

# tritec Climatic Cabinet

# KB 7140 F



(Ill. similar)

<b>Outside dimension:</b>	<b>W = 1400 mm</b> <b>D = 840 mm</b> <b>H = 2070 mm</b>
<b>Inside dimension:</b>	<b>W = 1300 mm</b> <b>D = 650 mm</b> <b>H = 1400 mm</b>
<b>Temperature range:</b>	<b>10°C to 45°C</b>
<b>Humidity range:</b>	<b>from ambient to 85%</b>
<b>Capacity:</b>	<b>1400 litres</b>

### 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 made of stainless steel, double-leaf with door lock, right- and left-hand hinge. Grease resistant magnetic seal. Additionally equipped with two inner glass doors.

### Interior fittings

- 8 pcs. Grating-type shelves (dim.: 530x590 mm) (max. 24 shelves possible)
- 1 pc. Cable port Ø 35 mm

### 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: 15°C up to 50°C

Temperature accuracy: +/- 1°C

Humidity: Ambient humidity up to 85% r.H.

Humidity accuracy: +/- 3%



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### With the following control units:

- 2 pcs. 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)

### Hot steam humidity device

Complete with 20 lt. tank to be filled with dist. water (not regular tap water)

Water quality: dist. water, pure water quality <20µS/cm, degree of purity: 5 µmm.

### 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

Fuse: 24 A

Power cable: 2,0 m for termination

### Packing details (palletized)

Dimension: approx. 150x100x223 cm

Net weight: 270 kg

Gross weight: 300 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 CO<sub>2</sub> 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

Temperature range: 5°C to 55°C

## 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)