

C-SERIES CLIMATIC TEST CABINETS



**UpClimatic
enclosures**



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TW/CW series walk-in / wheel-in test chambers




Test space volume

 from >2 to 200 m³ and higher

Humidity ranges

 10 - 95...98 % r.h.

Temperature ranges

 -40°C / +150...180°C
-70°C / +150...180°C
down to -45°C using CO₂

MOST IMPORTANT OPTIONS OF THE TEMPERATURE AND CLIMATIC TEST CHAMBERS

- CO₂ at the refrigeration stage
- Design for lowered pit version
- Combination with lighting modules for solar simulation
- Explosion-proof design (anti-explosion protection in line with ATEX)
- Equipped for lithium-ion battery tests in line with the hazard level
- Design for airbag deployment tests
- Design for vibration tests with shaker systems including MAST
- Design for corrosion tests
- Customer-specific designs and further options on request.

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C series climatic test

In the CTS climatic test cabinets, not only the temperature but also the stress factor of humidity can be simulated. Humidity measurements are carried out via a capacitive humidity measuring sensor, which stands out for its high precision, low maintenance requirements and long-term stability.

Test space volume in litres:



100 / 200 / 350 / 600 / 1000 / 1500
/ 2000 / custom sizes

Temperature ranges:



+10°C / +180°C
-20°C / +180°C
-40°C / +180°C
-70°C / +180°C

Humidity ranges:



10 - 98 % r.h.



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
Temperature tests								
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					
Climatic tests								
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



CTS table top devices – space-saving temperature testing

Our table top devices are outstandingly well suited for rooms with limited space. The powerful devices are designed to stand on the table top and are thus optimally suited for use in the laboratory. Because of their very low noise level, working in close proximity is no problem.

Test space in litres



25 / 50

Temperature ranges



-40 °C / +180 °C
-65 °C / +180 °C

Options:

- ▶ add. entry ports Ø 50 mm, 80 mm und 125 mm
- ▶ Rack incl. 1 shelf
- ▶ Table with height 330 or 515 mm
- ▶ Window, multiple glazed
- ▶ add. Pt 100 for temperature measuring on test specimen reversible to controller function
- ▶ air dryer system
- ▶ Temperature protection for test-specimen
- ▶ CID software for programming and documentation
- ▶ variable air speed in the testspace
- ▶ RS 232 interface changeable to USB
- ▶ notch

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CTS-Temperature Test Chambers (Bench Top Version)

Type			T-40/25	T-40/50	T-65/50
Test space	litres		25	50	50
Test space dimensions	height	mm, appr.	300	400	400
	width	mm, appr.	350	400	400
	depth	mm, appr.	240	320	320
Overall dimensions	height	mm, appr.	860	1030	1030
	width	mm, appr.	510	560	560
	depth	mm, appr.	580	660	840
Design			bench top cabinet	bench top cabinet	bench top cabinet
Temperature tests					
Temperature range		°C	-40/+180	-40/+180	-65/+180
Temp. change rate cooling acc IEC 60068-3-5		K/min	6,5	5	4
Temp. change rate heating acc IEC 60068-3-5		K/min	8	5	6
max. thermal load at +20°C		W	400	400	400
Temperature fluctuation		K	≤± 0,3	≤± 0,3	≤± 0,3
Nominal voltage			230 V +6 /-10%	230 V +6 /-10%	230 V +6 /-10%
			1/N, 50 Hz	1/N, 50 Hz	1/N, 50 Hz
Nominal power		kW, appr.	2,2	2,2	2,8
Refrigeration units			air cooled	air cooled	air cooled
Weight		kg, appr.	90	130	160
Noise level		dB(A)	50	50	<52



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TS/CS series stress screening test cabinets for temperature and climatic tests

Test space volume in litres



100 / 200 / 350 / 600 / 1000 / 1500
/ 2000 / custom sizes

Temperature ranges



-40°C / +180°C
-70°C / +180°C

Rates of temperature change



5 K/min, 10 K/min, 15 K/min, 30
K/min (on customer request)

Your benefits:

