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.

eco-shaker

② User first principle

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

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System Specification			
System Model		J240/SA4HAG	J240/EM4HAG
Frequency Range (Hz)		0-2,400	0-2,400
Rated Force	Sine (kN)	24	24
	Random (kN rms) *1	24	24
	Shock (kN)	55	55
	High Velocity Shock (kN) *4	-	48
Maximum Acc.	Sine (m/s^2)	923	923
	Random (m/s^2 rms)	646	646
	Shock (m/s^2)	2,000	2,000
	High Velocity Shock (m/s^2 peak) *4	-	1,846
Maximum Vel.	Sine (m/s)	2.4	2.4
	Shock (m/s peak)	2.4	2.4
	High Velocity Shock (m/s peak) *4	-	3.5
Maximum Disp.	Sine (mmp-p)	100	100
	High Velocity Shock (mmp-p)	-	100
Maximum Travel (mmp-p)		120	120
Maximum Load (kg)		400	400
Power Requirements (kVA) *2		38	38
Breaker Capacity (A) *3		75	75

Vibration Generator (J240)	
Armature Mass (kg)	26
Armature Diameter (ϕmm)	290
Armature Resonance (Hz)	2,000
Allowance Eccentric Moment (Nm)	850
Mass (kg)	2,400

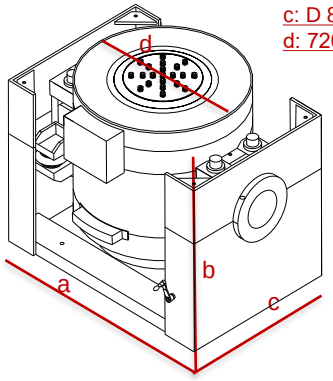
Power Amplifier	SA4HAG-J40	EM4HAG-J40
Maximum Output (kVA)	34	
Mass (kg)	440	490

Cooling (VAPE/N 560/2R)		
Mass (kg)		150
Environmental Data		
Input Voltage Supply (3ϕ, V)		380/400/415/440
Compressed Air Supply (Mpa)		0.6
Working Ambient Temperature	Shaker (℃)	0-40
	Amplifier (℃)	0-85

*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)

a: W 1,234 mm
b: H 1,145 mm
c: D 890 mm
d: 720 φmm



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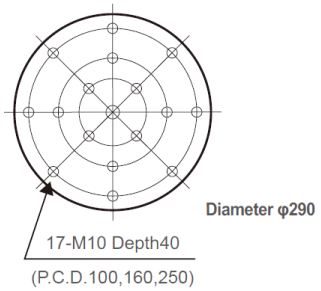
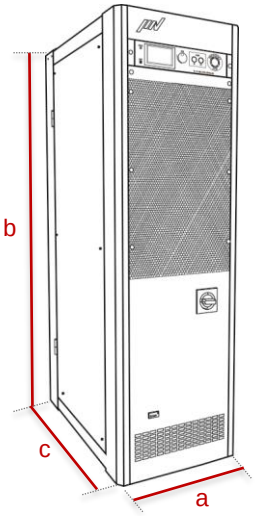


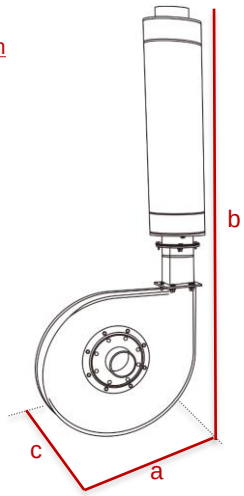
Amplifier (SA4HAG-J40/EM4HAG-J40)

a: W 580 mm
b: H 1,950 mm
c: D 850 mm



Blower

a: W 929 mm
b: H 2,175 mm
c: D 534 mm



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