

Air cooled Vibration Test Systems

A74 / EM8HAM A74 / EM10HAM





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) which gives good balance between specification of velocity, acceleration and displacement. It also provides a maximum of 3.5m/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.

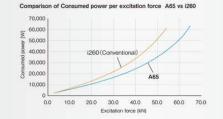
(1) Improvement of performance

Expansion of test case and respond to high spec, test Meet the needs for versatile test use.

- Improvement in excitation force
- · Standard 76.2mm displacement
- · Expansion in frequency range
- · Crosstalk reduction
- High velocity shock test

② User friendly and security

Aware of security and functionality and realizes more energy-saving.



3User first principle

Intuitive interface leads the operator with user-friendly guidance.







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System Specifications					
System Model		ØA74/EM8HAM	A74/EM10HAM		
Frequency Range (Hz)		0-2600*3	0-2600*3		
Rated Force	Sine	(kN)	74	74	
	Random	(kN rms) *1	74	74	
	Shock	(kN)	148 (120)*4	180 (160) *4	
Maximum Acc.	Sine	(m/s ²)	1000	1000	
	Random	(m/s²rms)	630	630	
	Shock	(m/s ²)	1500	1500	
Maximum Vel.	Sine	(m/s)	2.0	2.0	
	Shock	(m/s peak)	2.5 (3.5)*4	2.5 (3.5) *4	
	Sine	(mm p-p)	76.2	76.2	
Maximum Disp.	Maximur	n Travel (mm p-p)	82	82	

Vibration Generator (A74)				
Armature Mass	(kg)	74		
Armature Diameter	(<i>φ</i> mm)	446		
Shaker Body Diameter	(<i>φ</i> mm)	925		
Armature Resonance	(Hz)	1770		
Allowance Eccentric Moment (N.m)		1550		
Maximum Payload	(kg)	1000		
Stray Field	(mT)	80		
Mass	(kg)	3500		

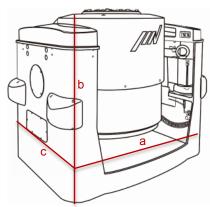
- *1) Force ratings are specified in accordance with ISO5344 conditions.
- *2) Power supply: 3-phase 380/400/415/440 V, 50/60 Hz. A transformer is required for other supply voltages.
- *3) Above 2000 Hz, the force rolls-off at a rate of -12 dB/oct.
- *4) Maximum velocity 4.6 m/s. High velocity restricts maximum Shock force
- * The specification shows the maximum system performance.
- F or long-duration tests, de-rating by up to 70 % must be applied. Continuous use at maximum levels may cause failure
- * In the case of Random vibration test, please set the test definition of the peak value of acceleration
- waveform to be operated 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 comibined.

Cooling				
System Model		VAPE 900/N2R		
Mass	(kg)	320		
Cooling Air Flow	(m³/min)	70		
Envionmental Data				
Power Requiremen	t (kVA) *2	100		
Input Voltage Supp	ly (3φ, V)	380/400/415/440		
Compressed Air Supply (Mpa)		0.7		
Working Ambient	Shaker (°C)	0 - 40		
Temperature	Amplifier (°C)	0 - 40		

	Power Amplifier	4			
System Model	EM8HAM-A74	EM10HAM-A74			
Maximum Output (kVA)	100				
Mass (kg)	1500	1850			
Diameter φ446 25-φ11 Depth20 M10 Depth25 (P.C.D.100,160, 250, 400)					

unit: mm

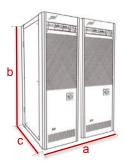


Shaker

Model: A74

<u>a: W 1310 mm</u> <u>b: H 1253 mm</u>

c: D 1040 mm



Amplifier Model: EM8HAM

a: W 1160 mm b: H 1950 mm c: D 850 mm

