



PEAVEY[®]
ARCHITECTURAL ACOUSTICS™

A/A SERIES™

Acoustical Components High Performance Woofers

SPECIFICATIONS

Architectural Acoustics now offers to the sound contracting industry a line of premium grade low frequency loudspeakers. These state of the art woofers feature the combination of a Kevlar®* impregnated cone and a highly refined magnet structure to provide outstanding efficiency, reliability, and performance. The Kevlar impregnated cone is stiffer than an equivalent weight paper cone, reducing the tendency of the cone to distort the shape of the voice coil, thus avoiding rubs and scrapes. Superior power handling results from the increased stiffness, especially with large violent cone excursions. This cone also offers lower distortion than a paper cone due to a greater dampening of unwanted cone vibrations. The piston action of the Kevlar impregnated cone is extended to a higher frequency, while the range above is better controlled with a reduction in vibrational break-up.

The magnet structure of the new woofers has been engineered with an advanced geometry pole piece, providing both higher power handling and lower distortion than more conventional structures. Our exclusive one piece die-cast back

plate/pole piece eliminates an undesirable "air gap" in the magnetic circuit, enhancing efficiency and reliability. In the unlikely event of the failure of a loudspeaker, the cone/basket assembly is field replaceable with a factory assembled and tested replacement basket assembly. The benefits of increased customer satisfaction and reduced inventory costs for replacement and repair are immediately apparent.

Along with these state of the art aspects, these woofers also provide the features expected in a professional application loudspeaker: a 4" edgewound aluminum ribbon voice coil wound on a Kapton™* former for high efficiency; a die-cast aluminum alloy frame for exacting lifelong alignment of the assembly; an extra large vent in the magnet structure for superior cooling and linearity at high drive levels; and heavy-duty spring loaded input terminals adhering to industry standards for color coding. These fine woofers afford new opportunities in difficult installations which demand the highest performance.

A/A SERIES™ ACOUSTICAL COMPONENTS — WOOFERS

A/A-1218™

The A/A-1218™ offers superior sensitivity and power handling in a 12" woofer, providing exceptional performance in compact spaces and the ultimate in system design versatility. This model can also be used to provide outstanding mid-bass performance in a multi-way system.

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The low frequency transducer shall have a nominal diameter of 12 inches, with an overall front mounting depth not greater than 3 17/32 inches, and a weight not to exceed 16 lbs. The frame shall be of cast aluminum alloy and the magnet assembly shall utilize a 96 oz. nominal weight ferrite magnet and produce a substantially symmetrical magnetic field at the voice coil. The voice coil shall be 4 inches in diameter and shall be made of edgewound aluminum ribbon connected via voice coil leadouts of beryllium-copper. The sensitivity shall be at least 102 dB when

measured on axis at 1 M with a 1 W (2.83 V RMS) input. The usable frequency response shall extend from 100 Hz to 5 kHz. Nominal impedance shall be 8 ohms. The maximum power capacity shall be 350 W continuous and 700 W program, with a minimum amplifier headroom of 3 dB. The transducer shall be an Architectural Acoustics model A/A-1218™.

A/A-1558™ DT

The A/A-1558DT™ offers the rare combination of usable frequency response into the mid-range along with a smooth powerful low end, making this an ideal woofer for small to medium-sized two-way installations. The long voice coil provides excellent linearity at high drive levels. This model is suitable for use in sealed as well as vented enclosures.

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The low frequency transducer shall have a nominal diameter of 15 inches, with an overall front mounting depth not greater than 4 7/8 inches, and a weight not to exceed 18 lbs. The frame shall be of cast

aluminum alloy and the magnet assembly shall utilize a 96 oz. nominal weight ferrite magnet and produce a substantially symmetrical magnetic field at the voice coil. The voice coil shall be 4 inches in diameter and shall be made of edgewound aluminum ribbon connected via voice coil leadouts of beryllium-copper. The sensitivity shall be at least 101 dB when measured on axis at 1 M with a 1 W (2.83 V RMS) input. The usable frequency response shall extend from 55 Hz to 4 kHz. Nominal impedance shall be 8 ohms. The maximum power capacity shall be 350 W continuous and 700 W program, with a minimum amplifier headroom of 3 dB. The transducer shall be an Architectural Acoustics model A/A-1558™ DT.

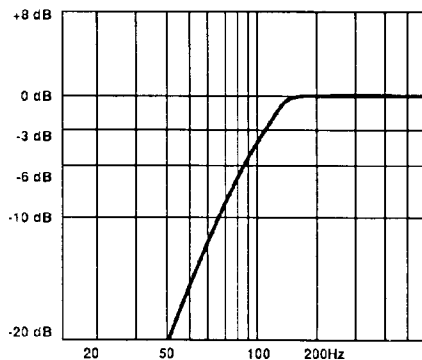
A/A-1818™

The A/A-1818™ offers the ultimate in deep, extended bass response while maintaining a high sensitivity and high output capability. This is the woofer of choice for discos, subwoofers, special effects, or anywhere low end punch and impact are a must.

