



# STRATEGY SERIES™

## 4" FULL-RANGE SYSTEM LOUDSPEAKERS

FA114  
Series

ONE



### SPECIFICATIONS

- Size:** 4" (127mm)
- \*Power Handling:** 10 Watts RMS
- \*Sensitivity:** 94dB Peak, 89.6dB Average
- Impedance:** 8 Ohms Nominal, 6.8 Ohms Minimum
- \*Frequency Response:** 150 Hz-17 kHz Nominal, 170 Hz-12.5kHz  $\pm$  5dB
- \*Dispersion:** 135° (2 kHz Octave Band, -6dB Points)
- Diameter & Depth:** 5" (127mm) Dia. & 2.25" (57mm) Deep
- Mounting Dimensions:** 4.69" (119mm) Bolt Circle
- Cone Material:** Treated Paper
- Surround Material & Damping:** Damped Cloth Surround
- Flux Density:** 11,500 Gauss, 1.15 Tesla
- Magnet Weight:** Nominal, 10 oz. (260ml)
- Basket Material:** Painted Stamped 20 ga. CRS
- VC Diameter:** 1" (25mm)
- VC Material:** Copper
- VC Former Material:** Black Anodized Aluminum, Vented
- VC Winding Width:** .190"
- Top Plate Thickness:** .180"
- Weight:** 27 oz. (772g)

(\*Measured in FA97-4 Enclosure)

### THIELE-SMALL PARAMETERS

- Pe:** 10 watts      **Qes:** .62
- Fs:** 130 Hz      **Sd:** 8.9 cm<sup>2</sup>
- Xmax:** .05"      **Le @ 1kHz:** .54 mH
- Resistance:** 6.25 Ohms      **Efficiency:** .59%
- Qts:** .54      **Cms:** .06 in./lb (ft<sup>3</sup>)

### FEATURES

- Economical, UL Listed, 4" General Purpose Loudspeaker Offers Efficient Wide-Range Frequency Response
- Patented, Easy-to-Install Loudspeaker Mounting System
- Wide-Angle Dispersion for Excellent Sound Coverage in Rooms with Low Ceilings
- Front Loads into Acoustically-Matched System Enclosures, Plaster, or Trim Ring
- Offers Choice of System Components Including: Transformers, Acoustic Enclosures, Tile Bridge, Plaster Ring, Trim Ring and Hardware-Free Grilles

### APPLICATIONS

Strategy Series FA114 loudspeakers offer full-range performance, wide dispersion and easy installation. When integrated with Strategy Series hardware the patented loudspeaker system (U.S. Patent #5206464) provides clear sound reproduction in an economical, attractive and easy-to-install system. FA114 loudspeakers are ideal for voice transmission, music and signal reproduction in all types of commercial, industrial and institutional applications.

### GENERAL DESCRIPTION

The general purpose Model FA114, 4" (127mm) loudspeaker is UL listed and handles 10-watts with quality, low-frequency reproduction and smooth extended response. The unit's 135° dispersion angle effectively reduces the number of loudspeakers necessary to achieve total coverage in low-level distribution systems.

For optimum application versatility, Model FA114 has been engineered as a system with matched enclosures, choice of transformer and selection of attractive grilles. Strategy Series offers both the FA97-4 Series high performance enclosures (.10ft<sup>3</sup>) with acoustic batting as well as the economy FA95-4 Series (.08ft<sup>3</sup>) backbox enclosures. Both install quickly and easily into the ceiling using only a screwdriver to adjust the clamping dogs, or to tighten conventional screws.

Loudspeakers front-load into the enclosure and include a sealing gasket on the back return of the speaker basket which seals the assembly. Loudspeakers may also be wall or ceiling mounted into areas with minimum depth by using plaster ring Model FAPR-4 instead of an enclosure.

Baffle selection includes a choice of four attractive grilles which are equipped with three serrated studs for hardware-free, push-on installation to Strategy Series enclosures. For detailed information on enclosures, grilles, hardware and other system accessories, please refer to SL1-1533.

