IMV VIBRATION TEST SYSTEMS

J series

Air cooled Vibration Test Systems

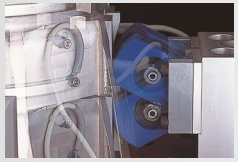
J240S / SA9AM

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.

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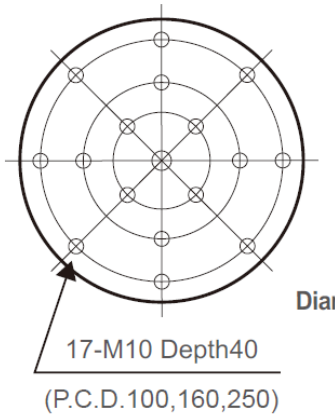
System Specifications		
System Model		J240S/SA9AM
Frequency Range (Hz)		0-2400
Rated Force	Sine (kN)	24
	Random (kN rms)	24
	Shock (kN)	70
Maximum Acc.	Sine (m/s^2)	857
	Random (m/s^2 rms)	600
	Shock (m/s^2)	2500
Maximum Vel.	Sine (m/s)	2.4
	Shock (m/s peak)	3.6
Maximum Disp.	Sine (mmp-p)	100
	Maximum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

Vibration Generator (J240S)	
Armature Mass (kg)	28
Armature Diameter (ϕmm)	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.

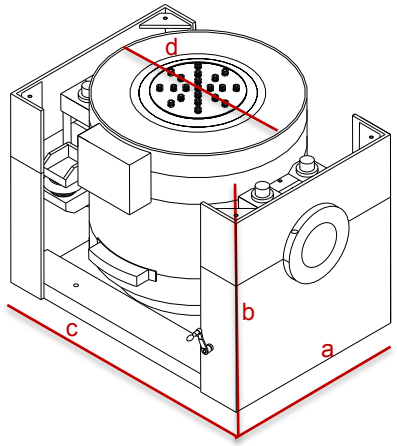
Cooling Blower		
Model		VAPE/N 560/2R
Mass (kg)		150
Environmental Data		
Power Requirement (kVA)		52
Input Voltage Supply (3ϕ, V)		380/400/415/440
Compressed Air Supply (Mpa)		0.6
Working Ambient	Temperature (℃)	0 - 40
	Humidity (%RH)	0 - 85

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



Diameter φ290
unit: mm

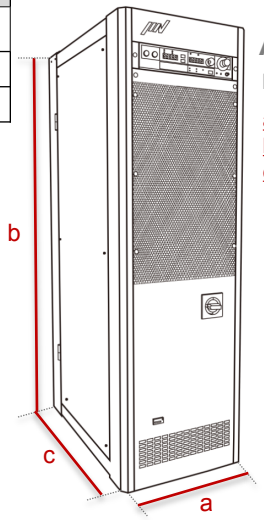
J240



Shaker

Model: J240S

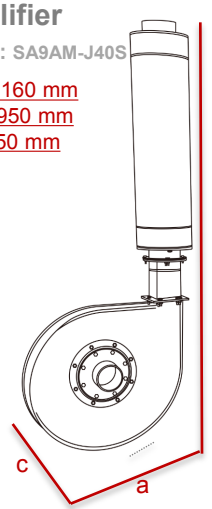
a: W 1234 mm
b: H 1145 mm
c: D 890 mm
d: 720 φmm



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

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