Argon-arc welded; fully welded joints ground flat and passivated; smooth polished rust-resistant finish
SHELF CONSTRUCTION	Minimum 1 mm stainless-steel laser-cut perforated sheet over SS framework
ILLUMINATED TIERS	Approximately 6
SHELF SPACING	Approximately 450 mm
SHELF/PLATFORM SIZE	Approximately 600 x 1200 mm - source value
OVERALL RACK SIZE	Approximately 1200 mm L x 450 mm W x 2996 mm H - source value
GUARD RAIL	Approximately 30 mm on all four sides of each shelf
CASTORS	Four heavy-duty castors; locking brakes on at least two
ELECTRICAL SUPPLY	220-240 V AC, single phase, 50 Hz
WIRING	Heat-resistant, fire-retardant; routed through internal SS channels

CONNECTORS	IP65-rated waterproof connectors
CONTROL	Central IoT-based programmable dashboard; individual photoperiod/day-night cycle control
LED BAR	Minimum 60 W multi-spectrum LED grow-light bar; aluminium housing; heat-sink cooling
LED SPECTRUM	Approx. 4000 K + 660 nm + 450 nm
PINK MODE	Approx. one-third 450-460 nm + two-thirds 620-630 nm
RED / BLUE MODES	Red approx. 620-630 nm; Blue approx. 450-460 nm
LIGHT INTENSITY	Adjustable approximately 800-1800 lux
LED INPUT	48 V DC
CONNECTIVITY	Wireless / IoT / offline control; photoperiod adjustment
OPERATING ENVIRONMENT	Ambient 5-40 C; relative humidity up to approximately 95%
WARRANTY	Minimum 3 years with accessories from date of installation

TO BE CONFIRMED BEFORE PUBLIC RELEASE

- Overall rack depth is stated as approx. 450 mm while shelf/platform is separately stated as approx. 600 x 1200 mm.
- Model and catalogue number to be confirmed.



CONFIGURATION HIGHLIGHTS

Engineering-led, quotation-ready configuration.

Reference Configuration

Controlled culture-room / microbial bioconversion reference configuration as stated in the supplied source. Final shelf depth and overall rack depth require engineering confirmation before public release.

KEY METRICS

CONSTRUCTION	SS-304
ILLUMINATED TIERS	Approx. 6
LIGHT INTENSITY	800-1800 lux adjustable



SCAN TO VISIT ALC-SCIENTIFIC

alcsscientific.com

Request a model-specific quotation

Share the required configuration, quantity, application or room, delivery location and documentation needs. Final supplied values and accessories will be confirmed through the approved technical datasheet and commercial quotation.

ALC-SCIENTIFIC LABORATORY SYSTEMS

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Product images are illustrative representations of the referenced configuration. Final dimensions, configuration, accessories, supplied scope and performance shall be those stated in the approved model-specific technical datasheet and commercial quotation.