# Atlas Technologies

75 YEARS

# Atlas

## Atlas Moving Forward...

## Atlas Technologies

2009 marks the 75th year of operation for Atlas Sound and we are very proud of our rich history and heritage. But to thrive in any industry for three-quarters of a century, it takes forward-thinking rather than backwards vision. This is why Atlas, as a part of the Mitek Communications and Electronics Group, is focused on continuing to provide you with the best products, best customer service, and the best support. Helping your business is how we became the industry leader and that is where we plan on staying.

This year's product line is a great example of just that. While Atlas remains synonymous with quality loudspeaker and microphone stand designs, it has diversified and expanded to give you more product options and is working to provide simple solutions to all your complex problems and business needs.

This catalog — while trimmed down and more efficient than previous years — showcases five new distinct category segments that are designed to help maintain clearer focus and better define product groups. It is more user-friendly and has been color coded for easy reference:

**Loyd Ivey**

*President / CEO*
*Mitek Corp*

- **Atlas Learn** specializes in forward-thinking K-12 and higher education technologies with systems that are uncomplicated, professional, and cost effective ways to improve safety and communication in schools and institutions.

- **Atlas Sound** will continue as an innovator and leader in design, manufacturing, and support of premier audio products, offering a wide selection of solutions for any application from public address and background music systems to sound masking, paging, and many more.

- **Atlas Racks** are celebrated for their durability, convenience, and accessibility when mounting necessary system components and are often overlooked as essential equipment. Well-built racks and cabinets from Atlas greatly improve the installation ease and overall efficiency of a system

- **Atlas Power** provides electrical system solutions for power management and distribution as well as equipment power protection with sequencers, conditioners, and suppressors that improve a system's efficiency through increased constant power flow, higher levels of circuit performance, and increased protection against dangerous surges and spikes.

- **Atlas Support** microphone stands have been preferred by musicians, performers, and sound technicians for their strength and reliability. The most popular stands and accessory products in the industry, Atlas Support offers an expanded collection of models for stage, studio, or banquet miking of speech and musical instruments.

As you can see, we are very excited to continue to be your communications provider and are driven to help you, our customer, and your business in every way we can. We have kept our eyes on the road ahead of us and have a great direction to the future, only occasionally checking the rearview mirror to see all the ground we have already covered.

Thank you for your continued support this year and for the next 75 years.

# Atlas Learn

# Atlas Sound

# Atlas Racks

# Atlas Power

# Atlas Support

# Atlas

## AL2430 Pendant IR Transmitter

The versatile and ergonomic AL2430 pendant / handheld microphone transmitter allows both teachers and students freedom of movement without bulky electronics or cumbersome wires. The dual mode transmitter allows teachers to control microphone volume, overall system volume and mute settings via side mounted soft touch controls. In addition, when "PANIC" and "MODE" controls are pressed simultaneously a contact closure is triggered on the AL2430 receiver. This contact closure may be integrated with almost any intercom or IP based notification system to signal an emergency condition in the classroom. When transmitter is configured for "Student" mode operation, all controls are bypassed restricting the device's functionality for use as a wireless microphone only.

5.4" (137mm)

*Actual Size*

### Handheld

Separate LED clusters located on top and bottom of unit guarantee optimum line of sight operation when the unit is hand held

### Lanyard

Secure connection features a breakaway function for easy release in an emergency and includes an innovative ID badge clip system

### Body Pack

Allows hands free use with optional Atlas Sound AL-HSM headset mic

## AL-PH
## Infrared Pendant Handheld Transmitter

Two AL-PH transmitters are included with each AL-2430 system. For most classroom applications one transmitter is configured for teacher's voice reinforcement with the second transmitter dedicated for student's use.

Panic Button – Held down along with MODE button causes panic signal to be sent.

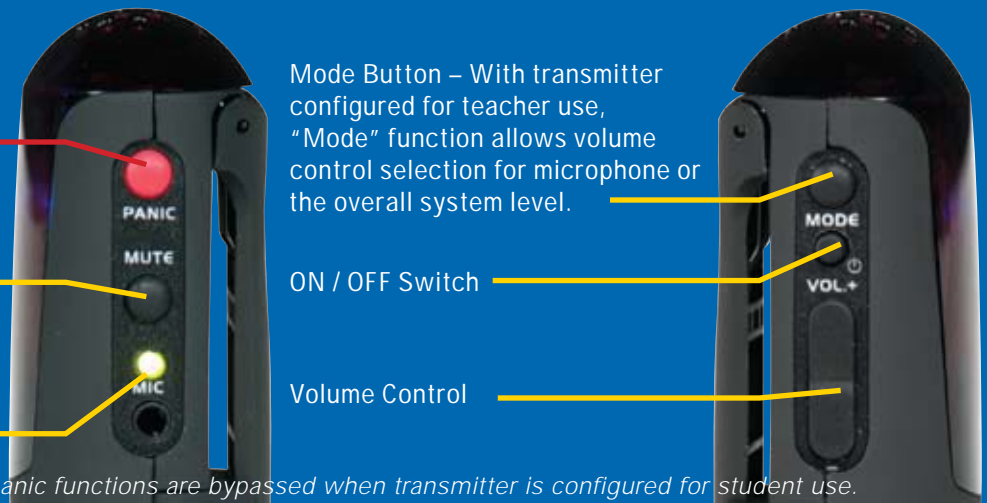Power Indicator LED Green = On, Red = Low Battery

Auxiliary Mic Input – For use with optional Headset Mic Model AL-HSM

Mode Button – With transmitter configured for teacher use, "Mode" function allows volume control selection for microphone or the overall system level.

ON / OFF Switch

Volume Control

*Mode, volume and panic functions are bypassed when transmitter is configured for student use.*

*800.876.3333*

## AL2430 Integrated Receiver / Amplifier

The compact AL2430 receiver/amplifier provides intuitive control of all system components, visual indication of system status and interface for "Panic" condition feedback to secondary security systems. With inputs included to accommodate most multimedia sources, dedicated AV systems are no longer needed, saving valuable space in the classroom.

