# IMV VIBRATION TEST SYSTEMS series

## Air-cooled Vibration Test Systems i220/SA1HAG i220/EM1HAG

Vibration tests have diversified and specifications have become increasingly strict. i-series offer a user-friendly lineup with enhanced performance and durability.

[Test range]

- Maximum acceleration: 1,250 m/s<sup>2</sup>
- Maximum velocity: 3.5 m/s
- Maximum displacement: 51 mmp-p
- Maximum loading mass: 200 kg

[Patented upper (armature) support system PS Guide] Parallel Slope Guide is standard. [All models can be directly coupled to a climatic chamber.]

#### **(1)** High durability with PS guide

PS guide (parallel slope guide) is an upper support system conforming to continued vibration testing at high velocity.



#### ② Improvement of Testing Environment

With the operation of Intelligence Shaker Management (ISM), EM range can reduce power consumption and CO2 emissions automatically.

## eco-shaker

#### **③ User first principle**

Compatible with K2 vibration controller. Intuitive interface leads The operator with user-friendly guidance.



### **IMV CORPORATION**



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	System Specifica	Vibration Generator (i220)					
System Model		i220/ SA1HAG	EM1HAG	Armature Mass (kg)			
Frequency Range (Hz)		0-3,300	0-3,300	Armature Diameter ( $\phi$ mm)			
Rated Force	Sine (kN)	8	8	Armature Resonance (Hz)			
	Random (kN rms) *1	8	8	Allowance Eccentric Moment (N·in)			
	Shock (kN)	16	16	Mass (kg)			
	High Velocity Shock (kN) *4	-	10				
Maximum Acc.	Sine (m/s <sup>2</sup> )	1,250	1,250	Power Amplifi	er SA1H	AG-	
	Random (m/s <sup>2</sup> rms)	875	875		i20	)	
	Shock (m/s <sup>2</sup> )	2,000	2,000	Maximum Output (kVA)			
	High Velocity Shock (m/s <sup>2</sup> peak)*4	-	1,562	Mass (kg)	280	)	
Maximum Vel.	Sine (m/s)	2.2	2.2				
	Shock (m/s peak)	2.2	2.2	Cooling (VAPE/N 560/2R)			
	High Velocity Shock (m/s peak) *4	-	3.5	Mass (kg)			
Maximum Disp.	Sine (mmp-p)	51	51	Environmental Data			
	High Velocity Shock (mmp-p)	-	51	Input Voltage Supply $(3\phi, V)$			
Maximum Travel (mmp-p)		60	60	Compressed Air Supply (Mpa)			
Maximum Load (kg)		200	200	Working Ambient	Shaker (°C)		
Power Requirements (kVA) *2		16.4	16.4	Temperature	Amplifier (°C)		
Breaker Capacity (A) *3		30	30				

Armature Mass (kg)	6.4					
Armature Diameter ( $\phi$ mm)		190				
Armature Resonance (Hz)		3,100				
Allowance Eccentric Moment (		294				
Mass (kg)	900					
Power Amplifier	SA1HA0 i20	G-	EM1HAG- 💋 i20			
Maximum Output (kVA)	10					
Mass (kg)	280		280			

2	Cooling (VAPE/N 560/2R)					
5	Mass (kg)	85				
1	Environmental Data					
1	Input Voltage Supply	380/400/415/440				
0	Compressed Air Supply (Mpa)		0.7			
00	Working Ambient	Shaker (°C)	0-40			
.4	Temperature	Amplifier (°C)	0-85			
0						

\*1 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 380/400/415/440 V, 50/60 Hz. A transformer is required for other supply voltages.

\*3 Breaker capacity for 480 V.

\*4 For high velocity option

\*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 shock. \*Frequency range values vary according to the sensor and vibration controller.

\*Armature mass and acceleration may change when a chamber is added.

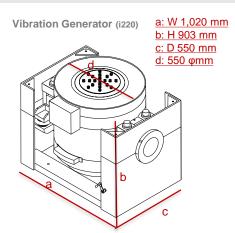
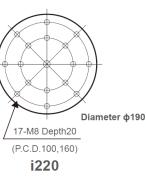
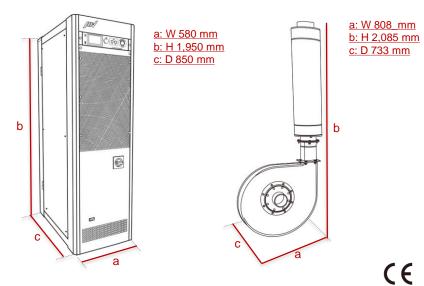


Table Insert Pattern (unit: mm)



Amplifier (SA1HAG-i20/EM1HAG-i20)

Blower



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