IMV VIBRATION TEST SYSTEMS **K series**

Water cooled Vibration Test Systems

K125LS / SA20HAM EMK1256A

K series vibration test system is ideal for testing of large sized specimen with high acceleration test requirements, in the field of electronic assemblies, automotive parts, aviation, avionics parts satellite. K series is designed to meet international test standards including IEC, ISO and JIS.

IMV's patented upper (armature) support system; Parallel Slope Guide has improved the durability of the system extending the lifetime of the upper guidance system, with a lifetime of up to several times greater than the other standard shaker. Extended displacement available up to 100 mm (4 inch) with K series.

① High Excitation Force and Long Stroke

Force rating up to 200 kN, wide frequency range up to 3,000. To allow long stroke testing, maximum displacement 100 mm (4 inch) is available with K125LS shaker.



PSG guide system

(2) Easy maintenance

- All connections of electricity and water are in the upper part of the armature.
- It is easy to inspect and change the armature



③ Improvement of Testing Environment

No exhaust noise of the cooling blower. Further, with the operation of intelligence Shaker Management (ISM), EM range can reduce power consumption and CO2 emissions automatically.



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System Specifications				
System Model		K125LS/SA20HAM	🥖 EMK1256A	
Frequency Range (Hz)		0-2000		
Rated Force	Sine (kN)	125		
	Random (kN rms) *1	125		
	Shock (kN)	250		
Maximum Acc.	Sine (m/s ²)	1000		
	Random (m/s ² rms)	700		
	Shock (m/s ²)	2000		
Maximum Vel.	Sine (m/s) *3	2.0		
	Shock (m/s peak)	2.0		
Maximum Disp.	Sine (mmp-p)	100		
	Maximum Travel (mmp-p)	132		

Vibration Generator (K125LS)		
Armature Mass (kg)	100	
Armature Diameter (ϕ mm)	560	
Armature Resonance (Hz)	1700	
Allowance Eccentric Moment (N·m)	2450	
Maximum Payload (kg)	2000	
Mass (kg)	8000	

*1) Random 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) If the tests (Sweep or Spot) include high velocity, the maximum velocity value should be reduced to 1.4 m/s.
* 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

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.

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Heat Exchanger				
Model	VE-HE-150-SA			
Mass (kg)	400			
Environmental Data				
Power Requirement (kVA) *2		190		
Input voltage supply $(3\phi, V)$		380/400/415/440		
Compressed Air	0.7			
Facility Cooling Water Flow (I/min)		390 at ∆t =5°C		
		151 at ∆t =5°C		
Working Ambient Condition	Temperature (°C)	0 - 40		
	Humidity(%RH)	0 - 85		

Power Amplifier				
System Model	SA20HAM-K125LS	ØEM20HAM-K125LS		
Maximum Output [kVA]	155	155		
Mass [kg]	3300	3350		



