



PRODUCT BROCHURE

CELL CULTURE / CONTROLLED INCUBATION

CO2 INCUBATOR

Controlled temperature, CO2 and humidity for cell-culture workflows.

A proposed ALC-Scientific 80-litre CO2 incubator configuration based on the COI80 reference platform for mammalian cell culture, tissue culture and biomedical research.



CAPACITY

80 L

CO2 RANGE

0-20%

DISPLAY

5 in touch

Proposed Model
ALC-COI80

Reference
COI80 reference

PROPOSED SPECIFICATION SET

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



OVERVIEW & FEATURES

PRODUCT OVERVIEW

Controlled temperature, CO2 and humidity for cell-culture workflows.

An air-jacketed controlled chamber combines temperature regulation, infrared CO2 measurement, humidification, alarms and UV sterilization to support reproducible biological incubation.

**CAPACITY**

80 L

CO2 RANGE

0-20%

DISPLAY

5 in touch

Key Features

- 80 L stainless-steel chamber
- RT +5 C to 65 C temperature range
- Infrared CO2 measurement
- 0-20% CO2 control range
- Water-pan humidification
- UV sterilization system
- 5-inch touchscreen interface
- USB data export and alarm functions

Working Principle

The heated chamber maintains a controlled incubation temperature while infrared sensing monitors CO2 concentration. Gas is introduced as required and water-pan humidification supports high relative humidity for cell-culture conditions.

TYPICAL APPLICATIONS

Mammalian cell culture / Tissue engineering /
Biomedical research / Microbiology research / Cell-line maintenance



TECHNICAL SPECIFICATIONS

REFERENCE TECHNICAL DATA

Model-specific values require approved OEM confirmation.

PARAMETER	REFERENCE SPECIFICATION
Reference platform	COI80
Chamber volume	80 L
Chamber size	400 x 400 x 550 mm
Temperature range	RT +5 C to 65 C
Temperature accuracy	+/- 0.2 C
Temperature sensor	PT100
Heating method	6-sided direct hot-air jacket
CO2 measurement	Infrared detection
CO2 range	0-20%
CO2 accuracy	+/- 0.2%
Relative humidity	Up to 95% RH at 37 C
Sterilization	UV
Display	5 in touchscreen
Shelves	2 adjustable partitions

STANDARD SUPPLY

- Incubator chamber
- Two shelves
- Water pan
- CO2 connection set as quoted
- Power connection
- Operation manual

OPTIONAL / MODEL-DEPENDENT

- CO2 regulator / cylinder accessories
- Remote monitoring options
- Validation / mapping documentation
- Additional shelves

TO BE CONFIRMED

- Gas connection scope
- Humidity validation
- Alarm outputs
- Warranty
- Installation / commissioning scope



APPLICATIONS & ENQUIRY

LABORATORY APPLICATIONS

A practical platform for professional laboratory workflows.

Applications

- Mammalian cell culture
- Tissue engineering
- Biomedical research
- Microbiology research
- Cell-line maintenance
- Life-science R&D laboratories

Product Advantages

- Integrated temperature and CO2 control
- IR CO2 measurement
- High-humidity culture environment
- Touchscreen operation
- UV sterilization support
- USB data export

INDUSTRIES SERVED

Biotechnology / Cell culture / Pharmaceutical research / Academic laboratories / Biomedical R&D



SCAN FOR PRODUCT PAGE

Request a model-specific quotation.

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

ALC-SCIENTIFIC LABORATORY SYSTEMS

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OEM / PRIVATE LABEL AVAILABLE

Product images are for reference and may vary according to the selected configuration. Specifications, dimensions, accessories and designs are subject to change. Final specifications are those stated in the approved technical datasheet and commercial quotation.