

F Series Vibration Testing System

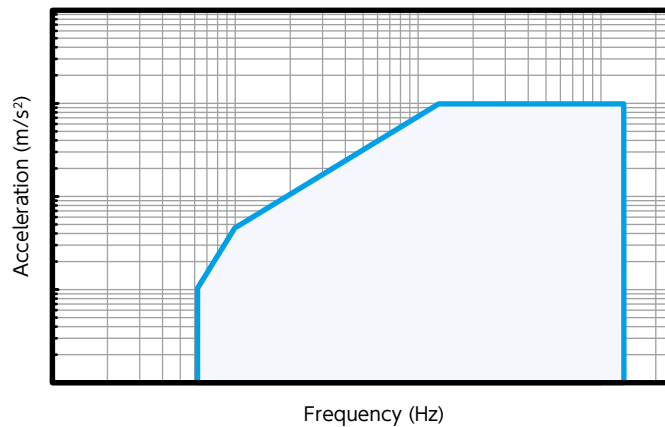
Standard



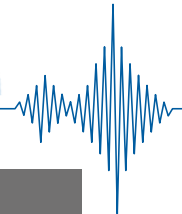
The standard F series vibration testing system has been sold for over 40 years. This system can generate force from 1.3 kN to 60 kN over the broad range of frequency and has high durability to perform various vibration tests.

※The vibration controller is mounted in the console rack. (Optional)

■ Maximum Rated Exciting Capability Curve of Standard System



※This performance curve is how you look at each system for comparison.



F Series Specifications

Model		F-1K/15	F-2K/20	F-2K/20A	F-3K/20	F-3K/20A	F-6K/20
Rated Force	Sine	kN _{0-p} 1.3	2.0	2.0	3.0	3.0	6.0
	Random	kN _{rms} 1.3	2.0	2.0	3.0	3.0	6.0
	Shock	kN _{0-p} 2.6	4	4	6	6	15
Frequency range		Hz to 4000	to 4000	to 3000	to 4000	to 3000	to 3500
Max. acceleration		m/s ² 1000	625	500	937.5	750	923
Max. velocity		m/s 1.4	1.4	1.4	1.6	1.6	1.8
Max. displacement		mm _{p-p} 15	20	20	20	20	20
Max. payload		kg 30	40	150	40	150	60
Input power		kVA 4.1	6.2	6.2	7.3	7.3	9.8
Armature Mass		kg 1.3	3.2	4.0	3.2	4.0	6.5
Allowable offset load		Nm 26	40	40	60	60	120
Cooling method		Air-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled
Vibration Generator		902-FN	903-FN	903-FN/A	903-FN	903-FN/A	906-FN
Power Amplifier		369A-0101-02	369A-0101-03	369A-0101-03	369A-0101-03	369A-0101-03	369A-0101-06
Console Rack		CRD-1500-02	CRD-1500-03	CRD-1500-03	CRD-1500-03	CRD-1500-03	CRD-2000-06
Armature Size		mm φ80	φ120	φ120	φ120	φ120	□120
Size	Vib. Generator	mm 460Wx490Hx490D	630Wx602Hx528D	630Wx602Hx528D	630Wx602Hx528D	630Wx602Hx528D	720Wx675Hx628D
	Power Amplifier	mm 554Wx1462Hx920D	554Wx1462Hx920D	554Wx1462Hx920D	554Wx1462Hx920D	554Wx1462Hx920D	554Wx2000Hx1010D
	Blower	mm 474.5Wx1040Hx495D	474.5Wx1040Hx495D	474.5Wx1040Hx495D	474.5Wx1040Hx753D	474.5Wx1040Hx753D	474.5Wx1040Hx674D
Mass approx.	Vib. Generator	kg 240	350	350	350	350	520
	Power Amplifier	kg 285	290	290	290	290	420
	Blower	kg 31	31	31	39	39	55

