# IMV VIBRATION TEST SYSTEMS Series

# IMV-Smart<sup>™</sup> ECO-Shaker

Water-cooled Vibration Test Systems

## **K125A/EM18HAG**



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 4 inch with K-series.



## 1. High-excitation-force and long stroke

Force rating up to 45,000 lbf, wide frequency range up to 3,000. To allow long stroke testing, maximum displacement 4 inch is available with K125 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 **K** series

## Water-cooled Vibration Test Systems

### **K125A/EM18HAG**



System Specification		
)-2,500		
28,100		
28,100		
56,200		
37,100		
102		
71		
204		
204		
79		
79		
138		
2.0		
2.4		
4,400		
170		
250		

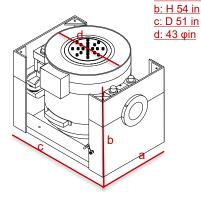
Vibration Generator (K125A)		
Armature Mass (lbs)	177	
Armature Diameter ( $\phi$ in)	22	
Armature Resonance (Hz)	1,900	
Allowance Eccentric Moment (lbf·in)	21,700	
Mass (lbs)	15,435	

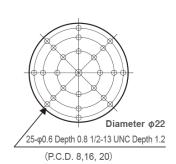
Power Amplifier (2□GH18-K125A)		
Maximum Output (kVA)	124	
Amplifier Bay	3	
Mass (lbs)	5,730	

Heat Exchanger (VE-HE-150-SA)				
Mass (lbs)		885		
Environmental Data				
Input Voltage Supply (3 $\phi$ , V)		220/480		
Compressed Air Supply (psi)		102		
Facility Cooling Water Flow (gal/min)		103 at Δt = 5°C		
		39 at Δt = 10°C		
Working Ambient Temperature	Shaker (°F)	32-104		
	Amplifier (°F)	32-104		



c: D 34 in

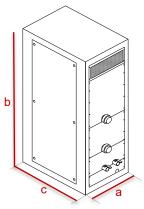




Amplifier (2□GH18-K125A) a: W 69 in b: H 77 in

Heat Exchanger (VE-HE-150-SA)

a: W 23 in b: H 67 in c: D 34 in



<sup>\*1)</sup> Random force ratings are specified in accordance with ISO5344 conditions. Please contact IMV or your local distributor with specific test requirements. \*2) Power supply: 3-phase 220/480 V, 60 Hz. A transformer is required for other supply voltages.

<sup>\*3)</sup> If the tests (Sweep or Spot) include high velocity, the maximum velocity value should be reduced to 5.5 in/s.

<sup>\*4)</sup> Breaker capacity for 480 V

<sup>\*</sup>The alphabet of A, B, or C can be entered in 🗆. A: Voltage AC200V system (200 to 230), B: Voltage AC400V system (380A to 440V), C: 480V system

<sup>\*</sup> Frequency range values vary according to sensor and vibration controller.

<sup>\*</sup> Armature mass and acceleration may change when chamber is combined.