KB 9400 F-LL

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Outside dimension:	W = 960 mm D = 730 mm H = 1840 mm
Inside dimension:	W = 630 mm D = 592 mm H = 1073 mm
Capacity:	400 I
Temperature range:	-2°C to 70°C (without lighting) 5°C to 55°C (with lighting)
Humidity range:	30% r.h. to 96% r.h.

(III. similar)

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. The air flow is outside the work space. The circulation fan stops about 40 seconds after opening the door, though who the internal temperature is near the outside temperature. 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: 32 cm, H: 77 cm see photo
- with door lock

Interior fittings

Standard: 3 pcs. perforated stainless steel shelves (max. 22 pcs.) Max. load per shelf: 30 kg in case of constant distribution – total load: 120 kg Shelf dimension: W = 610 mm, D = 580 mm



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Control and instrument panel,

located above the door incl. temperature controller with digital indication

Microprocessor PID-controller touchscreen display. Time values can be given in minutes from 1 to 999.

Temperature without lighting

working range from -2°C to 70° C. accuracy temporal: +/-0,3°C, spatial: +/-0,3°C

Temperature with lighting

working range from 5°C to 55° C. accuracy temporal: +/-0,7°C, spatial: +/-1,0°C

Humidification by ultrasonic humidifier. Humidity conditioning outside the usable space

Humidity operating range from 30% r.H. to 96% r.H. (45°C)

at a working temperature of 4°C to 55°C Humidity accuracy: temporal: +/-2°C, spatial: +/-2°C

Water quality: Demineralised water, max. water pressure: 4 bar. Inlet and outlet at the rear of the unit.

Programmable automatic operating sequences for temperature and time (real time program) The KB series is easy to operate, yet offers extensive programmability and numerous ramp options. The intelligent design enables fast and precise temperature control, as well as fast recovery and defrost phases.

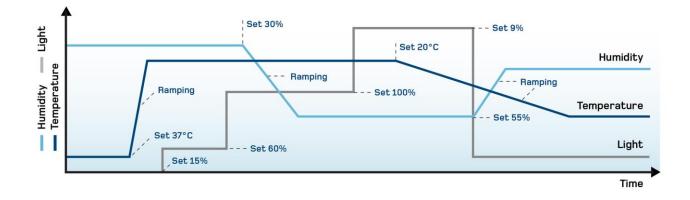
A potential-free alarm output is fitted as standard. Abnormal operating states are signalled directly.

Optional:

- Integrated data logger readable via PC or gateway

Light "high intensive"

The KB 9400 F-LL offers a lighting system for day/night simulation. The powerful light sources are placed on each side of the cabinet to maximise the usable space in the chamber. The system provides a maximum illuminance of 25 000 lux on the sides and an average of 12 000 lux in the centre and is fully programmable.







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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: R600a

Electrical Data

Power supply230 V/50 Hz a.A. 60 Hz / 1phasigPower consumption1200 WFuse16 APower cable1,5 m with Schuko plug

Packing (palletized)Dimensions:approx. 106x83x204 cmNet weight:240 kgGross weight:275 kgCountry of origin:European UnionCustoms clearance code: 8419 8998

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



Mains socket Installed inside the cabinet, 230 V, 50 Hz ON/OFF by switch on control panel



Cable port with cover Approx. 30 mm or 50 mm \emptyset . For example, to create access for operator measurement lines, etc.

Water tank for demineralised water (If no corresponding water pipe is available) Capacity: 10 litres For placing the container on the climate cabinet, with screwable filler neck, outlet tap and spout.



Qualifications



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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 must 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 must 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 climatic cabinet (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).

The humidity is measured simultaneously with a measuring point (in the centre of the unit).

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 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 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)

