## IMV VIBRATION TEST SYSTEMS series

# Air cooled Vibration Test Systems i210 / SA1AM

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

[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 mmp-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.

## ecs-shaker

#### **③ User first principle**

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



## **IMV CORPORATION**

# IMV VIBRATION TEST SYSTEMS

Air cooled Vibration Test Systems
i210 / SA1AM



System Specifications			
System Model		I210/SA1	
Frequency Range (Hz)		0-4000	
Rated Force	Sine (kN)	3	
	Random (kN rms) *1	3	
	Shock (kN)	9	
Maximum Acc.	Sine (m/s <sup>2</sup> )	1000	
	Random (m/s <sup>2</sup> rms)	700	
	Shock (m/s <sup>2</sup> )	2000	
Maximum Vel.	Sine (m/s)	2.2	
	Shock (m/s peak)	2.2	
Maximum Disp.	Sine (mmp-p)	30	
	Maximum Travel (mmp-p)	40	

Vibration Generator (i210)		
Armature Mass (kg)	3	
Armature Diameter ( $\phi$ mm)	128	
Armature Resonance (Hz)	3200	
Allowance Eccentric Moment (N·m)	160	
Maximum Payload (kg)	120	
Mass (kg)	350	

\*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. Please contact IMV or your local distributor with specific test requirements.

\* The specification shows the maximum system performance.

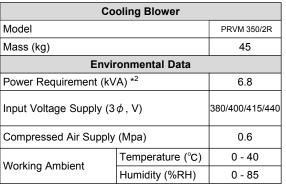
For long-duration tests, de-rating by up to 70 % must be applied.

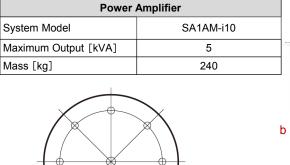
Continuous use at maximum levels may cause failure.

\* 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.

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9-M8 Depth20

(P.C.D.100)

Diameter  $\phi$ 128

unit: mm

