

# IMV VIBRATION TEST SYSTEMS

## J series

### IMV-Smart™ ECO-Shaker

## Air-cooled Vibration Test Systems J260/EM7AM



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

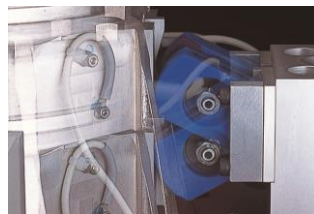
[Patented upper (armature) support system PS Guide] Parallel Slope Guide is standard.

[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 J260/EM7AM



System Specification		
Frequency Range (Hz)	0-2,600 <sup>*4</sup>	
Rated Force	Sine (lbf)	12,150
	Random (lbf rms) <sup>*1</sup>	12,150
	Shock (lbf)	24,200
	High Velocity Shock (lbf) <sup>*5</sup>	21,595
Maximum Acc.	Sine (g)	87
	Random (g rms)	61
	Shock (g peak)	174
	High Velocity Shock (g peak) <sup>*5</sup>	155
Maximum Vel.	Sine (in/s)	94
	Shock (in/s peak)	94
	High Velocity Shock (in/s peak) <sup>*5</sup>	137
Maximum Disp.	Sine (in-p-p)	4.0
	High Velocity Shock (in-p-p) <sup>*5</sup>	4.0
Maximum Travel (in-p-p)	4.6	
Maximum Load (lbs)	2,200	
Power Requirements (kVA) <sup>*2</sup>	86	
Breaker Capacity (A) <sup>*3</sup>	125	

Vibration Generator (J260)	
Armature Mass (lbs)	139
Armature Diameter (φ in)	17.6
Armature Resonance (Hz)	1,800
Allowance Eccentric Moment (lbf·in)	13,730
Mass (lbs)	9,040

Power Amplifier (EM7AM-J60)	
Maximum Output (kVA)	70
Amplifier Bay	2
Mass (lbs)	3,090

Cooling Blower (VAPE 710/N2)	
Mass (lbs)	816

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 Above 2,000Hz, the force rolls-off at a rate of -12 dB/oct.

\*5 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 (J260)

a: W 60 in  
b: H 52 in  
c: D 44 in  
d: 36 φin

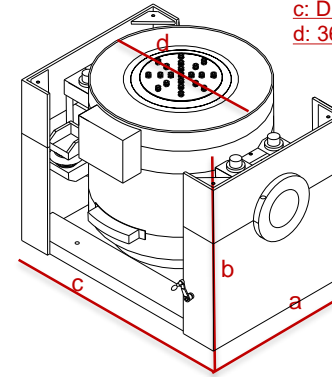
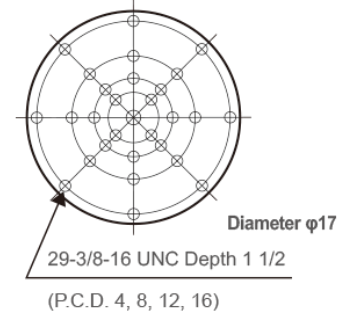
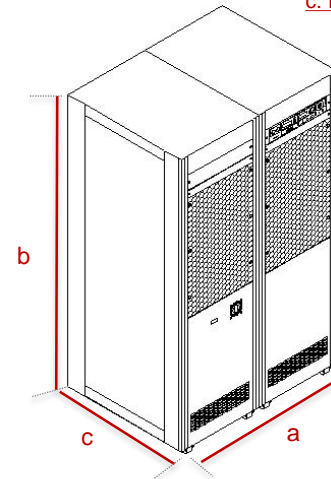


Table Insert Pattern (unit: inch)



Amplifier (EM7AM-J60)

a: W 46 in  
b: H 77 in  
c: D 34 in



Blower (VAPE 710/N2)

a: W 53 in  
b: H 95 in  
c: D 44 in