Specifications subject to change without notice



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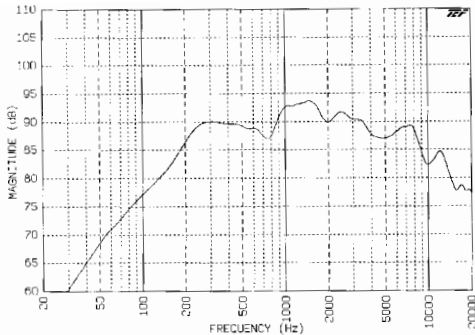
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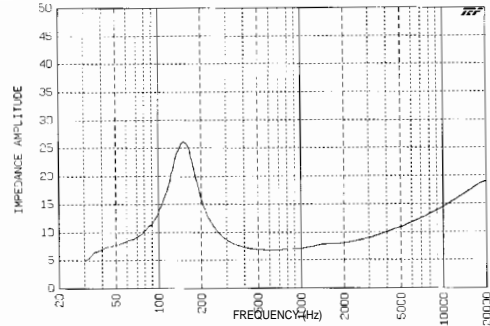
## ARCHITECT AND ENGINEER SPECIFICATIONS

Loudspeaker system shall be Atlas Sound Strategy Series™. It shall be UL listed and include a high-compliance, 4" loudspeaker Model FA114, matched enclosure Model \_\_\_\_ (FA97-4, FA97-4NK, FA95-4, FA95-4NK) and flush grille Model \_\_\_\_ (FA51-4, FA170-4, FA720-4, FA730-4). Strategy Series loudspeaker, enclosures and grilles shall be listed by Underwriters Laboratories (UL 1480 General Signaling) to U.S. and Canadian safety standards. Nominal frequency response of the system shall be 150 Hz to 17 kHz with a sensitivity of 94dB(peak) measured at 1W / 1M across the full bandwidth. Power rating shall be 10 watts. Unit shall be comprised of a 4" dia. low frequency driver.

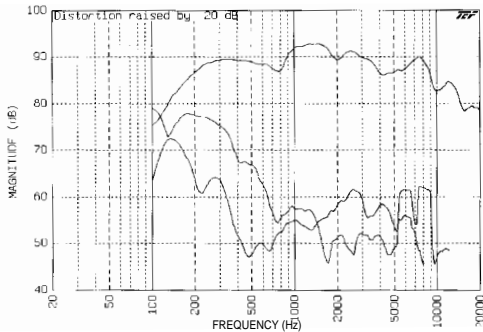
Magnet shall be a minimum of 10 oz. and the voice coil diameter shall be 1" (25mm). Dispersion shall be 135° measured at -6dB, 2kHz Octave Band. Transformer-equipped models shall include factory wired \_\_\_\_ (25 / 70.7, or 100) volt transformer with primary taps of \_\_\_\_ (.5, 1, 2, 4 or .5, 1, 2 & 5). Loudspeaker shall front-load to specified enclosure model FA97-4(NK) or FA95-4(NK), or Model FAPR-4 plaster ring. Strategy Series enclosures shall use clamping dogs for ceiling mounting and stud receivers for grille mounting. The FA97 enclosure models shall be lined with high density acoustic batting.



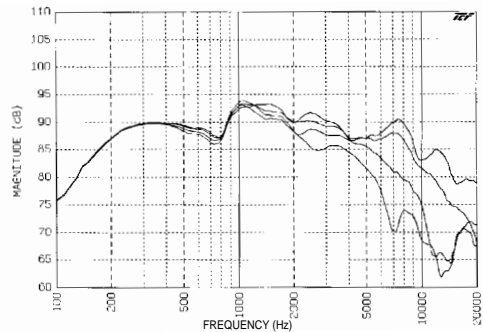
**FA114 : Frequency Response (Measured in FA97-4 Enclosure)**



