Series No.

# 4A30 Series



## Premium 4" Coaxial Driver w/Transformer Option

Lowell 4A30 Series represents a deliberate step up in sound quality and performance over standard commercial coaxial drivers, providing excellent voice and music reproduction over a large coverage area. With smooth musical sound, wide dispersion (135 degrees) and small architectural footprint, this series 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.

## FEATURES

- 4" (EIA 5") 30W coaxial 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.
- Stamped 20-gauge steel frame with black enamel paint finish and zinc plated backplate.
- OPTIONAL: Factory wired 70V transformer with primary taps at 8, 4, 2, and 1W

## A&E SPECIFICATIONS - 4A30

The coaxial 4" (EIA 5") driver shall be Lowell 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 producing a uniform audible frequency response over the range of 81Hz-20kHz (+6dB); 50Hz-20kHz (+8.1dB) with dispersion angle of 135 degrees @2000Hz -6dB. Average sensitivity shall measure 87.8dB (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 4.66" dia. mounting bolt circle. Mounting depth shall not exceed 2.25". External metal parts shall be finished in black enamel paint or zinc plating.

*NOTE: Model 4A30 is not TAA Compliant.*

## A&E SPECIFICATIONS - 4A30-T870-S

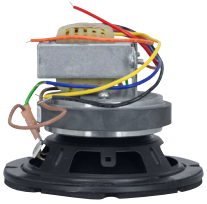
Lowell Model 4A30-T870-S shall include a 4" driver, 70V transformer and grille. The driver shall be of the coaxial type with high and low frequency transducers. Low frequency section shall have a 4" dia. polypropylene cone; high frequency section shall have a tweeter with a 1" dia. balanced-drive dome. Built-in crossover network shall be employed to accomplish proper frequency division between the two drivers. Crossover frequency shall be at 5kHz with first order high-pass filter. It shall be capable of producing a uniform audible frequency response over the range of 81Hz-20kHz (+6dB) and 50Hz-20kHz (+8.8dB) with dispersion angle of 135 degrees @2000Hz (-6dB). Average sensitivity shall measure 88.0dB (SPL at 1W/1M). Rated power handling shall be 30W (EIA 426B). The 1" dia. low frequency voice coil shall operate in a magnetic field derived from a ferrite (ceramic) magnet with nominal weight of 10oz.; the 0.53" dia. high frequency voice coil shall operate in a magnetic field derived from a Neodymium magnet with 0.06oz. nominal weight. Voice coil impedance shall be 8 ohms. Frame shall be structurally reinforced stamped 20-ga. steel with 5" overall dia., 4 round and 4 obround holes equally spaced on 4.66" dia. mounting bolt circle. External metal parts shall be finished in black enamel paint or zinc plating to resist rust/corrosion. Factory-mounted transformer shall have primary taps at 8, 4, 2, 1W and frequency response of 50Hz-15kHz (+1dB). The driver/transformer shall be made in USA with US and global components and shall be Trade Agreements Act (TAA) compliant.

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# 4A30 SERIES OVERVIEW







| MODEL | 4A30 | 4A30-T870-S |
|---|---|---|
| **Driver / Size** | 4-inch (EIA 5-inch) | 4-inch (EIA 5-inch) |
| **Driver Type** | Coaxial 8ohm | Coaxial 8ohm |
| **Magnet** | 10-oz. (woofer), ceramic; 0.06 oz. (tweeter) | 10-oz. (woofer), ceramic ; 0.06 oz. (tweeter) |
| **Voice Coil** | 1-in. dia., copper wire | 1-in. dia., copper wire |
| **Power Rating** | 30W RMS | 30W RMS |
| **Transformer** | --- | 70V |
| **Primary Taps** | --- | 1, 2, 4, and 8W |
| **Frequency Response** | 81Hz–20kHz (±6dB)<br>50Hz–20kHz (±8.1dB) | 81Hz–20kHz (±6dB)<br>50Hz–20kHz (±8.8dB) |
| **Average SPL** | 87.8dB (@1W/1M) | 88.0dB (@1W/1M) |
| **Maximum SPL** | 102.6dB<br>*Calculated based on power rating and measured sensitivity.* | 97.0dB<br>*Calculated value 1M @ maximum transformer tap (8W).* |
| **Dispersion Angle** | 135 degrees conical<br>@2kHz octave (-6dB) | 135 degrees conical<br>@2kHz octave (-6dB) |
| **Mounting Depth*** | 2.25 inches | 3.75 inches |
| **Outside Diameter** | 5.00 inches | 5.00 inches |
| **Net Weight** | 1.75 lbs. | 2.7 lbs. |
| **Compliance** | -- - | Trade Agreements Act (TAA) |

