Laboratory Ultra Low Deep-Freezer, chest TC 903-85

(Ill. similar)

External Dimension: **W = 1260 mm**
D = 695 mm (plus handle and hinge)
H = 890 mm

Inside Dimension:

	Utility Space 1	Utility Space 2
W =	890 mm	W = 210 mm
D =	440 mm	D = 440 mm
H =	635 mm	H = 385 mm

Capacity: **284 l**

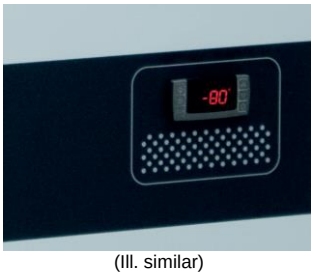
Temperature range: **-60°C to -85°C**

Housing
galvanized sheet steel with white coating.
Cover double-walled with door lock, adhesive band. With 4 castors.

Interior space
special aluminium with round edges

Isolation
Cyclopentane insulation, without space, free of CFCS

Interior fittings
Optional: **white coated** wire baskets



(Ill. similar)

High quality electronic temperature controller.
Actual and set value display digital.
Actual value permanently readable
Set value digital adjustable by switch.
Working range from -60°C to -85°C
Temperature irregularities are viewed acoustically
Battery backup for temperature display and alarm messages

Refrigerating unit
fully hermetically sealed fitted on vibration-absorbing mounts (ambient temperature 25°C), air cooled, low noise (55 dB(A)), energy saving compressor with high quality vaporisation system

tritec ®
Gesellschaft für Labortechnik
und Umweltsimulation mbH
Hüttenstraße 9
D-30165 Hannover

Homepage www.tritec-klima.com
E-mail info@tritec-klima.de
Phone ++49-511/3523508
Fax ++49-511/3521715
technische Änderungen vorbehalten

Laboratory Ultra Low Deep-Freezer, chest TC 903-85

Defrost
manually

Electrical dates

Power supply	230 V/50 Hz / single **Optional: 230 V/ 60 Hz**
Power consumption:	400 W
Energy consumption	8,5 KW (24 Std.)
Power cable	2,0 m with schuko plug

Packing details (palletized)
Dimensions: approx. 130x80x120 cm
Net weight: 76 kg
Gross weight: 95 kg
Country of Origin: European Union
Customs clearance code: 8418 3080

tritec ®
Gesellschaft für Labortechnik
und Umweltsimulation mbH
Hüttenstraße 9
D-30165 Hannover

Homepage www.tritec-klima.com
E-mail info@tritec-klima.de
Phone ++49-511/3523508
Fax ++49-511/3521715

Laboratory Ultra Low Deep-Freezer, chest TC 903-85

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) 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 3 measuring levels with 5 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 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.
exceeded. **(Other measuring methods possible on request)**

tritec ®
Gesellschaft für Labortechnik
und Umweltsimulation mbH
Hüttenstraße 9
D-30165 Hannover

Homepage www.tritec-klima.com
E-mail info@tritec-klima.de
Phone ++49-511/3523508
Fax ++49-511/3521715