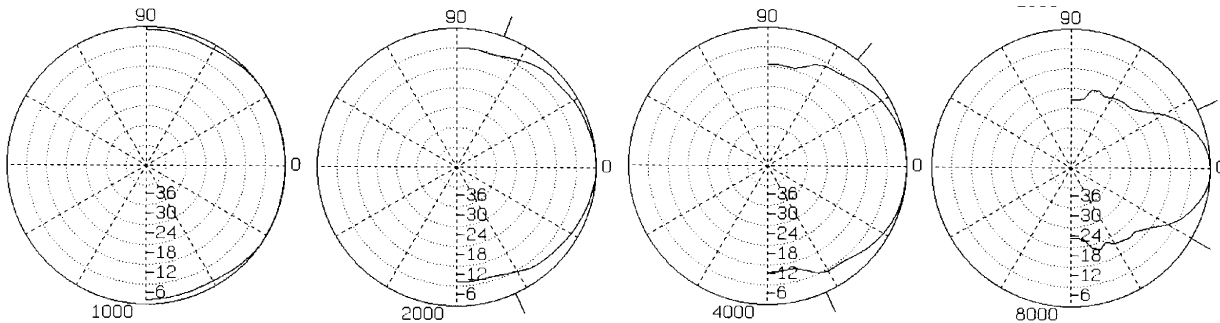
**FA114: Impedance**



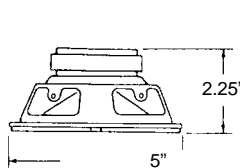
**FA114 : Fundamental vs 2nd & 3rd Harmonics (Raised 20dB)@ 1 watt (Measured in FA97-4 Enclosure)**



**FA114: Frequency Response Overlay at 0, 15, 30 & 45 degrees (Measured in FA97-4 Enclosure)**

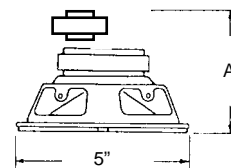


**Octave Bands Normalized to Zero On Axis (Measured in FA97-4 Enclosure)**



FA114T72  
FA114T100

Dim. A  
3.875"  
3.875"



*Specifications subject to change without notice*



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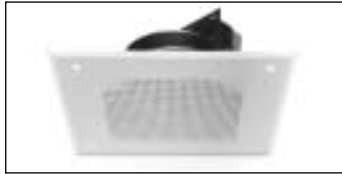
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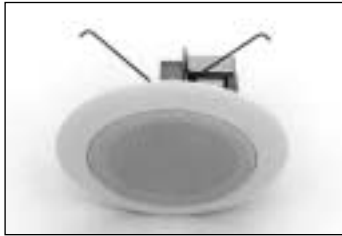
# 4" HIGH COMPLIANCE LOUDSPEAKER TRANSFORMER/BAFFLE ASSEMBLIES

B Series

ONE



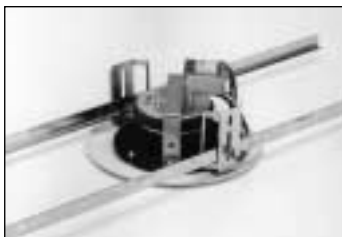
B161-4



BT720-4B



BT730-4



EZB51-4

## FEATURES

- High Compliance 4" Loudspeaker For Full-Range Audio Reproduction in Background Music and Paging Systems
- Factory-Assembled Loudspeaker Packages Save Time and Money
- Choice of Ten Loudspeaker/Transformer/Baffle Configurations
- Selection Includes Models with Easy-to-Install Torsion Spring Grilles and Models with the Cost-Efficient, EZ-Mount Installation System

## APPLICATIONS

Save time and money by installing B Series 4" diameter loudspeaker packages for background music and public address systems wherever the functional and architectural integrity of an unobtrusive size ceiling assembly is desirable. Full-range, high-quality sound reproduction is ideal for professional offices, reception areas, waiting rooms, corridors and balconies. Choose from 10 factory-assembled loudspeaker/transformer models with standard baffle or easy-to-install torsion spring grille. For suspended ceiling installations utilize models with the time saving EZ-Mount installation system.