Model		F-6K/30	F-10K/56	F-15K/56	F-22K/60	F-25K/60	F-28K/60
Rated Force	Sine	kN _{0-p} 6.0	10.0	15.0	22.0	25.0	28.0
	Random	kN _{rms} 6.0	10.0	15.0	22.0	25.0	28.0
	Shock	kN _{0-p} 15	25	37.5	55	62.5	70
Frequency range		Hz to 2300	to 3000	to 3000	to 2500	to 2500	to 2200
Max. acceleration		m/s ² 706	667	1000	846	961	848
Max. velocity		m/s 1.8	1.2	1.8	1.8	1.8	1.8
Max. displacement		mm _{p-p} 30	56	56	60	60	60
Max. payload		kg 200	200(300)(★2)	200(300)(★2)	400(500)(★2)	400(500)(★2)	400(500)(★2)
Input power		kVA 9.8	19.3	22.6	26.8	28.4	37.5
Armature Mass		kg 8.5	15.0	15.0	26.0	26.0	33.0
Allowable offset load		Nm 120	500	500	700	700	900
Cooling method		Air-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled
Vibration Generator		906-FN/A	916-BP/LA	916-AP/LA	926-AP/LA	926-AP/LA	936-AP/LA
Power Amplifier		369A-0101-06	369A-0501-16BP	369A-0502-16AP	369A-0503-26AP	369A-0504-26AP	369A-0504-36AP
Console Rack		CRD-2000-06	CRD-2000-16	CRD-2000-16	CRD-2000-26	CRD-2000-26	CRD-2000-36
Armature Size		mm □120	φ230	φ230	φ270	φ270	φ330
Size	Vib. Generator	mm 720Wx675Hx628D	975Wx885Hx700D	975Wx885Hx700D	1106Wx1047Hx855D	1106Wx1047Hx855D	1224Wx1107Hx971D
	Power Amplifier	mm 554Wx2000Hx1010D	554Wx2000Hx1010D	554Wx2000Hx1010D	554Wx2000Hx1010D	554Wx2000Hx1010D	554Wx2000Hx1010D
	Blower	mm 474.5Wx1040Hx674D	707Wx1681Hx908D	707Wx1681Hx908D	707Wx1681Hx908D	707Wx1681Hx996D	707Wx1666Hx1072D
Mass approx.	Vib. Generator	kg 500	1200	1200	2200	2200	3100
	Power Amplifier	kg 420	520	520	520	530	570
	Blower	kg 55	220	220	220	255	260

Model		F-33K/60	F-35K/60	F-40K/60	F-43K/60	F-51K/60	F-60K/60
Rated Force	Sine	kN _{0-p} 33.0	35.0	40.0	43.0	51.0	60.0
	Random	kN _{rms} 33.0	35.0	40.0	43.0	51.0	60.0
	Shock	kN _{0-p} 82.5	87.5	100	107.5	127.5	150
Frequency range		Hz to 2200	to 2200	to 2200	to 2500(★1)	to 2500(★1)	to 2500(★1)
Max. acceleration		m/s ² 1000	1000(★3)	1000(★3)	623	739	869
Max. velocity		m/s 1.8	1.8	1.8	1.3	1.3	1.3
Max. displacement		mm _{p-p} 60	60	60	60	60	60
Max. payload		kg 400(500)(★2)	400(500)(★2)	400(500)(★2)	500	500	500
Input power		kVA 42.2	47.8	57.0	61.8	64.8	68.3
Armature Mass		kg 33.0	33.0	36.0	69.0	69.0	69.0
Allowable offset load		Nm 900	900	900	1200	1200	1200
Cooling method		Air-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled
Vibration Generator		936-AP/LA	936-AP/LA	936-AP/LA	960-AP/LA	960-AP/LA	960-AP/LA
Power Amplifier		369A-0505-36AP	369A-0505-36AP	369A-1006-36AP	369A-1005-60AP	369A-1006-60AP	369A-1008-60AP
Console Rack		CRD-2000-36	CRD-2000-36	CRD-2000W-36	CRD-2000W-60	CRD-2000W-60	CRD-2000W-60
Armature Size		mm φ330	φ330	φ330	φ430	φ430	φ430
Size	Vib. Generator	mm 1224Wx1107Hx971D	1224Wx1107Hx971D	1224Wx1107Hx971D	1452Wx1252Hx1215D	1452Wx1252Hx1215D	1452Wx1252Hx1215D
	Power Amplifier	mm 554Wx2000Hx1010D	554Wx2000Hx1010D	1108Wx2000Hx1010D	1108Wx2000Hx1010D	1108Wx2000Hx1010D	1108Wx2000Hx1010D
	Blower	mm 707Wx1681Hx946D	869Wx1856Hx1094D	869Wx1856Hx1094D	1021Wx2170Hx1149D	1021Wx2170Hx1149D	1021Wx2170Hx1149D
Mass approx.	Vib. Generator	kg 3500	3500	3900	5000	5000	5000
	Power Amplifier	kg 580	600	600	600	650	700
	Blower	kg 260	325	380	400	400	450

※ Input power specification is for 3φ AC200 V 50/60 Hz. ※ Lower limit frequency should be determined by a performance of an available vibration control system.

(★1) The rated force is available up 500 Hz and the force level from 500 Hz to 2500 Hz is 70% of its maximum.

(★2) We will customize per your instructions. (★3) Not a theoretical value, for limiting the maximum acceleration.