FAP43T-W
FAP Strategy III Series Ceiling Loudspeaker

Features
- 70.7V/100V and 8Ω Operation
- Patented Safety First Mounting System Enables Installation without Drill or Screwdriver
- Improved Waveguide Provides up to 110° Dispersion
- Ported Enclosure Provides Enhanced Low-Frequency Response
- 4-Pole Detachable "Phoenix" Style Connector Allows Easy Pre-Wiring and Is Convenient for Daisy Chaining Additional Strategy Series Full Range Loudspeakers or Subwoofers
- Front Mounted Tap Selector Switch for Easy System Tuning Adjustments Include Transformer Bypass Setting for 8Ω Direct Coupled Operation
- Easy Installation in Drop Tile or Sheetrock Ceilings Via C-Ring/V-Rail Tile Bridge (Included)
- Safety Listed to UL1480 and UL2043

General Description
The FAP43T-W's 110° dispersion angle can reduce the number of loudspeakers necessary to achieve coverage in distributed systems with low ceilings. The loudspeaker component matches the performance of the legendary Atlas Sound FA134 driver. High quality construction 4.5" coaxial cone type driver includes a 1" voice coil and high efficiency composite cone with polymer coated cloth surround. The 20mm coaxially mounted silk dome tweeter. A high sensitivity of 90dB average means less power may be required to achieve the desired SPL.

This loudspeaker is factory assembled in an optimally tuned and ported deep drawn enclosure and includes a specially designed 32-watt low saturation 70.7V / 100V transformer. A convenient front mounted selector switch allows tap selection without the need to remove the loudspeaker from the ceiling. This switch also includes a transformer bypass setting for 8Ω direct coupled operation.

Three years of development has produced the most innovative, easily installed, and safety-secure ceiling loudspeakers in the professional audio market. Patented Safety First Mounting System protects from over-torquing the mounting doglegs during installation and potentially cracking or breaking the mounting system. The results are NO install tools required, NO over-torqued doglegs, NO rusted screws and QUICK installation.

Applications
Atlas Sound's FAP43T-W combines superior coaxial loudspeaker performance with even dispersion and easy installation. A low profile enclosure and wide coverage make the FAP43T-W a perfect choice for low ceilings.

The FAP43T-W will satisfy the needs of owners, architects, contractors, and consultants by delivering true, high fidelity sound reproduction in an attractive and easy-to-install system. The FAP43T-W is ideal for high-intelligibility voice, music, and signal reproduction in commercial, industrial, and institutional applications.
| **System** | **Type** | Two Way, Full Range, Coaxial Ceiling Loudspeaker  
Operation Mode | Non-Powered Passive  
Operating Range (-10dB) | 50Hz  
Frequency Response (+/- 5dB) | 60Hz - 20kHz (±5 dB)  
Vertical Coverage | 110° 600Hz - 4kHz  
Horizontal Coverage | 110° 800Hz - 4kHz  
Max Input Ratings (8Ω) | 50W Continuous, 100W Program  
20 Volts RMS, 40 Volts Momentary Peak  
Transformer Taps - 70V | 32W, 16W, 8W, 4W and Low Impedance (8Ω)  
Transformer Taps - 100V | 32W, 16W, 8W  
Directivity Factor (Q) | 9.57 @ 2kHz  
Directivity Factor (DI) | 9.81 @ 2kHz  
Input Sensitivity at 1W/1m | 90dB  
Max SPL at 1 m (Passive) | 107 dB Continuous / 113 dB Peak  
Recommended Signal Processing | 80Hz HPF  
Recommended Power Amplification | 120W at 8Ω  
**Transducers** |  
LF Transducer Qty and Size | 1 x 4.5"  
LF Voice Coil Size | 1"  
MF Transducer Qty and Size | N/A  
MF Voice Coil Size | N/A  
HF Transducer Qty and Size | 1 x 20mm Treated Silk Dome Tweeter  
Maximum Output | 107 dB Continuous / 113 dB Peak  
Nominal Impedance | 8Ω  
Minimum Impedance | 7Ω @ 280Hz  
Crossover Frequency | 3kHz  
Driver Protection | N/A  
**Enclosure** |  
Color | White (RAL 9016)  
Enclosure Material | Powder Painted CRS  
Grille Material | Powder Coated CRS, White Finish (RAL9016), Paintable  
Baffle Material | UL94V-0 PC  
Mount Material | Zinc Plated CRS  
Input Connection | 4-Position PHX Type Connector  
Controls | Front-Face Power Taps / Low Impedance Selector Switch  
Mounting/Rigging Provisions | Patented Safety First Mounting System  
Safety Features | 1 Safety Hang Point  
Safety Agency Ratings | UL Listed to Comply with UL1480, UL2043 and CSA60065. Suitable for Use in Air Handling Spaces per NFPA 70 and NFPA 90.  
Ingress Protection | IP-21  
Environmental Testing | Humidity: MIL-STD-810G / High and Low Temperature: -20° and 70° C  
Cutout Diameter | 8.19" (208 mm)  
Logo | White Removable  
Product Dimensions (HxWxD) | 9.57" (244 mm) x 9.57" (244 mm) x 7.27" (184.7 mm)  
Shipping Dimensions (HxWxD) | 13.7" (348 mm) x 28" (711 mm) x 7.27" (184.7 mm)  
Net Weight - lbs | Unit w/ C-Ring = 6.23 lbs (2.85 kg)  
2V-rails = 2.1 lbs (0.95 kg)  
Shipping Weight - lbs | 22.83 lbs (10.36 kg) Shipped in Pairs  
**Warranty Coverage** |  
Warranty Period | 5 Years