## GENERAL DESCRIPTION

Attractive B Series loudspeaker assemblies combine the sound performance of a full range 4" high compliance loudspeaker with the job site convenience and economy of a factory-assembled loudspeaker, transformer and baffle. Models incorporate the popular Atlas Sound FC104 high performance loudspeaker, recognized for full-range voice and music reproduction. Unit provides wide-angle sound dispersion to achieve desired coverage with fewer loudspeakers in distributed systems. Each loudspeaker employs a 10 ounce ceramic magnet and a damped, high-compliance cone to provide excellent low-frequency reproduction with smooth extended response. Package includes factory-mounted, dual-voltage 70.7/25V or 70.7V transformer and round or square grille with screw mount or torsion spring(T) installation where noted. Two models are equipped with the patented EZ-Mount support system. EZB Models are designed for application in suspended ceiling tile installations which do not require a protective enclosure. Assemblies include pre-mounted EZ brackets which are slotted to accept EZ mount support rails (provided). Rails attach with wingnuts and adjust vertically to accommodate varying ceiling depth requirements (Note: No tile bridge is required). All B Series packages are shipped assembled and ready for installation.

### LOUDSPEAKER SPECIFICATIONS

<b>SPEAKER SIZE</b>	4"(102mm)	<b>V.C. IMPEDANCE</b>	8 Ohms
<b>FLUX DENSITY</b>	10,500 Gauss	<b>SENSITIVITY</b>	94dB (1W, 1M)
<b>POWER RATING</b>	10 Watts Program	<b>RESONANCE</b>	101 Hz
<b>FREQ. RESPONSE</b>	150 Hz-17 kHz	<b>DISPERSION</b>	135°/-6dB, 2kHz
<b>MAGNET</b>	10 Oz. Ceramic		Octave Band
<b>V.C. DIAMETER</b>	1"(25mm)	<b>DEPTH</b>	2¼"(57mm) (less Xfmr)

MODEL	BAFFLE	XFMR	PRIMARY TAPS	CORE SIZE	XFMR FREQ. RESPONSE	INSERTION LOSS	ENCL. / MTG. RING (Order Separately) or	UL Encl. ★★
★ B51-4	51-4	70.7/25 V	.5, 1, 2, 4	½" x ⅝" (13 x 16mm)	100Hz - 10kHz	1.5dB	(EZ)96-4, (EZ)96-4X/76-4, 81-4	96-4, 96-4X
EZB51-4	T51-4						Not Required	-
BT51-4	T51-4						(EZ)E410 / PR411	-
B161-4	T161-4**						198-4, SE198-4	-
EZB161-4	T161-4**						Not Required	-
BT710-4	T710-4						(EZ)E410 / PR411	-
BT720-4	T720-4						(EZ)E410 / PR411	-
BT720-4-T47	T720-4	70.7 V		⅝" x ⅝" (16 x 16mm)	60Hz - 12kHz	1dB	(EZ)E410 / PR411	-
★ BT730-4B	T730-4B	70.7/25 V		½" x ⅝" (13 x 16mm)	100Hz - 10kHz	1.5dB	(EZ)E410 / PR411	-
★ BT720-4-T47	T730-4	70.7 V		⅝" x ⅝" (16 x 16mm)	60Hz - 12kHz	1dB	(EZ)E410 / PR411	-

\*\* Not available as standard product.



Speakers are UL 1480 (non-fire) general signaling when used in combination with referenced Atlas Sound UL listed enclosure and baffle. Enclosures are UL 1480 (non-fire) general signaling listed and accepted under UL 2043 for use in air handling "plenum" spaces.

Specifications subject to change without notice



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## ARCHITECT AND ENGINEER SPECIFICATIONS

Loudspeaker package shall be Atlas Sound Model \_\_\_\_ (B51-4, EZB51-4, BT51-4, B161-4, EZB161-4, BT710-4, BT720-4, BT720-4-T47, BT730-4B, BT730-4B-T47) or approved equal.

Loudspeaker (B51-4, BT730-4B, BT730-4B-T47) shall be listed by Underwriters Laboratories (UL 1480 General Signaling) to U.S. and Canadian safety standards. Factory assemblies shall be comprised of a 4" high compliance loudspeaker, 70.7/25V or 70.7V transformer and baffle.

