

Temperature Humidity Vibration Test System

-----the Internal Dimension can be customized

-----temperature humidity adjustable

Application:

Lab Environmental Tester High Frequency Electrodynamic Shaker Vibration Machine provides the change of temperature and humidity environment for the aerospace, aviation, petroleum, chemical, electronics, communication and other scientific research and production units, at the same time in the test chamber electric vibration stress according to the provisions of the cycle is applied to the sample, for the user of the machine (or components), electrical appliances, instruments, materials etc. temperature and humidity, vibration stress screening test, in order to assess product adaptability or experiment on behavior evaluation.

Technical Parameter:

Name	High Frequency Electrodynamic Shaker		
Model	THV-408(A~F)	THV-1000(A~F)	THV-1500(A~F)
Internal Dimension WxHxD(mm)	600x850x800	1000x1000x1000	1500x1500x1500
External dimension WxHxD (mm)	850x1950x2100	1300x2200x2400	1800x2400x3000
Temperature Range	Low temperature: (A:25°C; B:0°C; C:-20°C; D: -40°C; E: -60°C; F:-70°C) High temperature:100°C(150°C)		
Humidity Range	20%~98%R.H.(10%-98% R.H. / 5%-98% R.H. is a special optional condition, need Dehumidifier)		
Control Accuracy of temperature and humidity	±0.5°C; ±2.5% R.H.		
Temperature Rising / Falling Velocity	Temperature rising approx. 0.1~3.0°C/min ; temperature falling approx. 0.1~1.2°C/min; (Falling velocity Min.1.5°C/min is optional)		
Protection Devices	Fuse-free switch, overloading protection switch for compressor, high and low voltage coolant protection switch, over-humidity and over-temperature protection switch, fuses, fault warning system, water short storage warning protection		
Vibration Test Equipment	Choose proper vibration test bench according to customer's test condition, the technical parameters please take Electrostatics Type Vibration Tester's parameters in this catalog for reference		



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For Vibration Shaker:

Model	ES-3	ES-3a	ES-6	ES-6a	ES-10	ES-20	ES-30	ES-40	ES-50
Rated Sine Force (N)	3000	3000	6000	6000	10000	20000	30000	40000	50000
Rated Random	3000	3000	6000	6000	10000	20000	30000	40000	50000
Force (N)	3-3500	3-3500	3-3500	3-3500	3-3000	3-3000	3-2800	3-2800	3-2700
Frequency Range (Hz)	1000	400	1000	1000	1000	1000	1000	1000	1000
Rated Acceleration (m/s ²)	1.6	1.6	1.6	1.6	1.8	1.8	1.8	1.8	1.8
Rated Speed (m/s)	25	40	25	51	51	51	51	51	51
Rated displacement (p-p) mm	100	120	180	250	270	300	450	500	750
Max. Loading (Kg)	3.5	9	6.5	12	14	30	40	50	50
moving coil (Kg)	Φ150	Φ230	Φ230	Φ230	Φ240	Φ320	Φ450	Φ450	Φ450

For Vertical Expander:

VT vertical extended-bench and specified clamps, precision calculated, elaborate design, to ensure the customer acquired the best performance according to perfect structure, high quality material and workmanship.

Model	Weight (kg)	Max. Frequency (Hz)	Bench Size
VT300	10	2000	Φ300
VT400	16	2000	Φ400
VT500	25	1500	Φ500
VT600	35	1000	Φ600
VT0303	15	2000	300×300
VT0404	22	1500	400×400
VT0505	30	500	500×500
VT0606	58	350	600×600
VT0808	140	350	800×800
VT1010	180	350	1000×1000
VT1212	250	350	1200 × 1200
VT1212 (Round bench)	220	350	Φ1200



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For Horizontal Expander

Within small loading bench to realize higher acceleration and working frequency, to improve the loading capacity and performance of whole machine bench.

Horizontal bench and vibration bench are integral type, with perfect structure, convenience to install and adjust.

Static pressure track, V-shape, with capacity of slope-resistant and bias-loading resistant.

Built-in oil pump, good structure and easy operating.

Model	Bench Size (mm)	Frequency Range (Hz)	Weight of Moving Parts (kg)
LT0303	300×300×22	5-1000	6.6
	300×300×26	5-1500	7.8
	300×300×30	5-2000	9.0
LT0404	400×400×22	5-1000	11.2
	400×400×26	5-1400	13.2
	400×400×30	5-2000	16.0
LT0505	500×500×25	5-1000	19.3
	500×500×30	5-1500	23.1
	500×500×35	5-2000	27.0
LT0606	600×600×25	5-1000	27.5
	600×600×30	5-1200	33.0
	600×600×40	5-2000	45
LT0707	700×700×25	5-800	36.8
	700×700×30	5-1000	44.2
	700×700×35	5-1500	52



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Picture:



Packing Detail:



Perfect export Standard wooden packing



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