IMV VIBRATION TEST SYSTEMS series

Air cooled Vibration Test Systems

i210/SA1M



[Expanded maximum test range]

Max. velocity of Sine force: 2.4m/s • Max. velocity of Shock force 4.6 m/s • Max. displacement: 100mp-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. [One of the world's largest class air-cooled systems] Optimized magnetic circuits based on finite element analysis and unique cooling technologies have enabled an excitation force of 65kN with air cooling. [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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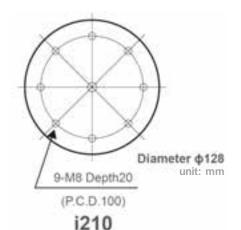
System Specifications				
System Model		I210/SA1		
Freq.Range (Hz)		0-4000		
Force	SINE (kN)	3		
	RANDOM (kN rms) *2	3		
	SHOCK (kN)	9		
Max. Acc.	SINE (m/s ²)	1000		
	RANDOM (m/s² rms)	700		
	SHOCK (m/s ²)	2000		
Max. Vel.	SINE (m/s)	2.2		
	Shock (m/s peak)	2.2*7		
Max. Disp.	SINE (mmp-p)	30		
	MAX. TRAVEL (mmp-p)	40		

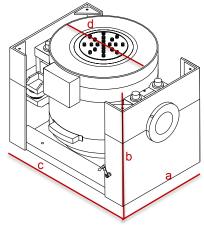
Vibration Generator (i210)		
Armature Mass (kg)	3	
Armature Diameter (ϕ mm)	128	
Armature Resonance (Hz)	3200	
Allowance eccentric moment (N.m)	160	
Maximum Payload (kg)	120	
Mass (kg)	350	

- *1) Power supply: 3-phase 200/220/240/380/400/415/440V, 50/60Hz. A transformer is required for other supply voltages.
- *2) Random force ratings are specified in accordance with ISO53 44 conditions.
- *3) The specification shows the maximum system performance. For long-duration tests, de-rating by up to 70% must be applied. Con tinuous use at maximum levels may cause failure.
- *4) In the case of Random vibration test, please set the test d efinition of the peak value of acceleration waveform to be ope r ated less than the maximum acceleration of Shock.
- *5) Above 2000 Hz, the force rolls-of f at a rate of -12 dB/oct.
- *6) Frequency range values vary according to sensor and vibrati on controller.
- *7) Maximum velocity 4.6m/s. High velocity restricts maximum Sh ock force. Please contact IMV or your local distributor with sp ecific test requirements.

Cooling Blower				
Model		PRVM 350/2R		
Mass (kg)	45			
Environmental Data				
Power Requirement (kV	6.8			
Input voltage supply (3	200/220 or 380/400/415/440			
Compressed Air Supply	0.6			
Working Ambient	Temperature (°C)	0 - 40		
Working Ambient	Humidity (%RH)	0 - 85		

Power Amplifier			
System Model	SA1M-i10		
Max. Output [kVA]	3		
Mass [kg]	240		





Shaker

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Model: i210

a: W 868mm b: H 700mm

c: D 458mm

Blower
Model: PRVM 350/2R

a: W 600mm

b: H1905mm

c: D557mm

<u>d: 458φmm</u>

