

## Air-cooled Vibration Test Systems

# **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) \*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

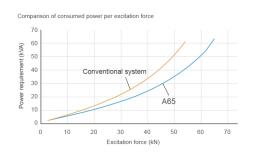
#### 1. Improvement of performance

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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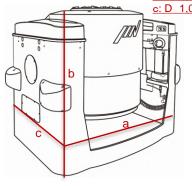
System Specification								
System Mod								
Frequency F	0-2,600*4							
	Sine (kN)	74						
Rated	Random (kN rms) *1	74						
Force	Shock (kN)	222						
	High Velocity Shock (kN)*5	170						
	Sine (m/s²)	1,000						
Maximum Acc.	Random (m/s² rms)	630						
	Shock (m/s²)	2,000						
	High Velocity Shock (m/s² peak)*5	2,000						
	Sine (m/s)	2.0						
Maximum Vel.	Shock (m/s peak)	2.5						
	High Velocity Shock (m/s peak)*5	3.5						
Maximum	Sine (mmp-p)	76.2						
Disp.	High Velocity Shock (mmp-p)	76.2						
Maximum T	ravel (mmp-p)	82						
Maximum Lo	1,000							
Power Requ	100							
Breaker Cap	250							

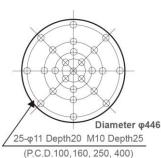
Vibration Generator (A74)							
Armature Mass (kg)	74						
Armature Diameter ( $\phi$ mm)	446						
Armature Resonance (Hz)	1,770						
Allowance Eccentric Moment (N·in)	1,550						
Mass (kg)	3,500						

Power Amplifier (EM10HAM-A74)								
Maximum Output (kVA)	118							
Mass (kg)	2,400							

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

Vibration Generator (A74)	a: W 1,310 mm	Table Insert Pattern (unit: mn			
,	b: H 1,253 mm				
and the contract of	c: D 1 040 mm				



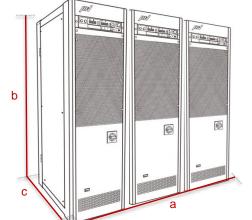


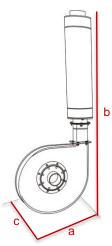
Amplifier

a: W 1,740mm b: H 1,950mm c: D 850mm

Blower

a: W 1,462 mm b: H 2,800 mm c: D 930 mm





*1)	Random	force	e ratin	gs are	e specified	d in a	accordanc	ce with	ISO534	44 cc	onditi	ions.	Please	contact II	MV or yo	our 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.
6) Measured 150 mm above table at full-field.

\* The specification shows the maximum system performance.

For 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 combined.