IMV VIBRATION TEST SYSTEMS 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/s²)	1000			
	Random (m/s² rms)	700			
	Shock (m/s²)	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			

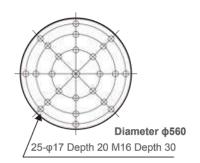
Vibration Generator (K125LS)				
Armature Mass (kg)	100			
Armature Diameter (ϕ mm)	560			
Armature Resonance (Hz)	1700			
Allowance Eccentric Moment (N·m)	2450			
Maximum Payload (kg)	2000			
Mass (kg)	8000			

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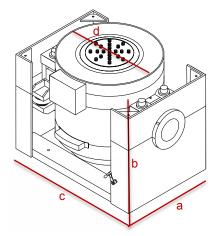
Heat Exchanger				
Model	VE-HE-150-SA			
Mass (kg)	400			
Environmental Data				
Power Requirement (kVA)*2		190		
Input voltage supply $(3\phi,V)$		380/400/415/440		
Compressed Air Supply (Mpa)		0.7		
Facility Cooling W	390 at Δt =5°C			
Facility Cooling Water Flow (I/min)		151 at Δt =5°C		
Working Ambient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

Power Amplifier					
System Model	SA20HAM-K125LS	₱ EM20HAM-K125LS			
Maximum Output [kVA]	155	155			
Mass [kg]	3300	3350			



unit: mm

(P.C.D.250, 400, 500)



a: W 580 mm

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Shaker

Model: K125LS

a: W 1990 mm b: H 1546 mm c: D 1370 mm

d:1100 qmm

Heat Exchanger Amplifier

Model: SA20HAM-K125LS Model: VE-HE-150-SA Model: EM20HAM-K125LS

a: W 1740 mm

b: H 1950 mm c: D 850 mm