**NOTES:**  
1. Sensitivity: Half space, 1 meter, 2.83 volts RMS.  
2. Power: All power figures are calculated using the rated nominal impedance.  
3. Frequency response and sensitivity are half-space measurements.
Dimensional Drawings
Included Accessories

Quick Release Tool

Grill Puller
Architect and Engineer Specifications

The loudspeaker system shall be Atlas Sound FAP43T-W. System shall include a high performance 4.5” coaxial loudspeaker, ported bass reflex enclosure and press-fit grille for conventional ceiling installation. Frequency response for the system shall be 60Hz – 20kHz. Sensitivity shall be 90dB average.

Loudspeaker shall be comprised of a 4.5” coaxial cone type driver. Cone shall be constructed of composite cone with polymer coated cloth surround. The 20mm tweeter shall be a silk dome. Magnet shall be a minimum of 10oz (264g) and the voice coil diameter shall be 1” (25mm). Transformer shall be a 70.7V / 100V type with 2, 4, 8, 16, and 32 watt primary taps (Ω70.7V) with a front mounted tap selector switch to include transformer bypass setting for 8Ω direct coupled operation.

Enclosure shall be a deep drawn steel enclosure design. Internal volume shall be 195.75 in³. To facilitate connection in conduit systems, enclosure shall be equipped with an access panel covering a recessed terminal cup. This cover shall provide a top access compression fitting / strain relief to facilitate flexible conduit up to 22mm outside diameter or 1” (25mm inside diameter) conduit when the compression fitting is removed.

External wiring shall be accomplished via a removable lockable wiring connector with screw-down terminals to provide both secure wire termination and pre-wiring capability before loudspeaker installation. The 4 pole locking connector shall facilitate in/out connections and shall be located in the recessed area behind the conduit access panel.

Seismic support eye shall be provided on top of enclosure for additional suspension point when used in drop tile ceilings. Construction of enclosure shall be a minimum of 18-gauge deep drawn painted metal. Loudspeaker shall include Safety First Mounting System to eliminate the potential for steel screws to rust and break causing the dogleg to fail, resulting in the loudspeaker falling out of the ceiling.

The system shall include a support backing plate to reinforce the ceiling material and tile support rails for use on either 2' x 4’ (609mm x 1219mm) or 2’ x 2’ (609mm x 609mm) suspended ceiling tiles. This assembly can all be installed from beneath the ceiling tile. Overall front face diameter shall not exceed 9.57” (243mm) ; overall depth from the bottom of the ceiling shall not exceed 7.27” (184.66mm). Grilles shall be press-fit, manufactured from 24-gauge perforated steel mesh and finished in white epoxy. Round grill shall be 7.78” (197.6mm) diameter.

Loudspeaker shall be safety listed to both UL1480 and UL2043 standards.

The loudspeaker shall be the Atlas Sound FAP43T-W.