

IMV VIBRATION TEST SYSTEMS

J series

Air cooled Vibration Test Systems

J240S / SA9AM

J

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		J240S/SA9AM
Frequency Range (Hz)		0-2400
Rated Force	Sine (kN)	24
	Random (kN rms)	24
	Shock (kN)	70
Maximum Acc.	Sine (m/s ²)	857
	Random (m/s ² rms)	600
	Shock (m/s ²)	2500
Maximum Vel.	Sine (m/s)	2.4
	Shock (m/s peak)	3.6
Maximum Disp.	Sine (mmp-p)	100
	Maximum Travel (mmp-p)	120

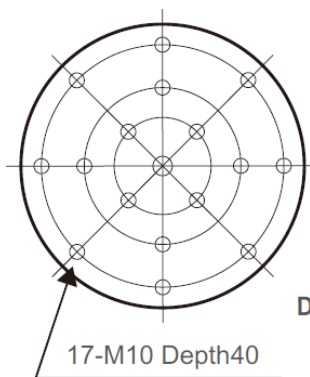
Vibration Generator (J240S)

Armature Mass (kg)	28
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.
 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.

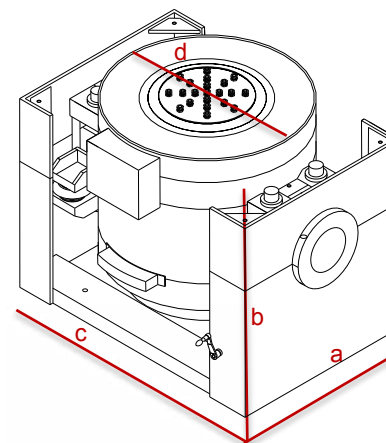
Cooling Blower		
Model		VAPE/N 560/2R
Mass (kg)		150
Environmental Data		
Power Requirement (kVA)		52
Input Voltage Supply (3 φ, V)		380/400/415/440
Compressed Air Supply (Mpa)		0.6
Working Ambient	Temperature (°C)	0 - 40
	Humidity (%RH)	0 - 85

Power Amplifier	
System Model	SA9AM-J40S
Maximum Output [kVA]	40
Mass [kg]	1200



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

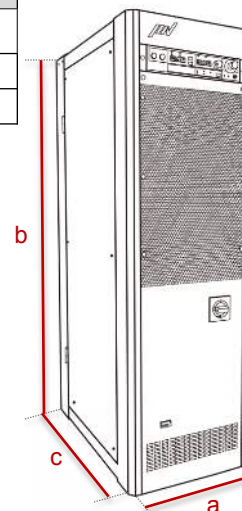
Diameter φ290
unit: mm



Shaker

Model: J240S

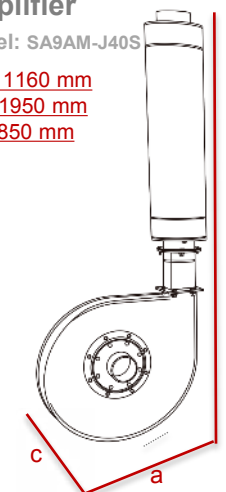
a: W 1234 mm
 b: H 1145 mm
 c: D 890 mm
 d: 720 φmm



Amplifier

Model: SA9AM-J40S

a: W 1160 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