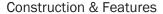


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Model No.

4A30 Premium 4" 30W Coaxial Driver

Part of the premium "A Series" driver line, the 4A30 represents a deliberate step up in sound quality and performance over standard commercial coaxial drivers, providing excellent voice and music re-production over a large coverage area. With smooth musical sound, wide dispersion (135 degrees) and small architectural footprint, the 4A30 is engineered for very high quality paging and background music in hotel lobbies, stores, terminals and similar venues where clear, intelligible communication with accurate reproduction is key.



- 30W coaxial 4" (EIA 5") driver has the capacity to deliver a wide angle of sound distribution at 2kHz with uniform response and clear audibility to ensure complete coverage with minimum units.
- Includes 10 oz. magnet, 1" copper voice coil, and polypropylene cone with half-roll rubber surround for long cone travel and good edge damping.
- Post-mounted liquid-cooled tweeter is a 1" diameter balanced drive dome with first order high-pass filter.
- Frequency response is 71Hz-20kHz (+6dB); 50Hz-20kHz (±8.8dB); with a crossover at 5kHz.
- Stamped 20-gauge steel frame with black enamel paint finish and zinc plated backplate.

A&E Specifications

The coaxial 4" (EIA 5") driver shall be AVLELEC Model 4A30. It shall have a high frequency transducer (tweeter with 1" dia. balanced drive dome) and low frequency transducer (4" dia. polypropylene cone). A built-in electrical crossover network shall be employed for proper frequency divisions. Crossover frequency shall be at 5kHz with a first order high-pass filter. The 4A30 shall be capable of pro-ducing a uniform audible frequency response over the range of 71Hz-20kHz (±6dB); 50Hz-20kHz (±8.8dB) with dispersion angle of 135 degrees @2000Hz -6dB. Average sensitivity shall measure



88.0dB (SPL at 1W/1M). Power rating shall be 30 watts (EIA 426B). The low frequency voice coil shall have 1" diameter and operate in a magnetic field derived from a ferrite (ceramic) magnet with nominal weight of 10 oz. The high frequency voice coil shall have a 0.53" dia. and operate in a magnetic field derived from a Neodymium magnet with nominal weight of 0.06 oz. Voice coil impedance shall be 8 ohms. The assembly shall have a round, structurally reinforced, stamped 20-gauge steel frame to maintain precise mechanical alignment. Overall diameter shall be 5" with four round and four obround holes equally spaced on a 4.688" dia. mounting bolt circle. Mounting depth shall not exceed 2.25". External metal parts shall be finished in black enamel paint or zinc plating.



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Technical Information

PFR	FORN	1Α1	VCF
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Power Rating 30 watts (EIA 426B)

88.0dB SPL (avg) measured 2.83V @ 1m Sensitivity

Max SPL 102.8dB (calculated value based on power rating and

measured sensitivity) 8 ohms (nominal), minimum 6.4 ohms @508Hz

Impedance 71Hz-20kHz (<u>+</u>6dB); 50Hz-20kHz (<u>+</u>8.8dB) 5000Hz, 1st order high-pass filter Frequency

Response 135 degrees @ 2000Hz octave (-6dB) Crossover

Frequency **Dispersion Angle**

PHYSICAL -WOOFER

Cone Material Polypropylene with rubber half-roll (up) surround

Magnet Weight, Material 10oz. (283g), ferrite ceramic

Voice Coil Diameter. 1 inch (25mm), copper wire over aluminum

Material Terminals

Quick connect type - two 0.187" spade lugs (push

terminals) PHYSICAL - TWEETER

Diameter 1.75 inch (44.5mm) housing with 1 inch (26mm) Dia. balanced-drive dome 0.06oz. (1.8g), neodymium magnet Magnet Weight, 0.5 inch (14mm), liquid cooled copper wire

Material Voice Coil Diameter, Material

MECHANICAL

Basket 20-gauge stamped steel with black enamel paint

Outside 5.03 inch (128mm)

4.688 inch (119mm) with 4 obround holes spaced at 90 degrees, and Diameter

4 round holes spaced at 90 degrees Mounting Bolt

4.125 inch (105mm) Circle

2.25 inch (57mm) 1.75 lbs. (0.79kg) Cutout Diameter

Mounting Depth Net Weight

Test Methodology

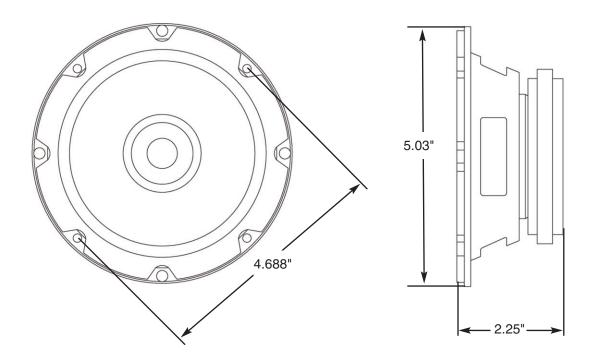
AVLELEC speaker systems are thoroughly tested to provide specifiers and contractors with solid, accurate data. Test equipment includes the GoldLine TEF-20 analyzer.

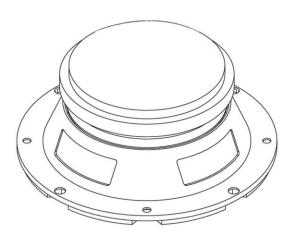
- Power Rating: specification is based on E.I.A. Standard RS-426B.
- Frequency Response: describes the usable response range defined by a +6dB window, which is useful in predictive en-gineering calculations.
- Sensitivity: is a computer calculation of the log average sound pressure level (SPL) over the entire engineering bandwidth as given in the Frequency Response +6dB.
- Maximum SPL: is calculated based on the Power Rating and the measured log average Sensitivity where Maximum SPL = (Sensitivity @ 1W1M) + 10 log (Power Rating).
- Dispersion Angle: is defined as the angle of coverage that is no more than 6dB down from the onaxis value averaged over the 2kHz octave band. Since speech intelligibility is dependent upon the 2kHz octave, this specification is useful in designing voice reinforcement and music systems that provide even coverage and intelligibility.



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Drawings

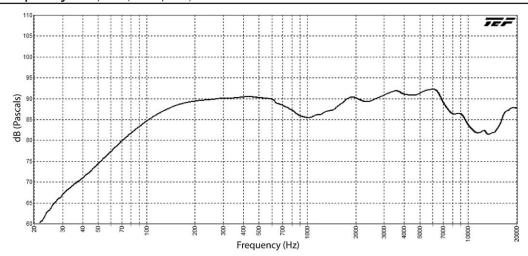




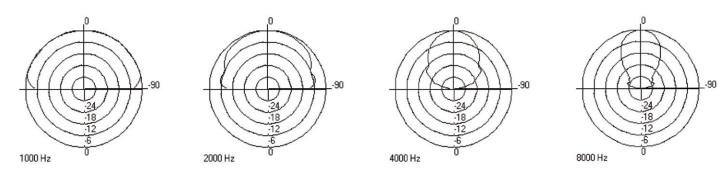


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SPL vs. Frequency 1W/1M (half space) On-axis



Polar Data (half space)



Impedance

