

ALA-C1

LINE ARRAY LOUDSPEAKER SYSTEM

The **Apogee ALA-C1 Line Array Loudspeaker** is a high-fidelity, 70V/8-ohm, passive, 2-way fixed column, all-weather, indoor/outdoor loudspeaker designed for superior quality speech enhancement and music reproduction in small- to medium-sized venues, such as school and civic auditoriums, community theaters, lecture halls, and houses of worship.

The design offers extremely broad, horizontal dispersion (140-degrees) and focused vertical dispersion (25-degrees) – which is ideal for uniform side-to-side coverage, while minimizing ceiling and floor reflections that could degrade intelligibility.

DESCRIPTION

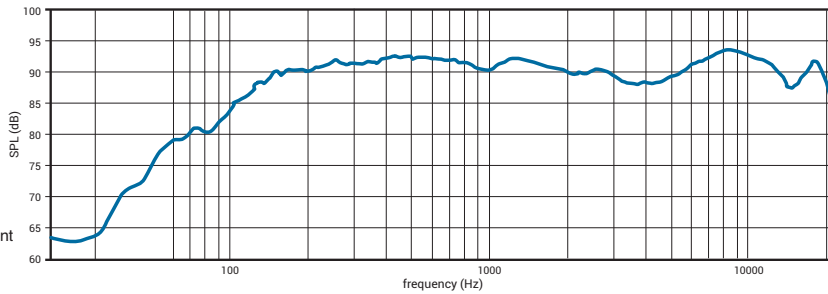
- 43" (110cm) line array
- Powder coated 6063-T5 extruded aluminum alloy enclosure with internal ribs
- 6 x 1" metal alloy diaphragm tweeters with Ferrofluid damping, UV and chemical resistant rubber surrounds, corrosion-resistant magnets
- 9 x 4" metal alloy diaphragm woofers, with Ferrofluid voice coil guidance, UV and chemical resistant rubber surrounds
- 70V transformer built-in, with bypass for 8-ohm operation
- IP65-rated for use in any environment

ARCHITECT AND ENGINEER SPECIFICATIONS

ALA-C1

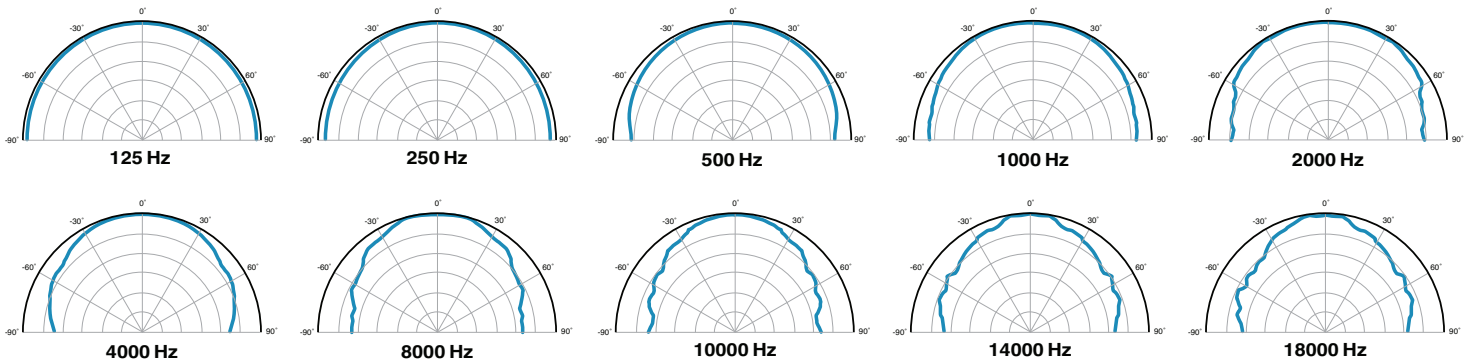
The speaker shall be an Apogee Sound ALA-C1 Column Line Array Speaker utilizing nine 4" anodized Ferrofluid cooled woofers and six 1" Ferrofluid cooled alloy high frequency drivers. The unit shall have a minimum continuous SPL of 118 dB and maintain useful vertical pattern control down to 250Hz. Overall coverage angle shall be 140 degrees horizontal and 25 degrees vertical. Frequency response shall be 150Hz to 18kHz ± 3 dB. The speaker shall be fully weatherized with an IP65 rating. Connectivity shall be via 9.8 ft.(3-meter) long pig-tail cable with an internally mounted 128W transformer with taps at 8, 16, 32, 64, and 128 watts, plus a transformer bypass for 8-ohm operation. Mounting shall be via an included bracket which allows for vertical down tilt of 0, 5, and 10 degrees. The speaker shall be available in white or black with a 43" x 6" x 8.6" enclosure made of extruded aluminum.

FREQUENCY RESPONSE



POLAR MEASUREMENTS

All polar measurements obtained in a free-field environment at 5° increments. (6 dB/divisions, normalized)



SPECIFICATIONS

Dispersion (1M on axis):

140° H x 25° V

Frequency Response (1M on axis):

150Hz - 18kHz (+/- 3 dB)

Sensitivity (1W @ 1M):

93dB

Max. Power Handling (@8-Ohms):

400W Continuous/800W Peak

Max. SPL (@1M):

118dB Continuous/121dB Peak

70V Transformer Taps:

128W, 64W, 32W, 16W, 8W @ 70V

Inputs:

8-conductor (stripped & tinned)
9.8' (3-meter) long pig-tail cable
included

Mounting:

Vertically adjustable (0°, 5° and 10°) ball
bracket and safety cable included

Dimensions:

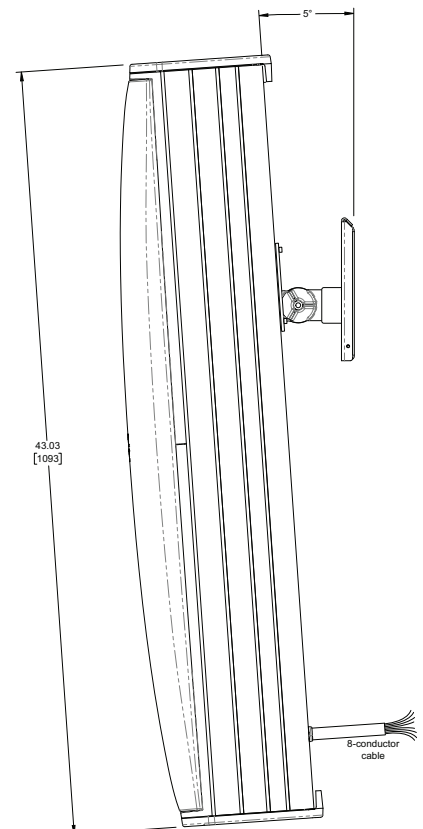
43" x 6" x 8.6" (110 X 15 X 22.6 cm)

Weight:

46.8 lbs (21.23 kg)

Colors:

Black (ALA-C1B), White (ALA-C1W)



APOGEE
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