## Features

**Mute LED**

Displays system mute status (controlled by teachers pendant transmitter)

**IR Activity LED**

Indicates signal transmission from wireless transmitters

**Auxiliary Input**

3.5mm Front panel "AUX" input bypasses rear panel RCA "AUX" input for convenient system interface of iPods® or other MP3 players

**IR Dome Sensor Input**

Professional grade "F" style connectors ensure secure connection

**Microphone EQ**

Allows precision adjustment to eliminate microphone feedback

**Audio Output**

30-Watt output via 4-pole, Phoenix style connector (8 , 25V, and 70.7V)

**Power Supply Input**

System includes 120V / 240V, UL Listed / RoHS rated global power supply

**Panic Output**

Normally open / normally closed contact closure is triggered when "Panic" mode is engaged on pendant transmitter. Connect to external notification systems such as Atlas Sound's ControlKom™

**Priority Page Input**

Ensures pages and bell tones are heard when the AL2430 system is in use. A parallel line is connected from an existing paging/intercom loudspeaker to the AL2430 priority page input. Priority page source will then duck all amplified program material and play back over all loudspeakers connected to the AL2430. Controls are provided for gain and sensitivity adjustment

**Line Output**

Allows integration of additional external amplification, recording devices or hearing assistance systems.

**Multimedia Inputs**

Summing RCA connectors accommodate four unbalanced sources

**Pole Mount Chassis**

Atlas Sound's patent pending pole mount design allows unit to be mounted above the classroom projector system

Projector Not Included

Classroom Security & Sound Reinforcement System

# Atlas Learn

## Microphone Charging Station

AL2430 charging station includes a dock section to charge two pendant transmitters and four AA rechargeable batteries simultaneously. Unit may be wall mounted via integral key hole slots or shelf mounted for easy accessibility.

## Infrared Dome Sensors

Up to three infrared dome sensors may be utilized with the AL2430 receiver/amplifier. Two are included with the system along with two 10 meter sections of UL listed RG59 coaxial cable terminated with professional "F" connectors.
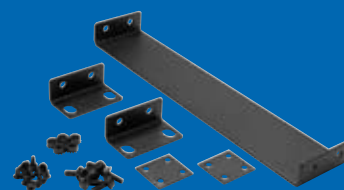
## Rack Mount Kit

Optional rack ears (AL2430-RMK) may be used for rack mounting the receiver / amplifier.

## Available System Configurations

### AL2430-2PH-SD4

Includes: two Pendant / Handheld Transmitters, Charging Station, Receiver/Amplifier, two IR Receiver Domes with Cables, Rechargeable Batteries, Power Supplies, four Atlas Sound SD72W Loudspeakers, four 81-8 Tile Bridges, four CS95-8 Enclosures and 100' of plenum rated 18/2 speaker cable. Loudspeaker system is UL Listed for use in air handling (plenum) spaces per UL2043 standard.

### AL2430-2PH

Includes: two Pendant / Handheld Transmitters, Charging Station, Receiver/Amplifier, two IR Receiver Domes with Cables, Rechargeable Batteries, and Power Supplies.

A New Classroom Security &
Sound Reinforcement System
from the Most Trusted Name
in Commercial Audio - Atlas Sound

### *Bring all your students to the head of the class...*

The Atlas Learn AL2430 system is an in-classroom sound reinforcement solution designed for use in K-12 and higher education facilities or where a room constrained public address system is required.  This complete audio enrichment package consists of amplifier / receiver, wireless microphones, and docking station designed to allow the teacher and students to walk freely around the room with the infrared microphones/system control units and project their voices through installed speakers.

Classrooms equipped with sound reinforcement benefit teachers, students, and the education system as a whole. With even sound distribution, lessons are easily heard no matter where students are seated. Attention and concentration are raised, especially in the back of the room, through this added involvement. Teachers no longer strain their voice and they can easily integrate with multimedia teaching tools such as computers and DVD players by controlling audio from a single source. And with priority paging and emergency notification to inform another location of the need for outside assistance, Atlas Learn fulfills the needs of any education facility.

## FAP / Strategy Series® II

The Strategy Series® II are the industry's most respected and specified loudspeakers. Acoustic consultants and design build contractors use FAPs in countless airports, hospitals, educational, retail and hospitality applications due to their accurate frequency response and ease of installation. When compared to higher cost competitors, the FAPs deliver with the best overall sound and the greatest value!

**Common Features Include:**
- Extended Low Frequency Response Optimally Tuned and Ported
- Easy Drop or Sheetrock Ceiling Installation via C-Ring/V-Rail Tile Bridge and "Dog Leg" Mounting System (Included)
- Front Tap Selector Switch (with 8 bypass) Allows for Easy System Tuning Adjustments
- Unique "Trap Door" Input Section for Rigid or Flex Through Conduit Runs
- Inputs Features a 4-Pole Phoenix connector for Easy Daisy Chaining Between Speakers
- Cover Includes combination 1.2" / 3.4" (13mm / 19mm) Knock-Outs for Installation Ease
- Enhanced 70.7V / 100V Internal Transformer Minimizes Insertion Loss and Improves Low Frequency Response and Output

*In-Ceiling Cone Loudspeakers, Systems, & Subwoofers*

FAP82T

FAP8CXT

FAPSUB

FAP42T

FAP62T

FAP42TC

FAP40T

## FAP42T

With a 130° coverage pattern in the 2kHz octave band, the FAP42T is a perfect fit for ceiling heights up to 12'. Fewer loudspeakers are required to achieve uniform coverage vs typical 8" devices because of the highly efficient FA134 4" coaxial driver and quality 70.7V / 100V transformer. For applications with 9' ceilings, the 16 Watt tap setting will provide upwards of 96dB SPL at seated ear height!

**Also Available:**

FAP42T-B (Black Finish)

*FAP42T*

*FAP42T-B*

## FAP62T

Flat midrange response, coverage pattern of 110° and maximum 70.7V / 100V transformer tap of 32 watts makes the FAP62T an excellent choice for speech reinforcement and/or paging systems in airports, casinos and restaurants with ceiling heights up to 18'. The FA136, 6" coaxial driver used in the FAP62T provides legacy performance with modern installation convenience.

**FAP42T-UL2043 / FAP62T-UL2043**

**The New FAP-UL2043 Series models from Atlas Sound meet requirements of UL 2043 for loudspeakers used in air handling (true plenum) spaces.**

*FAP62T*

*FAP42TC*

## FAP42TC

With an overall depth of 4" (108mm), the FAP42TC is the perfect choice for high fidelity audio and wide, even coverage when space above the plenum is limited. For wall mount applications (tanning salons or surround sound), the shallow depth fits in most studded walls. The popular C-Ring/V-Rail mounting system provides quick installation into drop tile acoustic ceilings and existing drywall. The optional FAP42-TR may be used for new construction drywall applications.

The FAP42TC includes all the popular FAP42T features: front mounted tap selector switch (with 8    bypass), press-fit grilles, high performance 4" poly cone driver with PEI tweeter, and precision crossover components for smooth, even coverage.

### FAP42TC-UL2043

The New **FAP-UL2043 Series models from Atlas Sound meet requirements of UL 2043 for loudspeakers** used in air handling (true plenum) spaces.

