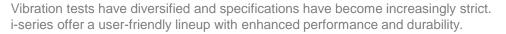
IMV VIBRATION TEST SYSTEMS series

Air cooled Vibration Test Systems

i210 / SA1AM



[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.



3 User first principle

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



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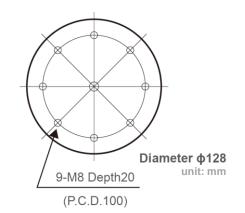
| System Specifications | | | | |
|-----------------------|---------------------------|----------|--|--|
| System Model | | I210/SA1 | | |
| Frequency Range (Hz) | | 0-4000 | | |
| Rated Force | Sine (kN) | 3 | | |
| | Random (kN rms) *1 | 3 | | |
| | Shock (kN) | 9 | | |
| Maximum Acc. | Sine (m/s ²) | 1000 | | |
| | Random (m/s² rms) | 700 | | |
| | Shock (m/s ²) | 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 (ϕ mm) | 128 | |
| Armature Resonance (Hz) | 3200 | |
| Allowance Eccentric Moment (N·m) | 160 | |
| Maximum Payload (kg) | 120 | |
| Mass (kg) | 350 | |

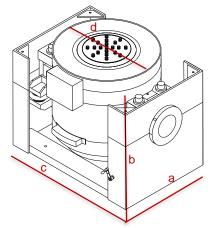
- *1) Random force ratings are specified in accordance with ISO5344 conditions.
- *2) Power supply: 3-phase 380/400/415/440 V, 50/60 Hz. A transformer is required for other supply voltages. Please contact IMV or your local distributor with specific test requirements.
- * The specification shows the maximum 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.

| | Cooling Blower | | |
|----------------------------------|--|--|--|
| Model | | | |
| Mass (kg) | | | |
| ronmental Data | | | |
| Power Requirement (kVA) *2 | | | |
| Input Voltage Supply $(3\phi,V)$ | | | |
| Compressed Air Supply (Mpa) | | | |
| Temperature (°C) | 0 - 40 | | |
| Humidity (%RH) | 0 - 85 | | |
| | γ(A) *² φ, V) γ (Mpa) Temperature (°C) | | |

| Power Amplifier | | |
|----------------------|-----------|--|
| System Model | SA1AM-i10 | |
| Maximum Output [kVA] | 5 | |
| Mass [kg] | 240 | |



i210



Shaker

((

Model: i210

<u>a: W 868 mm</u> <u>b: H 700 mm</u>

c: D 458 mm

Blower

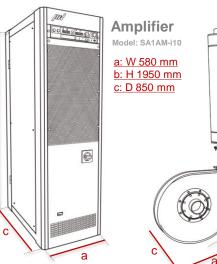
Model: PRVM 350/2R

a: W 600 mm

b: H 1905 mm

c: D 557 mm

<u>d: 458 φmm</u>



IMV CORPORATION