** Mounting Depth: Minimum depth required for assembly to be rear-mounted to grille in an enclosure.*

***NOTE ON SPEAKER SPACING:*** *Conical dispersion measurements are provided for comparison with other speakers. To determine correct speaker spacing, see the technical paper "Distributed System Speaker Spacing for the Integrator" (www.Lowellmfg.com) which explains the difference between conical and linear dispersion and the measurements to use for best results online under Resources – White Papers. For quick calculations, a calculator for speaker spacing is also available online under Resources – Interactive Tools.*

**YOU MAY ALSO LIKE SPEAKER ASSEMBLIES: Featuring Driver 4A30 factory mounted with transformer and grille**

## Model WB4-4A30-T870-S



DRIVER (4A30): 4-inch coaxial
- Power Rating: 8ohm 30W
- Magnet Weight: 10 oz. (woofer), 0.06 (tweeter)

TRANSFORMER (TLM-870A):
- Power Rating: 70V
- Taps: 1, 2, 4, 8W

GRILLE (WB-4): White screw-mount

ASSEMBLY SPECIFICATIONS:
- Frequency Response: 70Hz-20kHz (±6dB), 50Hz-20kHz (±8.8dB)
- Dispersion: 135° conical (-6dB) @2000Hz Octave
- Sensitivity: 88.0dB average SPL
- Max SPL: 97.0dB *
- Mounting Depth: 3.75-inch **

## Model WB4T-4A30-T870



DRIVER (4A30): 4-inch coaxial
- Power Rating: 8ohm 30W
- Magnet Weight: 10 oz. (woofer), 0.06 (tweeter)

TRANSFORMER (TLM-870A):
- Power Rating: 70V
- Taps: 1, 2, 4, 8W

GRILLE (WB-4T): White torsion-mount

ASSEMBLY SPECIFICATIONS:
- Frequency Response: 70Hz-20kHz (±6dB), 50Hz-20kHz (±8.8dB)
- Dispersion: 135° conical (-6dB) @2000Hz Octave
- Sensitivity: 88.0dB average SPL
- Max SPL: 97.0dB *
- Mounting Depth: 4.50-inch **

