417-8C, 418B, 421A, 425-8A Musical Instrument Loudspeakers

417-8C 418B 421A 425-8A







MODEL 421A



MODEL 418B



MODEL 417-8C

Features:

Rigid Cast-Aluminum Frame
Edge-Wound Voice Coil
Heavy Permanent Magnet
Sealed Against Dust and Dirt
Wide Range

Excellent Sound Distribution

Smooth Response Tailored to Enhance the Musical Instrument

Greater Power Capacity

High Efficiency

High Linearity

Low Distortion

Optimum Cone Resonance

ALTEC musical instrument loudspeakers are designed to provide outstanding reproduction of the music sound spectrum when used in sound systems for the largest theatres and auditoriums. Utilizing heavy permanent magnets, rugged die-cast frames, voice coils of the largest practical diameter that are edge-wound with aluminum or copper ribbon, and exceptionally compliant cone-suspension, these musical instrument transducers combine the advantages of long-term operation with unparalleled response throughout the entire musical instrument frequency range.

The smooth response and exceptional linearity of each loudspeaker is achieved by means of strict adherence to precision design and manufacturing tolerances. The axial retention of the voice coil, in a magnetic field uniform over the full excursion, assures the clarity of music reproduction at high power levels. The low cone resonance, when coupled to a properly designed ALTEC enclosure, eliminates virtually all 'doubling' or self-generation of unwanted harmonic components.

The ALTEC 417-8C is a 12-inch musical instrument loudspeaker with a continuous power rating of 75 watts and a frequency response from 60 Hz to 8000 Hz. It is ideal for use in musical entertainment systems of moderate size and coverage area where true high-fidelity reproduction must be combined with high power output.

The ALTEC 418B is a 15-inch musical instrument loudspeaker with a continuous power rating of 100 watts and a frequency response from 45 Hz to 8000 Hz. Its high efficiency and its ability to cover a large listening space with emphatic sound reproduction of exceptional quality has earned it eminent billing for use in the instrumental music field.

The ALTEC 421A, with its outstanding low-frequency response, high efficiency and ability to faithfully reproduce instrumental music at unusually high power levels remains the unchallenged leader in the largest and finest single-source musical sound systems throughout the entertainment world. The 15-inch cone has a frequency response from 35 Hz to 4000 Hz and can handle up to 100 watts of continuous music power; perfect for the throbbing beat of the bass guitar in any 'rock' group.

The ALTEC 425-8A is a 10-inch musical instrument loudspeaker with a continuous power rating of 75 watts and a frequency response from 60 Hz to 8000 Hz. It is ideal for limited-space enclosures where true high-fidelity reproduction must not be compromised in music entertainment systems.