Loudspeaker shall have wide angle sound distribution with 135° dispersion (-6dB, 2 kHz octave band). The cone shall be a damped, high compliance type with smooth extended response over a range of 150 Hz to 17 kHz and a power rating of not less than 10 watts program. The magnet shall be a 10 ounce (283g) ceramic type. The 1" (25mm) voice coil shall operate in a magnetic field of at least 10,500 gauss. Voice coil impedance shall be 8 ohms. Sensitivity shall be 94dB [measured 1W/1M]. Free air resonance shall be 101 Hz.

Loudspeaker shall include a pre-mounted \_\_\_\_ (70.7/25V or 70.7V) transformer with power taps of \_\_\_\_ (.5, 1, 2, 4). Transformer frequency response shall be \_\_\_\_ (+1.5dB @ 100 Hz to 10KHz or +1dB @ 60 Hz to 12 KHz). Insertion loss shall not exceed \_\_\_\_ (+1.5dB or +1dB).

Assemblies without support rails shall mount to enclosure Model \_\_\_\_ or mounting ring Model \_\_\_\_ or tile bridge Model \_\_\_\_ or approved equal.

Enclosures shall be Model \_\_\_\_\_ (96-4, 96-4X) and shall be listed by Underwriters Laboratories (UL 1480 General Signaling and accepted under UL 2043 for use in air handling "plenum" spaces).

Assemblies with support rails shall include pre-mounted brackets and shall transfer the loudspeaker package weight to the ceiling system support rails.

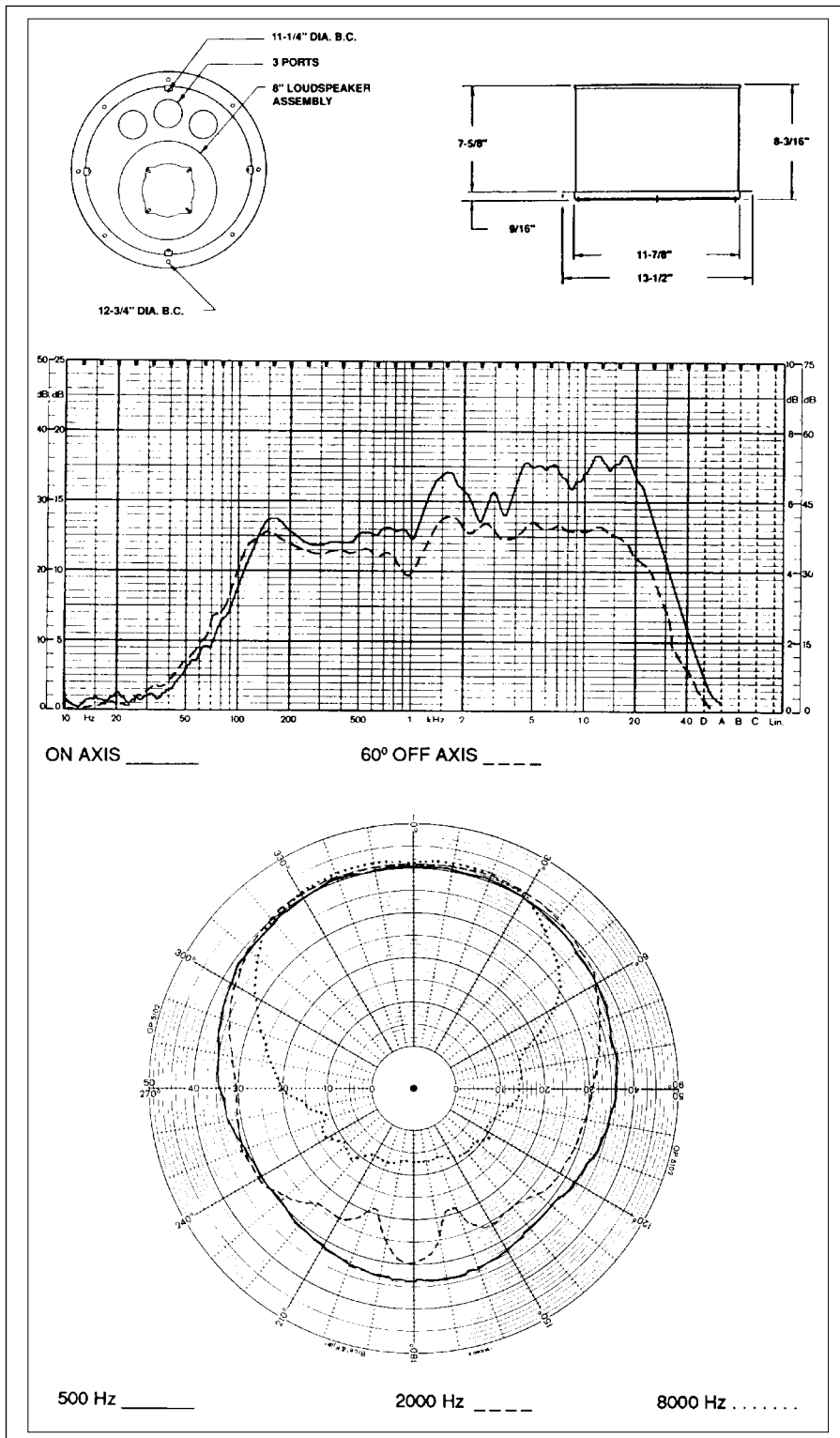
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MODELS WITH XFMR	VOLTS	PRIMARY TAPS	MOUNT ENCLOSURES	MOUNT BAFFLES	OPTIONAL TILE BRIDGE
EQ818-T82	25	1, 2, 4, 8 WATTS	EQ818-BX	EQ61 (ROUND) EQ164 (SQUARE)	EQ81
EQ818-T87	70.7	1, 2, 4, 8 WATTS			
EQ818-T167	70.7	4, 8, 16 WATTS			



