IMV VIBRATION TEST SYSTEMS

J series

IMV-Smart™ ECO-Shaker

Air-cooled Vibration Test Systems

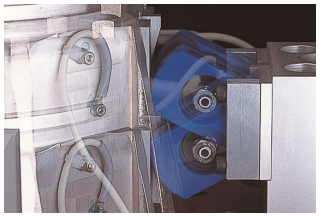
J240/EM4HAG

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 inp-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 inp-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.

eco-shaker

3. User first principle

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

IMV CORPORATION

 Revision Jan.2025

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System Specification		
Frequency Range (Hz)		0-3,000
Rated Force	Sine (lbf)	5,400
	Random (lbf rms) *1	5,400
	Shock (lbf)	12,400
	High Velocity Shock (lbf) *4	10,800
Maximum Acc.	Sine (g)	94
	Random (g rms)	65
	Shock (g peak)	204
	High Velocity Shock (g peak) *4	188
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)		880
Power Requirements (kVA) *2		38
Breaker Capacity (A) *3		75

Vibration Generator (J240)	
Armature Mass (lbs)	57.3
Armature Diameter (ϕin)	11.4
Armature Resonance (Hz)	2,000
Allowance Eccentric Moment (lbf･in)	7,530
Mass (lbs)	5,295

Power Amplifier (2☐GH4-J240)	
Maximum Output (kVA)	34
Amplifier Bay	1
Mass (lbs)	1,080

Cooling Blower (VAPE/N 560/2R)		
Mass (lbs)		463
Environmental Data		
Input Voltage Supply (3ϕ, V)		220/480
Compressed Air Supply (psi)		102
Working Ambient Temperature	Shaker (℉)	32-104
	Amplifier (℉)	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
*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.

Vibration Generator (J240)

a: W 49 in
b: H 45 in
c: D 35 in
d: 29 φin

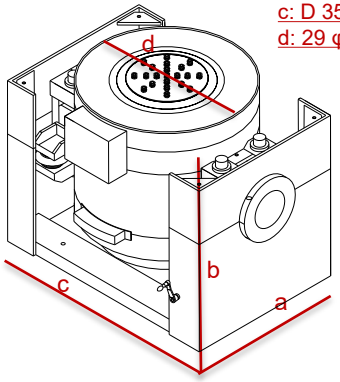
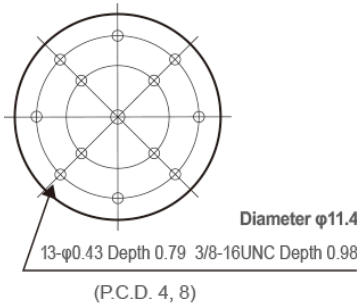
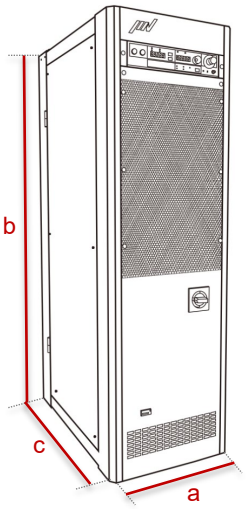


Table Insert Pattern (unit: inch)



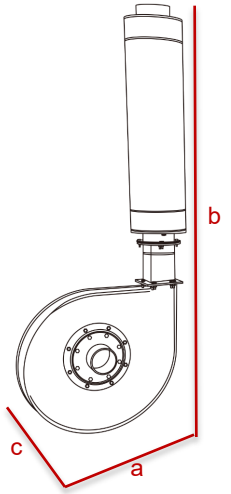
Amplifier (2☐GH4-J240)

a: W 23 in
b: H 69 in
c: D 34 in



Blower (VAPE/N 560/2R)

a: W 28 in
b: H 61 in
c: D 37 in



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 Revision Jan.2025