

IMV VIBRATION TEST SYSTEMS

J series

Air cooled Vibration Test Systems

J240 / SA4AM J240 / EM4AM



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]

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 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.





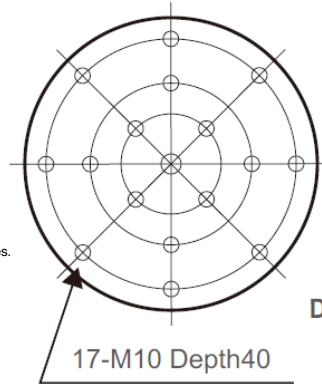
System Specifications			
System Model		J240/SA4AM	J240/EM4AM
Frequency Range (Hz)		0-2400	
Rated Force	Sine (kN)	24	
	Random (kN rms) *1	24	
	Shock (kN)	55	
Maximum Acc.	Sine (m/s ²)	923	
	Random (m/s ² rms)	646	
	Shock (m/s ²)	2000	
Maximum Vel.	Sine (m/s)	2.4	
	Shock (m/s peak)	2.4	2.4(3.5)*3
Maximum Disp.	Sine (mmp-p)	100	
	Maximum Travel (mmp-p)	120	

Vibration Generator (J240)	
Armature Mass (kg)	26
Armature Diameter (φ mm)	290
Armature Resonance (Hz)	2000
Allowance Eccentric moment (N.m)	850
Maximum Payload (kg)	400
Mass (kg)	2400

*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.

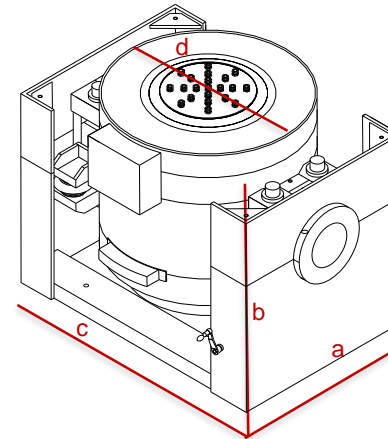
Cooling Blower		
Model	VAPE/N 560/2R	
Mass (kg)	150	
Environmental Data		
Power Requirement (kVA) *2	38	
Input Voltage Supply (3φ, V)	380/400/415/440	
Compressed Air Supply (Mpa)	0.6	
Working Ambient	Temperature (°C)	0 - 40
	Humidity (%RH)	0 - 85

Power Amplifier		
System Model	SA4AM-J40	EM4AM-J40
Maximum Output [kVA]	34	34
Mass [kg]	440	490



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

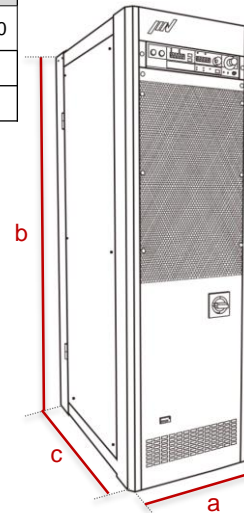
Diameter φ290
unit: mm



Shaker

Model: J240

- a: W 1234 mm
- b: H 1145 mm
- c: D 890 mm
- d: 720 φmm



Amplifier

Model: SA4AM-J40
Model: EM4AM-J40

- a: W 580 mm
- b: H 1950 mm
- c: D 850 mm



Blower

Model:VAPE/N 560/2R

- a: W 929 mm
- b: H 2175 mm
- c: D 534 mm