

# CTS-CLIMATIC TEST CHAMBERS

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

## STANDARD-VERSION OF THE PRODUCT LINE "C":

- ▶ multicolour touchpanel; 32 Bit Controller
- ▶ service-friendly capacitive humidity measurement system
- ▶ RS 232 interface
- ▶ potential free contact for malfunction signal
- ▶ single-hand operated door handle, lockable
- ▶ entry port  $\varnothing$  50 mm
- ▶ Error display in plain text
- ▶ shelf, stainless steel



## YOUR BENEFITS:

- ▶ Complies with current CE and EMC regulation
- ▶ use of environmentally friendly materials and refrigerants
- ▶ service-friendly construction
- ▶ optimized parameters for highest testing precision
- ▶ Demineralized water system with water-level gauge
- ▶ minimum noise level
- ▶ high temperature change rate
- ▶ simple user-friendly operation and programming
- ▶ low power-consumption datas

**TEST SPACE CAPACITY IN LITRES:** 100 / 200 / 350 / 600 / 1000 / 1500

**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

100 UP TO 1500 LTR.

TYPE		C -40/100 C -65/100	C -40/200 C -70/200	C -40/350 C -70/350	C -40/600 C -70/600	C -40/1000 C -70/1000	C -40/1500 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	1400	3500	3500	4000	4000	4000
	C-70/... W	700	3000	3000	4000	4000	4000
Temperature fluctuation	K	≤± 0,3 temporally					
<b>CLIMATIC TESTS</b>							
Temperature range	°C	+10 to +95					
Humidity range	% RH	10 to 98					
Dew point range I	°C	+7 to +94					
Dew point range II	°C	-7 / +7	-10 to +7				
Humidity fluctuation I	% RH	≤± 1,5					
Humidity fluctuation II	% RH	≤± 3					
Temperature fluctuation	K	≤± 0,3					
Nominal voltage		230 V +6-10%, 1/N, 50Hz	400 V +6% -10%, 3/N, 50 Hz				
Nominal power	C-40/...kW, appr.	4,1	7,1	7,1	8,2	8,5	9,2
	C-70/...kW, appr.	4,1	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	<58	<58	<58	<58	<58

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

### DESIGN:

Control:	Microprocessor control and monitoring system
Test space:	Stainless steel grade 1.4301
Refrigerants:	Chloride free, hermetically sealed
Humidity system:	capacitive measuring

### OPTIONS:

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

Other chamber sizes and options on request.

We reserve the right to make alterations due to technical development.

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