

IMV-Smart[™] ECO-Shaker

Air-cooled Vibration Test Systems A45/EM4HAM



A series is the "new standard" in vibration testing, with a solid test performance. A series increases the relative excitation force and has a displacement of 3.0 inp-p*1, which provides a good balance within the specifications for velocity, acceleration and displacement. It also provides a maximum of 138 in/s shock velocity testing, which responds to the demand in lithium battery testing. A series supports rapid creation of tests from a set of pre-defined templates conforming to most international test standards. Simply select the standard required to generate the main test settings. *1) Only for A30, A45, A65, A74

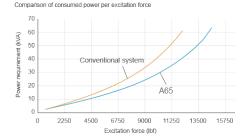
1. Improvement of performance

Expansion of test cases and responses to high spec. tests allow the A series to meet a wide range of testing needs.

- Improvement in excitation force
- Standard 3.0 inp-p displacement
- · Expansion in frequency range
- High velocity shock test

2. User friendly and security

Greater security and functionality with improved energy savings.



3. User first principle

Intuitive interface guides the operator for easy use.



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System Specification			Vibration Genera	
Frequency Range (Hz)		0-2,600	Armature Mass (Ibs)	
Rated Force	Sine (lbf)	10,120	Armature Diameter (ϕ in)	
	Random (lbf rms) *1	10,120	Armature Resonance (Hz)	
	Shock (lbf)	20,240	Allowance Eccentric Moment (Ibf	
	High Velocity Shock (lbf)	18,000	Mass (lbs)	
Maximum Acc.	Sine (g)	92	Power Amplifier (EN	
	Random (g rms)	65		
	Shock (g peak)	183	Maximum Output (kVA)	
	High Velocity Shock (g peak)	163	Amplifier Bay	
Maximum Vel.	Sine (in/s)	79	Mass (lbs)	
	Shock (in/s peak)	99	Cooling	
	High Velocity Shock (in/s peak)	138	Mass (lbs)	
Maximum Disp.	Sine (inp-p)	3.0	Cooling Air Flow (cfm)	
	High Velocity Shock (inp-p)	3.0	Environmenta	
Maximum Travel (inp-p)		3.2	Input Voltage Supply $(3\phi, V)$	
Maximum Load (lbs)		1,323	Compressed Air Supply (psi)	
Power Requirements (kVA) *2		57	Working Ambient	Shaker (°F
Breaker Capacity (A) *3		100	Temperature	Amplifier

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Environmental Data

Air-cooled Vibration Test Systems A45/EM4HAM

a: W 49 in b: H 48 in

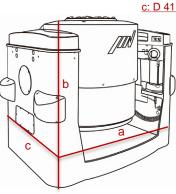
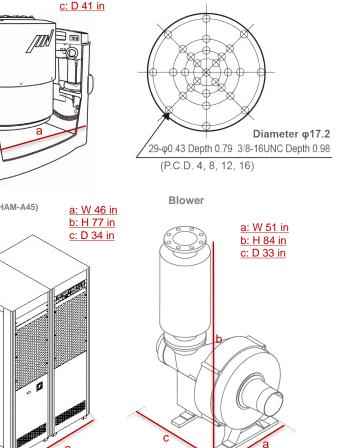


Table Insert Pattern (unit: inch)



*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.

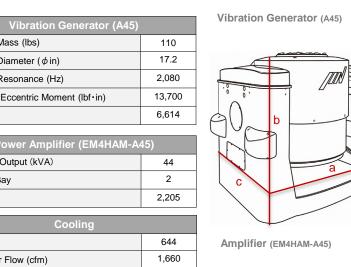
*3) Breaker capacity for 480 V.

*4) Above 4.000 Hz, the force rolls-off at a rate of -6 dB/oct.

* 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 sensor and vibration controller.

* Armature mass and acceleration may change when chamber is combined.



b

220/480

102

32-104

32-104

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