



# FA138 Series

## Strategy Series™ 8" Full-Range System Loudspeakers

### General Description

Model FA138 is Atlas Sound's premium 8" coaxial loudspeaker. This 100 Watt unit includes a circuit board mounted high-pass/low-pass crossover which produces outstanding sound quality. It incorporates a tapered backplate for increased magnetic circuit efficiency and offers a frequency response of 85Hz - 20kHz. Model FA138 contains a Kevlar® fiber reinforced polypropylene cone woofer, a custom butyl rubber surround, a 1½" vented Kapton voice coil, a 21oz. magnet and a ½" mylar-dome ferrofluid tweeter for clean and powerful weather-resistant performance. The FA138 is also available in three models that include a factory installed 70.7V transformer. The DA138T87 includes power taps up to 8 watts, the FA138T167 includes power taps up to 16 watts, and the FA138T327 includes power taps up to 32 watts.

For optimum acoustic and application versatility, Model FA138 has been engineered as a system with matched enclosure Model FA97-8, choice of transformers and grilles. The Strategy Series FA97-8 high performance enclosure has a volume of (.25 ft³) and is complete with acoustic batting. The enclosure installs into the ceiling using only a screwdriver to adjust the rotating clamps, or to tighten conventional screws. Loudspeaker front-loads into the enclosure and includes a neoprene rubber gasket on the back of the speaker basket to seal the assembly and optimize the low frequency response. It may also be mounted into a wall or ceiling of minimum depth by using plaster/mounting ring Model FAPR-8. Trim ring/rough-in bracket Model FA-TR8 spans 16" or 24" stud centers for new construction sheet rock applications. Series includes a choice of four grilles which feature three serrated studs for push-on installation to Strategy Series enclosures or mounting ring.

### Specifications

<b>Size</b>	8" (203mm)
<b>Power Handling</b>	100 Watts RMS
<b>Sensitivity</b>	89.5dB Average
<b>Impedance</b>	8Ω Nominal
<b>Frequency Response</b>	75Hz – 20kHz (±5dB)
<b>Dispersion</b>	110° (2kHz Octave Band, -6dB Points)
<b>Diameter</b>	8¼" (210mm)
<b>Depth</b>	3¾" (95mm)
<b>Mounting Dimensions</b>	7¾" (197mm) Bolt Circle
<b>Weight</b>	4 lbs. 6oz. (2.1kg)



FA138

### Features

- Top-of-the-Line 8" Coaxial Loudspeaker Delivers Full-Frequency Response with Superior Fidelity
- 100-Watt Unit Offers Extended Sound Pressure Levels for High/Vaulted Ceiling Applications
- Patented System Design Provides Easy Installation
- Conveniently Front Loads into Acoustically-Matched System Enclosures or Mounting Ring
- Choice of System Components Including: Six Transformers, Acoustic Enclosure, Tile Bridge, Mounting Ring, Trim Ring, and Four Hardware-Free Grilles

### Applications

Utilize Strategy Series FA138 high-performance 8" coaxial loudspeaker for installation in venues where superior performance and extended sound pressure levels are desired. The FA138 reproduces music and voice with powerful clarity and sensitivity to offer the highest quality music reproduction available in an 8" loudspeaker. It is ideal for applications featuring moderately high or vaulted ceilings including restaurants, lobbies, convention centers, health clubs, retail spaces, professional buildings, and offices. The FA138 is part of the Strategy Series which features easy installation, quality performance and hardware-free smaller styled grilles to satisfy the needs of owners, architects, and contractors.

