

Cooling Incubator

KB 9182



Outside dimension: **W = 680 mm**
 D = 580 mm
 H = 1430 mm

Inside dimension: **W = 520 mm**
 D = 451 mm
 H = 777 mm

Capacity: **182 l**

Temperature range: **-9,9°C to 70°C**

Housing

galvanised steel sheet, epoxy-resin-coated, RAL 7035. Unit on four castors, lockable.

Interior space

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

The **thermo-jacket circulation system** ensures even temperature and humidity distribution in the chamber and prevents drying of the samples. Simply removing the inner casing for intensive cleaning.

Door

Double-walled insulation door, hinged on the right-hand side. Magnetic, all-round sealing strip, resistant to laboratory cleaning agents.

Optional:

- **Inspection window** in the front door, triple glazed with cover (dim: W: 32cm, H: 77cm – see ill.)
- with **door lock**

Interior fittings

Standard: 3 pcs. perforated stainless steel shelves (max. 14 pcs.)

Max. load per shelf: 30 kg in case of constant distribution – total load: 120 kg

Shelf dimension: W = 500 mm, D = 450 mm

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Control and instrument panel,

located above the door incl. temperature controller with digital indication



Microprocessor controller with OLED display. Temperature and time are entered via touch button below the display. Time values can be set in minutes from 1 to 999. The set time corresponds to the actual operating time. Therefore, the heating time does not need to be estimated and added.

Temperature operating range **from -9.9°C to 70° C.**

Temperature accuracy: temporal: $\pm 0.2^{\circ}\text{C}$, spatial: $\pm 0.3^{\circ}\text{C}$

The KB series is easy to use, while still offering **extensive programmability and numerous ramp options**. The intelligent design enables fast and precise temperature control, as well as fast recovery and defrost phases.

A potential-free alarm output is fitted as standard.

Abnormal operating states are signalled directly.

Optional:

- Integrated data logger readable via PC or gateway

Cooling unit

with partially automatic load-demand control, fan-ventilated compressor set, fully hermetically sealed coolant circuit, built-in automatic defrosting facility arranged in the bottom cabinet section, large-surface evaporator with built-in, low-noise air ventilator and capillary injection facility.

Refrigerant: environment-friendly

Electrical Data

Power supply	230 V/50 Hz a.A. 60 Hz / 1phasig
Power consumption	950 W
Fuse	16 A
Power cable	1,5 m with Schuko plug

Packing (palletized)

Dimensions:	approx. 85x70x170 cm
Net weight:	approx. 95 kg
Gross weight:	approx. 120 kg
Country of origin:	European Union
Customs clearance code:	8419 8998

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Special Equipment and Accessories:

CO₂ electronic control unit (infrared measurement)

Working range of 1 - 10% (20%), accuracy + / - 0.5%

Actual digitally displayed permanently, set point adjustable by buttons and digital readable

Temperature range: 5°C to 55°C



Door lock including 2 keys



Main socket

Installed inside the cabinet, 230 V, 50 Hz

ON/OFF by switch on control panel



Cable port with cover

Approx. 30 mm Ø. For example, to create access for operator measurement lines, etc.

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)