## ARCHITECT AND ENGINEER SPECIFICATIONS

The loudspeaker system shall be Atlas Sound EQ Series model \_\_\_\_\_ or approved equal. System shall include a high performance 8" coaxial loudspeaker ported bass reflex enclosure and flush grille for conventional ceiling installation. Frequency response of the system shall be 70 Hz - 20 KHz and the sensitivity shall be 93dB (SPL at 1W / 1M).

Loudspeaker shall be comprised of an 8" (203mm) diameter low frequency driver and a cone type 4" (102mm) diameter piezo high frequency driver. Magnet shall be a minimum of 18 oz. (510 g.) and the voice coil diameter shall be 1 1/2" (38mm). Transformer shall be 25.0 (70.7) volts with 1,2,4 and 8 watt (1,2,4 and 8 or 4,8 and 16 watt) primary taps. Loudspeaker components shall be factory wired and assembled to a subplate which shall have provisions to screw mount ceiling enclosure model EQ818-BX and to accept grille models EQ61 and EQ164A. Loudspeaker hook-up shall be provided via quick connect plugs.

Enclosure shall be a recessed ceiling design and shall have the capability to be installed prior to loudspeaker hook-up. Enclosure shall be acoustically treated with fiberglass lining having a 1 1/2 lb. / cu. ft. density. Protective unit shall be 11 3/4" diameter x 8" D (from mounting flange) and shall include two 18 gauge teflon conductors which exit the rear of enclosure. Construction shall be a minimum of 20 gauge CRS, finished in black epoxy.

Grilles shall be a flush mount installation, manufactured from 22 gauge CRS and finished in white epoxy. Round grille shall be 13 3/8" Diameter. Square grille shall be 16" Square.

Optional tile bridge model EQ81 shall be recommended for suspended tile ceiling applications.