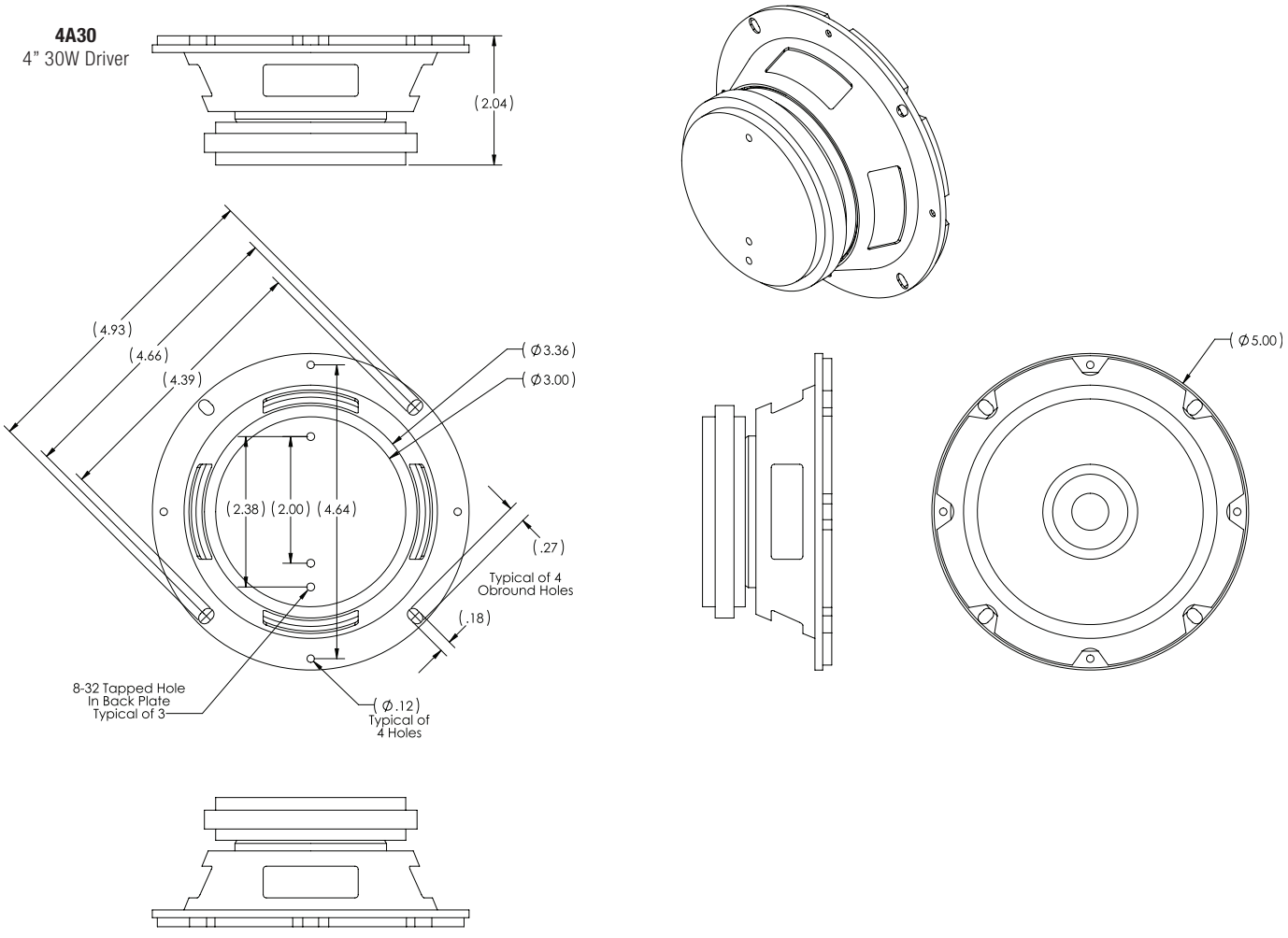
** Calculated value 1M @ maximum transformer tap (8W).*
*** Minimum depth required for assembly to be rear-mounted to grille in an enclosure. Transformer if included is factory-mounted to basket with special bracket.*


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# TECHNICAL DRAWINGS

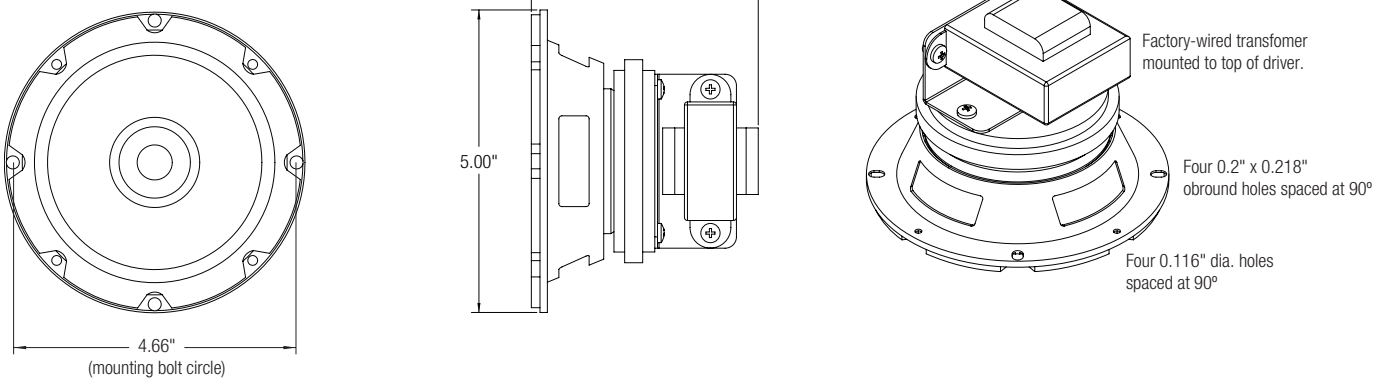
*Dimensions are inches and [mm] unless stated otherwise.*

