

Air-cooled Vibration Test Systems

A65/SA5HAG A65/EM5HAG



A-series is the "new standard" in vibration testing, with a solid test performance. A-series increases the relative excitation force and has a displacement of 76.2 mmp-p (3 inch stroke) *1 which gives good balance between specification of velocity, acceleration and displacement. It also provides a maximum of 3.5 m/s shock velocity testing, which responds to the demand in lithium battery testing. Rapid creation of a test from a set of pre-defined templates conforming to most international test standards. Simply select the standard required to generate the main test settings.

*1) Only for A30, A45, A65, A74

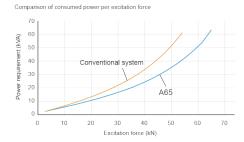
1. Improvement of performance

Expansion of test cases and responses to high spec. tests allow the A-series to meet a wide range of testing needs.

- · Improvement in excitation force
- Standard 76.2 mmp-p displacement
- Expansion in frequency range
- High velocity shock test

2. User friendly and secure

Greater security and functionality with improved energy savings.



3. User first principle

Intuitive interface guides the operator for easy use.



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IMV CORPORATION



Air-cooled Vibration	Test Systems
A65/SA5HAG	
A65/EM5HAG	



	System Specifica			
System Model		A65/ SA5HAG	A45/ EM4HAG	
Frequency	/ Range (Hz)	0- 2.600*4	0-2,600*4	
Rated Force	Sine (kN)	65	65	
	Random (kN rms) *1	65	65	
	Shock (kN)	130	130	
	High Velocity Shock (kN) *5	-	120	
Maximum Acc.	Sine (m/s ²)	900	900	
	Random (m/s² rms)	630	630	
	Shock (m/s ²)	1,806	1,806	
	High Velocity Shock (m/s ² peak)*5	-	1,666	
Maximum Vel.	Sine (m/s)	2.0	2.0	
	Shock (m/s peak)	2.5	2.5 2.5	
	High Velocity Shock (m/s peak)*5	-	3.5	
Maximum Disp.	Sine (mmp-p)	76.2	76.2	
	High Velocity Shock (mmp-p)	-	76.2	
Maximum Travel (mmp-p)		82	82	
Maximum Load (kg)		1,000	1,000	
Power Requirements (kVA)*2		83	83	
Breaker C	apacity (A) *3	150	150	

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

*3 Breaker capacity for 480 V.

*4 Maximum velocity 4.6 m/s. High velocity restricts maximum Shock force.

*The specification shows the maximum system performance. For long-duration tests, system must be de-rated up to 70%.

Continuous use at maximum levels may cause failure. Please contact IMV if your system operates at more than 70%.

*For random vibration tests, please set the test definition of the peak value of acceleration waveform to operate at less than the maximum acceleration of shock. *Frequency range values vary according to the sensor and vibration controller.

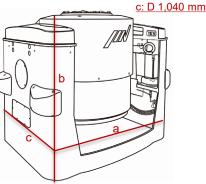
*Armature mass and acceleration may change when a chamber is added.

VIDIATION Generator (A03)				
ure Mass (kg)			72	
ure Diameter (ϕ mm)			446	
ure Resonance (Hz)			1,770	
nce Eccentric Moment (I	N∙in)		1,550	
(kg)			4,200	
ower Amplifier	SA5HA0 A65	G-	EM5HAG-	
um Output (kVA)	68			
kg)	1,000		1,150	
			······································	

Vibration Generator (A65)

Cooling (VAPE800/N2R)						
Mass (kg)						
Cooling Air Flow (m ³ /min)						
Environmental Data						
Input Voltage Supply $(3\phi, V)$						
Compressed Air Supply (Mpa)						
Shaker (°C)	0-40					
Amplifier (°C)	0-40					
	min) ironmental Data (3φ, V) bly (Mpa) Shaker (°C)					





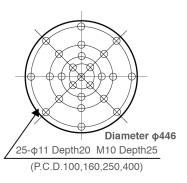
Amplifier

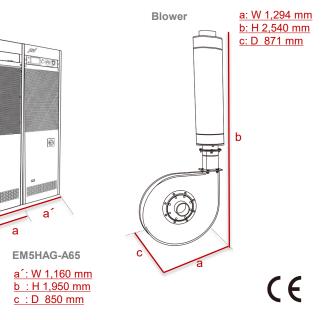
b

SA5HAG-A45

a: W 580 mm

<u>b: H 1,950 mm</u> <u>c: D 850 mm</u> Table Insert Pattern (unit: mm)





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