## FAP42-RR

The FAP42-RR "Retro Ring" allows the FAP42T or FAP42TC to be installed into a typical 8" loudspeaker cutout up to 12". Kit consists of a 13¾" oversized trim ring and four extension "Dog Legs". The C-Ring/V-Rail included with the FAP42T/FAP42TC mounts atop the tile as normal through the center hole of the FAP42-RR. The extended dog legs are tightened and the entire assembly is flush to the ceiling.



*FAP42RR*

## FA42T-6MB / FA62T-8MB

Atlas Sound addresses retrofit and "division of labor" installations with "motor board" versions of the Strategy Series® II.

Model FA42T-6MB and FA62T-8MB are the entire speaker / transformer / selector switch / front plate assembly found in the FAP42T and FAP62T. The footprints are identical to a standard FA series 6" or 8" speaker component and allow the motor board to fit into current Strategy Series® enclosures of those sizes.  The FAP42T fits in the same manner as a regular 6" FA Series speaker and the FAP62T fits in the same manner as an 8" FA Series speaker.



*FA42T-6MB*          *FA62T-8MB*

FAP4OT Installed

FAP4OT



FAP4OT Installed

# FAP4OT

Designed for high performance in a very compact footprint, the FAP40T appeals to system designers and architects, and is ideal for high-intelligibility voice, music, and signal reproduction in commercial, industrial, and institutional applications. A unique tap selector switch allows for easy system tuning with a full selection of taps up to 16 Watts (with 8 bypass). This switch also functions as a diffuser cone, providing smooth, even dispersion of the high frequency content from the center of the 4" polypropylene driver. The high frequency response is so natural that many assume the driver is a coaxial design instead of a single

cone driver. Low frequency response is enhanced by the tuned and ported enclosure. The FAP40T is UL1480 listed and the enclosure is constructed of high impact injection molded plastic and includes a press fit grille design that blends well with contemporary architecture.

A 2-pole terminal block with a removable metal cover allows for easy system wiring as well as "daisy chain" wiring to other FAP40Ts or even FAPSUB subwoofers (a great combination).

A Tile Bridge is included in the package for suspended ceiling applications. The light weight

design of the FAP40T coupled with the "Dog Leg" mounting system makes additional drywall support unnecessary in most installations.

For new construction drywall ceiling applications, the optional FA-TR4 trim ring is available to provide a marked location for drywall installers to cut around, essentially reserving the FAP40T's desired location until final installation. Mounting holes are provided to accommodate 16" or 24" OC stud / joist mounting. The FAP40T also includes a secondary support point built into the termination cover. This "ring" may be used with an auxiliary support cable in drop tile installations.

In-Ceiling Cone Loudspeakers Systems

## FAP82T

The Atlas Sound FAP82T is a premium performance 70.7V / 100V tuned & ported 8" coaxial ceiling speaker system perfectly suited for many business music and public address applications – especially applications where high ceilings require loudspeakers with increased efficiency and tighter pattern control. The 8" coaxial speaker system features extended low frequency response rivaling that of many subwoofers.

The FAP82T 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 FAP82T is ideal for high-intelligibility voice, music, and signal reproduction in commercial, industrial, and institutional applications.

Mounting is simplified with Strategy Series® II style "Dog Leg" tabs that allow easy installation into drop tile or drywall ceilings with provided tile bridge assembly. The tile bridge consists of two triangular formed mounting rails and a C-Ring assembly.

## FAP8CXT

Atlas Sound has taken the easy to install Strategy Series® II ceiling speaker package to greater heights with the new FAP8CXT. A specially tuned and ported 933 in$^3$ enclosure houses the high output Atlas Sound 8CXT60 compression driver coaxial loudspeaker. A heavy duty "Dog Leg" mounting system in conjunction with Atlas Sound's exclusive C-Ring V-Rail tile bridge assembly provides ease of installation into acoustic tile ceilings.

Pattern control is accurately maintained at 90˚ in the 2kHz octave band via the 1" exit high frequency director and phase plug. This high frequency complement is coupled with an extremely durable polypropylene woofer featuring rubber surround and powerful magnetic motor assembly to provide an overall sensitivity of 92dB 1W / 1M. An efficient 60 watt multi-tap transformer is integral to the package but can be bypassed via the front mount tap selector switch for direct coupled 8    operation.

The FAP8CXT is conveniently packaged individually with the tile bridge assembly.

For new construction drywall ceiling applications, the optional FAP82-TR may be specified.

## FAPSUB

The Commercial audio environment is changing and higher fidelity sound is now expected in commercial sound systems. Customers in retail, restaurant, and hospitality settings demand enhanced music quality during their shopping or dining experience at nearly the same level of sound quality they have in their home theaters and car stereos. The FAPSUB, when used in conjunction with Atlas Sound full-range speakers, provides great sounding background / foreground music reproduction suitable in countless applications.

The woofer features an extended, vented pole piece for higher excursion and better heat dissipation while a Kapton® voice coil former increases power handling. The 933in$^3$, tuned and ported, deep drawn steel enclosure provides low frequency response down to 45Hz (±10dB) and an extremely efficient, 3-pole filtering network eliminates unwanted high frequencies above 150Hz.

A special low saturation 70.7V / 100V transformer is included with 1.9-60W primary taps (@70.7V) to match and balance the subwoofer with full range speakers without the need for separate amplification. A convenient front mounted selector switch allows tap selection without removing the speaker from the ceiling and includes a transformer bypass setting for 8 direct coupling.

SM8SUB70

SM12SUB70

SM8CXT-W

SM12CXT-B

## SM8CXT & SM12CXT

SM8CXT and SM12CXT feature the high efficiency and pattern control of the Atlas Sound 8CXT60 and 12CXT60 compression driver coaxial loudspeakers in a new, highly versatile enclosure system.

Internal flying hardware includes multiple ¼"-20 inserts for overhead suspension in almost any orientation. (Please use only approved, load rated hardware for suspending loudspeakers).

A 90° conical pattern (2kHz octave band) and amazing efficiency make the SM8CXT and SM12CXT a perfect choice for a wide variety of applications including school auditoriums, gymnasiums & cafetoriums, house of worship systems (F.O.H. and/or monitors), high level foreground music systems, and general live sound reinforcement (installed or portable).

