

Laboratory Refrigerator, static cooling

Internally spark resistant – undercounter

TC 1007-ex



(Ill. similar)

External Dimension:
W = 600 mm
D = 615 mm
H = 820 mm

Inside Dimension:
W = 454 mm
D = 450 mm
H = 663 mm

Capacity: 139 l

Temperature range: -9°C to -26°C

Housing

galvanized sheet steel with white coating. Isolated door supplied as standard with right hand hinge (reversible). Grease resistant magnetic seal.

Interior space

of high-quality plastic. Cleaning friendly by rounded corners, slippery surface in the interior, meets highest hygiene requirements

Integration and foundation possible. Sufficient ventilation is important!

Isolation

Polyurethane, free of CFCs

Interior fittings

3 pcs of drawers from cold-resistant plastic (compartment height: 149mm)

1 pc insert basket

With four permanently mounted contact evaporator plates. (max. load 24 kg per shelf)

Control system located above door



- High quality electronic temperature controller.

Actual and set value display digital.

Actual value permanently readable

Set value digital adjustable by switch

Working range from -9°C to -26°C

- Temperature differences are displayed visually and acoustically,
- Door open Alarm
- Potential free alarm output for remote transmission
- Power failure alarm when mains power returns (optical)
- RS 485 interface
- Min/max temperature
- Temperature sensor alarm

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Refrigerating unit

Refrigerating unit fully hermetically sealed, forced ventilation, fitted on vibration - absorbing mounts (ambient temperature max. 32°C), low noise, energy saving compressor with high quality vaporisation system. Refrigerant: environment friendly R600a

Defrost

manually

Electrical dates

Power supply 230 V/50 Hz / single-phase
Energy consumption 0,93 KW (24 Std.)
Power cable 1,5 m with schuko plug

Packing details (palletized)

Dimensions: approx. 70x70x110 cm
Net weight: 43 kg
Gross weight: 46 kg
Country of Origin: European Union
Customs clearance code: 8418 5090

Technical indication:

This refrigerator is classified as “**internally spark resistant**” and have no electrical components in the interior, reducing the risk of fire or explosion. (The class of explosion protection provided by this equipment meets Federal German safety regulations for laboratory equipment DGUV Information 213-850. The appropriate regulations must be observed in other countries).

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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 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) according to DIN 13277:2022-05

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

Verifying the temperature in the unloaded cooling unit (after reaching the steady state)

1 temperature on 2 measuring levels with 4 measuring points each

(Measurement with calibrated PT 1000 sensors). Test time 4 hours, then open door for 60 seconds.

During this time, the limit values specified in DIN 13277:2022-05 must not be exceeded. Repeat the door opening after one hour.

The temperature measurements are carried out on our premises. The evaluation of the measurements, including graphical representation, is made in written form. The values must not exceed the limit values specified in DIN 13277:2022-05. **(Other measuring methods possible on request)**

PQ (Performance-Qualification) according to DIN 13277:2022-05

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 made in written form. The values must not exceed the limits specified in DIN 13277:2022-05. **(Other measuring methods possible on request)**