

CTS-Temperature Test Chambers

The latest generation with innovative technique and future-oriented design.



Basic Equipment:

- ▶ capacitive Multi-Touch-Display in the front
- ▶ defined keys for elementary functions of the installation such as start/stop, fixed-value/automatic operation, interruption, light, etc.
- ▶ USB-Connection to save measuring data on USB Stick
- ▶ Ethernet – Interface/RS 232 – Interface
- ▶ 2 Digital Out, to switch test specimen ON/OFF
- ▶ adjustable software-temperature-limiter min./max.
- ▶ shelf, stainless steel
- ▶ entry port Ø 50 mm on the right side
- ▶ single-hand operated door handle, lockable

Your benefits:

- ▶ low consumption data
- ▶ minimum noise level
- ▶ user-friendly operation and programming
- ▶ uniform operation due to identical Multi-Touch-Display for all chamber sizes
- ▶ temperature measuring with Pt 100 in air inlet and air outlet
- ▶ Service-friendly construction
- ▶ international standards are fulfilled (CE-Conformity)

Test space capacity in Litres: 100 / 200 / 350 / 600 / 1000 / 1500 / 2000

Temperature range: -40° C / +180° C

-70° C / +180° C

CTS-Temperature Test Chambers / series T-40 and T-70

| Type | | | T-40/100 | T-40/200 | T-40/350 | T-40/600 | T-40/1000 | T-40/1500 |
|---|----------|-----------|-------------|-------------|----------|----------|-----------|-----------|
| | | | T-65/100 | T-70/200 | T-70/350 | T-70/600 | T-70/1000 | T-70/1500 |
| Test space | litres | | 100 | 200 | 350 | 600 | 1000 | 1500 |
| Test space dimensions | height | mm, appr. | 500 | 750 | 750 | 850 | 900 | 900 |
| | width | mm, appr. | 500 | 650 | 650 | 850 | 1000 | 1000 |
| | depth | mm, appr. | 400 | 400 | 720 | 830 | 1100 | 1600 |
| Overall dimensions | height | mm, appr. | 1630 | 1800 | 1800 | 1900 | 1950 | 1950 |
| | width | mm, appr. | 770 | 920 | 920 | 1120 | 1270 | 1270 |
| | depth | mm, appr. | 860 | 1345 | 1665 | 1875 | 2245 | 2745 |
| Temperature tests | | | | | | | | |
| Temperature range | T-40/... | °C | -40/+180 | -40/+180 | -40/+180 | -40/+180 | -40/+180 | -40/+180 |
| | T-70/... | °C | -65/+180 | -70/+180 | -70/+180 | -70/+180 | -70/+180 | -70/+180 |
| Temp. change rate cooling acc. IEC 60068-3-5 | T-40/... | K/min | 6 | 4 | 4 | 3,5 | 3 | 2,5 |
| | T-70/... | K/min | 2,5 | 4 | 3,5 | 3 | 2,5 | 2 |
| Temp. change rate heating acc. IEC 60068-3-5 | T-40/... | K/min | 6 | 4 | 3,5 | 3,5 | 3 | 3,5 |
| | T-70/... | K/min | 3 | 4 | 3,5 | 3,5 | 2,5 | 3,5 |
| max. thermal load at +20°C | T-40/... | W | 1400 | 3500 | 3500 | 4000 | 4000 | 4000 |
| | T-70/... | W | 400 | 3000 | 3000 | 4000 | 4000 | 4000 |
| Temperature fluctuation | | K | ≤± 0,3 | | | | | |
| Nominal voltage | | | 230V+6/-10% | 400V+6/-10% | | | | |
| | | | 1/N, 50Hz | 3/N, 50 Hz | | | | |
| Nominal power | T-40/... | kW, ca. | 3,5 | 6 | 6 | 7,2 | 7,4 | 9,4 |
| | T-70/... | kW, ca. | 3 | 7,2 | 7,2 | 8,7 | 8,9 | 10,8 |
| Refrigeration unit | | | air cooled | | | | | |
| Weight | T-40/... | kg, ca. | 280 | 400 | 500 | 550 | 800 | 950 |
| | T-70/... | kg, ca. | 300 | 450 | 550 | 600 | 850 | 1050 |
| Noise level | | dB(A) | <55 | <58 | <58 | <58 | <58 | <58 |

All figures are average values which have been obtained at a temperature of +25°C, without test specimen, without thermal load and without options.

Control: Multi-Touch-Display with integrated programm controller

Test space: Stainless steel grade 1.4301

Refrigerants: environmental friendly refrigerants

Options:

- ▶ add. entry ports Ø 50 mm, 80 mm and 125 mm
- ▶ add. shelves
- ▶ Panoramic window, multiple glazed sized 570 x 710 mm, ≥ 200 ltr. incl. LED-Light
- ▶ Hand-holes in the door
- ▶ add. Pt 100 for temperature measuring on test specimen reversible to controller function
- ▶ air dryer system
- ▶ Mobile design
- ▶ Temperature protection for test-specimen
- ▶ water cooled refrigeration unit
- ▶ CID software for programming and documentation
- ▶ variable air speed in the testspace
- ▶ RS 232 interface changeable to USB
- ▶ notch

Other chamber sizes and options on request. We reserve the right to make modifications due to technical development.

