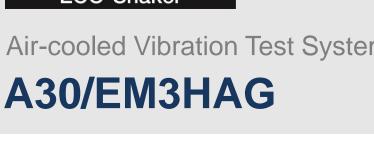


IMV-Smart[™] **ECO-Shaker**

Air-cooled Vibration Test Systems





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 gives good balance between specification of 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. Rapid creation of a test 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

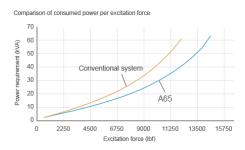
1. Improvement of performance

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 secure

Greater security and functionality with improved energy savings.



3. User first principle

Intuitive interface guides the operator for easy use.





Air-cooled Vibration Test Systems

A30/EM3HAG



Table Insert Pattern (unit: inch)

System Specification				
Frequency I	0-2,600			
Rated Force	Sine (lbf)	6,800		
	Random (lbf rms) *1	6,800		
	Shock (lbf)	13,500		
	High Velocity Shock (lbf)	11,250		
Maximum Acc.	Sine (g)	92		
	Random (g rms)	65		
	Shock (g peak)	185		
	High Velocity Shock (g peak)	154		
Maximum Vel.	Sine (in/s)	79		
	Shock (in/s peak)	99		
	High Velocity Shock (in/s peak)	138		
Maximum Disp.	Sine (inp-p)	3.0		
	High Velocity Shock (inp-p)	3.0		
Maximum Travel (inp-p)		3.2		
Maximum Load (lbs)		882		
Power Requ	36			
Breaker Cap	60			

Vibration Generator (A30)			
Armature Mass (lbs)	73		
Armature Diameter (ϕ in)	11.4		
Armature Resonance (Hz)	1,980		
Allowance Eccentric Moment (lbf·in)	7,500		
Mass (lbs)	4,630		

Power Amplifier (EM3HAG-A30)		
Maximum Output (kVA)	31	
Amplifier Bay	1	
Mass (lbs)	1,300	

	Mass (lbs)	463	
	Cooling Air Flow (cfm)	1,060	
	Envi		
	Input Voltage Supply	220/480	
	Compressed Air Supply (psi)		102
	Working Ambient Temperature	Shaker (°F)	32-104
		Amplifier (°F)	32-104

Vibration Generator (A30)

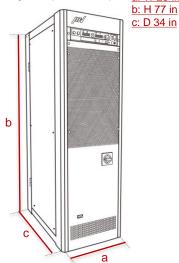
a: W 44 in b: H 42 in c: D 33 in

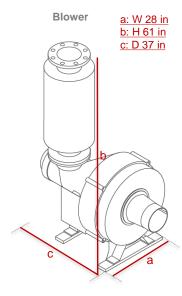
Diameter φ11.4

13-φ0.43 Depth 0.79 3/8-16UNC Depth 0.98

(P.C.D. 4, 8)

Amplifier (EM3HAG-A30) a: W 23 in b: H 77 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) 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
- * Frequency range values vary according to sensor and vibration controller.
- * Armature mass and acceleration may change when chamber is combined.