

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

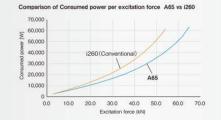
Expansion of test case and respond to high spec. test

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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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	(<i>φ</i> 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		

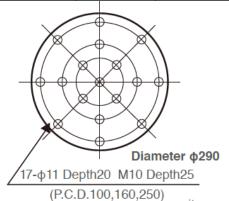
- *1) Force ratings are specified in accordance with ISO5344 conditions.
- *2) Power supply: 3-phase 380/400/415/440 V, 50/60 Hz. A transformer is required for other supply voltages.
- *3) Maximum velocity 4.6 m/s. High velocity restricts maximum Shock force.
- * The specification shows the maximum system performance.
- The specification shows the maximum system performance.

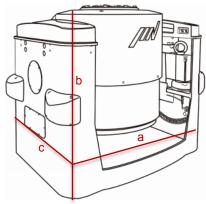
 For long-duration tests, de-rating by up to 70 % must be applied. Continuous use at maximum levels may cause failure.

 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	0.7				
Working Ambient	Shaker (°C)	0 - 40			
Temperature	Amplifier (°C)	0 - 40			
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Power Amplifier					
System Model		SA3HAM-A30	EM3HAM-A30		
Maximum Output (kVA)		31	31		
Mass	(kg)	420	500		





Shaker

Model: A30

<u>a: W 1100 mm</u> <u>b: H 1048 mm</u>

c: D 840 mm

Blower
Model: VAPE630/N2R

a: W 1043 mm

b: H 2335 mm

c: D 640 mm