- High Performance Atlas Sound Compression Driver Coaxial Loudspeakers in Versatile, Flyable, Wood Enclosures
- Multiple ¼"-20 Inserts, Providing Fly Points for a Variety of Mounting Configurations
- Includes Internal, High Efficiency 60 Watt 70.7V / 100V Transformer (May be Bypassed for 8Ω Operation)
- Barrier Strip Input for 70.7V / 100V / 8Ω or Parallel 4-Pole Speak-On™ Input for 8Ω Operation Only
- Unique Input Panel Allows Use of Standard 4" Square Box Cover (Raco 753 or Eq.) for Applications Where Flex Conduit is Required for Termination
- Fuse Protection for Low and High Frequency Drivers
- Attractive, Yet Heavy-Duty Grille Assembly
- Durable Black or White (SM12CXT-B / SM8CXT-B , SM12CXT-W / SM8CXT-W) Finish
- Optional Bracket for Wall Mounting
- OMNIMOUNT™ Compatible
- Not For Outdoor Use

## SM8SUB70 & SM12SUB70

The SM8SUB70 and SM12SUB70 subwoofer systems are the perfect complement to any SM Series Speaker System. Ideal for restaurants, bars, high-fashion retail outlets, or anywhere low frequency response is desired, SM series subwoofers deliver power and performance.

Both models extend low frequency response in a wide variety of mounting options. Inserts are included for use with ¼"-20 drop forge eyebolts, optional mounting bracket and OMNIMOUNT™ hardware (30 Series - 8" Models, 60 Series - 12" Models).

An 18dB/oct 3-Pole passive crossover eliminates the need for a separate electronic network or dedicated amplification. Its low 120Hz crossover point nearly eliminates localization, allowing a designer to boundary-load the SM subs near a wall or corner for maximum output, while maintaining even coverage.

A premium 70.7V transformer (with 8Ω bypass) allows the SM8SUB70 and SM12SUB70 to be paralleled with any 70.7V commercial audio system to provide extended low frequency response and more overall audio impact in higher fidelity music systems. Available in black (-B) or White (-W), use SM series subwoofers with other SM series full range loudspeakers.

- Multiple ¼"-20 Inserts, Providing Fly Points for a Variety of Mounting Configurations
- Internal High Efficiency 60W 70.7V / 100V Transformer (with Bypassed for 8Ω Operation)
- Barrier Strip Input (70.7V/100V/8Ω) or Parallel 4-Pole Speak-On. Input (8Ω Only)
- Unique Input Panel Allows Use of Standard 4" Square Box Cover (Raco 753 or Eq.) for Applications Where Flex Conduit is Required for Termination
- Fuse Protection for Driver
- Attractive, Yet Heavy-Duty Grille Assembly
- Available in Black or White Finish
- Optional Bracket for Wall Mounting
- Not For Outdoor Use

**Surface Mount Speakers**

# Atlas Sound

**Surface Mount Speakers**

## SM / Strategy Series

- Compact, Weather-Resistant 2-Way Loudspeaker Systems for Indoor or Outdoor Use with Exceptional Performance
- UV-Resistant, Talc-Impregnated, Polypropylene Injection Molded Enclosures, Available in Black or White
- Powder Coated Aluminum Grilles
- 100 Hour Salt Spray Tested Per ASTM B117
- Color Matched, Zinc Chromate Plated, Powder Coated "C" Style Bracket (Included)
- Constant Directivity TRX WAVEGUIDE™ System Provides Accurate High Frequency Coverage
- PolyGuard™ High Frequecy Protection (NOT Available in SM42T)
- All SAE Brass Hardware Inserts Allow Integration of "Off-The-Shelf" Security Hardware
- 70.7V and/or 8Ω Operation
- Five-Year Warranty

Use Atlas Sound's Surface Mount loudspeakers where versatility and high fidelity sound are desired in commercial, professional, and residential applications. These systems are ideal indoors or out in monaural and stereo foreground or background music systems; video systems in conference rooms & classrooms, boutiques / shops, restaurants / cafes, leisure, recreation / sports centers, houses of worship, and more.

All models are constructed of weather resistant materials: UV-resistant, talc impregnated, polypropylene injection molded cabinets; polypropylene or treated woofer cones; powder coated aluminum grilles and all brass hardware. The SM Series have been evaluated for weather resistance by undergoing a stringent 100 hour salt spray test per the ASTM B117 standard passing with no visible corrosion or degradation of performance.

Multi-position, C-shaped mounting brackets are included are designed to provide easy vertical or horizontal installation on almost any surface. Optional ball mount (model SMBALLMOUNT-B/W, SM42T & SM52T Only) is available when concealed mounting hardware is required.

*SMBALLMOUNT-W*

## SM42T

Compact size and outstanding frequency response make the SM42 a perfect solution BGM, or other general sound reinforcement applications such as playback systems for multimedia in classrooms. System components consist of a highly efficient 4" woofer and a FerroFluid cooled, titanium dome high frequency tweeter. Transformer taps: 2, 4, 8 & 16 watts @ 70.7V plus 8Ω bypass

## SM52T

Model SM52T loudspeaker system offers quality sound reproduction in applications where increased efficiency is required in a compact package. System components consist of a highly efficient 5¼" woofer and a FerroFluid cooled, titanium dome high frequency tweeter. Transformer taps: .94, 1.9, 3.7, 7.5, 15 & 30 watts @ 70.7V plus 8Ω bypass

## SM82T

The SM82T is the perfect choice when increased output and tighter pattern control (65Hx65V) is required in a surface mount speaker. System components consist of a highly efficient 8" woofer section and 1" exit titanium compression driver. Transformer taps: 1.9, 3.8, 7.5, 15, 30 & 60 watts @ 70.7V plus 8Ω bypass

Models SM42T, SM52T and SM82T each include an internally mounted 70.7V / 100V line matching transformer with screwdriver adjustable tap selection for use in distributed sound systems and an 8Ω transformer bypass setting for direct coupled applications. Input is via a convenient 2-pole binding post capable of accommodating two 14-gauge stranded wires. An input section cover with rubber wire grommet (SM52/82T) provides additional security and weather resistance.

Atlas Sound TRX WAVEGUIDE™ is a mathematically conceived, advanced design of the high frequency director to optimize vocal and musical clarity. The constant directivity technology provides smooth, accurate, and even sound coverage in both vertical and horizontal mounting positions for the SM Series speakers. The SM42T and SM52T speaker systems feature coverage patterns of 90˚ H x 90˚ V. The SM82T has a 65˚ H x 65˚ V coverage pattern. High frequency components in the SM Series are also protected by the Atlas Sound PolyGuard™ circuit.