**4A30**
4" 30W Driver




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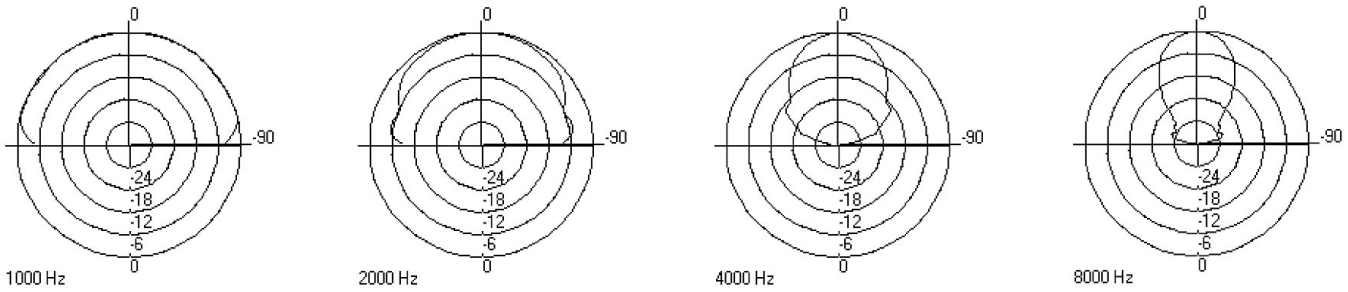
**4A30-T870-S**
4" 30W Driver
70V 8W Transfomer



