

# IMV VIBRATION TEST SYSTEMS

## J series

## Air cooled Vibration Test Systems J230S / SA7AM



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.

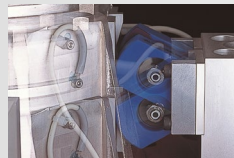
[Low noise] Optimised design of the air intake based on fluid dynamics has reduced the air-intake noise.

[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.





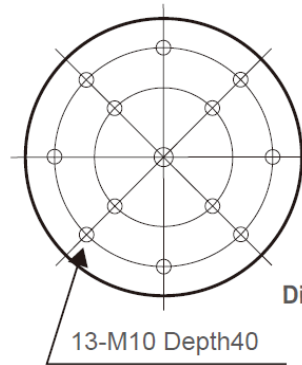
System Specifications		
System Model	J230S/SA7AM	
Frequency Range (Hz)	0-3000	
Rated Force	Sine (kN)	16
	Random (kN rms) *1	16
	Shock (kN)	40
Maximum Acc.	Sine (m/s <sup>2</sup> )	888
	Random (m/s <sup>2</sup> rms)	622
	SHOCK (m/s <sup>2</sup> )	2222
Maximum Vel.	Sine (m/s)	2.4
	Shock (m/s peak)	3.5
Maximum Disp.	Sine (mmp-p)	100
	Maximum Travel (mmp-p)	120

Vibration Generator (J230S)	
Armature Mass (kg)	18
Armature Diameter (φ mm)	200
Armature Resonance (Hz)	2200
Allowance Eccentric Moment (N·m)	700
Maximum Payload (kg)	300
Mass (kg)	1800

\*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.

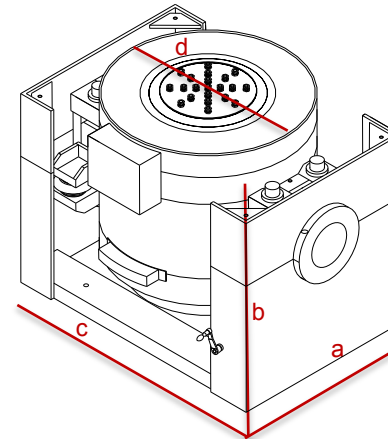
Cooling Blower		
Model	VAPC 630/P2R1	
Mass (kg)	150	
Environmental Data		
Power Requirement (kVA) *2	38	
Input Voltage Supply (3 φ, V)	380/400/415/440	
Compressed Air Supply (Mpa)	0.6	
Working Ambient	Temperature (°C)	0 - 40
	Humidity (%RH)	0 - 85

Power Amplifier	
System Model	SA7AM-J30S
Maximum Output [kVA]	30
Mass [kg]	500



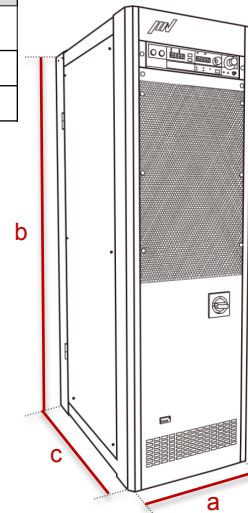
13-M10 Depth40  
(P.C.D.100,160)

J230



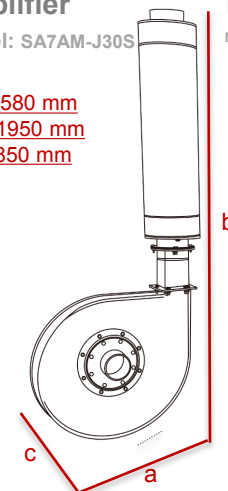
**Shaker**  
Model: J230S

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



**Amplifier**  
Model: SA7AM-J30S

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 704 mm