## PM Series

### Tuned & Ported Pendant Mount Speaker Systems

- Easy Installation Via Suspended Cable Mounting (Included) or Optional Pipe Mounting Using Standard Ceiling Fan Hardware
- Attractive Cylindrical Enclosure Will Compliment Any Décor
- Top Cover Blends Perfectly with Enclosure to Conceal Interconnect - Providing a Very Clean Appearance
- Input Terminal Connection with 70.7V Taps and 8
- Integrated High Performance Atlas Sound Loudspeakers in Pendant Mount Enclosures
- Available in White or Black

The Pendant Mount series from Atlas Sound provides the clean and popular look of drop speakers for restaurants, bars, shops, and other modern design commercial installations. The PM series also offers a solution for ideal speaker placement regardless of the ceiling height or angle with the same high reproduction and performance levels as Atlas Sound's other speaker designs.

Mounted down-firing in an attractive enclosure, the PM4FA provides natural sound with full range frequency response and wide coverage for both music and paging in low height installations. For higher ceilings, Atlas Sound PM series answers the need for a variety of budget and performance requirements with three different 8" offerings that are factory assembled in attractive pendant style enclosures. All models include a top cover for aesthetics and a suspension cable system. Under the cover is a terminal block for 70.7V / 100V transformer or direct coupled 8 operation.

The top cover also facilitates standard ¾" ceiling fan mount hardware to expand installation options. Inexpensive down pipe and canopy solutions are available at most local home improvement retailers under the Fantec™ brand and provide installation ease at any ceiling angle. All models are available in black or white.



### PM4FA & PM8FA

The PM4FA and PM8FA loudspeakers have familiar response and excellent dispersion because they utilize the successful Atlas Sound Strategy Series® FA series drivers. The 4" PM4FA features the FA134 high performance driver while the 8" PM8FA employs the popular FA138 loudspeaker. Both are ideal for both music and paging applications in specifically tuned and ported enclosures for upscale performance in retail and hospitality applications.



### PM8GD

PM8GD systems include the economical 8" GD87 coaxial driver for installations when high density speaker counts are required to provide accurate response and high efficiency. Perfect for page only applications, the PM8GD fits into any budget with particular coverage pattern needs. Like all PM series speakers, 3 meters of cable and mounting hardware are included.



### PM8CX

For ultra high ceilings, up to 30', the PM8CX employs the Atlas Sound 8CXT60 coaxial compression driver. With excellent efficiency exceeding 96dB at 1W/1M and a desirable 90° conical coverage pattern in the 2kHz octave band, the 8" PM8CX loudspeaker system provides performance in difficult height installations and dispersion requirements. Features 70.7V taps at 1.9, 3.8, 7.5, 15, 30 & 60 Watts plus 8 direct input.

Steel City® Hands-Free Swivel Hanger system allows quick install of the Atlas Sound PM Series without the need for an extra set of hands. The patented hanger design allows the fixture to be set in place while giving users access to the conductors while wiring is being completed. The Hands-Free Swivel Hanger can support a fixture up to 50 pounds and is ideal for gyms or other commercial sites. Use with any length of ¾" MPT pipe.

Specify model SHHF3/4 for 4 square enclosures or SHHFR3/4 for round / octagon enclosures.
SHHF3/4 & SHHFR3/4 NOT AVAILABLE DIRECT FROM ATLAS SOUND.
Available from most any electrical supply warehouse.

800.876.3333

*Pendant Mount Speaker Systems*

# *Strategy Series® Garden & Landscape Speakers*



*ATS183GS*



*ATS183GL*

- In-Ground and Surface Mount Versions Available
- Extreme Durability
- High Fidelity, Wide Coverage Sound
- 70.7V and 8Ω Models
- 5-year Warranty
- Green Finish Blends Well Into Most Landscaped Areas

Atlas Sound Strategy Series® Garden and Landscape speaker systems are perfect for any commercial/residential application where rich sound and high durability is required such as outdoor malls, theme parks or hotels.

The enclosure is constructed of weather-resistant, rotationally molded HDPE material to ensure the unit will maintain its appearance for years to come.

For surface mount (patio / walkway) applications, use ATS183GS or ATS183GS8.

For burial applications, use ATS183GL or ATS183GL8.

Models are available with a selectable external tap 32 watt, 70.7V line transformer (HT327) or without transformer for direct coupled 8Ω operation (indicated by "8" in part number suffix).

The loudspeaker utilized is the FA138 Strategy Series® 8" coaxial driver. This driver features a polypropylene cone with rubber surround for optimal weather resistance, 3.4" Mylar dome tweeter for excellent high frequency reproduction and a 1½" voice coil with powerful 21oz magnet for 70 watts of power handling.

Modular design allows for a two-phase installation:

**Phase One:** the base may be installed (surface mount or burial) with wiring run to the enclosure. A protective, high visibility cover (included in the package) may be installed over the base at this time. This cover helps keep debris from falling into the enclosure and also marks the loudspeaker location to help prevent landscape equipment operators from damaging the enclosure.

**Phase Two:** The sound contractor returns to install the loudspeaker head unit (which is packaged in a separate carton). This multiple step process protects the visual portion of the device from being damaged during the construction / landscaping process, and also eliminates potential for theft from the construction site.

# *Strategy Series® Rock Speaker*



*ROCKFA62T-BR*

Atlas Sound's ROCKFA62T-BR brings Strategy Series® sound quality to the great outdoors by packaging the proven performance of model FA136, 6" driver in a specially designed, natural looking rock-brown enclosure. An internal 32 watt 70.7V / 100V transformer is terminated to a 24" direct burial rated pigtail that includes conductors for all transformer taps as well as a direct connection for 8Ω operation. The side firing transducer allows the installer to aim sound at targeted listening areas. 30' spacing between loudspeakers will give good uniform coverage for most applications. For higher noise environments or where stereo imaging is desired closer spacing and/or additional devices may be required. Please contact Atlas Sound Tech Support for design recommendations.

**Outdoor Garden / Landscape Speakers**

# Atlas Sound

## *Strategy One Series® Loudspeakers, Grilles, & Enclosures*

### General Description

Strategy One Series® loudspeaker systems (U.S. Patent #5206464) uniquely combine full-frequency response, cost-efficiency, aesthetics, and easy installation into one complete assembly. Strategy One Series® systems are offered in 4", 6", and 8" sizes enabling owners, architects, contractors, and consultants to meet varying sound system requirements. UL 1480 listed for general signaling (non-fire) when used in combination with UL listed enclosures and baffles.

