IMV VIBRATION TEST SYSTEMS K series

Water-cooled Vibration Test Systems

K062/SA8HAG K062/EM8HAG



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.

eco-shaker



IMV CORPORATION

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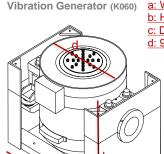
System Specification					
System Model		K062/ SA8HAG	K062/ EM8HAG		
Frequency Range (Hz)		0-2,500			
Rated Force	Sine (kN)	61.7			
	Random (kN rms) *1	61.7			
	Shock (kN)	123.4			
Maximum Acc.	Sine (m/s²)	1,000			
	Random (m/s² rms)	700			
	Shock (m/s²)	2,000			
Maximum Vel.	Sine (m/s)	2.0			
	Shock (m/s peak) *3	2.0			
Maximum Disp.	Sine (mmp-p)	5	51		
	Maximum Travel (mmp-p)	6	60		
Maximum Lo	1,0	000			
Power Requ	8	7			
Breaker Cap	150				

- *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, system must be de-rated up to 70%.
- Continuous use at maximum levels may cause failure. Please contact IMV if
- *For random vibration tests, please set the test definition of the peak value of acceleration waveform to operate at less than the maximum acceleration of
- *Frequency range values vary according to the sensor and vibration controller.
- *Armature mass and acceleration may change when a chamber is added.

Vibration Generator (K060)				
Armature Mass (kg)	40			
Armature Diameter (ϕ mm)	400			
Armature Resonance (Hz)	1,900			
Allowance Eccentric Moment (Nm)	980			
Mass (kg)	3,700			

Power Amplifier	SA8HAG- K60	EM8HAG- K60
Maximum Output (kVA)	60	
Mass (kg)	1,350	1,400

Cooling (VE-HE-70-SA)					
Mass (kg)	400				
Environmental Data					
Input Voltage Supply	380/400/415/440				
Compressed Air Supp	0.6				
Facility Cooling Water F	260 at Δt =5°C				
racility Cooling Water F	77 at Δt =12°C				
Working Ambient Temperature	Temperature (°C)	0-40			
	Amplifier (°C)	0-85			



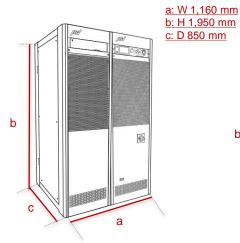
a: W 1,380 mm Table Insert Pattern (unit: mm)

b: H 1.085 mm c: D 1,000 mm d: 900 qmm

Diameter $\phi400$ 21-M16 Depth 40 (P.C.D.100, 200, 315)

K060

Amplifier (SA8HAG-K60/EM8HAG-K60)



Heat Exchanger

b: H 1700 mm c: D 850 mm

a: W 580 mm