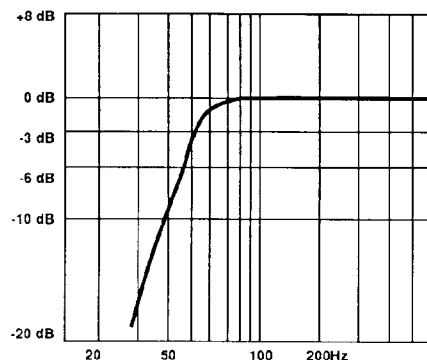
ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The low frequency transducer shall have a nominal diameter of 18 inches, with an overall front mounting depth not greater than 5 17/32 inches, and a weight not to exceed 18 lbs. The frame shall be of cast aluminum alloy and the magnet assembly shall utilize a 96 oz. nominal weight ferrite magnet and produce a substantially symmetrical magnetic field at the voice coil. The voice coil shall be 4 inches in diameter and shall be made of edgewound aluminum ribbon connected via voice coil leadouts of beryllium-copper. The sensitivity shall be at least 100 dB when measured on axis at 1 M with a 1 W (2.83 V RMS) input. The usable frequency response shall extend from 30 Hz to 2 kHz. Nominal impedance shall be 8 ohms. The maximum power capacity shall be 350 W continuous and 700 W program, with a minimum amplifier headroom of 3 dB. The transducer shall be an Architectural Acoustics model A/A-1818™.

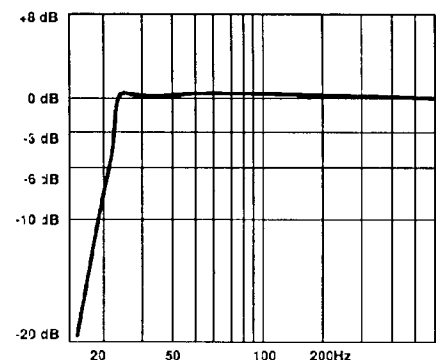
**A/A 1218
Optimum Box**



**A/A 1558 DT
Optimum Box**



**A/A 1818
Optimum Box**



**A/A Series™ Acoustical Components — Woofers
Technical Data**

	A/A-1218™	A/A-1558DT™	A/A-1818™
Overall Diameter:	12 1/4"	15 1/4"	18 3/16"
Bolt Circle Diameter:	11 5/8"	14 9/16"	17 3/8"
Hole (cut-out) Diameter:	10 15/16"	14"	16 3/4"
Depth:	3 17/32"	4 7/8"	5 17/32"
Weight:	16 lbs.	18 lbs.	18 lbs.
Nominal Sensitivity: (1W/1M)	102 dB	101 dB	100 dB
Nominal Impedance:	8 ohms	8 ohms	8 ohms
Power Handling:			
Continuous	350 W†	350 W†	350 W†
Program	700 W*	700 W*	700 W*
AES	600 W‡	600 W‡	600 W‡

- † Continuous power for 8 ohms per EIA Standard RS-426A
- * Program rating with a minimum of 3 dB amplifier headroom
- ‡ Power capacity for 2 hours per AES Standard 2-1984

Thiele/Small Parameters and Recommended Enclosures

Parameter	AA Model 1218	1558 DT	1818
Re	6.8 ohms	5.4 ohms	7.0 ohms
fs	59.7 Hz	44.1 Hz	40.2 Hz
Qts	0.27	0.35	0.61
Qms	6.1	5.9	6.7
Qes	0.29	0.37	0.68
Vas	51 liters	185 liters	321 liters
no	3.7%	3.6%	3.0%
Xmax	± 2.6 mm	± 4.8 mm	± 4.8 mm
Vd	143 ml	385 ml	538 ml
Recommended Minimum Box Volume and Tuning	10 liters/90 Hz	55 liters/55 Hz	241 liters/40 Hz
Test Box	23.5 liters/110 Hz	136 liters/42 Hz	241 liters/40 Hz
Optimum Box volume	14 liters/88 Hz	116 liters/51 Hz	1,140 liters/28 Hz
Maximum Recommended Box Volume and Tuning	38 liters/70Hz	136 liters/42 Hz	453 liters/35 Hz

LIMITED WARRANTY

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

Damage resulting from improper installation, interconnection of a unit or system of another manufacturer, accident or unreasonable use, neglect or any other cause not arising from defects in material and workmanship is not covered by this warranty. The warranty is valid only as to products purchased and installed in the United States.

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Peavey's liability to the original purchaser for damages for any cause whatsoever and regardless of the form of action, is limited to the actual damages up to the greater of Five Hundred Dollars (\$500) or an amount equal to the purchase price of the product that caused the damage or that is the subject of or is directly related to the cause of action. This limitation of liability will not apply to claims for personal injury or damage to real property or tangible personal property allegedly caused by Peavey's negligence. For information on service under this warranty, call a Peavey customer service representative at (601) 483-5376.



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Printed in U.S.A. 3/92

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