### Strategy One Series® System Components

**Loudspeakers**            Choose from 4", 6", and 8" Coaxial or Full-Range Models

**Enclosures**              Easy-To-Install, Front-loading Enclosures Secure with Adjustable Clamps

**Grilles**                 Architecturally Pleasing Grilles Push-Mount for Easy, Hardware-Free Installation

**Mounting Accessories**    Choose Tile Bridge, Plaster / Mounting Ring or Rough-In Trim Ring

| 4" Sample System | 6" Sample System | 8" Sample System |
|---|---|---|



FA81-4
FA720-4
FA97-4
FA134T87

FA81-6
FA720-6
FA97-6
FA136T87

FA81-8
FA720-8
FA97-8
FA138T87

*FA134T87*


*FA136*


*FA138T327*


*FA114T72*


*FA116T72*

## 4" Loudspeakers

### FA134T87 / FA114T72

Strategy Series® 4" loudspeakers are ideal for low-ceiling, low-profile applications where high-fidelity and broad dispersion are required. It features a polypropylene cone with a SBR surround, a ¾" post-mounted dome tweeter, and a 10 oz magnet to handle 25 watts with excellent low frequency reproduction and smooth extended response. The FA114T72 is a 10 watt, full-range loudspeaker equipped with a paper cone and 10 oz magnet.

## 6" Loudspeakers

### FA136 Series / FA116T72

The 6" Strategy Series® loudspeakers combine the high performance of an 8" loudspeaker with the wide-dispersion of a 4". The coaxial 50 watt FA136 delivers excellent fidelity and response. FA136 Series are UL listed and feature a polypropylene cone woofer, 14 oz magnet, SBR surround, and a ¾" post-mounted dome tweeter with PEI diaphragm for outstanding performance. The full-range FA116T72 is a 25 watt loudspeaker comprised of a 6" driver, dual paper cones, half-rolled polyether foam surround, and 10 oz ceramic magnet.

## 8" Loudspeaker

### FA138 Series

High-performance and extended sound pressure levels make the Strategy Series® 8" loudspeakers ideal for prestigious venues or high / vaulted-ceiling applications. The 100 watt, FA138 is Atlas Sound's premium 8" coaxial loudspeaker; is UL listed and incorporates a polypropylene cone woofer, a SBR surround, a 1½" vented Kapton™ voice coil, a 21 oz magnet, and a ¾" PEI dome tweeter for clean and powerful weather-resistant performance.

*Strategy One Series®*

## Strategy One Series® Enclosures

### FA97 Series / FA95 Series

Extended Low Frequency FA97 Series and Economy FA95 Series enclosures are acoustically matched to Strategy Series® loudspeakers for resonance-free operation. Units include three adjustable clamps that rotate and secure into ceilings up to 1¼" thick or can be installed by conventional screw mounting. 4", 6", and 8" sizes are 22-gauge CRS, and undercoated. For improved low frequencies, the FA97 Series is lined with 5⁄16" high-density batting.


*FA95-4*


*FA97-4*

FA51


FA720


FA730


FA170

## Strategy One Series® Grilles

### FA51 / FA720 / FA730

Provide a clean and hardware-free appearance. All grilles are equipped with three, welded and serrated studs for push-on installation to enclosures or mounting rings.

### FA170

Square models feature an exclusive designed subplate with slotted cut outs for independent grille rotation regardless of mounted back box position. Three push-mount grille studs rotate within the slotted cutouts as the grille is turned.
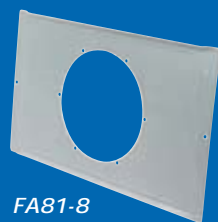

FA81-8


FAPR-4


FATR-4


FAMT-6

## Strategy Series® Mounting Accessories (Optional)

### FA81 Series

Tile bridges prevent ceiling tile sag by distributing the loudspeaker assembly weight to the ceiling's support members. The FA81 Series offer 4", 6", and 8" sizes in 24-gauge electrogalvanized steel for FA95 Series and FA97 Series enclosures and the FAPR Series plaster/mounting rings.

### FAPR Series

Plaster / mounting rings are used to mount Strategy Series® loudspeakers into applications where a backbox cannot be used or is not desired.

NOTE: Strategy Series® mounting configuration requires that an enclosure or plaster mounting ring be used to mount both the speaker and grille.

### FA-TR Series

Trim rings and rough-in brackets in 4", 6", & 8" sizes allow easy installation of enclosures / mounting rings for Strategy Series® loudspeakers. Units install prior to drywall and mark cut-out and pre-wire location. Trim ring mounting ears span 25⅝" and accommodate ⅜"-1¼" drywall. Mounting holes match 16" and 24" stud centers.

### FAMT-6

Mounting ring / adapter for retrofit applications allows a 6" cone or horn loudspeaker to mount an 8" enclosure and/or baffle.

## Pre-Assembled Strategy Series®

The Strategy Series® I speaker package is for contractors who want premium quality products in a simple to order and install package as the speaker and back come pre-assembled, ready to install out of the box. Each package contains (2) tile bridges, (2) attractive 720 Series grilles and (2) speaker/enclosure assemblies. The FAP136T87-720 includes the highly efficient HT87 8W transformer pre-wired and terminated to a BX box.


FA81-6


FA720-6


FA97-6


FA136T87

FC104T


C803A

## High-Performance 4" & 8" Cone Loudspeakers

FC104T incorporates model FC104 loudspeaker, factory assembled with a special version of the model HT87 high performance transformer. This transformer includes taps from ½, 1, 2, 4 & 8 watt taps @ 70.7V. Model FC104T offers a wide dispersion angle, which reduces the number of loudspeakers necessary to achieve total coverage in low-level distribution systems. All other specifications are identical to model FC104.

Atlas Sound High-Performance loudspeakers are the standard for professional sound reinforcement and music systems in offices and retail establishments, auditoriums, meeting rooms, houses of worship, restaurants, clubs, transportation terminals, and recreation / sports centers throughout the world. Selection includes standard 4" and 8" coaxial models. Units are all UL listed. Available in 8Ω versions or with factory-installed, constant-voltage transformer to meet individual project requirements.

**Available Transformers:**

FC104:    LT72 & HT87
C803A:  HT47, LT70, LT72, HT87, & HT167
C10A:    LT25, LT70, & LT72


DLS4
(Mounted on FATR-4)


DLS4
(Mounted on 81-4)
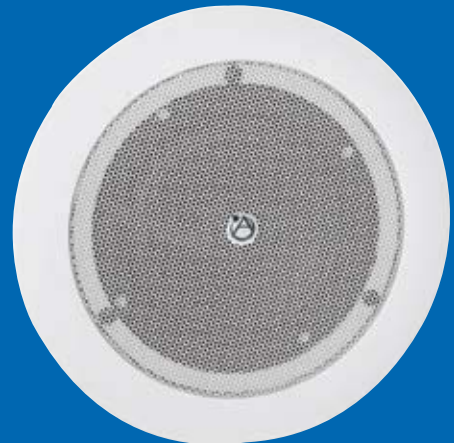

DLS4

DLS4

## Compact 4" High Efficiency Speaker System

The DLS4 was specially designed for optimum use in low ceiling paging and background music applications where wide dispersion, high efficiency, and ease of installation are required. The DLS4 is perfectly suited for use in airports, train stations, retail stores, and hospitality applications.

