IMV VIBRATION TEST SYSTEMS series

Air cooled Vibration Test Systems

i240 / SA3AM EM2401A



[Expanded maximum test range]

Max. velocity of Sine force: 2.4 m/s • Max. velocity of Shock force 4.6 m/s • Max. displacement: 100 mmp-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		i240/SA3AM	 € € € € € € € 1 1 1 1 1 1 1 1 1 1		
Frequency Range (Hz)		0-2600			
Force	Sine (kN)	24			
	Random (kN rms) *1	24			
	Shock (kN)	48			
Maximum Acc.	Sine (m/s ²)	1200			
	Random (m/s ² rms)	840			
	Shock (m/s ²)	2400			
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			

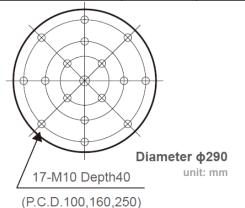
Vibration Generator (i240)			
Armature Mass (kg)	20		
Armature Diameter (ϕ mm)	290		
Armature Resonance (Hz)	2300		
Allowance Eccentric Moment (N·m)	850		
Maximum Payload (kg)	400		
Mass (kg)	2000		

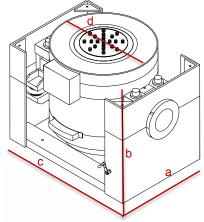
- *1) Random force ratings are specified in accordance with ISO5344 conditions.
- *2) Power supply: 3-phase 380/400/415/440 V, 50/60 Hz. A transformer is required for other supply voltages.
- *3) Maximum velocity 4.6 m/s. High velocity restricts maximum Shock force. Please contact IMV or your local distributor 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/N 560/2R			
Mass (kg)	150			
Environmental Data				
Power Requirement (kVA) *2		36		
Input Voltage Supply (3	380/400/415/440			
Compressed Air Supply (Mpa)		0.6		
Working Ambient	Temperature (°C)	0 - 40		
	Humidity (%RH)	0 - 85		

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		VAPE/N 560/2R
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	Humidity (%RH)	0 - 85

Power Amplifier				
System Model	SA3AM-i40			
Maximum Output [kVA]	30	29		
Mass [kg]	410	460		





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Shaker

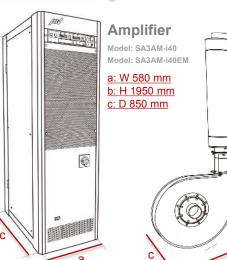
Model: i240

a: W 1234 mm

b: H 997 mm

c: D 890 mm

d: 720 mmm



Blower Model: VAPE/N 560/2R

a: W 931 mm b: H 2175 mm c: D 538 mm

IMV CORPORATION

i240