AE-9

Concert Loudspeaker System

Description:

The AE-9 is a bi-amped, three-way system offering exceptional power handling, smooth frequency response, and predictable directional control. It can be easily positioned in spaces that are too small for other horn-loaded systems, and is fully arrayable.

Driver Complement:
Low Frequency: One Apogee 15"(381mm) permanent magnet cone-type driver is treated with a waterproofing compound, providing resistance to moisture, and enabling long-term stability of cone resonance and cone mass parameters

Mid Frequency: One Apogee 10"(254mm) midrange cone driver is treated with a waterproofing compound (SX only*)

High Frequency: One Apogee 1"(25mm) compression driver tweeter is treated with Ferrofluid® for greater power handling capability, lower distortion, and control of short-term impedance rise

Compatible Processors:
DLC24 Digital Controller

Input Connectors:
Neutrik™ NL4MP Speakon™ connectors standard; Cannon EP series and gas-tight barrier strips optional

Handles:
Ten handles designed as an integral part of the enclosure (no moving parts)

Grille:
Powder-coated, diamond-punched steel with acoustic foam covering

Trim:
Optional protective steel pieces on top and bottom ends; powder-coated for durability

Rigging Hardware:
Six 12-gauge steel nutplates, mounted three on top and three on bottom, recessed, nominally flush; accepts 3/8"-16 thread (10mm nutplate or Aeroquip Pan fittings optional); nutplates are backed with 12-gauge steel internal brackets

Finish:
Textured high-strength black epoxy paint; other colors optional

Enclosure Type:
20° trapezoidal, fully horn-loaded, vented bass

Cabinet Construction:
Multi-ply birch with stainless steel fasteners

* SX weather treatment for harsh environments

Engineering Data:

Format:
Bi-amped/Three-way/Electronically-coupled

Dispersion:
H: 60° x **V:** 40°

Frequency Response (1m on axis):
44 Hz to 17 kHz ±3 dB

Max. SPL (@1m):
126 dB cont./132 dB peak

PTML (peak transient mechanical limit):
144 dB

Sensitivity (1W @ 1m):
LF: 98 dB/44 Hz to 300 Hz
MF & HF: 101.5 dB/300 Hz to 17 kHz

Nominal Impedance:
8 ohms, each driver

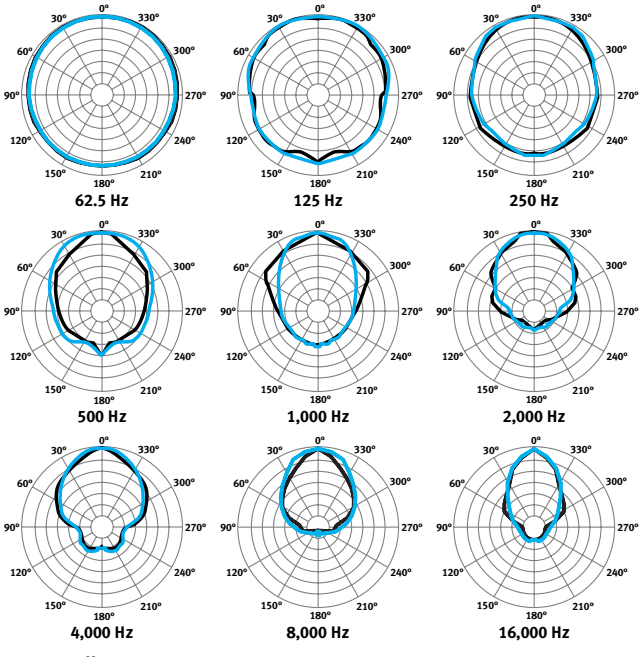
Max. Power Handling:
LF: 500W cont./1800W peak
MF: 300W cont./1200W peak
HF: 75W cont./300W peak

Dimensions:
front: 22"(559mm) W x 38"(965mm) H
rear: 15"(381mm) W x 38"(965mm) H
depth: 23"(584mm) D

Weight:
145 lb. (65.8 kg)

APOGEE SOUND INTERNATIONAL

Polar Measurements AE-9 (6 dB/division, normalized)