©2011 Atlas Sound L.P. All rights reserved. Atlas Sound and Strategy Series are trademarks of Atlas Sound L.P. All other trademarks are the property of their respective owners. ATS004120 RevA 7/12

### Depth With Transformers

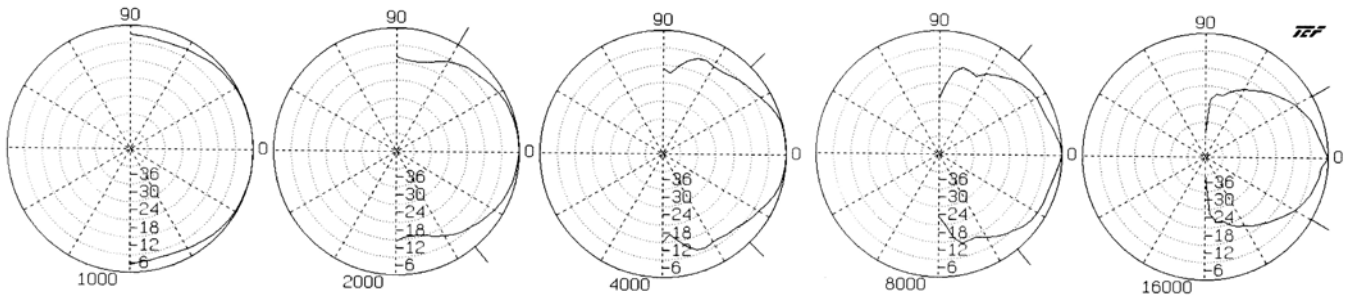
FA138T	5.5" (140mm)
FA138T87	5.5"(140mm)
FA138167	5.75" (146mm)
FA138T327	6.29" (160mm)

### Architect and Engineer Specifications

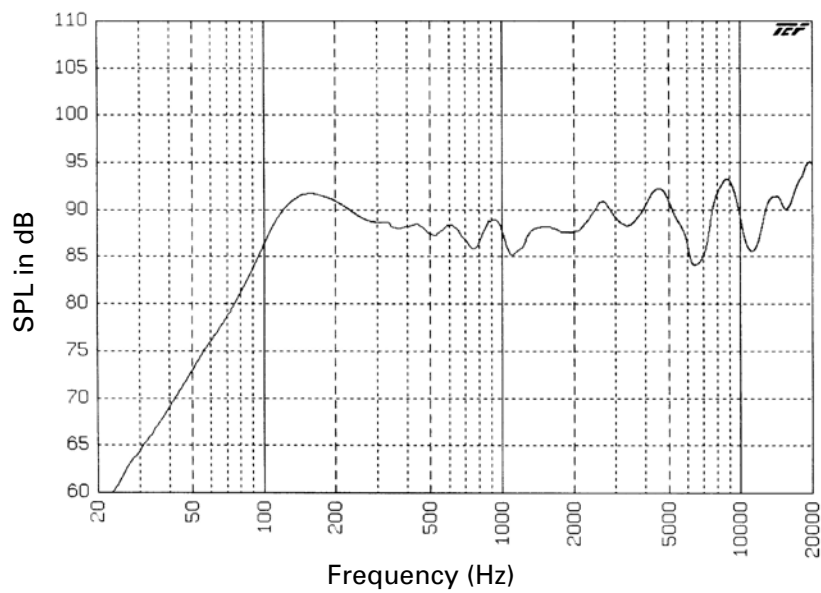
Loudspeaker system shall be Atlas Sound Strategy Series™. System shall include a coaxial, 8" loudspeaker Model FA138, matched enclosure Model \_\_\_\_ (FA97-8, FA97-8NK) and flush grille Model \_\_\_\_ (FA51-8, FA170-8, FA720-8, FA730-8). Frequency response of the system shall be 85Hz – 20kHz (±5dB) and the sensitivity shall be 93dB (peak) measured at 1W / 1M across the full bandwidth. Power rating shall be 100 watts. Unit shall be comprised of an 8" diameter low frequency driver and a ½" diameter high frequency driver. Magnet shall be 21 oz. and the voice coil diameter shall be 1.5" (38mm). Dispersion shall be 110° measured at -6dB, 2kHz octave band. Transformer-equipped models shall include factory wired \_\_\_\_ (70.7V) transformer with primary taps of \_\_\_\_ (.5, 1, 2, & 4 or 1, 2, 4, & 8 or 4, 8, & 16). Loudspeaker shall front-load to specified enclosure Model FA97-8(NK), or Model FAPR-8 plaster mounting ring. Strategy Series enclosures shall use toggle clamps for ceiling mounting and stud receivers for grille mounting. The FA97 Series enclosures shall be lined with high density acoustic batting.

