IMV VIBRATION TEST SYSTEMS series

Air cooled Vibration Test Systems

i250 / SA5AM EM2502A



[Expanded maximum test range]

Max. velocity of Sine force: 2.4 m/s • Max. velocity of Shock force 4.6 m/s • Max. displacement: 100mmp-p [Patented upper (armature) support system PS Guide] Parallel Slope Guide is standard. [Low noise] Optimised design of the air intake based on fluid dynamics has reduced the air-intake noise. [All models can be directly coupled to a climatic chamber.]



1 High durability with PS guide

PS guide (parallel slope guide) is an upper support system conforming to continued vibration testing at high velocity.



PS guide system

2 Improvement of Testing Environment

With the operation of Intelligence Shaker Management (ISM), EM range can reduce power consumption and CO2 emissions automatically.



3 User first principle

Compatible with K2 vibration controller. Intuitive interface leads The operator with user-friendly guidance.



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System Specifications					
System Model		i250/SA5AM	 € € € € € € € € € 		
Frequency Range (Hz)		0-2500			
Rated Force	Sine (kN) *1	40			
	Random (kN rms)	40			
	Shock (kN)	80			
Maximum Acc.	Sine (m/s ²)	1142			
	Random (m/s² rms)	800			
	Shock (m/s ²)	2284			
Maximum Vel.	Sine (m/s)	2.2			
	Shock (m/s peak)	2.2	2.2(3.5)* ³		
Maximum Disp.	Sine (mmp-p)	51			
	Maximum Travel (mmp-p)	68			

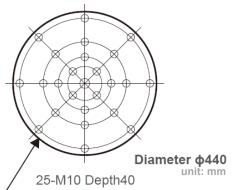
Vibration Generator (i250)			
Armature Mass (kg)	35		
Armature Diameter (ϕ mm)	440		
Armature Resonance (Hz)	1900		
Allowance Eccentric Moment (N·m)	1550		
Maximum Payload (kg)	600		
Mass (kg)	3000		

- *1) Random force ratings are specified in accordance with ISO5344 conditions.
- *2) Power supply: 3-phase 380/400/415/440 V, 50/60 Hz. A transformer is required for other supply voltages.
- *3) Maximum velocity 4.6 m/s. High velocity restricts maximum Shock force. Please contact IMV or your local distributor with specific test requirements.
- * The specification shows the maximum system performance
- For long-duration tests, de-rating by up to 70 % must be applied.
- Continuous use at maximum levels may cause failure. * In the case of Random vibration test, please set the test definition of the peak value of acceleration
- waveform to be operated less than the maximum acceleration of Shock.
- * Frequency range values vary according to sensor and vibration controller.

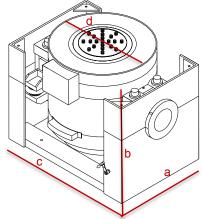
Cooling Blower				
Model		VAPE 710/P2R		
Mass (kg)		250		
Environmental Data				
Power Requirement (kVA) *2		57		
Input Voltage Supply (3 ϕ , V)		380/400/415/440		
Compressed Air Supply (Mpa)		0.6		
Working Ambient	Temperature (°C)	0 - 40		
	Humidity (%RH)	0 - 85		
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Mass (kg)	200				
Environmental Data					
Power Requirement (kVA) *2		57			
Input Voltage Supply (3 ϕ , V)		380/400/415/440			
Compressed Air Supply (Mpa)		0.6			
Working Ambient	Temperature (°C)	0 - 40			
	Humidity (%RH)	0 - 85			

Power Amplifier				
System Model	SA5AM-i50			
Maximum Output [kVA]	50	50		
Mass [kg]	880	930		



(P.C.D.100,160,250,400)



Shaker

Model: i250

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a: W 1463 mm b: H 1187 mm

c: D 1100 mm d: 860 mmm

Amplifier Blower Model: VAPE 710/P2R Model: SA5AM-i50 a: W 580 mm a: W 1160 mm b: H 1950 mm b: H 2405 mm c: D 850 mm c: D 787 mm Model: SA5AM-i50EM a: W 1160 mm b: H 1950 mm c: D 850 mm

i250