

IMV VIBRATION TEST SYSTEMS

J series

Air cooled Vibration Test Systems

J230 / SA3AM EM2305A

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.



IMV CORPORATION

J230 / SA3AM EM2305A



System Specifications

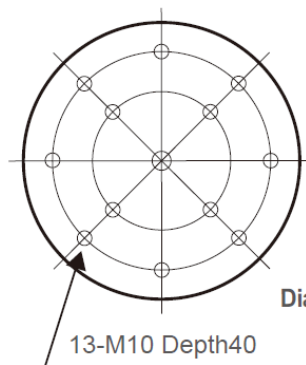
System Model	J230/SA3AM	EM2305A
Frequency Range (Hz)	0-3000	
Rated Force	Sine (kN)	16
	Random (kN rms) *1	16
	Shock (kN)	40
Maximum Acc.	Sine (m/s ²)	941
	Random (m/s ² rms)	658
	Shock (m/s ²)	2352
Maximum Vel.	Sine (m/s)	2.4
	Shock (m/s peak)	2.4 (3.5)*3
Maximum Disp.	Sine (mmp-p)	100
	Maximum Travel (mmp-p)	120

Vibration Generator (J230)

Armature Mass (kg)	17
Armature Diameter (φ mm)	200
Armature Resonance (Hz)	2200
Allowance Eccentric Moment (N·m)	700
Maximum Payload (kg)	300
Mass (kg)	1800

Cooling Blower		
Model		VAPC 630/P2R1
Mass (kg)		150
Environmental Data		
Power Requirement (kVA) *2		28
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

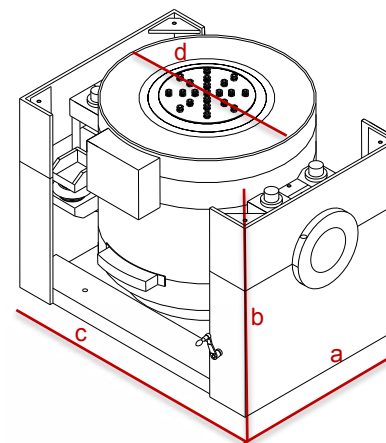
Power Amplifier		
System Model	SA3AM-J30	SA3AM-J30EM
Maximum Output [kVA]	20	20
Mass [kg]	330	380



13-M10 Depth40
(P.C.D.100,160)

Diameter φ200
unit: mm

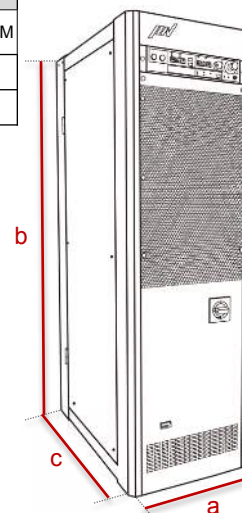
J230



Shaker

Model: J230

a: W 1124 mm
b: H 1079 mm
c: D 850 mm
d: 630 φmm



Amplifier

Model: SA3AM-J30
Model: SA3AM-J30EM

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



Blower

Model: VAPC 630/P2R1

a: W 1044 mm
b: H 2285 mm
c: D 711 mm

*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.