



SM82T

Strategy Series® Surface Mount Loudspeaker System



SM82T-W

Features

- Compact, 2-way Loudspeaker Systems for Exceptional Performance in Music and Sound Reinforcement Systems
- Weather-Resistant Construction for Year-Round Indoor or Outdoor use: UV-Resistant, Talc Impregnated Polypropylene Injection Molded Enclosure, Powder Coated Aluminum Grilles and All Brass Hardware Inserts
- Conforms to 100HR Salt Spray Test Per ASTM B117
- Color Matched Heavy-Duty Zinc Chromate Plated and Powder Coated "C" Bracket (Included)
- Highly Efficient 8" HYCONE™ Treated Woofer
- 1" Exit Titanium High Frequency Compression Driver
- Atlas Sound TRX WAVEGUIDE™ – A Constant Directivity Style High Frequency Wave Guide System Provides Accurate, and Even High Frequency Coverage
- Atlas Sound POLYGUARD™ High Frequency Circuit Diverts Damaging Transient Signals to Protect the Tweeter
- Screwdriver Adjustable 60 Watt 70.7V / 100V / 8Ω Transformer for Distributed Sound and Direct Coupled 8Ω Applications
- All ¼"-20 Hardware Inserts Allow Easy Integration of "Off-The-Shelf" Security Hardware
- OMNIMOUNT™ 30 Series Compatible
- Available in Black or White
- Five-Year Warranty

Applications

Use Atlas Sound Surface Mount loudspeaker systems for commercial, professional, and residential applications or where high-fidelity sound and weather-resistance are desired. Full-range frequency response makes these systems ideal for indoor and outdoor installation, in monaural and stereo foreground or background music systems, and for applications in boutiques / shops, restaurants / cafes, leisure, recreation / sports centers, and houses of worship. Multi-position, C-shaped mounting bracket and rugged construction provide optimum installation flexibility and assurance of long-term service.

Specifications

Model	SM82T(-B)(-WH)
Power Rating (RMS)	150 Watts
Transformer Taps	0.94, 1.9, 3.8, 7.5, 15, 30, & 60 Watts / 8Ω Bypass
Frequency Response	65Hz – 20kHz (±3dB)
Sensitivity (1W / 1M)	92dB
Woofer Size	8"
Woofer Cone	HYCONE Treated Paper
Woofer Surround	Treated Cloth
Woofer Magnet	30oz
Compression Driver Size	1" (25mm)
Compression Driver Diaphragm Material	Titanium
Compression Driver Magnet	13.32oz
Crossover Frequency	2.5kHz
Crossover Type	1st Order Low Pass, 2nd Order High Pass
Height	16½" (419mm)
Width	9⅞" (230mm)
Depth	8⅞" (214mm)

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General Description

Environment-resistant SM Series loudspeaker systems offer quality sound reproduction and contemporary styling in a compact enclosure. System components consist of a highly efficient woofer section and FerroFluid cooled, titanium dome high frequency device. Vocal and musical clarity are optimized by the mathematically conceived, advanced design of the Atlas Sound TRX Control WaveGuide™ high frequency director. This design provides smooth, even sound coverage (65°H x 65°V). The high frequency section is symmetrical, for equal coverage in both vertical and horizontal cabinet mounting positions. The Atlas Sound PolyGuard™ protection circuit provides high frequency component protection. To withstand the harshest environments, the Strategy Series SM82T surface mount loudspeakers are constructed of weather resistant materials: UV-resistant, talc impregnated, polypropylene injection molded cabinets; HYCONE Treated Paper woofer cones; powder coated aluminum grilles and all brass hardware. The Strategy Series speaker systems include a versatile, yet simple, C-bracket designed to provide easy vertical or horizontal installation on just about any surface. A 5/8"-27 threaded hole is provided on the C-bracket to allow the SM82T speaker to be mounted on any Atlas Sound microphone stand for near-field live sound applications. Four, 4 1/4" x 2" OC brass inserts are also provided on the rear of the SM82T to accommodate OMNIMOUNT™ 30 series brackets. (Model 30.0 WB recommended for wall mounting)

All inserts for mounting knobs are standard 1/4"-20 to allow easy substitution of off-the-shelf vandal-proof torx head or "one-way" hardware. Input connectors include a two pole barrier strip with wire capture "caps" capable of accepting up to two #16AWG cables. 0.94, 1.9, 3.7, 7.5, 15, 30 and 60 watt taps, plus a transformer bypass setting for direct coupled 8Ω operation are screwdriver selectable via a sealed switch located near the input section on the rear of the cabinet. A tongue-in-groove cover with rubber wire exit grommet is provided to protect the input connections and transformer switch assembly from moisture. Systems are available in black or white and may be painted to accommodate any architectural considerations.

Installation Considerations:

Care should be taken to ensure that the chosen mounting surface is strong enough to support the SM82T. Under eave installation is recommended to ensure that the SM82T is not exposed to direct precipitation.

Architect & Engineer Specifications

The indoor / outdoor loudspeaker system shall be Atlas Sound Model SM82T____(-B or -WH) or approved equal. Assemblies shall consist of a 2-way woofer and tweeter, within environment-resistant housings constructed of paintable UV-resistant, talc impregnated, polypropylene, injection molded plastic finished in black (SM82T-B) or white (SM82T-WH). Each unit shall include a stamped, powder coated aluminum grille and removable C-shaped mounting bracket. All hardware inserts shall be brass and threaded 1/4"-20. The 150 Watt RMS system shall have a 8" (133mm) HYCONE™ treated woofer and a 1" exit compression type tweeter. The dividing network crossover frequency shall be 2.5 kHz. The dividing network shall include protection circuits for the high-frequency component. Each unit shall include an internally mounted 60 watt 70.7/100V line matching transformer for use in distributed sound applications wattage taps and be screwdriver selectable via a sealed switch located near the input section. Wattage taps shall be 0.94, 1.9, 3.7, 7.5, 15, 30, 60 @ 70.7V plus transformer bypass setting for direct coupled 8-ohm operation. The loudspeaker system shall meet the following performance criteria: Power handling, 150 Watts RMS; Frequency response, 65Hz – 20kHz (±3dB); Sensitivity, 92dB SPL at one watt, 100Hz to 10kHz measured at a distance of one meter on axis. Input connectors shall include a two-pole barrier strip capable of accepting up to two #14AWG cable. A tongue-in-groove cover with rubber wire exit grommet shall be provided to protect the input connectors.

The loudspeaker system shall exhibit no performance or cosmetic degradation after a 100 hour salt spray test per ASTM B117.

The unit shall be 16 1/2" high x 9 1/8" wide x 8 1/8" deep.



SM82T-B