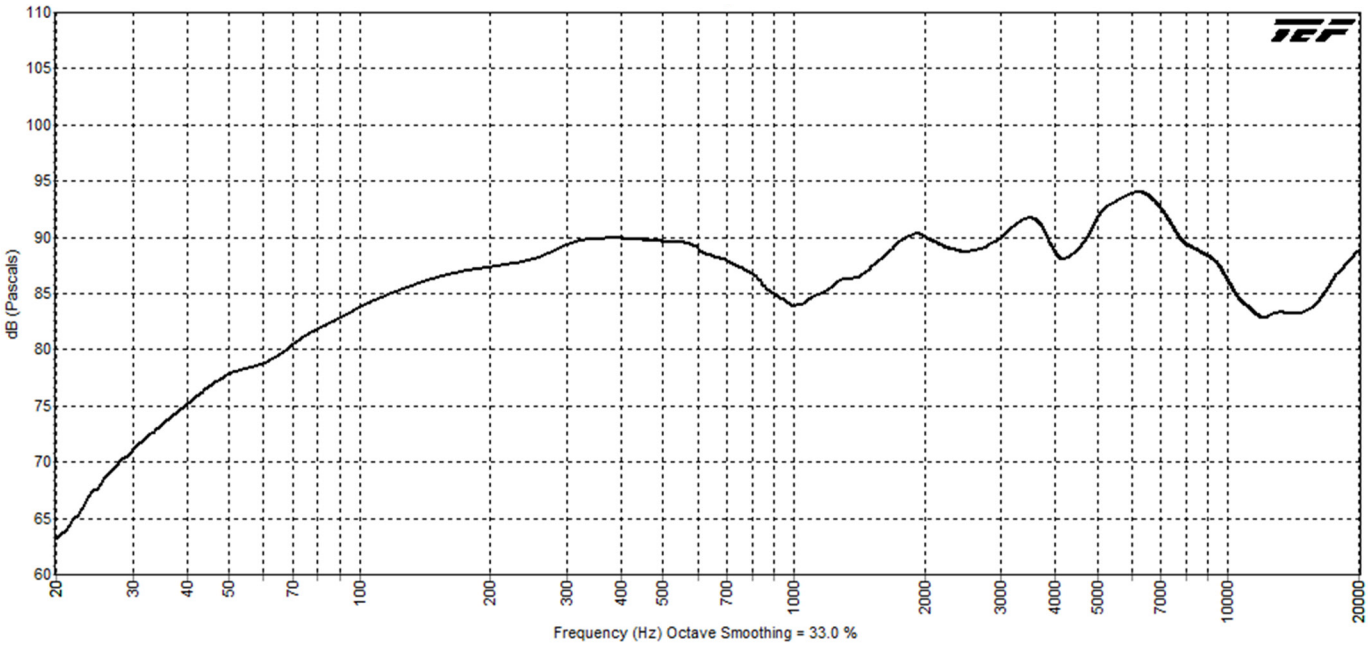

**FRONT** **SIDE** **REAR**

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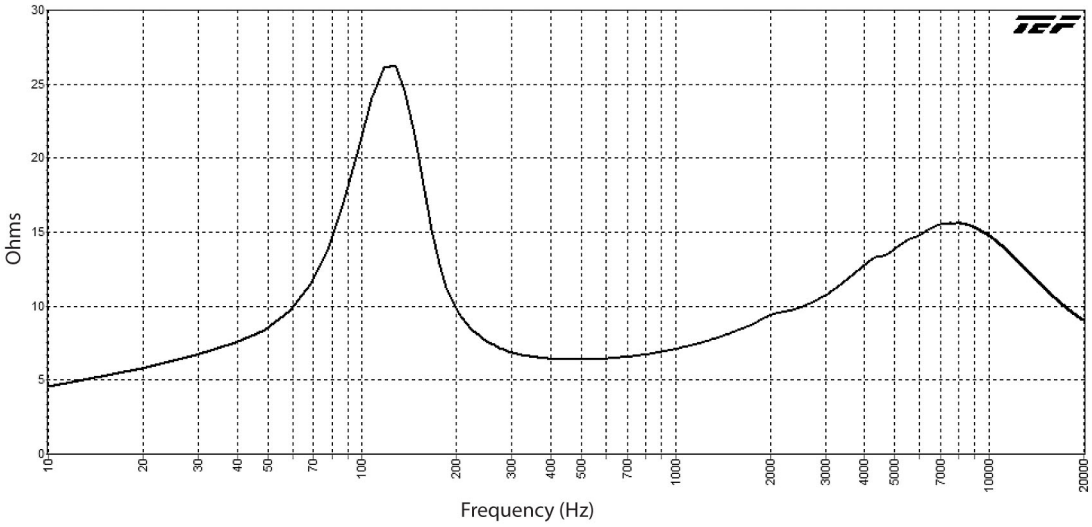
## 4A30 DRIVER – POLAR DATA 3600 (FULL SPACE MOUNTING):




## 4A30 DRIVER – SPL VS. FREQUENCY (1W/1M):




## 4A30 DRIVER – IMPEDANCE:




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# 4A30 DRIVER – SPECIFICATIONS

PERFORMANCE:

| | |
|---|---|
| Power Rating | 30 watts (EIA 426B) |
| Sensitivity | 87.8dB SPL (avg) measured 2.83V @ 1m |
| | Max SPL 102.6dB (calculated value based on power rating and measured sensitivity) |
| Impedance | 8 ohms (nominal), minimum 6.4 ohms @508Hz |
| Frequency Response | 81Hz-20kHz (+6dB); 50Hz-20kHz (+8.1dB) |
| Crossover Frequency | 5000Hz, 1st order high-pass filter |
| Dispersion Angle | 135 degrees @ 2000Hz octave (-6dB) |

PHYSICAL – WOOFER:

| | |
|---|---|
| Cone Material | Polypropylene with rubber half-roll (up) surround |
| Magnet Weight, Material | 10oz. (283g), ferrite ceramic |
| Voice Coil Diameter, Material | 1 inch (25mm), copper wire over aluminum former |
| 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 |
| Magnet Weight, Material | 0.06oz. (1.8g), neodymium magnet |
| Voice Coil Diameter, Material | 0.5 inch (14mm), liquid cooled copper wire |

MECHANICAL:

| | |
|---|---|
| Basket | 20-gauge stamped steel with black enamel paint |
| Outside Diameter | 5 inch (127mm) |
| Mounting Bolt Circle | 4.66 inch (118mm) with 4 obround holes spaced at 90 degrees, and 4 round holes spaced at 90 degrees |
| Cutout Diameter | 4.125 inch (105mm) |
| Mounting Depth | 2.25 inch (57mm) |
| Net Weight | 1.75 lbs. (0.79kg) |

**TEST METHODOLOGIES**

Lowell 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 EIA Standard RS-426B.
- Frequency Response: describes the usable response range defined by a +6dB window, which is useful in predictive engineering 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 on-axis 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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