IMV VIBRATION TEST SYSTEMS
A series

Air cooled Vibration Test Systems

A12/SA1HAM
A12/EM1HAM

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) which gives good balance between specification of velocity, acceleration and displacement.
It also provides a maximum of 3.5m/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 Improvement of performance

Expansion of test case and respond to high spec. test

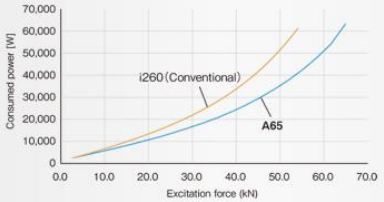
Meet the needs for versatile test use.

- Improvement in excitation force
- Standard 76.2mm displacement
- Expansion in frequency range
- Crosstalk reduction
- High velocity shock test

② User friendly and security

Aware of security and functionality and realizes more energy-saving.

Comparison of Consumed power per excitation force A65 vs i260



③User first principle

Intuitive interface leads the operator with user-friendly guidance.

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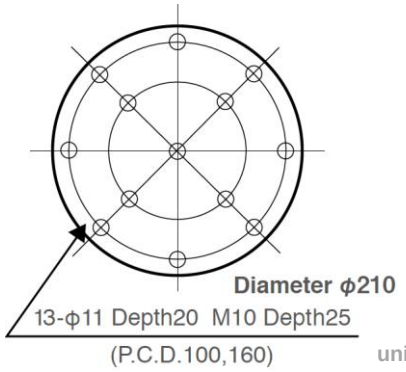
System Specifications			
System Model		A12/SA1HAM	A12/EM1HAM
Freq. Range (Hz)		0-4500	0-4500
Force	SINE (kN)	12	12
	RANDOM (kN rms)	12	12
	SHOCK (kN)	24	24
	High Velocity SHOCK (kN)	-	18
Max. Acc.	SINE (m/s^2)	1090	1090
	RANDOM (m/s^2 rms)	630	630
	SHOCK (m/s^2)	2181	2181
	High Velocity SHOCK (m/s^2)	-	1636
Max. Vel.	SINE (m/s)	2.0	2.0
	SHOCK (m/s peak)	2.5	2.5
	High Velocity SHOCK (m/s peak)	-	3.5
Max. Disp.	SINE (mmp-p)	51	51
	High Velocity SHOCK (mmp-p)	-	55
	MAX. TRAVEL (mmp-p)	64	64

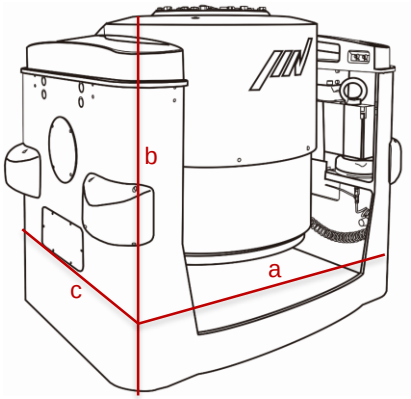
Vibration Generator (A10)	
Armature Mass (kg)	11
Armature Diameter (ϕ mm)	210
Armature Resonance (Hz)	3160
Allowance eccentric moment (N.m)	294
Maximum Payload (kg)	200
Mass (kg)	1080

Cooling		
Model		VAPC630/P2R1
Mass (kg)		150
Cooling Air Flow (m^3/min)		15
Environmental Data		
Power Requirement (kVA)		20.4
Input voltage supply (3ϕ, V)		200/220 or 380/400/415/440
Compressed Air Supply (Mpa)		0.6
Working Ambient Temperature	Shaker (℃)	0 - 40
	Amplifier (℃)	0 - 40

Power Amplifier		
Model	SA1HM-A12	EM1HM-A12
Max. Output [kVA]	13	13
Mass [kg]	280	330

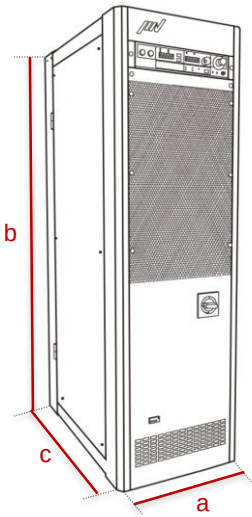


unit: mm



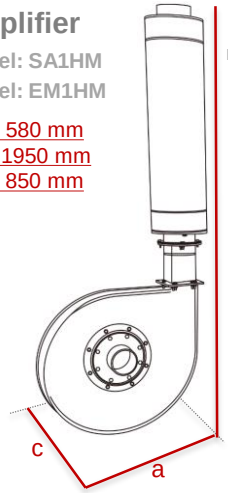
Shaker
Model: A10

a: W 946 mm
b: H 827 mm
c: D 676 mm



Amplifier
Model: SA1HM
Model: EM1HM

a: W 580 mm
b: H 1950 mm
c: D 850 mm



Blower
Model: VAPC630/P2R1

a: W 1044 mm
b: H 2285 mm
c: D 704 mm

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