ALTEC 417-8C, 418B, 421A, 425-8A Loudspeakers

SPECIFICATIONS

Power Rating: For sound system use with amplifiers having continuous power rating of up to 75 wats with program material For sound system use with amplifiers having continuous power rating of up to 100 watts with program material Section 100 dt SPL will watt input from 100 dt SPL will watt input from 20-2400 Hz sweep signal measured on axis 4 from cone 98 dt SPL will watt input from 50-550 Hz sweep signal measured on axis 4 from cone 98 dt SPL will watt input from 50-550 Hz sweep signal measured on axis 4 from cone 99 dt SPL will watt input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input from 50-550 Hz sweep signal measured on axis 4 from cone 100 dt SPL will input from 50-550 Hz swe	DESCRIPTION	MODEL 417-8C	MODEL 418B	MODEL 421A	MODEL 425-8A
Pressure Sensitivity: Pressure Sensitivity: Pressure Sensitive: Pressur	Power Rating:	fiers having continuous power rat- ing of up to 75 watts with pro-	fiers having continuous power rat- ing of up to 100 watts with pro-	fiers having continuous power rat- ing of up to 100 watts with pro-	fiers having continuous power rat- ing of up to 75 watts with pro-
G00-2400 Hz sweep signal measured on axis 4' from cone ured on axis 4' from cone on axis 4' from cone ured on axis 4' from cone ured on axis 4' from cone on axis 4' from cone used on axis 4' from cone on axis	Frequency Response:	60-8000 Hz	45-8000 Hz	35-4000 Hz	60-8000 Hz
So-550 Hz weep signal measured on axis 4' from cone on axis 4' from co	Pressure Sensitivity:	600-2400 Hz sweep signal meas-	600-2400 Hz sweep signal meas-	600-2400 Hz sweep signal meas-	600-2400 Hz sweep signal meas-
Imput Impu		50-550 Hz sweep signal measured	50-550 Hz sweep signal measured	50-550 Hz sweep signal measured	50-550 Hz sweep signal measured
Able in production quantities able in production able in production able in production quantities able in production a		Control of the first control of the			
Voice Coil Diameter: 3" 3" 3" 3" 3" 3" 3" Magnetic Assembly— Magnet Weight: Assembly Weigh	Impedance:	시아크랑 : 1. 10 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	그 하는 그러는 걸게 하셨다면서 물리가 하는 중요한 사람들은 사람들이 하는 하다면 하는 사람들이 되었다.	그리고 있었다면 하다 살아보다 하다 하다 가장 하는 사람이 가장이 가장이 되지 않는 바꾸 때문에 다 하다 하다.	
Magnet Weight: Assembly Weight Alnico V Al	Cone Resonance:	69 Hz	55 Hz	40 Hz	72 Hz
Magnet Weight: Assembly	Voice Coil Diameter:	3"	3"	3"	3"
Frame (Basket): Structurally-reinforced die-cast aluminum Cone: Cone: Cone Suspension: Voice Coil: Molded fiber High-compliance cloth surround with mechanical resistance Edge-wound aluminum ribbon Maximum Core Excursion: 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/	Magnet Weight: Assembly Weight: Magnet Type:	10.5 lbs Alnico V	10.5 lbs Alnico V	17.5 lbs Ceramic-Ferrimag V	10.5 lbs Alnico V
Excursion: 1/2" 1/2" 1/2" 1/2" 1/2" Diameter: 12-1/8" 15-5/16" 15-5/16" 10-3/8" Weight: 13 lbs, 6 ozs 14 lbs, 6 ozs 20 lbs, 11 ozs 12 lbs, 11 ozs Mounting Data — Mounting Hole Diameter: rear mounted) rear mounted) 8 holes equally spaced on Centers: 11-9/16" diameter circle 14-9/16" diameter circle 15-5/16" 10-3/8" 10-3/8" 10-3/8" 10-3/8" 10-3/8" 10-3/8" 10-3/8" 10-3/8" 11-9/16" diameter circle 14-9/16" diameter circle	Frame (Basket): Cone: Cone Suspension:	aluminum Molded fiber High-compliance cloth surround with mechanical resistance	Molded fiber High-compliance cloth surround with mechanical resistance	Molded fiber High-compliance cloth surround with mechanical resistance	aluminum Molded fiber High-compliance cloth surround with mechanical resistance
Diameter: 12-1/8" 15-5/16" 15-5/16" 10-3/8" Weight: 13 lbs, 6 ozs 14 lbs, 6 ozs 20 lbs, 11 ozs 12 lbs, 11 ozs Mounting Data — Mounting Hole Diameter: rear mounted) Mounting Bolt Mounting Bolt Sholes equally spaced on Centers: 11-9/16" diameter circle 14-9/16" diameter circle 15-5/16" 10-3/8" 10-3/8" 10-3/8" 9" (may be either front or rear mounted) 8 holes equally spaced on 4 holes equally spaced on 11-9/16" diameter circle 14-9/16" diameter circle 9-5/8" diameter circle	Maximum Core				
Weight: 13 lbs, 6 ozs 14 lbs, 6 ozs 20 lbs, 11 ozs Mounting Data — Mounting Hole Diameter: rear mounted) Mounting Bolt Roles equally spaced on Centers: 11-9/16" diameter circle 14-9/16" diameter circle 15-5/8" dia	Excursion:	1/2"	1/2"	1/2"	1/2"
Mounting Data — Mounting Hole Diameter: Mounting Bolt Mounting Bolt Centers: 11-9/16" diameter circle Mounting Data — 13-5/8" 13-5/	Control of the Contro	12-1/8"	15-5/16"	15-5/16"	10-3/8"
Mounting Hole Diameter: rear mounted) Mounting Bolt Centers: 11-9/16" diameter circle 14-9/16" diameter circle 13-5/8" 13-5/8"	Weight:	13 lbs, 6 ozs	14 lbs, 6 ozs	20 lbs, 11 ozs	12 lbs, 11 ozs
	Mounting Hole Diameter: Mounting Bolt Centers:	rear mounted) 8 holes equally spaced on	8 holes equally spaced on	8 holes equally spaced on	mounted) 4 holes equally spaced on
	Programme Control of the Control of	6"	7"	6-1/4"	5-3/8"

ARCHITECTS AND ENGINEERS SPECIFICATIONS

417-8C

The musical instrument loudspeaker shall have a maximum diameter of 12-1/8 inches and weigh 13 pounds, 6 ounces. From 1 watt, it shall have a minimum pressure sensitivity of 100 dB SPL (for 600-2400 Hz sweep signal) and 98 dB SPL (for 50-550 Hz sweep signal) at 4 feet, measured on axis; reference shall be 0.0002 dyne/cm². The loudspeaker shall be capable of withstanding the output of a 75-watt amplifier when the amplifier is driven to its maximum output power with program material. The voice coil shall be 3 inches in diameter, shall be edge-wound with aluminum ribbon and shall operate in a magnetic gap having a flux density of at least 13,000 Gauss, derived from an Alnico V permanent magnet weighing at least 2,4 pounds. Loudspeakers with smaller voice coils or round wire windings shall be unacceptable under this specification. The frequency response shall be uniform over the range from 60 Hz to 8000 Hz when the loudspeaker is mounted in a suitable enclosure. The loudspeaker shall have a structurally-reinforced die-cast aluminum frame that shall be rigid enough to permit front or rear mounting. The cone-surround area shall be of high-compliance cloth that shall permit a nominal free-air resonance of 69 Hz. The input impedance of the loudspeaker shall be 8 ohms. The loudspeaker shall include a metal dust cover over the magnetic structure that shall provide a protective seal against dirt, iron particles and magnetic dust.

