

Cooling Incubator with lighting

KB 7140 LL



Outside dimension:

W = 1600 mm
D = 840 mm
H = 2070 mm

Inside dimension:

W = 1300 mm
D = 650 mm
H = 1400 mm

Temperature Range:

10°C to 40°C

Capacity:

1400 litres

Housing

Made of stainless steel (Backplane, as well as top and bottom side of the cabinet of galvanised sheet steel).
Set of 4 wheels, 2 with brakes.

Interior space

Made of stainless steel. Cleaning friendly by rounded corners, slippery surface in the interior, meets highest hygiene requirements.

Insulation

high density foamed-in-place polyurethane, CFC-free

Circulation air cooling

for rapid and uniform temperature control, reducing temperature gradients to a minimum

Door

Solid two-door, right and left-hand hinge. Grease resistant magnetic seal. Additionally equipped with two inner glass doors.

Optional: with door lock

Interior fittings

8 pcs. Grating-type shelves (dim.: 530x590 mm) (max. 24 shelves possible)

Control panel

located above door.



(III. Similar)

Temperature

Working range 10°C up to 40°C

Temperature accuracy: +/- 2°C

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With the following control units:

- Digital thermostat with microprocessor enables PID Auto-tuning controller for temperature and light.
- Over-temperature safety thermostat, with pilot light
- Under safety temperature limiter, with pilot light
- Switch to select direct or programmed temperature
- 3-way switch for setting the LUX intensity for lighting (min / ave / max)
- Main switch
- Indicator lights
- Fuses

Illumination device

Illumination of the interior by 2x8 vertically arranged LED lamps (cold white - approx. 750 x 1250 lux - other lamps on request). Positioned on the left- and right-side walls, separated from the interior by a transparent pane. With fans to cool down the lamps. Adjustable in three steps (min / average / maximum) by 2 switches on the front.

Refrigerating unit

fully hermetically sealed, forced ventilation, fitted on vibration - absorbing mounts (ambient temperature max. 30°C), low noise, energy saving compressor with high quality vaporisation system.

Refrigerant: environmentally friendly

Electrical data

Voltage: 230 V / 50 Hz, **Optional:** 60 Hz
Power cable: 1,5 m for termination

Packing details (palletized)

Dimension: approx. 177x100x221 cm
Net weight: 270 kg
Gross weight: 300 kg

Country of Origin: European Union

Customs clearance code: 8419 8998

OPTIONAL



Cable port with cover

Approx. 35 mm Ø.

For example, to create access for operator measurement lines, etc.

Electronic CO₂ control unit (infrared measurement)

Operating range from 1 - 10% (20%), control accuracy +/- 0.5

Actual value permanently displayed digitally, setpoint adjustable via push-button and digitally readable

Ramp programme temperature & light

Programmable automatic operating cycles (4 programmes with 16 ramps) for temperature and light

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Qualifications



DQ (Design Qualification)

Definition: Documented proof that the quality-related, GMP-related requirements has been adequately addressed in the design of equipment, including buildings, premises and auxiliary equipment

The user-requirement profiles (specifications) are documented and confirmed by us. On request, a specification can be created by us.

IQ (Installation Qualification)

Definition: Documented proof that critical equipment and systems have been delivered and installed in accordance with the set requirements and government regulations.

The IQ documentation is worked out by us especially for the delivered machine and is made available to you. The IQ documentation has to be carried out by the customer itself.

OQ (Operational Qualification)

Definition: Documented proof that critical equipment and systems in accordance with the set requirements in the whole operating range are working as intended in accordance with predetermined limits.

The OQ documentation is worked out by us especially for the delivered machine and is made available to you. The OQ documentation has to be carried out by the customer itself.

CQ (Calibration Qualification)

Definition: Documented proof that critical measuring equipment in the intended range in accordance with predetermined tolerances operate reliably under current operating conditions

Checking the temperature in the unloaded incubator (after reaching steady state)

1 temperature on 2 measuring levels with 4 measuring points each and one measuring point in the centre of the unit. (Measurement with calibrated PT 1000 sensors). Test time 4 hours, then open door for 30 seconds.

During this time, the stated tolerances must not be exceeded.

The temperature measurements are carried out on our premises. The measurement evaluation, including graphical representation, is provided in written form. (Other measuring methods possible on request)

PQ (Performance-Qualification)

Definition: Documented proof that critical equipment and systems in accordance with the set requirements in the whole workspace under current working conditions (with product) provide the requested services

The calibration described above is carried out under real conditions on site. Optionally, the measurement can be carried out in a loaded or unloaded state. The measurement evaluation, including graphical representation, is carried out in written form. During this time, the stated tolerances must not be exceeded. (Other measuring methods possible on request)