- ▶ low consumption data
- ▶ minimum noise level
- ▶ extremely high temperature change rates
- ▶ 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)



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Type	TS -40/..., CS-40/... TS -70/..., CS-70/...		5 K/min.							
			-70/100-5	-40/200-5 -70/200-5	-40/350-5 -70/350-5	-40/600-5 -70/600-5	-40/1000-5 -70/1000-5	-40/1500-5 -70/1500-5		-70/100-10
Test space	litres		100	200	350	600	1000	1500	100	
Test space dimensions	height	mm, approx.	500	750	750	850	900	900	500	
	width	mm, approx.	500	650	650	850	1000	1000	500	
	depth	mm, approx.	400	400	720	830	1100	1600	400	
Overall dimensions	height	mm, approx.	1630	1800	1800	1900	1950	1950	1630	
	width	mm, approx.	770	920	920	1120	1270	1270	770	
	depth	mm, approx.	860	1345	1665	1875	2245	2745	860	
Temperature Tests										
Temperature range	TS-40/... CS-40/...	°C		-40/+180	-40/+180	-40/+180	-40/+180	-40/+180		
	TS-70/... CS-70/...	°C	-70/+180	-70/+180	-70/+180	-70/+180	-70/+180	-70/+180	-70/+180	
Temp. Change rate cooling acc. IEC 60068-3-5	TS-40/... CS-40/...	K/min		5	5	6	5	5		
	TS-70/... CS-70/...	K/min	8	6	5	7	5	5	10	
Temp. Chang rate heating acc. IEC 60068-3-5	TS-40/... CS-40/...	K/min		8	8	6	6	5		
	TS-70/... CS-70/...	K/min	6	8	8	6	6	5	10	
max. thermal load at +20°C	TS-40/... CS-40/...	W		3500	3500	4500	5200	5000		
	TS-70/... CS-70/...	W	1200	3500	3500	5000	5500	5500	2000	
Temperature fluctuation		K	≤± 0,3							
Climatic Test										
Temperature range	CS-40/... CS-70/...	°C		+10 bis +95						
Humidity range	CS-40/... CS-70/...	% r.F.		10 bis 98						
Dew point range I	CS-40/... CS-70/...	°C		+7 bis +94						
Dew point range II	CS-40/... CS-70/...	°C		-10 bis +7						
Humidity fluctuation I	CS-40/... CS-70/...	% r.F.		≤± 1,5						
Humidity fluctuation II	CS-40/... CS-70/...	% r.F.		≤± 3						
Temperature fluctuation	CS-40/... CS-70/...	K		≤± 0,3						
Nominal voltage	400V+6% -10%, 3/N, 50 Hz									
Nominal power	TS-40/...	kW, approx.		9,3	9,3	11	13,3	13,2		
	CS-40/...	kW, approx.		10,4	10,4	12,1	13,2	13,2		
	TS-70/...	kW, approx.	6,5	12	11,8	14,2	16,4	16,1	7,5	
	CS-70/...	kW, approx.		12	11,8	14,2	16,4	16,1		
Refrigeration unit	air cooled				water cooled				air cooled	
Weight	TS-40/... CS-40/...	kg, approx.		500	600	700	850	1000		
	TS-70/... CS-70/...	kg, approx.	300	550	650	750	900	1100	350	
Noise level		dB(A)	≤60	≤58	≤58	≤62	≤62	≤64	≤60	

T series temperature test cabinets



Due to their innovative control system and the careful selection of all components, the CTS temperature test cabinets are among the most energy-efficient devices on the market. The temperature can be controlled either via the supply air sensor or the exhaust air sensor, allowing it to be optimally adapted to your tests and the test specimen.

Test space volume in litres



100 / 200 / 350 / 600 / 1000 / 1500
/ 2000 / custom sizes

Temperature ranges



+10 °C / +180 °C
-20 °C / +180 °C
-40 °C / +180 °C
-70 °C / +180 °C

Self Storage

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

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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



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