

tritec Climatic Cabinet with light

KB 7070 F-LL



(Ill. similar)

Outside dimensions:	W = 700 mm
	D = 840 mm
	H = 2070 mm
Inside dimensions:	W = 600 mm
	D = 650 mm
	H = 1400 mm
Capacity:	700 litres
Temperature Range:	10°C to 45°C
Humidity Range:	from ambient to 85%

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 door, supplied as standard with right hand hinge, also available with left hand hinge at no extra cost. Grease resistant magnetic seal. Additionally equipped with one inner glass door.

Interior fittings

- 4 pcs. Grating-type shelves (dim.: 530x570 mm) (max. 12 shelves possible)
- 1 pc cable port

Control system

located above door.

Actual value and setpoint digitally adjustable via membrane push-button. Actual value permanently readable

Working range temperature and humidity

Temperature: 10°C up to 45°C

Humidity: ambient up to 85%

Temperature accuracy: +/- 2°C

Humidity accuracy: +/- 5%



(Ill. similar)

tritec®

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With the following control units:

- 2 pieces Digital thermostat with microprocessor enables PID Auto-tuning controller for temperature and humidity.
- Over-temperature safety thermostat, with alarm message
- Under safety temperature limiter, with alarm message

Alarm message:

- Over and under temperature alarm
- Compressor failure alarm
- Humidity alarm (low water)

Steam humidification

Complete with 20 lt. tank for filling with distilled water. (No tap water) Water quality: Dest. water, pure water quality < 20µS/cm, degree of purity: 5µmm.

Illumination device

Exhaustive illumination of the inner room by 2 x 6 units vertical arranged LED lamps (cool 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. With timer function.

Cooling unit

Fully hermetic, force-ventilated mounted on vibration dampers (ambient temperature 30°C), low-noise, energy-saving compressor with high-quality evaporation system.
Refrigerant: environmentally friendly

Electrical data

Voltage: 230 V / 50 Hz **Optional:** 60 Hz
Fuse: 24 A
Power cable: 2,0 m for termination

Packing details (palletized)

Dimensions: ca. 85x100x223 cm
Net weight: 240 kg
Gross weight: 280 kg
Country of Origin: European Union
Customs clearance code: 8415 8200

OPTIONAL

Digital recorder (4 channels) including user administration according to FDA 21CFR11.

(to be installed in the control panel of the stability chamber)

Electronic CO2 control unit

Operating range from 1 - 10% (20%), control accuracy +/- 0.5%, actual value permanently displayed digitally
Setpoint adjustable via push-button and digitally readable
Temperature range: 5°C to 55°C



Cable port with cover

Approx. 35 mm Ø.

e.g., 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 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 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)