

Air cooled Vibration Test Systems A30 / SA3HAM A30 / EM3HAM

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 3.5 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 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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Air cooled Vibration Test Systems

A30 / SA3HAM A30 / EM3HAM



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System Specifications					
System Model			A30/SA3HAM	A30/EM3HAM	
Frequency Range (Hz)			0-2600	0-2600	
Rated Force	Sine	(kN)	30	30	
	Random	(kN rms) *1	30	30	
	Shock	(kN)	60	60 (50) * ³	
Maximum Acc.	Sine	(m/s ²)	900	900	
	Random	(m/s²rms)	630	630	
	Shock	(m/s ²)	1818	1818	
Maximu Vel.	Sine	(m/s)	2.0	2.0	
	Shock	(m/s peak)	2.5	2.5 (3.5) * ³	
Maximum Disp.	Sine	(mm p-p)	76.2	76.2	
	Maximum Travel (mm p-p)		82	82	

Vibration Generator (A30)				
Armature Mass	(kg)	33		
Armature Diameter	(<i>ф</i> mm)	290		
Shaker Body Diameter	$(\phi { m mm})$	725		
Armature Resonance	(Hz)	1980		
Allowance Eccentric Moment (N.m)		850		
Maximum Payload	(kg)	400		
Stray Field	(mT) *2	2.6		
Mass	(kg)	2000		
Allowance Eccentric Mom Maximum Payload Stray Field	ent (N.m) (kg) (mT) *2	850 400 2.6		

*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) Maximum velocity 4.6 m/s. High velocity restricts maximum Shock force.

* The specification shows the maximum system performance.

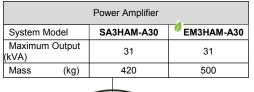
For long-duration tests, de-rating by up to 70 % must be applied. Continuous use at maximum levels may cause failure. * In the case of Random vibration test, please set the test definition of the peak value of acceleration

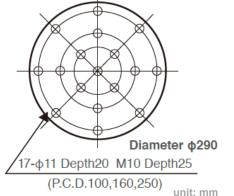
waveform to be operated less than the maximum acceleration of Shock.

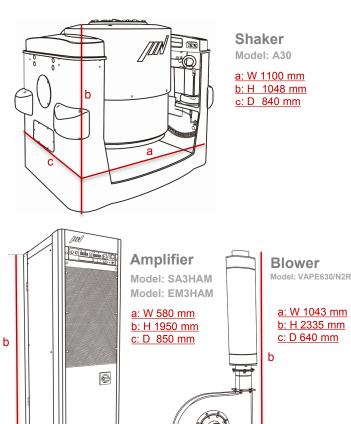
* Frequency range values vary according to sensor and vibration controller.

* Armature mass and acceleration may change when chamber is comibined.

Cooling						
System Model		VAPE630/N2R				
Mass	(kg)	250				
Cooling Air Flow	(m³/min)	54				
Envionmental Data						
Power Requiremen	t (kVA) *2	36				
Input Voltage Supp	ly (3φ, V)	380/400/415/440				
Compressed Air Su	ipply (Mpa)	0.7				
Working Ambient Temperature	Shaker (°C)	0 - 40				
	Amplifier (°C)	0 - 40				







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