

# IMV VIBRATION TEST SYSTEMS

## J series

# IMV-Smart™

## ECO-Shaker

### Air-cooled Vibration Test Systems

# J250/EM6HAG



Long-duration shock tests require high velocity and large displacement. J-series is a high-frequency system that offers usability and durability while accommodating 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-p

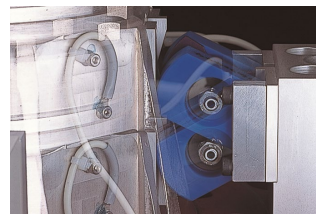
[Patented upper (armature) support system PS Guide] Parallel Slope Guide is standard.

[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-p.



PS guide system

#### 2. Improvement of testing environment

With the use 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

# IMV CORPORATION

## Air-Cooled Vibration Test Systems J250/EM6HAG



System Specification		
Frequency Range (Hz)		0-2,200
Rated Force	Sine (lbf)	9,000
	Random (lbf rms) <sup>1</sup>	9,000
	Shock (lbf)	18,000
	High Velocity Shock (lbf) <sup>4</sup>	17,520
Maximum Acc.	Sine (g)	90
	Random (g rms)	63
	Shock (g peak)	181
	High Velocity Shock (g peak) <sup>4</sup>	176
Maximum Vel.	Sine (in/s)	94
	Shock (in/s peak)	94
	High Velocity Shock (in/s peak) <sup>4</sup>	137
Maximum Disp.	Sine (in-p)	4.0
	High Velocity Shock (in-p) <sup>4</sup>	4.0
Maximum Travel (in-p)		4.7
Maximum Load (lbs)		1,320
Power Requirements (kVA) <sup>2</sup>		57
Breaker Capacity (A) <sup>3</sup>		100

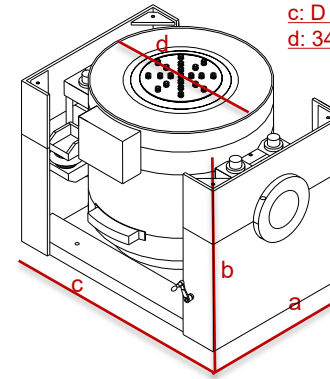
Vibration Generator (J250)	
Armature Mass (lbs)	99.2
Armature Diameter (φ in)	17.3
Armature Resonance (Hz)	1,700
Allowance Eccentric Moment (lbf·in)	13,730
Mass (lbs)	7,720

Power Amplifier (2□AGH6-J250)	
Maximum Output (kVA)	57
Amplifier Bay	2
Mass (lbs)	2,120

Cooling Blower (VAPE 710/P2R)	
Mass (lbs)	617

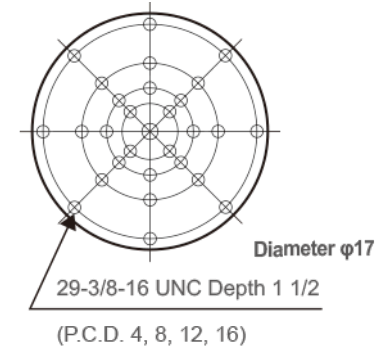
Environmental Data		
Input Voltage Supply (3 φ, V)		220/480
Compressed Air Supply (psi)		102
Working Ambient Temperature	Shaker (°F)	32-104
	Amplifier (°F)	32-104

Vibration Generator (J250)

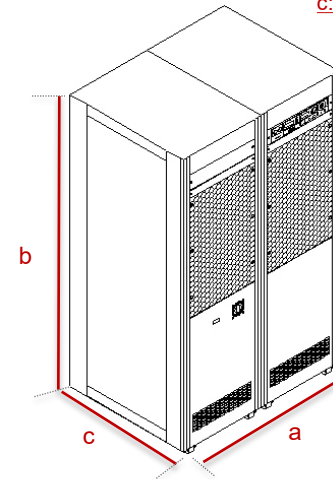


a: W 58 in  
b: H 51 in  
c: D 44 in  
d: 34 φ in

Table Insert Pattern (unit: inch)

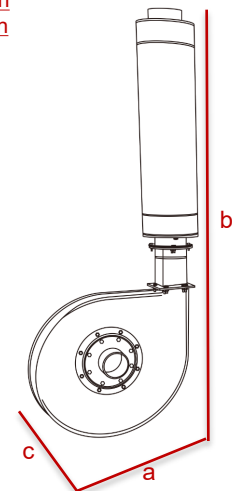


Amplifier (2□AGH6-J250)



a: W 23 in  
b: H 77 in  
c: D 34 in

Blower (VAPE 710/P2R)



a: W 46 in  
b: H 84 in  
c: D 32 in

\*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

\*The alphabet of A, B, or C can be entered in □. A: Voltage AC200V system (200 to 230), B: Voltage AC400V system (380A to 440V), C: 480V system (480V to 520V)

\*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.