TECHNICAL SPECIFICATIONS FL103

DESCRIPTION

A 3-way full range system in a dual vent, trapezoidal enclosure. Includes a 15-in woofer (vented), a 7-in midrange cone (separated vented subenclosure) and a 1-in exit compression driver on a Wave Guide Plate™. Powering mode is switchable: passive (3-way crossover) or biamplified (passive MF/HF crossover).

APPLICATIONS

The FL103 delivers extremely high output and studio fidelity from a compact enclosure. True 3-way design dramatically improves the quality of speech reproduction. Midrange venting smooths response at LF/MF crossover. Low "Q" provides exceptionally natural reproduction in permanent or portable applications demanding the highest quality sound. Comprehensive mounting/suspension hardware. Six year warranty.

Applications include:

Concert Halls	Recital Halls
Theaters	MultiMedia
Small HOW's	Live Music Club

DESCRIPTIVE DATA

Part Number	999066
Product Group	J
LF Subsystem & Loading	1x 15-in, Vented
MF Subsystem & Loading	1x 7-in Cone in Vented Subenclosure
HF Subsystem & Loading	1x 1-in Exit Compression Driver on Wave Guide Plate™
System Configuration	3-way, Full Range
Powering Configuration(s)	Switchable: Full Range (passive LF/MF/HF crossover) or Biamplified (passive MF/HF crossover)
Controls (switches, knobs)	Powering Mode Switch
Recommended High-Pass Frequency (24 dB/Octave)	30Hz
Cabinet Type (shape)	Trapezoidal
Enclosure Materials	Baltic Birch Plywood
Finish	Black Catalyzed Polyurethane
Connectors	2 Neutrik NL4 Speakon
Suspension Hardware	6x 3-position flytracks (2 each on top, bottom and back), 12x 3/8"-16 threaded mounting/suspension points (3 each top and bottom, 2 each sides and back) stand mount cup (bottom)
Grill	Vinyl Coated Perforated Steel
Options	CCEP Config MX200i-FL103 (biamped mode) MX300i-FL103 (w/ SB528) MX300i-FLS18 (w/ SB180) 179001 Flyclip with ring 179002 Flyclip with hook

NOMINAL DATA

Frequency Response (Hz)		
±3 db	50Hz to 18kHz	
-10 dB	38Hz	
Axial Sensitivity (dB SPL/1 Watt/1m)		
Full Range	95	
Biamped MF/HF	95	
Biamped LF	95	
Impedance (Ohms)		
Full Range Passive	8	
Biamped MF/HF	8	
Biamped LF	8	
Power Handling, AES Standard (Watts)		
Full Range	500	
Biamped MF/HF	500	
Biamped LF	800	
Calculated Maximum Output (dB SPL, @ 1m)		
Full Range Peak	128.0	
Biamped MF/HF Peak	128.0	
Biamped LF Peak	130.0	
Full Range Long Term	122.0	
Biamped MF/HF Long term	122.0	
Biamped LF Long Term	124.0	
Nominal Coverage Angle / -6 dB points (degrees)		
Horizontal	100	
Vertical	100	
Recommended Complementary Systems		
Sub	SB180/SB528	
Dimensions	**inches**	**millimeters**
Height	24.625	625
Width	19.75	502
Depth	19.75	502
Back Width	12.75	324
Trapezoid Angle	10 degrees per side	
Weights	**pounds**	**kilograms**
Net Weight	111	50.5
Shipping Weight	118	53.7

EAW
EASTERN ACOUSTIC WORKS
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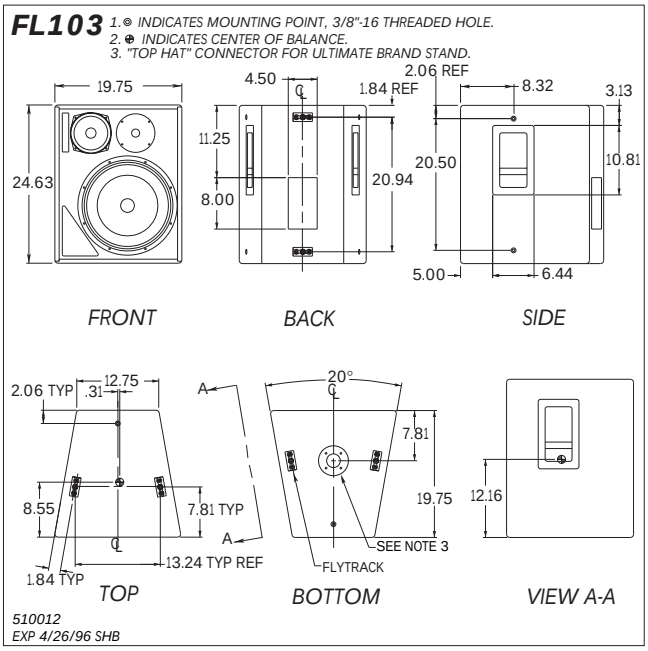
DIMENSIONAL DRAWING



SERVICE ITEMS

LF: Complete Cone Driver	
EAW Part No.	804055
MF: Complete Cone Driver	
EAW Part No.	804050
HF: Complete Compression Driver/Tweeter	
EAW Part No.	803001
Filter/Crossover Network: Complete Assembly	
EAW Part No.	225068

ARCHITECTURAL SPECIFICATIONS

The three-way full range loudspeaker systems shall incorporate a 15-in LF transducer, a 7-in cone MF transducer and a 1-in exit compression driver HF transducer.

The LF driver shall be mounted in a vented enclosure tuned for optimum low frequency response. The MF driver shall be mounted in a vented subenclosure. The HF driver shall be loaded on an axis-symmetrical wave guide plate with a nominal coverage pattern of 100° (conical). An internal passive filter network shall provide fourth order acoustical crossover and system equalization.

System frequency response shall vary no more than ±3 dB from 50 Hz to 18 kHz measured on axis. In passive mode, the loudspeaker shall produce a Sound Pressure Level (SPL) of 95 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 128 SPL on axis at 1 meter. The loudspeaker shall handle 500 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 Ohms.

In biamped mode, the passive mid/high section shall meet all passive mode performance criteria. In biamped mode the LF section shall produce a Sound Pressure Level (SPL) of 95 dB on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 130 SPL on axis at 1 meter. The LF section in biamped mode shall handle 800 Watts of amplifier power and shall have a nominal impedance of 8 Ohms.

The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of 15mm thickness void-free cross-grain-laminated Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in black catalyzed polyurethane. Input connectors shall be dual Neutrik NL4 Speakon. The system shall include a switch allowing in to be operated in biamp or passive Powering mode. A total of six 3-position flytracks (2 each on top, bottom and back) plus twelve 3/8"-16 threaded mounting/suspension points (3 each top and bottom, 2 each sides and back) shall be provided. The system shall include a recessed cup to accept a standmount pole. The front of the loudspeaker shall be covered with a vinyl coated perforated steel grill.

The three-way full range loudspeaker shall be the EAW model FL103.

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