IMV VIBRATION TEST SYSTEMS K series

Water cooled Vibration Test Systems

K080 / SA10HAM EMK0801A





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.



IMV VIBRATION TEST SYSTEMS Kseries

Water cooled Vibration Test Systems

K080 / SA10HAM **EMK0801A**



System Specifications					
System Model		K080/SA10HAM	₱ EMK0801A		
Frequency Range (Hz)		0-2500			
Rated Force	Sine (kN)	80			
	Random (kN rms) *1	80			
	Shock (kN)	160			
Maximum Acc.	Sine (m/s²)	1000			
	Random (m/s² rms)	700			
	Shock (m/s²)	2000			
Maximum	Sine (m/s) *3	2.0			
Vel.	Shock (m/s peak)	2.0			
Maximum	Sine (mmp-p)	51			
Disp.	Maximum Travel (mmp-p)	59			

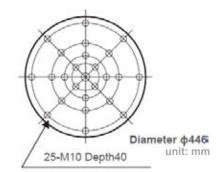
Vibration Generator (K080)		
Armature Mass (kg)	60	
Armature Diameter (ϕ mm)	446	
Armature Resonance (Hz)	1800	
Allowance Eccentric Moment (N. • m)	1550	
Maximum Payload (kg)	1000	
Mass (kg)	5000	

- *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

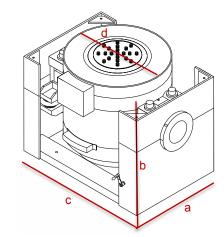
	waveform to be operate	d less than the maximum acceleration of Shock	₹.
*	Frequency range values	s vary according to sensor and vibration control	ller.

Heat Exchanger					
System Model		VE-HE-120-SA			
Mass (kg)		400			
Environmental Data					
Power Requirement (kVA) *2		100			
Input Voltage Supply $(3\phi, V)$		380/400/415/440			
Compressed Air Supply (Mpa)		0.6			
Facility Cooling Water Flow (I/min)		390 at ∆t = 5°C			
Facility Cooling W	ater Flow (I/min)	95 at Δt = 12°C			
Working Ambient	Temperature (°C)	0 - 40			
Condition	Humidity (%RH)	0 - 85			

Power Amplifier				
System Model	SA10HAM-K80	₱ EM10HAM-K80		
Maximum Output [kVA]	100	100		
Mass [kg]	1500	1550		



(P.C.D.100, 160, 250, 400)



Shaker

 ϵ

Model: K080

a: W 1595 mm b: H 1050 mm

c: D 1200 mm d: 1000 qmm

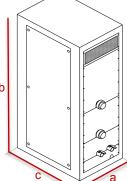
Amplifier Heat Exchanger

Model: SA10HAM-K80 Model: VE-HE-120-SA Model: EM10HM-K80 a: W 580 mm

a: W 1160 mm

b: H 1950 mm c: D 850 mm

b: H 1700 mm c: D 850 mm





K080