

Vibration-Temperature (Humidity) Combined Environmental Reliability Test System

VC Series General Purpose Vib-Tech Chamber[®]



※The vibration controller is mounted in the console rack. (Optional)

A combined environmental reliability test system is designed for performing vibration test under specified temperature and humidity conditions. The combined reliability tests have been performed to evaluate reliability of equipment from early days in the field of aerospace industry. But in recent years, electronic devices such as semi-conductors, etc. are rapidly advanced in technology and complex materials made of plastic are used in the automobile industry. The combined reliability test today becomes indispensable to assure product reliability. Until now, temperature, humidity, vibration, these three tests have been done separately. But, EMIC's combined environmental reliability test system enables simultaneous performance, therefore, the required test time can be reduced drastically, and the reliability of a test unit can be checked under more severe combined environmental condition than conventional test methods.

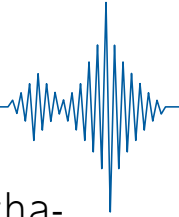
Vib-Tech Chamber[®] is a trademark of EMIC CORPORATION.

Vib_Tech Chamber[®] Specification

Selection Item	Code	Specification
Base Model	VC-062	600W×700H×600D mm Volume [252ℓ]
	VC-082	800W×800H×800D mm Volume [512ℓ]
	VC-102	1000W×1000H×1000D mm Volume [1000ℓ]
Category	A	Oven
	B	Temperature Chamber
	D	Temperature Humidity Chamber
Refrigerator Condensation	A	Air-cooled
	W	Water-cooled
		Not applicable
Moving Mechanism	F	Fixed to Floor Type
	M	Moving on Rail Type
	X	Drawer Type
Combination with Shaker	Y	Detachable Diaphragm Floor Plug Type
	Z	Through Hole Type
Temperature Range	(01)(02)(03)	01 (RT+10°C to 100°C) 02 (RT+10°C to 150°C) 03 (RT+10°C to 180°C)※
	(21)(22)(23)	21 (-25°C to 100°C) 22 (-25°C to 150°C) 23 (-25°C to 180°C)※
	(31)(32)(33)	31 (-40°C to 100°C) 32 (-40°C to 150°C) 33 (-40°C to 180°C)※
	(41)(42)(43)	41 (-55°C to 100°C) 42 (-55°C to 150°C) 43 (-55°C to 180°C)※
	(51)(52)(53)	51 (-70°C to 100°C) 52 (-70°C to 150°C) 53 (-70°C to 180°C)※
Programmer/Controller	M1	Manually Operated Digital Controller
	P3	LCD Touch Screen Controller
Recorder	T	5.7" TFT Color LCD, 6 CH Input, SD Card, Option: 12CH Input
	X	5.7" TFT Color LCD, 10CH Input (Expandable up to Max. 100 CH), SD Card, LAN Connection

※ Upper limit of 200°C: Option

※ When exporting Combined Environmental Testing System from Japan to overseas, Export License from the Ministry of Economy, Trade and Industry in Japan may be required depending on the specifications such as temperature range and rated force. Please contact us for details.



Chamber Transfer Mechanism for switching Vibration Axis between Horizontal and Vertical Direction (Optional)

This mechanism is used for combining a chamber with the vibration testing system which a slip table is attached. The chamber can be easily joined with the vibration generator and slip table through a special interface using a lift mechanism to move the chamber up and down and the rails to move it horizontally. In addition, they can be used independently from each other by separating the vibration testing system from the chamber.



Cantilever Type Chamber

The cantilever type temperature/humidity chamber has no frame around its test room to make the setup of a test article easier, therefore, the operating efficiency can be greatly improved. The test room can be moved with the test article mounted on the vibration generator.



※Crane is an option.