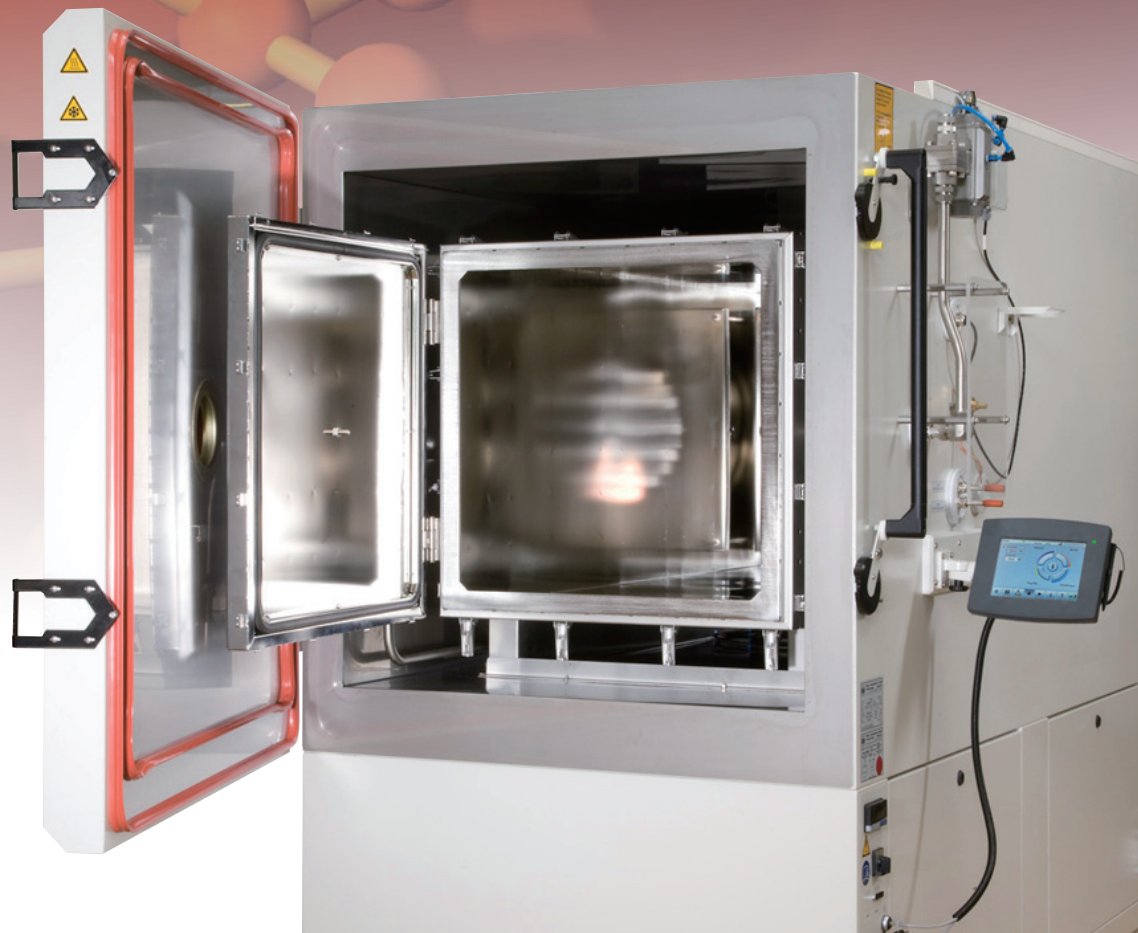


# Formaldehyde/VOC Testing Chambers

Global Partner for Environmental Test Chambers

The technical requirements of the environmental test equipment were defined by specialists from industry and science and then successfully put into practice:

- A test equipment with a low emission (purity in molecular range)
- Excluding contaminations from the vicinity
- Particle measurement
- Minimizing adsorption effects
- High desorption temperatures ( > 200 °C)
- High parameter accuracy
- Ventilation
- Tests with and without air exchange
- Standard analytical equipment can be used
- Networking and documentation possible



## Basic equipment

- Test space stainless steel, electro polished and pressure proof to  $\pm 10$  mbar
  - Air-jacket conditioning
  - Carrier gas conditioning for climate
  - Carrier gas massflow control via massflow controller
  - Desorption and rinsing procedure
  - Special ventilation with a dry mounted magnetic clutch
  - Connection for discharging quantities of gas for analysis
  - Entry port septum
  - Water storage container (humidification water) of stainless steel with automatic water replenishment
  - Microprocessor control and monitoring system
  - Colour touchpanel
- Options and user-specific solutions on request.

## Technical Data

Type		VCE 200	VCE 1000
Test space volume (useful)	l	240 (208)	1000 (916)
Carrier gas		purified compressed air, on-site	
Performance range for temperature testing			
Conditioning		air jacket principle	
Temperature range	°C	+20 to +130	
Temperature deviation in time <sup>1)</sup>	K	$\pm 0.1$ to $\pm 0.3$	
Temperature homogeneity in space <sup>2)</sup>	K	$\pm 0.5$	
Temperature rate of change <sup>3)</sup>			
Cooling	K/min	0.3	0.3
Heating	K/min	1.0	0.4
Performance range for climate testing			
Conditioning		Carrier gas conditioning with climatic modul with evaporation system	
Temperature range	°C	+20 to +130	
Humidity range	%	5 to 95	
Dew point range	°C	+5 to +60	
Humidity deviation in time	%	$\pm 1$ to $\pm 3$	
Carrier gas exchange rate		0.1 to 1.8 chamber volume per hour	
Conditions of carrier gas		min. +10 °C / 50 % RH max. +32 °C / 80 % RH	
Performance range for desorption			
Temperature of desorption		up to max. +240 °C, adjustable	
Test space surface temperature		between +220 °C and +240 °C	
Rinsing procedure		max. 4 m <sup>3</sup> /h	
Dimensions test space	Width	mm	610
	Depth	mm	610
	Height	mm	560
Test space door	mm	530 x 520	670 x 670
External dimensions	Width	mm	1250
	Depth	mm	1700
	Height	mm	2350
Sound pressure level <sup>4)</sup>	dB(A)	61	63
Rated power	kW	9,0	10,0
Electrical connection		3/N/PE AC 400 V $\pm 10$ %, 50 Hz	

Admissible ambient conditions: temperature +15 °C to +35 °C, humidity max. 75 %, max. dew point +20 °C - 1) measured in the middle of test space, 2) relative to the set value, 3) in accordance with IEC 60068-3-5, 4) measured 1 m distance from the front and in 1.6 m height at free field measurement according to EN ISO 11201.  
We reserve the right of changes in construction resulting from technical progress. Some of the illustrated systems contain optional extras.



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