

FRAZIER

F2410 Subwoofer - Product Information Sheet

Introduction

The Frazier F2410 subwoofer is designed to extend the low frequency bandwidth of CAT 10, CAT 35 and CAT 40 family loudspeakers to 40 Hz and to increase headroom at low frequencies. Housed in an enclosure of the same width as the CAT 40, the F2410 is visually and acoustically compatible with the CAT 40 family.

Maximum Utility

The F2410 may be set on its end and used as a base for a CAT 40, or the units may be configured together as part of an array. An available internal lowpass crossover filter provides a 120 Hz cutoff, or the unit may be actively crossed over. A complementary highpass filter is available factory-

installed in CAT 40 family loudspeakers..

Acoustic Design

The F2410 consists of a heavy duty 12" cone transducer in a tuned vent (ported) enclosure. Used with an upper cutoff of 120 Hz or less, the F2410 may be placed some distance from the full range system (i.e., on the floor with a flown full range array) without causing localization of sounds to the subwoofer. Alternatively, the F2410 is available with factory-installed suspension systems comprising load-rated threaded rod and Kinedyne pan fittings, for installation as part of an array.

Power Considerations - The power rating used for the F2410 is derived as specified by the AES (AES2-1984). A pink noise signal is clipped to a 2:1 (6dB) peak/RMS ratio and filtered with with low and high pass filters matched to the device bandwidth. This signal is applied to the loudspeaker for a 2 hour period. All appropriate parameters are checked after this exercise to ensure proper performance. The power rating is set as the upper limit of safe operation and is determined by evaluating the RMS voltage applied during the test and the nominal impedance of the loudspeaker. Thus, the power rating = V^2_{rms}/Z_{nom} . This test is run on several production units as a final validation of the rating.

Specifications		Finishes	Black, White, Antiscuff
Bandwidth	30Hz-500Hz +/- 3 dB	Model Numbers	
Power Handling	200 Watts (See Above)	Black Textured Finish	F2410
Sensitivity (2.83vrms/1m)	94 dB SPL	White Textured Finish	F2412
Impedance (Nominal)	8Ω	Scuff-Resistant Finish	F2415
Transducers	1 ea. 12"(205mm) LF		
Crossover Frequency	120 Hz (w/optional LP installed)		
Input Connection	Terminal cup (Neutrik Speakon optional)		
Weight	68lb (31 kg)		
Dimensions	28"H x 17-5/8"W x 14"D (711mm x 448mm x 356mm)		
Construction	MDF		

Call for .dxf CAD files and mechanical drawings.
Specifications are subject to change without notice.

F2410

Form 2410R497

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