

Systems for XXL Quality

Vötsch
Industrietechnik



Temperature and Climatic Testing Technology

ensures optimum function and reliability in the automobile industry, electrical/electronics industry and material testing

Ideal for Testing Bulky Components ...



Features of the series VT & VC XXL

- Compact design
- Work space in stainless steel
- Double-wing test space door, l.h. door with observation window 300x500 mm
- Air treatment compartment located at the right side of the work space
- Water-cooled refrigeration unit
- Climatic system: steam humidifier dew point cooler
- Microprocessor control and monitoring system SIMCON/32-NET
- Integrated colour touchpanel
- Interface RS 232

The application

Performance of temperature and climatic tests on large volume components and complete assemblies for the

- Automobile supplier industry
- Electrical and electronics industry
- Material testing

large scale testing systems are required.

In order to meet the demands of our customers, we have designed the temperature and climatic test systems **group XXL ...**

At present, two sizes are available with further models to follow.

Thanks to the modular design, these chambers can be tailor-made.

Further features in standard equipment

- Digital I/O
- Potential-free contact for switching-off of test specimens
- Adjustable software temperature limiter min./max.
- Independent adjustable temperature limiter t_{min} / t_{max}
- Capacitive measuring system
- Test space illumination
- Plain test space walls
- Entry port 80 mm Ø

Important options

- Right door with window
- Additional sound insulation
- Insert floor as well as reinforced insert floor
- Adjustable circulating air quantity
- Compressed air dryer
- Additional entry ports
- Software SIMPATI*
- Interface RS 485/422-network card
- Interface RS 232/485 or RS 232/IEEE488
- Ethernet interface
- Centronics interface
- Analog transducer card I/O
- Temperature measuring on test specimen



in Temperature and Climatic Test Chambers XXL



Convenient operation

Basis is a high-performance 32 bit control system (SIMCON/32-NET) for monitoring and controlling the test systems.

The colour touchpanel with graphics colour-LCD-display has a menu-guided user interface. Processes, system status information as well as other process charts are depicted by self-explanatory graphics. Comprehensive test programmes can be developed, stored and reactivated in a safe and easy manner.

Of course, external control via the RS 232 interface is also possible.

The SIMPATI control software (option) enables you to use your systems even more effectively.



Technical Data

Temperature VT XXL		Type	VT	VT	VT	VT
Climatic VC XXL		Type	VC	VC	VC	VC
			4200	7200	4340	7340
Test space volume approx.	Litre		2500	2500	3400	3400
Performance for temperature tests						
Temperature range	°C		-40/+180	-70/+180	-40/+150	-70/+150
Temperature deviation in time	K		±0.3 to ±1.0			
Temperature deviation in space	K		±1.0 to ±2.0			
Temperature gradient ¹⁾	K		2 to 4			
Temperature change rate	Cooling K/min		3	2	1.8	1.3
	Heating K/min		2	2	1.8	1.8
Performance for climatic tests VC... XXL						
Temperature range	°C		+10 to +90			
Temperature deviation in time	K		±0.1 to ±0.5			
Temperature deviation in space	K		±1 to ±1.5			
Temperature gradient ¹⁾	K		2 to 3			
Humidity range	%		10 to 98		10 to 95	
Humidity deviation in time	%		±1 to ±3		±3 to ±5	
Dew point range	°C		+5 to +89		+5 to +85	
Test space dimensions	Width	mm	2000	2000	2000	2000
	Depth	mm	1150	1150	1150	1150
	Height	mm	1150	1150	1510	1510
External dimensions	Width	mm	3500	3500	3500	3500
	Depth	mm	1450	1450	1450	1450
	Height	mm	2100	2100	2100	2100
Weight approx.	kg		1350	1450	1500	1600
Noise level ²⁾	ca. dB(A)		68	72	68	72
Rated power	kW		14	15	14	15
Electrical connection			3/N/PE AC 400 V ±10 % 50 Hz			

The performance values refer to +25 °C ambient temperature

¹⁾ in accordance with IEC 60068-3-5

²⁾ free field, 1 m distance from the front, as per DIN 45635, part 1, accuracy class 2

We reserve the right of changes in construction resulting from technical progress.



Examples of tailor-made systems

Temperature and climatic test chambersXXL - Special width -

Test space dimensions	
Width	2500
Depth	1150
Height	1150
Volume	3300 l



Temperature and climatic test chambersXXL - Special height -

Test space dimensions	
Width	2000
Depth	1150
Height	2000
Volume	4300 l



Temperature and climatic test chambers ... XXL with temperature rate of change Heating / Cooling 3 K/min

Temperature VTS	Type	VTS	VTS	VTS	VTS
Climatic VCS	Type	VCS	VCS	VCS	VCS
		4200-3	7200-3	4340-3	7340-3
Test space volume approx.	Litre	2500	2500	3400	3400
Temperature rate of change as per IEC (1)					
Cooling	K/min	3	3	2	2
Heating	K/min	3	3	2	2

Temperature rate of change 5 K/min or more on request.

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