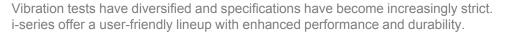
IMV VIBRATION TEST SYSTEMS series

Air cooled Vibration Test Systems

i230 / SA2AM EM2301A



[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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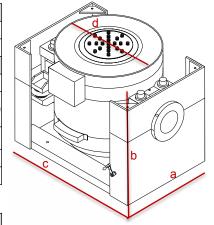


System Specifications					
System Model		i230/SA2AM	 € € € € € € € 1 1 1 1 1 1 1 1 1 1		
Frequency Range (Hz)		0-3300			
Force	Sine (kN)	16			
	Random (kN rms))*1	16			
	Shock (kN)	32			
Maximum Acc.	Sine (m/s ²)	1250			
	Random (m/s ² rms)	875			
	Shock (m/s ²)	2500			
Maximum Vel.	Sine (m/s)	2.2			
	Shock (m/s peak)	2.2	2.2(3.5)* ³		
Maximum Disp.	Sine (mmp-p)	51			
	Maximum Travel (mmp-p)	64			

Vibration Generator (i230)			
Armature Mass (kg)	12.8		
Armature Diameter (ϕ mm)	200		
Armature Resonance (Hz)	2600		
Allowance Eccentric Moment (N·m)	700		
Maximum Payload (kg)	300		
Mass (kg)	1500		

- *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				
Mass (kg)				
Environmental Data				
Power Requirement (kVA) *2				
Input Voltage Supply (3 ϕ , V)				
Compressed Air Supply (Mpa)				
Temperature (°C)	0 - 40			
Humidity (%RH)	0 - 85			
	ronmental Data A) *² Φ, V) (Mpa) Temperature (°C)			



Shaker

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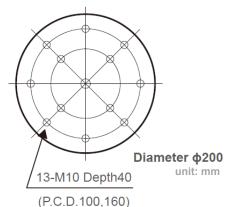
Model: i230

a: W 1124 mm

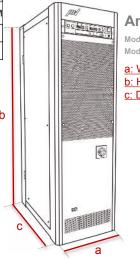
b: H 957 mm c: D 860 mm

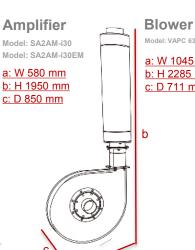
d: 630 mmm

Power Amplifier				
System Model	SA2AM-i30	●SAA2M-i30EM		
Maximum Output [kVA]	20	20		
Mass [kg]	300	350		



i230





Model: VAPC 630/P2R1 a: W 1045 mm

b: H 2285 mm c: D 711 mm

IMV CORPORATION