IMV VIBRATION TEST SYSTEMS **J series**

Air-cooled Vibration Test Systems J240/SA4HAG J240/EM4HAG

Long duration shock tests require high velocity and large displacement. J-series is a high-frequency system that offers usability and durability furnished with functions that accommodates high velocity and displacement testing.

[Expanded maximum test range]

- -Maximum velocity of Sine force: 2.4 m/s
- Maximum velocity of Shock force: 4.6 m/s
- •Maximum displacement: 100 mmp-p

[Patented upper (armature) support system PS Guide] Parallel Slope Guide is standard. [All models can be directly coupled to a climatic chamber.]

① High Velocity and Large Displacement

High velocity of 2.4 m/s and Large displacement of 100 mmp-p (4 inch).



PSG 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.

ecs-shaker

② User first principle

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



IMV CORPORATION



IMV VIBRATION TEST SYSTEMS series

Air-cooled Vibration Test Systems	IS
J240/SA4HAG	
J240/EM4HAG	

26

290

2,000

850

2,400

EM4HAG-

490

150

0.6

0-40

0-85

ation Generator (J240)

SA4HAG-

J40

440

oling (VAPE/N 560/2R)

nvironmental Data

34



System Specification				Vibration Generat	tor	
System Model		J240/ SA4HAG	J240/ EM4HAG	Armature Mass (kg)		
Frequency	Frequency Range (Hz)		0-2,400	Armature Diameter (ϕ mm)		
	Sine (kN)	24	24	Armature Resonance (Hz)		
Rated Force	Random (kN rms) *1	24	24	Allowance Eccentric Moment (N·in)		
	Shock (kN)	55	55	Mass (kg)		
	High Velocity Shock (kN) *4	-	48			
	Sine (m/s ²)	923	923	Power Amplifier S	A4	
Maximum	Random (m/s ² rms)	646	646		J	
Acc.	Shock (m/s ²)	2,000	2,000	Maximum Output (kVA)		
	High Velocity Shock (m/s ² peak)*4	-	1,846	Mass (kg)	4	
Maximum Vel.	Sine (m/s)	2.4	2.4			
	Shock (m/s peak)	2.4	2.4	Cooling (VAPE/N 56		
1011	High Velocity Shock (m/s peak) *4	-	3.5	Mass (kg)		
Maximum Disp.	Sine (mmp-p)	100	100	Environmental	D	
	High Velocity Shock (mmp-p)	-	100	Input Voltage Supply (3 ϕ , V)		
Maximum	Maximum Travel (mmp-p)		120	Compressed Air Supply (Mpa)		
Maximum Load (kg) Power Requirements (kVA) ^{*2}		400	400	Working Ambient Shaker (°C)		
		38	38	Temperature Amplifier (°	C)	
Breaker C	Breaker Capacity (A) *3		75			

*1 Random force ratings are specified in accordance with ISO5344 conditions. Please contact IMV or your local distributor with specific test requirements. *2 Power supply: 3-phase 380/400/415/440 V, 50/60 Hz. A transformer is required for other supply voltages.

*3 Breaker capacity for 480 V.

*4 For high velocity option

*The specification shows the maximum system performance. For long-duration tests, system must be de-rated up to 70%.

Continuous use at maximum levels may cause failure. Please contact IMV if your system operates at more than 70%.

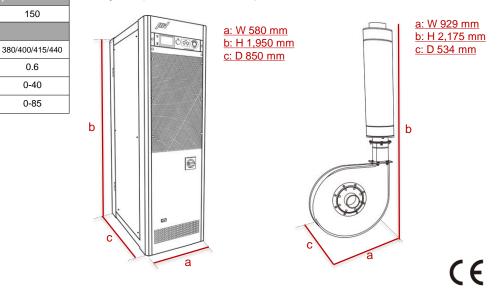
*For random vibration tests, please set the test definition of the peak value of acceleration waveform to operate at less than the maximum acceleration of shock. *Frequency range values vary according to the sensor and vibration controller.

*Armature mass and acceleration may change when a chamber is added.

Vibration Generator (J230)	<u>a: W 1,234 mm</u> <u>b: H 1,145 mm</u> <u>c: D 890 mm</u> <u>d: 720 φmm</u>	Table Insert Pattern (Table Insert Pattern (Table Insert Pattern (Table Insert Pattern (Table Insert Pattern (Diameter φ290
		J240	
\checkmark		Diaman	

Amplifier (SA4HAG-J40/EM4HAG-J40)

Blower



IMV CORPORATION