Any loudspeaker not meeting all of these requirements shall be unacceptable under this specification,

The musical instrument loudspeaker shall be ALTEC Lansing model 417-8C.

4188

The musical instrument loudspeaker shall have a maximum diameter of 15-5/16 inches and weigh 14 pounds, 6 ounces. From 1 watt, it shall have a minimum pressure sensitivity of 100 dB SPL Ifor 600-2400 Hz sweep signal) and 99 dB SPL Ifor 50-550 Hz sweep signal) at 4 feet, measured on axis; reference shall be 0.0002 dyne/cm². The loudspeaker shall be capable of withstanding the output of a 100-watt amplifier when the amplifier is driven to its maximum output power with program material. The voice coil shall be 3 inches in dismeter, shall be edge-wound with aluminum ribbon and shall operate in a magnetic gap having a flux density of at least 13,000 Gauss, derived from an Alnico V permanent magnet weighing at least 2.4 pounds. Loudspeakers with smaller voice coils or round wire windings shall be unacceptable under this specification. The frequency response shall be uniform over the range from 45 Hz to 8000 Hz when the loudspeaker is mounted in a suitable enclosure. The cone-surround area shall be of high-compliance cloth that shall permit a nominal free-air resonance of 55 Hz. The input impedance of the loudspeaker shall be 8 ohms. The loudspeaker shall include a metal dust cover over the magnetic structure that shall provide a protective seal against dirt, iron particles and magnetic dust.

Any loudspeaker not meeting all of these requirements shall be unacceptable under this specification.

The musical instrument loudspeaker shall be ALTEC Lansing model 4188.

421A

The musical instrument loudspeaker shall have a maximum diameter of 15-5/16 inches and weigh 20 pounds, 11 ounces. From 1 watt, it shall have a minimum pressure sensitivity of 102 d8 SPL (for 600-2400 Hz sweep signal) and 100 dB SPL (for 50-550 Hz sweep signal) at 4 feet, measured on axis; reference shall be 0,0002 dyne/cm². The loudspeaker shall be capable of withstanding the output of a 100-watt amplifier when the amplifier is driven to its maximum output power with program material. The voice coil shall be 3 inches in diameter, shall be of edge-wound copper ribbon and shall operate in a magnetic gap having a flux density of at least 14,400 Gauss, derived from a Ceramic-Ferrimag V permanent magnet weighing at least 4.875 pounds. Loudspeakers with smaller voice coils or round wire windings shall be unacceptable under this specification. The frequency response shall be uniform over the range from 35 Hz to 4000 Hz when the loudspeaker is mounted in a suitable enclosure. The cone-surround area shall be of high-compliance cloth that shall permit nominal free-air resonance of 40 Hz. The input impedance of the loudspeaker shall be 8 ohms. The loudspeaker shall include a metal dust cover over the magnetic structure that shall provide a protective seal against dirt, iron particles and magnetic dust.

Any loudspeaker not meeting all of these requirements shall be unacceptable under this specification.

The musical instrument loudspeaker shall be ALTEC Lansing model 421A.

425-8A

The musical instrument loudspeaker shall have a maximum diameter of 10-3/8 inches and weigh 12 pounds, 11 ounces. From 1 watt, it shall have a minimum pressure sensitivity of 99 dB SPL (for 600-2400 Hz sweep signal) and 97 d8 SPL (for 50-550 Hz sweep signal) at 4 feet, measured on axis; reference shall be 0.0002 dyne/cm². The loudspeaker shall be capable of withstanding the output of a 75-watt amplifier when the amplifier is driven to its maximum output power with program material. The voice coil shall be 3 inches in diameter, shall be edge-wound with aluminum ribbon and shall operate in a magnetic gap having a flux density of at least 13,000 Gauss, derived from an Alnico V permanent magnet weighing at least 2.4 pounds. Loudspeakers with smaller voice coils or round wire windings shall be unacceptable under this specification. The frequency response shall be uniform over the range from 60 Hz to 8000 Hz when the loudspeaker is mounted in a suitable enclosure. The loudspeaker shall have a structurally reinforced die-cast aluminum frame that shall be rigid enough to permit front or rear mounting. The cone-surround area shall be of high-compliance cloth that shall permit a nominal free-air resonance of 72 Hz. The input impedance of the foudspeaker shall be 8 ohms. The foudspeaker shall include a metal dust cover over the magnetic structure that shall provide a protective seal against dirt, iron particles and magnetic dust.

Any loudspeaker not meeting all of these requirements shall be unacceptable under this specification. The musical instrument loudspeaker shall be ALTEC Lansing model 425-8A.

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