IMV VIBRATION TEST SYSTEMS series

Water-cooled Vibration Test Systems

K200/SA24HAG K200/EM24HAG



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

IMV VIBRATION TEST SYSTEMS K series

Water-cooled Vibration Test Systems

K200/SA24HAG **K200/EM24HAG**



Table Insert Pattern (unit: mm)

System Specification					
System Model		K200/ SA24HAG	K200/ EM24HAG		
Frequency Range (Hz)		0-2,000			
Rated Force	Sine (kN)	200			
	Random (kN rms) *1	200			
	Shock (kN)	400			
	High Velocity Shock (kN)	-	260		
Maximum Acc.	Sine (m/s²)	1,000			
	Random (m/s ² rms)	700			
	Shock (m/s²)	2,000			
	High Velocity Shock (m/s²)	-	1300		
Maximum Vel.	Sine (m/s)	2.0			
	Shock (m/s peak) *3	2.4			
	High Velocity Shock (m/s peak)	-	3.5		
Maximum Disp.	Sine (mmp-p)	76.2			
	Maximum Travel (mmp-p)	86			
Maximum Load (kg)		2,000			
Power Requirements (kVA) *2		300			
Breaker Cap	600				

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

required for other supply voltages.

- *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
- your system operates at more than 70%. *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 (K200)				
Armature Mass (kg)	200			
Armature Diameter (ϕ mm)	650			
Armature Resonance (Hz)	1,600			
Allowance Eccentric Moment (Nm)	4,900			
Mass (kg)	19,000			

Power Amplifier	SA24HAG- K200	EM24HAG -K200
Maximum Output (kVA)	320	
Mass (kg)	5,000	

Cooling (VE-HE-150-SA)					
Mass (kg)	600				
Environmental Data					
Input Voltage Supply	380/400/415/440				
Compressed Air Supp	0.7				
Facility Condition Makes F	650 at Δt =5°C				
Facility Cooling Water F	229 at Δt=12°C				
Working Ambient Temperature	Temperature (°C)	0-40			
	Amplifier (°C)	0-85			

Vibration Generator (K200)

a: W 2,465 mm b: H 1,908 mm c: D 1,740 mm d:1,260 qmm

> Diameter $\phi650$ 25-φ17 Depth 20 M16 Depth 30

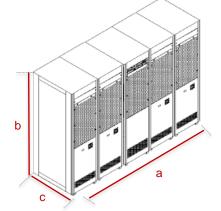
(P.C.D.203.2, 406.4, 558.8)

K200

Amplifier (SA24HAG-K200S/EM24HAG-K200)

a: W 2,900 mm b: H 1,950 mm

c: D 850 mm



Heat Exchanger

a: W 1,050 mm b: H 1,900 mm

