

# CTS-Climatic Test Chambers

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



## Basic Equipment:

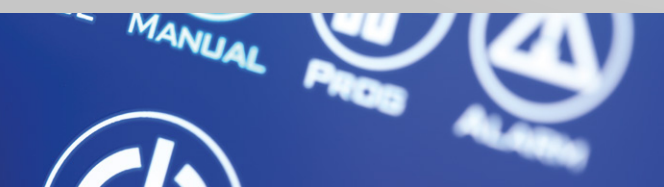
- ▶ capacitive Multi-Touch-Display in the front
- ▶ service-friendly capacitive humidity measurement system
- ▶ defined keys for elementary functions of the installation such as start/stop, fixed-value/automatic operation, interruption, light, etc.
- ▶ USB-Connection to save measuring data on USB Stick
- ▶ 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
- ▶ demineralized water system with level indicator
- ▶ 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:** +10° C/+180° C; -20° C/+180° C  
-40° C/+180° C; -70° C/+180° C



# CTS-Climatic Test Chambers / series C-40 and C-70

Type			C-40/100	C-40/200	C-40/350	C-40/600	C-40/1000	C-40/1500
			C-65/100	C-70/200	C-70/350	C-70/600	C-70/1000	C-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
<b>Temperature tests</b>								
Temperature range	C-40/...	°C	-40/+180	-40/+180	-40/+180	-40/+180	-40/+180	-40/+180
	C-70/...	°C	-65/+180	-70/+180	-70/+180	-70/+180	-70/+180	-70/+180
Temp. change rate cooling acc. IEC 60068-3-5	C-40/...	K/min	5	4	4	3,5	3	2,5
	C-70/...	K/min	2	4	3,5	3	2,5	2
Temp. change rate heating acc. IEC 60068-3-5	C-40/...	K/min	3	4	3,5	3,5	3	3,5
	C-70/...	K/min	3	4	3,5	3,5	2,5	3,5
max. thermal load at +20°C	C-40/...	W	1200	3500	3500	4000	4000	4000
	C-70/...	W	400	3000	3000	4000	4000	4000
Temperature fluctuation		K	≤± 0,3					
<b>Climatic tests</b>								
Temperature range		°C	+10 bis +95					
Humidity range		% r.F.	+10 bis +98					
Dew point range I		°C	+7 bis +94					
Dew point range II		°C	-7 bis +7		-10 bis +7			
Humidity fluctuation I, temporally		% r.F.	≤± 1,5					
Humidity fluctuation II, temporally		% r.F.	≤± 3					
Temperature fluctuation, temporally		K	≤± 0,3					
Nominal voltage			230V+6/-10% 1/N, 50 Hz		400V+6/-10% 3/N, 50 Hz			
Nominal power	C-40/...	kW, appr.	3,4	7,1	7,1	8,2	8,5	9,2
	C-70/...	kW, appr.	3,4	7,1	7,1	8,7	8,9	10,8
Refrigeration unit			air cooled					
Weight	C-40/...	kg, appr.	350	450	500	550	800	950
	C-70/...	kg, appr.	380	500	550	600	850	1050
Noise level		dB(A)	55	55	<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. Technical data for types +10/-20°C on request.

**Control:** Multi-Touch-Display with integrated programm controller

**Test space:** Stainless steel grade 1.4301  
**Refrigerants:** environmental friendly refrigerants

**Humidity system:** capacitive measuring

## 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.

