

# CTS-Temperature-/Climatic- Stress-Screening-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

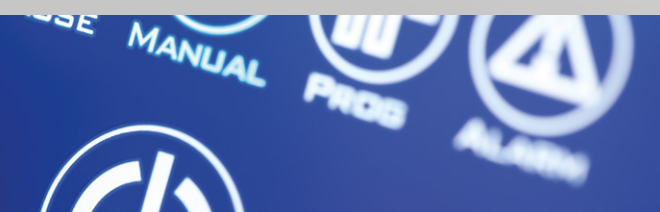
## Your benefits:

- ▶ low consumption data
- ▶ minimum noise level
- ▶ 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)

Screening Chambers with 5 K/min, 10 K/min and 15 K/min

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

Temperature range: -40° C/+180° C; -70° C/+180° C



# Temperature-/Climatic-Stress-Screening-Chambers

Type	TS -40/..., CS-40/... TS -70/..., CS-70/...		5 K/min.						-70/100-10	
			-70/100-5	-40/200-5	-40/350-5	-40/600-5	-40/1000-5	-40/1500-5		
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	
<b>Temperature Tests</b>										
Temperature range	TS-40/... CS-40/...	°C		-40/+180	-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	-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							
<b>Climatic Test</b>										
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	

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 program controller
- Test Space::** Stainless steel grade 1.4301
- Refrigerants:** environmental friendly refrigerants
- Humidity system:** (only type CS) capacitive measuring

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

10 K/min.					15 K/min.						
-40/200-10	-40/350-10	-40/600-10	-40/1000-10	-40/1500-10		-40/280-15		-40/500-15	-40/810-15	-40/1250-15	
-70/200-10	-70/350-10	-70/600-10	-70/1000-10	-70/1500-10	-70/200-15		-70/350-15	-70/500-15	-70/810-15	-70/1250-15	
200	350	600	1000	1500	200	280	350	500	810	1250	
750	750	850	900	900	750	720	750	820	870	870	
650	650	850	1000	1000	650	650	650	850	1000	1000	
400	720	830	1100	1600	400	615	720	725	900	1400	
1800	1800	1900	1950	1950	1800	2080	1800	2170	2230	2230	
920	920	1120	1270	1270	920	920	920	1120	1270	1270	
1345	1665	1875	2245	2745	1345	2165	1665	2375	2645	3142	
-40/+180	-40/+180	-40/+180	-40/+180	-40/+180		-40/+180		-40/+180	-40/+180	-40/+180	
-70/+180	-70/+180	-70/+180	-70/+180	-70/+180	-70/+180		-70/+180	-70/+180	-70/+180	-70/+180	
10	10	10	10	10		19		15	15	15	
11	10	10	10	10	15		15	15	15	15	
12	10	10	10	10		16		15	15	15	
12	10	10	10	10	15		15	15	15	15	
5000	5000	7000	8000	8000		5000		7000	8000	8000	
4000	5000	5000	7500	8000	5000		6000	8000	8000	8000	
$\leq \pm 0,3$					$\leq \pm 0,3$						
+10 bis +95					+10 bis +95						
10 bis 98					10 bis 98	10 bis 95	10 bis 98	10 bis 95			
+7 bis +94					+7 bis +94						
-10 bis +7					-10 bis +7						
$\leq \pm 1,5$					$\leq \pm 1,5$						
$\leq \pm 3$					$\leq \pm 3$						
$\leq \pm 0,3$					$\leq \pm 0,3$						
400V+6% -10%, 3/N, 50 Hz					400V+6% -10%, 3/N, 50 Hz						
13,4	13,4	15,5	20,9	20,9		15,1		24,4	23,7	30,8	
14,5	13,4	15,5	20,9	20,9		15,1		24,4	23,7	30,8	
16,6	16,6	13	15,4	20,2	17		20,4	25,6	27,3	38,1	
16,6	16,6	13	15,4	20,2			18,3	25,6	27,3	38,1	
water cooled					water cooled						
600	700	800	1000	1150		800		800	1100	1350	
650	750	900	1000	1300	650		750	1000	1800	1500	
$\leq 62$	$\leq 62$	$\leq 62$	$\leq 65$	$\leq 70$	$\leq 62$	$\leq 63$	$\leq 62$	$\leq 68$	$\leq 73$	$\leq 73$	

#### Options:

- ▶ add. Entry ports  $\varnothing$  50 mm, 80 mm und 125 mm
- ▶ add. Shelves
- ▶ panoramic window, multiple glazed, sized 570x710 mm,  $\leq$  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
- ▶ air/water cooled refrigeration unit
- ▶ temperature protection for test specimen
- ▶ CID software for programming and documentation
- ▶ variable air speed in the test space
- ▶ RS 232 interface changeable to USB
- ▶ notch



**How to find us:**