Model	Includes Xfmr			Mounts Enclosure	Mounts Grille	Optional Accessories
	Model	Volts	Primary Taps			
FA138	—	—	—	FA97-8(NK)*	FA51-8 (11½" Diameter Round)	FA81-8 (Tile Bridge)
FA138T87	HT87	70.7V	1, 2, 4, & 8	(*Without Knockouts)	FA720-8 (11½" Diameter Round)	FA-TR8 (Trim Ring)
FA138T167	HT167	70.7V	4, 8, & 16		FA730-8 (11½" Diameter Round)	
FA138T327	HT327	70.7V	8, 16, & 32			

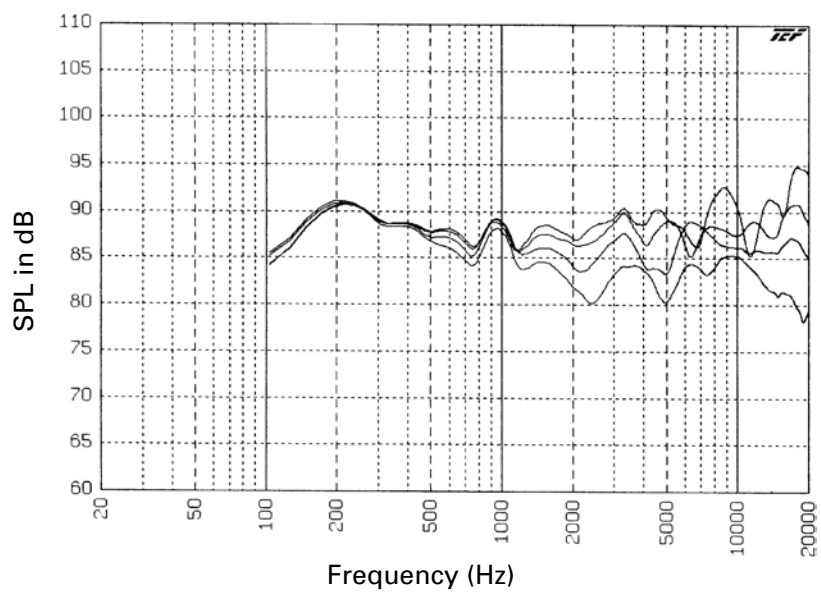
### FA138 Polars (Normalized to Zero on Axis) (-6dB)



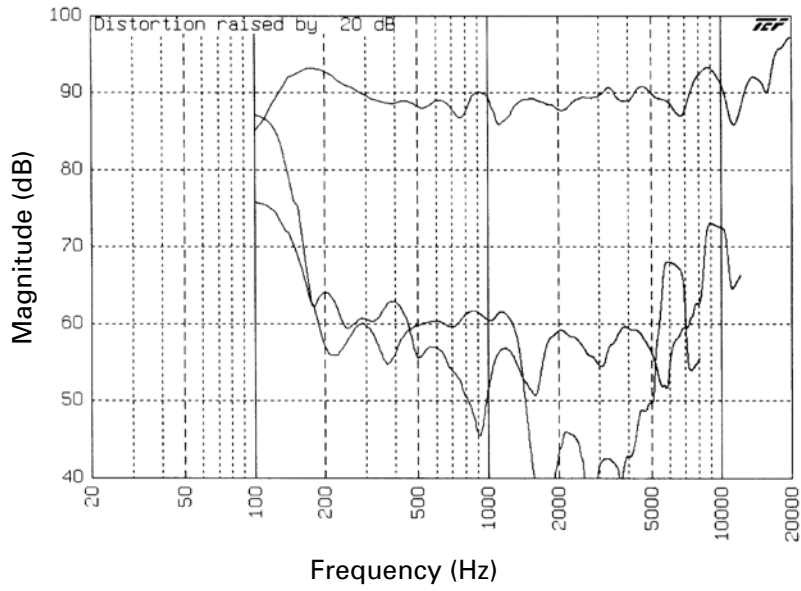
### FA138 Frequency Response



### FA138 Frequency Overlay Response



## FA138 Harmonic Distortion



## FA138 Impedance

