

Air-cooled Vibration Test Systems A74/EM6HAG A74/EM8HAG



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 76.2 mmp-p (3 inch stroke) *1 which gives good balance between specification of velocity, acceleration and displacement. It also provides a maximum of 3.5 m/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

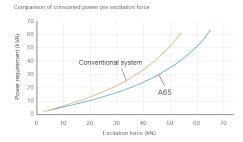
1. Improvement of performance

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 76.2 mmp-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.



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IMV CORPORATION



Air-cooled	Vibration	Test	Systems
A74/EM	6HAG		
A74/EM8	8HAG		

1,770

1,550

4,800

1,850

320

70

380/400/415/440 0.7

0-40

0-40

100

1.340

Vibration Generator (A74)

Cooling (VAPE900/N2R)

Environmental Data



System Specification				Vibration Generator		
System Model		A74/ EM6HAG	A74/ EM8HAG	Armature Mass (kg)		
Frequency Range (Hz)		0- 2.600*4	0-2,600*4	Armature Diameter (ϕ mm)		
Sine (kN)		74	74	Armature Resonance (Hz)		
Rated Force	Random (kN rms) *1	74	74	Allowance Eccentric Moment (N·in)		
	Shock (kN)	148	180	Mass (kg)		
	High Velocity Shock (kN)*5	120	160			
Maximum Acc.	Sine (m/s ²)	1,000	1,000	Power Amplifier		
	Random (m/s² rms)	630	630	Maximum Output (kVA)	γ Α	
	Shock (m/s ²)	2,000	2,000	Mass (kg)	1,	
	High Velocity Shock (m/s ² peak)*5	1,621	2,000			
Maximum Vel.	Sine (m/s)	2.0	2.0			
	Shock (m/s peak)	2.5	2.5	Cooling (VAPE900/I		
	High Velocity Shock (m/s peak)*5	3.5	3.5	Mass (kg)		
Maximum Disp.	Sine (mmp-p)	76.2	76.2	Cooling Air Flow (m ³ /min)		
	High Velocity Shock (mmp-p)	76.2	76.2	Environmental Da		
Maximum Travel (mmp-p)		82	82	Input Voltage Supply $(3\phi, V)$		
Maximum Load (kg)		1,000	1,000	Compressed Air Supply (Mpa)		
Power Requirements (kVA)*2		100	100	Working Ambient Temperature		
Breaker Capacity (A) ^{*3}		250	250	Amplifier	(°C)	
				1		

*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 380/400/415/440 V, 50/60 Hz. A transformer is required for other supply voltages.

*3 Breaker capacity for 480 V.

*4 Above 4000 Hz, the force rolls-off at a rate of -6 dB/oct.

*5 Maximum velocity 4.6 m/s. High velocity restricts maximum Shock force. *The specification shows the maximum system performance. For long-duration tests, system must be de-rated up to 70%.

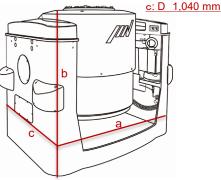
Continuous use at maximum levels may cause failure. Please contact IMV if your system operates at more than 70%.

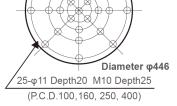
*For random vibration tests, please set the test definition of the peak value of acceleration waveform to operate at less than the maximum acceleration of shock

*Frequency range values vary according to the sensor and vibration controller.

*Armature mass and acceleration may change when a chamber is added.

a: W 1,310 mm Table Insert Pattern (unit: mm) Vibration Generator (A74) b: H 1,253 mm 74 446





Amplifier

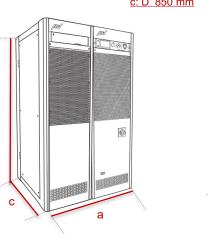
b

a: W 1,160 mm b: H 1,950 mm c: D 850 mm

Blower

a: W 1,462 mm b: H 2,800 mm c: D 927 mm

b





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