A unique, patented tap selector switch design allows for easy system tuning. A full selection of taps up to 8 watts as well as an 8Ω bypass setting is included for maximum system versatility. This switch "knob" also functions as a diffuser cone, providing smooth, even dispersion of the high frequency content from the center of the 4" driver.

The easy to use DLS4 "Dog Leg" mounting system works with several popular Atlas Sound hardware combinations for use in new or existing drywall or acoustic ceilings with or without conduit. For mineral tile applications the popular FA81-4 tile bridge has been modified to allow "twist lock" installation of the economical CS95-8 Plenum rated enclosure.

- Small Footprint and Press-Fit Grille Gives Discrete Installed Appearance
- Tap Selector Switch Located Behind Speaker Magnet with Shaft Through Center of Cone. Selector Knob Doubles as a Dispersion Cone and Allows Tap Selection to be Done After the Speaker is Installed in the Ceiling
- 8 Watt, High Efficiency Internal Transformer (May be Bypassed by Tap Selector Switch)
- Works in Almost Any New or Retro-Fit Ceiling Application with Atlas Sound Hardware
- UL 1480 General Signaling Approved
- UL 2043 When Used with Approved Enclosure (CS95-8 Recommended)

Cone Loudspeakers, Systems, & Subwoofers

12CXT60



8CXT60



C12BT60

## 8CXT60, 12CX, & 12CXT60

- 1" Exit True Compression High Frequency Driver Coupled to a Specially Designed Conical Wave-Guide Horn Provides Exceptional Output & Accurate High Frequency Reproduction
- High Efficiency Cone Woofer is Optimally Matched with a Specially Designed Crossover to Ensure Even Transition Between Components
- 90˚ Conical Dispersion (@ 2kHz)
- Available With Factory Installed 60 Watt 70.7V / 100V Transformer (8CXT60 & 12CXT60)
- Perfectly Suited For Use With Atlas Sound "Q" Series Enclosures

Atlas Sound compression coaxial loudspeakers are optimized for high-ceiling applications such as arenas, convention centers, gymnasiums, and auditoriums. The extreme high efficiency and higher "Q" provide the increased available SPL often required in these high ceiling applications.

Models 8CXT60 & 12CXT60 include a high efficiency built-in 60 watt 70.7V / 100V transformer (Taps @ 7.5, 15, 30, & 60 watts). (12", 8Ω version also available, Atlas Sound Model 12CX)

All models are designed to work optimally in select Atlas Sound Q Series high volume enclosure allowing for a complete high output solution.

## C12BT60

- Factory-Installed, 60 Watt Line-Matching Transformer to Match 70.7/100V Lines (Bypassed for 8Ω Applications)
- Heavy Duty Cast Basket for Added Strength in High Power Applications
- Newly Designed Post Mounted 1" Tweeter Section with Unique Mounting Plate that Maximizes the Tweeters Frequency Response by Reducing Phase Cancellation
- Accurate Midrange Reproduction and Overall Voicing
- 90˚ Conical Dispersion in 2kHz Oct Band

The cost effective 12" Atlas Sound C12BT60 coaxial loudspeaker complements 8CXT60, 12CX, and 12CXT60 compression drivers in high ceiling applications for full range music and voice reproduction.

The C12BT60 combines a 12" low frequency driver and a 1" high frequency, post-mounted tweeter with a unique tweeter mounting plate to reduce phase cancellation from the woofer cone. A highly efficient passive crossover network is built in for proper frequency selection between the woofer and tweeter and both feature permanently aligned voice coils (1.5" and 1" respectively) to assure distortion free performance. A factory installed 60W variable tap line transformer is included with 8Ω bypass.

The C12BT60 works in the smallest volume Q Series enclosure (Q4412 – 2ft$^2$) with a 68Hz 3dB down point or used with larger volume enclosures for extended low frequency response. The inexpensive Atlas Sound model 95-12 round enclosure with model 61-12 baffle may also be used.

# SD & GD Speaker Packages

Use Atlas Sound's cost effective, 8" diameter, multi-purpose, loudspeaker packages for quality music reproduction or paging in any commercial, retail, industrial, or institutional application.
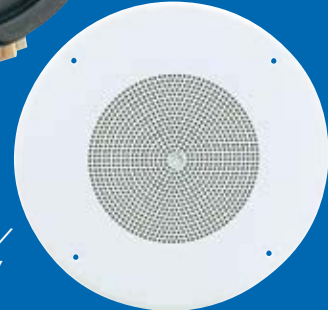
SD72

SD72WV

GD87

SD72W / GD87W

## SD72

- SD72: 8" 10oz Dual Cone Speaker Only
- SD72W: 8" 10oz Dual Cone Speaker with 62-8 Style Grille
- SD72WV: 8" 10oz Dual Cone Speaker with 62-8 Style Grille and Center Mounted Volume Control
- Factory Assembled High Quality 25V/70.7V Transformer
- Provides Familiar Response & Performance
- SD72 Dimensions Match Model C10AT72
- Designed to Work With a Wide Variety of Atlas Sound Tile Bridges & Enclosures
- All Models Individually Packaged for Stocking and Ordering Convenience

The speaker used in the SD72 package is the next generation of Atlas Sound high performance loudspeakers. The similarity in sonic qualities to the preceding C Series speakers ensures that contractors and designers will know exactly what to expect when they purchase the SD72 package. The SD72 includes a 10oz magnet and fully assembled 5W dual voltage transformer. Model SD72WV includes a 50   baffle mounted potentiometer for applications requiring local volume control. Primary taps are ¼, ½, 1, 2, & 5 watts.

## GD87

- GD87: 8" Coaxial, 16 Watt, Loudspeaker Only
- GD87W: 8" Coaxial, 16 Watt, Loudspeaker with 62-8 Style Grille
- Factory Assembled High Quality 8 Watt 70.7V Transformer
- GD87 Dimensions Match Model C803AT87
- Designed to Work With a Wide Variety of Atlas Sound Tile Bridges & Enclosures
- All models individually packaged for stocking and ordering convenience

The GD87 offers proven performance with extended high frequency response. The similarity in sonic qualities to the preceding C803A Series speakers ensures contractors and designers will know exactly what to expect when they purchase the GD87 package. The loudspeaker is matched with a high efficiency 8W 70.7V transformer with a maximum insertion loss of 0.6dB. Primary taps are 1, 2, 4, & 8 watts.

