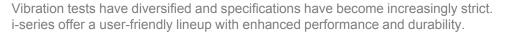
IMV VIBRATION TEST SYSTEMS series

Air cooled Vibration Test Systems

i220 / SA1AM EM2201A



[Expanded maximum test range]

Max. velocity of Sine force: 2.4 m/s • Max. velocity of Shock force 4.6 m/s • Max. displacement: 100 mp-p [Patented upper (armature) support system PS Guide] Parallel Slope Guide is standard. [Low noise] Optimised design of the air intake based on fluid dynamics has reduced the air-intake noise. [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.



PS guide system

2 Improvement of Testing Environment

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



3 User first principle

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





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i220 / SA1AM **EM2201A**



System Specifications					
System Model		i220/SA1AM	 € € € € € E M 2201A		
Frequency Range (Hz)		0-3300			
Rated Force	Sine (kN)	8			
	Random (kN rms))*1	8			
	Shock (kN)	16			
Maximum Acc.	Sine (m/s ²)	1250			
	Random (m/s² rms)	875			
	Shock (m/s²)	2500			
Maximum Vel.	Sine (m/s)	2.2			
	Shock (m/s peak)	2.2	2.2(3.5)* ³		
Maximum Disp.	Sine (mmp-p)	51			
	Maximum Travel (mmp-p)	60			

Vibration Generator (i220)			
Armature Mass (kg)	6.4		
Armature Diameter (ϕ mm)	190		
Armature Resonance (Hz)	3100		
Allowance Eccentric Moment (N·m)	294		
Maximum Payload (kg)	200		
Mass (kg)	990		

- *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) Maximum velocity 4.6 m/s. High velocity restricts maximum Shock force. Please contact IMV or your local distributor with specific test requirements
- * 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 operated less than the maximum acceleration of Shock.
- * Frequency range values vary according to sensor and vibration controller.

Cooling Blower				
Model	VAPE/N 560/2R			
Mass (kg)	85			
Environmental Data				
Power Requirement (kVA))*2		16.4		
Input Voltage Supply (3 ϕ , V)		380/400/415/440		
Compressed Air Supply (Mpa)		0.7		
Working Ambient	Temperature (°C)	0 - 40		
	Humidity (%RH)	0 - 85		

	d
]	b

Shaker

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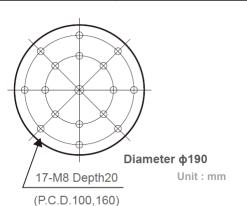
Model: i220

a: W 1020 mm

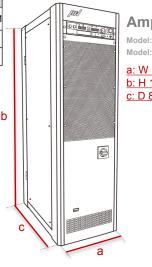
b: H 903 mm c: D 550 mm

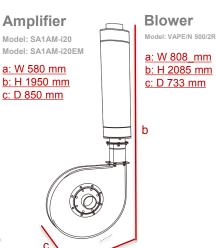
d: 550 mmm

Power Amplifier				
System Model	SA1AM-i20			
Maximum Output [kVA]	10			
Mass [kg]	280			



i220





IMV CORPORATION