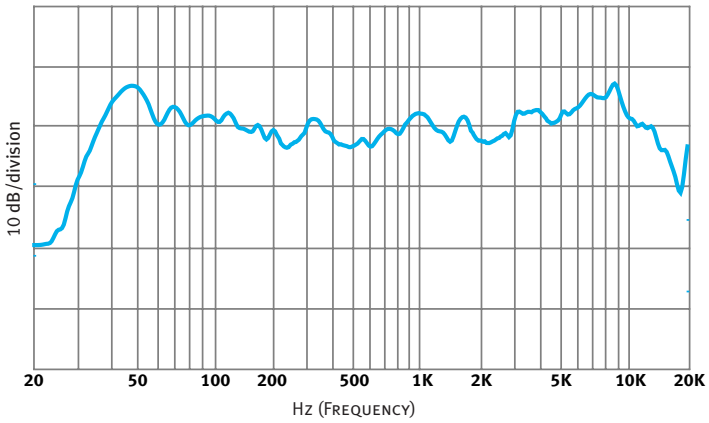


Horizontal

Vertical

All polar measurements obtained in a free-field environment at 10° increments.

Frequency Response AE-9 (with controller)



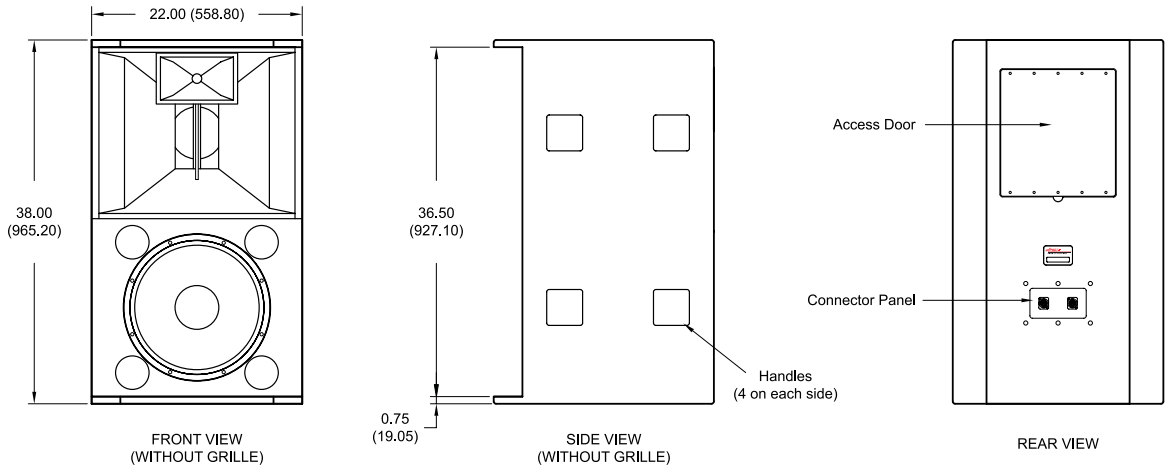
Measured in a free-field anechoic environment using a swept one-third octave input.

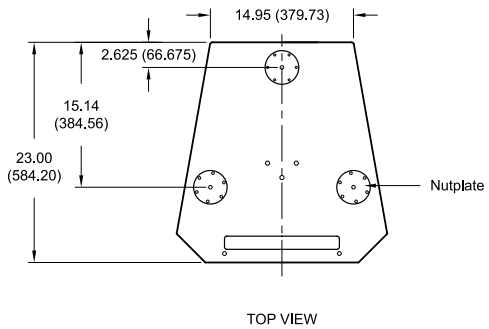
Processor Notes:

The DLC24 Digital Loudspeaker Controller is a digital engine with an analog surface. It combines the most advanced technology available with intuitive interfaces to provide the key elements that ensure optimal loudspeaker system performance and management in a variety of live sound and fixed installation applications.

The controller provides factory-set equalization curves to smooth the response, protective limiting, and active crossovers (for bi-amplified models and subwoofers).

Dimensional Drawings AE-9 (dimensions in inches and millimeters)





APOGEE SOUND INTERNATIONAL

50 Spring Street, Ramsey, NJ 07446, USA

Tel: 800-443-3979• Fax: 800-999-9016 • www.apogee-sound.com