Specifications subject to change without notice



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# ROUND PROTECTIVE ENCLOSURES FOR 4" LOUDSPEAKERS

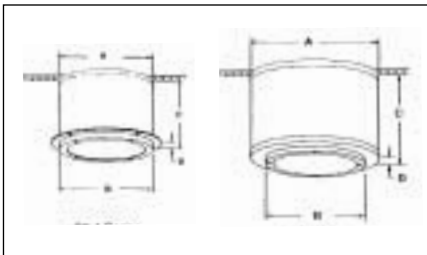
(U)96-4 Series  
(U)96-4X Series



96-4



96-4X Series



96-4 Series

96-4X Series

## FEATURES

- Provides Easy and Cost-Effective Installation of Round Screw-Mount Grilles
- Available With or Without Conduit Knockouts
- Choice of Standard or High-Volume Versions
- Offered in UL Listed Plenum Rated Versions

## APPLICATIONS

Utilize Atlas Sound 96-4 or 96-4X Series recessed enclosures when installing standard 4" (102mm) loudspeakers and corresponding Atlas/Soundolier grilles. These enclosures are offered with or without conduit knockouts to accommodate varying building codes and installation requirements.

## GENERAL DESCRIPTION

Atlas Sound 96-4 and 96-4X Series enclosures provide a cost-effective method for installing standard 4" (102mm) loudspeakers and round, screw-mount baffles. These units provide good bass response and are constructed of 22 gauge CRS, undercoated, and finished in black epoxy.

96-4(NK)/U96-4. Versatile Series includes Model 96-4 which is a compact recessed enclosure with conduit knockouts. To satisfy building codes that require enclosures without knockouts, specify Model 96-4NK (NK denotes "no knockouts"). For UL Listed and plenum rated applications, Model U96-4 is offered. It is intended for use with Atlas Sound UL Listed (Standard 1480) fire-protective signaling loudspeaker Series UDT and UST which are UL approved for use in air handling spaces (UL file S 1824). Refer to SL6-1181 for UDT Series information; SL6-1564 for UST Series information.

96-4X(NK)/U96-4X Enclosure is a deeper, ¼ cubic foot version of Model 96-4. It provides improved bass response and is available without conduit knockouts for applications in which solid enclosures are required; designate Model 96-4XNK. Series is also available in a UL Listed and plenum rated version Model U96-4. It is designed for extended bass response with Atlas/Soundolier UL Listed (Standard 1480) fire-protective signaling loudspeaker Series UDT and is UL approved for use in air handling spaces (UL file S 1824). For additional information on UDT and UST Series loudspeakers refer to SL6-1181 and SL6-1564 respectively.

## ARCHITECT AND ENGINEER SPECIFICATIONS

The metal protective enclosure shall be Atlas Sound Model \_\_\_\_ or approved equal. It shall be of welded CRS construction and mount Atlas Sound baffle Model \_\_\_\_, or approved equal. Unit shall be equipped (with, without) conduit knockouts. Enclosure interior shall be treated with damping material and finished in black epoxy.

*For applications requiring UL standard 1480 rating and/or UL file S 1824 plenum rating, protective enclosure shall be Atlas Sound Model \_\_\_\_ (U96-4 or U96-4X). Enclosure shall be matched with UL Listed loudspeaker Series UDT or UST and companion baffle to maintain UL Listing.*

MODEL	DIMENSIONS				VOL.	WEIGHT	MOUNTS BAFFLES
	A	B	C	D			
96-4	6¼" (159mm)	6¼" (159mm)	4¼" (108mm)	½" (13mm)	.084 ft. <sup>3</sup>	1.4 lb (.6 kg)	51-4, 60-4
96-4X	10" (254mm)		6" (152mm)		.273 ft. <sup>3</sup>	3.3lb (1.5 kg)	
U96-4*	6¼" (159mm)	4¼" (108mm)	.084 ft. <sup>3</sup>		1.4 lb (.6 kg)	U51-4 U52-4	
U96-4X*	10" (254mm)	6" (152mm)	.273 ft. <sup>3</sup>		3.3lb (1.5 kg)		

\* UL Listed, Plenum rated models must be matched with Atlas/Soundolier UDT or UST Series 4" UL Listed loudspeakers and UL Listed baffles to maintain rating status.

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