

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

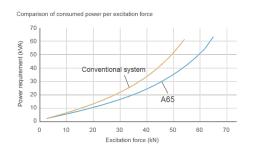
1. Improvement of performance

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.







Air-cooled Vibration Test Systems

A74/EM6HAG A74/EM8HAG



System Specification					
System Model		A74/ EM6HAG	A74/ EM8HAG		
Frequency Range (Hz)		0- 2,600*4	0-2,600*4		
	Sine (kN)	74	74		
Rated	Random (kN rms) *1	74	74		
Force	Shock (kN)	148	180		
	High Velocity Shock (kN)*5	120	160		
	Sine (m/s²)	1,000	1,000		
Maximum	Random (m/s² rms)	630	630		
Acc.	Shock (m/s²)	2,000	2,000		
	High Velocity Shock (m/s² peak)*5	1,621	2,000		
	Sine (m/s)	2.0	2.0		
Maximum Vel.	Shock (m/s peak)	2.5	2.5		
	High Velocity Shock (m/s peak)*5	3.5	3.5		
Maximum Disp.	Sine (mmp-p)	76.2	76.2		
	High Velocity Shock (mmp-p)	76.2	76.2		
Maximum Travel (mmp-p)		82	82		
Maximum Load (kg)		1,000	1,000		
Power Requirements (kVA)*2		100	100		
Breaker Capacity (A)*3		250	250		

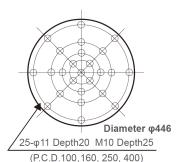
Vibration Generator (A74)				
Armature Mass (kg)	74			
Armature Diameter (ϕ mm)	446			
Armature Resonance (Hz)	1,770			
Allowance Eccentric Moment (Nm)	1,550			
Mass (kg)	4,200			

Power Amplifier	2BGH6- A74	2BGH8- A74
Maximum Output (kVA)	VA) 100	
Mass (kg)	1,340	1,850

Cooli	Cooling (VAPE900/N2R)					
Mass (kg)	320					
Cooling Air Flow (m ³ /ı	70					
Environmental Data						
Input Voltage Supply	380/400/415/440					
Compressed Air Supply (Mpa)		0.7				
Working Ambient Temperature	Shaker (°C)	0-40				
	Amplifier (°C)	0-40				

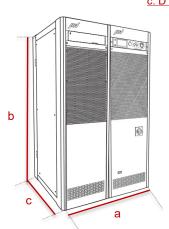
a: W 1,310 mm Table Insert Pattern (unit: mm) b: H 1,253 mm

c: D 1,040 mm

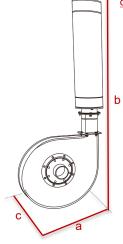


Amplifier

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



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



*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.