

# IMV VIBRATION TEST SYSTEMS

## J series

### IMV-Smart™ ECO-Shaker

## Air-cooled Vibration Test Systems J230/EM3AM



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]

Maximum velocity of Sine force: 94 in/s, Maximum velocity of Shock force 137 in/s, Maximum displacement: 4.0 in-p

[Patented upper (armature) support system PS Guide] Parallel Slope Guide is standard.

[All models can be directly coupled to a climatic chamber.]



#### 1. High velocity and large displacement

High velocity of 94 in/s and Large displacement of 4.0 in-p.



PS 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.

#### 3. User first principle

Compatible with K2 vibration controller. Intuitive interface leads The operator with user-friendly guidance.



eco-shaker

## Air-Cooled Vibration Test Systems J230/EM3AM



System Specification		
Frequency Range (Hz)	0-3,000	
Rated Force	Sine (lbf)	3,600
	Random (lbf rms) *1	3,600
	Shock (lbf)	9,000
	High Velocity Shock (lbf) *4	6,750
Maximum Acc.	Sine (g)	96
	Random (g rms)	67
	Shock (g peak)	204
	High Velocity Shock (g peak) *4	180
Maximum Vel.	Sine (in/s)	94
	Shock (in/s peak)	94
	High Velocity Shock (in/s peak) *4	137
Maximum Disp.	Sine (inp-p)	4.0
	High Velocity Shock (inp-p) *4	4.0
Maximum Travel (inp-p)	4.7	
Maximum Load (lbs)	660	
Power Requirements (kVA) *2	28	
Breaker Capacity (A) *3	50	

Vibration Generator (J230)	
Armature Mass (lbs)	37.5
Armature Diameter (φ in)	7.9
Armature Resonance (Hz)	2,200
Allowance Eccentric Moment (lbf·in)	6,200
Mass (lbs)	3,970

Power Amplifier (EM3AM-J30)	
Maximum Output (kVA)	23
Amplifier Bay	1
Mass (lbs)	840

Cooling Blower (VAPC 630/P2R1)	
Mass (lbs)	309

Environmental Data		
Input Voltage Supply (3 φ, V)	220/480	
Compressed Air Supply (psi)	102	
Working Ambient Temperature	Shaker (°F)	32-104
	Amplifier (°F)	32-104

\*1 Random force ratings are specified in accordance with ISO5344 conditions. Please contact IMV or your local distributor with specific test requirements.

\*2 Power supply: 3-phase 220/480 V, 60 Hz. A transformer is required for other supply voltages.

\*3 Breaker capacity for 480 V.

\*4 For high-velocity option

\*For random vibration tests, please set the test definition of the peak value of acceleration waveform to operate at less than the maximum acceleration of shock.

\*Frequency range values vary according to the sensor and vibration controller.

\*Armature mass and acceleration may change when a chamber is added.

Vibration Generator (J230) **a: W 45 in**  
**b: H 43 in**  
**c: D 34 in**  
**d: 25 φ in**

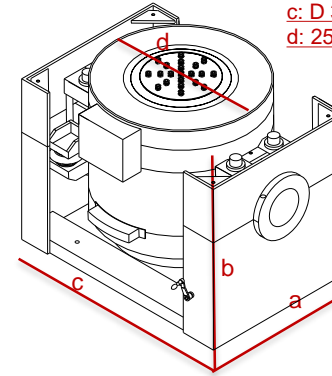
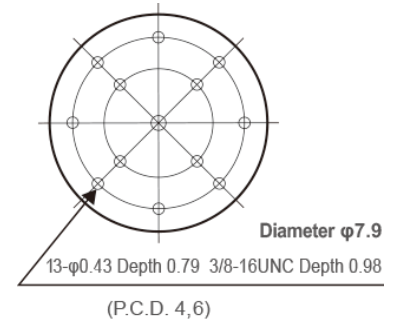
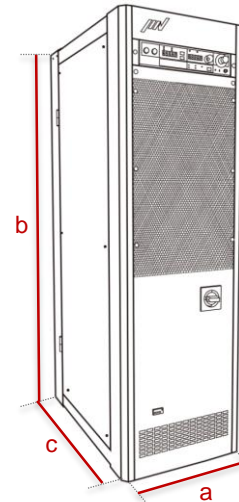


Table Insert Pattern (unit: inch)



Amplifier (EM3AM-J30) **a: W 23 in**  
**b: H 69 in**  
**c: D 34 in**



Blower (VAPC 630/P2R1) **a: W 28 in**  
**b: H 56 in**  
**c: D 31 in**

