



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 20 kHz ±3 dB

MAX. SPL (@1M):

127 dB cont./133 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: 600W cont./2400W peak

MF: 400W cont./1600W peak

HF: 75W cont./300W peak

DIMENSIONS:

front: 22" (559mm) W x 38" (965mm) H

rear: 15" (381mm) W x 38" (965mm) H

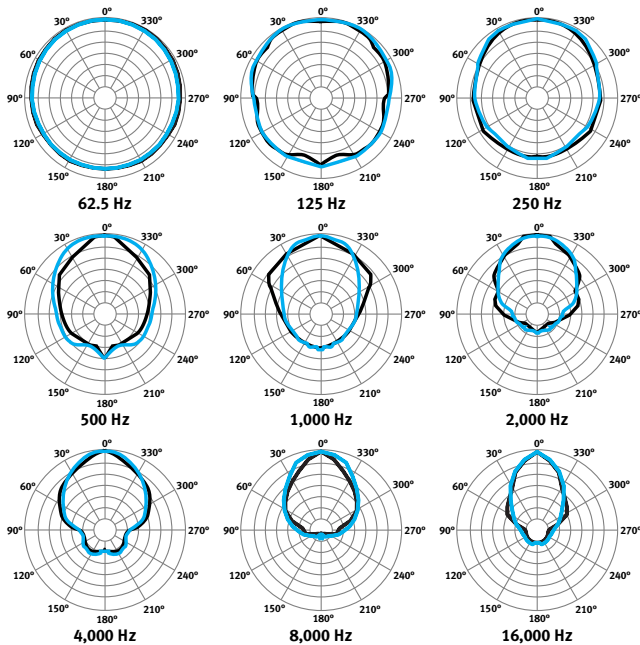
depth: 23" (584mm) D

WEIGHT:

145 lb. (65.8 kg)

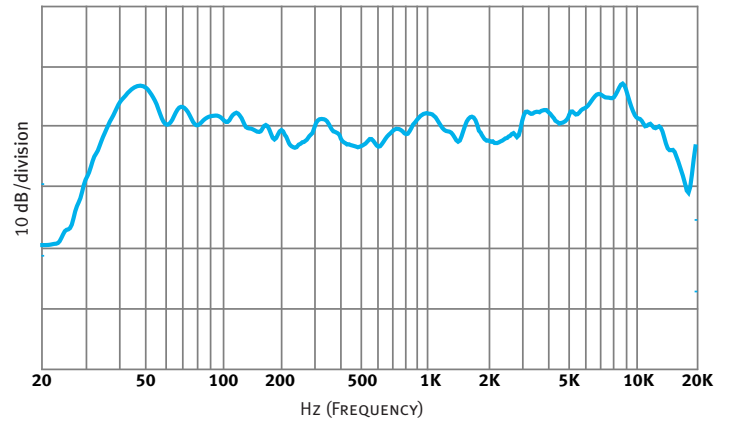
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POLAR MEASUREMENTS AE-9 (6 dB/division, normalized)



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

FREQUENCY RESPONSE AE-9 (with controller)



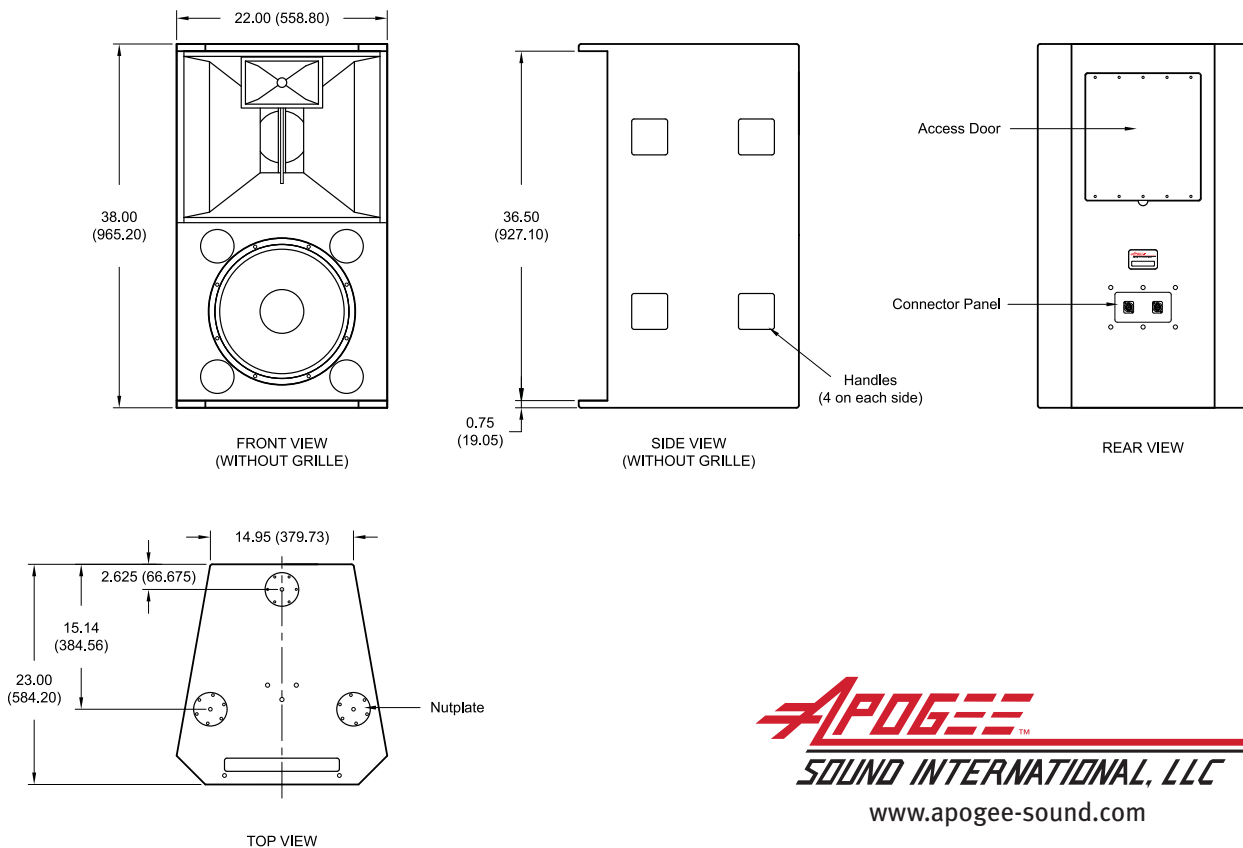
Measured in a free-field anechoic environment using a swept one-third octave input.

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)



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