### SD72(W) & GD87W

Speaker / transformer is fully assembled onto an attractive CRS white powder coated grille (model 62-8) with standard mounting holes to accommodate most Atlas Sound 8" enclosures, trim rings, and tile bridges. This baffle includes welded speaker mounting studs making for a more discrete installed appearance. All mounting screws are included in the package.

*EZHD72W*

## EZHD72W

Patented EZ Mount assembly is designed for use in standard 2' x 4' lay-in ceiling installations when backboxes are not required. EHD72W has pre-mounted brackets and installs quickly with wingnuts to the support rails provided.

*Note: EZ Series will not accept an enclosure. For installations that require a backbox, see EZ Mount enclosure system on page 61.*



*FD25W*

## HD Series / FD Series

Industry-favorite loudspeaker packages for ceiling installations. Packages include loudspeaker with 5 oz (FD) or 10 oz (HD) magnet, choice of transformer and grille.
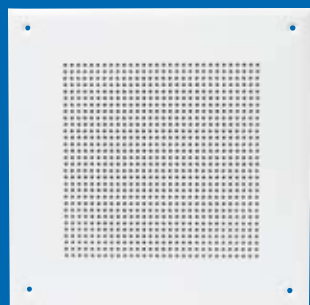


*D161-8*



*G161-8*

## D Series / G Series

Quality loudspeaker packages for ceiling or wall installation include loudspeaker with 10 oz, D Series, or 5 oz, G Series, magnet and dual-voltage transformer.



## L20-400-7

Designed for systems requiring secondary supervision using signal presence method. When the primary voice coil is excited the secondary voice coil induces output signal to a separate, dedicated supervisory line indicating "good" voice coil integrity back to the system.

Use caution when using L20-400-7 for dual source applications (separate amps feeding each voice coil in a paging or music application). No isolation between voice coils is provided (nor possible) so signal bleed between systems is possible.
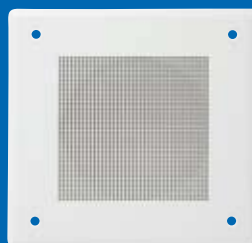


*B161-4*



*EZB161-4*



*B51-4*



*BT720-4-T47*

## B Series

The popular FC104 high-compliance 4" loudspeaker is available with transformer premounted to a selection of standard screw-mount and labor-saving torsion spring (T) grilles. For additional convenience, time and cost savings, two models are available with the patented EZ Mount installation system for applications which do not require a backbox.

| Model | Transformer | Baffle |
|---|---|---|
| B51-4 | 25V/70.7V | 51-4 |
| B161-4 | 25V/70.7V | 161-4 |
| EZB161-4 | 25V/70.7V | T161-4 with Mounting Rails |
| BT720-4 | 25V/70.7V | T720-4 |
| BT720-4-T47 | 70.7V | T720-4 |

## DT12

### 1' x 2' Drop-In Ceiling Speaker

- Easy to Install 1' x 2' "Lay in Design"
- External Tap Selector Switch
- Integral E.O. Box for Conduit or Plenum Wire Termination
- Low Profile Conical Enclosure
- Compact, 2-Unit Master Pack Saves Warehouse Space

The DT12 from Atlas Sound combines ease of installation with superb intelligibility for speech and music reproduction. The 1' x 2' footprint allows quick installation into 2' x 2' or 2' x 4' acoustic tile ceilings. The integral tile bridge rail may be repositioned to either side of the unit for maximum installation flexibility. The E.O. Box (with cover) is smartly positioned on the side of the conical enclosure to facilitate rigid or flexible conduit. An external tap selector switch (located on the side of the enclosure) allows for easy system tuning by providing quick installer access to the 70.7V tap settings ranging from .25 to 4 watts plus 8 .

A neutral white finish on the perforated baffle and edge support ensures the DT12 will blend in with any acoustical tile material.

The DT12 is perfect for applications in the education market including classroom paging and multi-purpose rooms. The DT12 is also perfectly suited for background music/paging in offices and retail settings.

1' x 2' Drop-In Ceiling Speaker

**Atlas**

HT-327

HT167

AF140
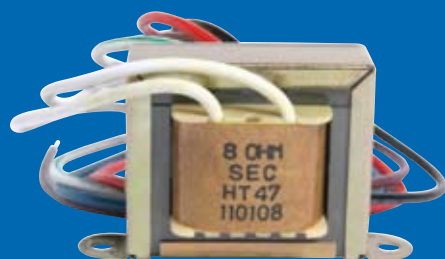
HT47
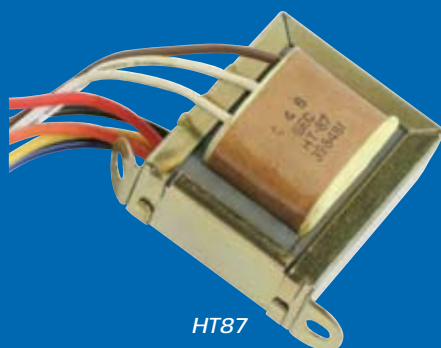
HT87
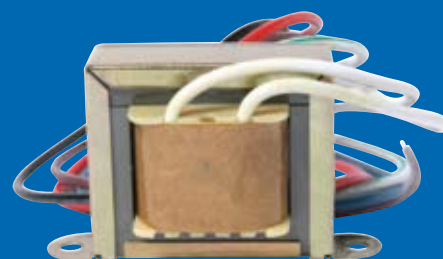
HT42

## Constant-Voltage Transformers

### 25V, 70.7V, & 100V Transformers

Selection of single voltage or combination use constant-voltage line transformers includes models for professional and commercial sound and for intercom (45Ω) applications. Transformers with 8Ω or 4Ω impedance mount standard 4" or 8" loudspeakers without additional hardware except Model HT167 which may require a bracket. (Model CX188329) For convenience and cost savings, Atlas Sound loudspeakers can be ordered with factory-installed transformers. Consult loudspeaker specifications or technical service for proper loudspeaker transformer combinations to meet your installation requirements. (Transformers for compression drivers are listed on page 50)

Atlas Sound transformers can be used to solve a wide variety of impedance-matching and voltage step-up/step-down problems. They serve as an efficient method for matching impedance or voltage levels between power amplifier outputs and loudspeaker loads at high power levels.

A transformer transfers electrical energy from one circuit to another through inductively coupled conductors known as windings.

Besides Stepping Up/Down The Voltage, They Also Step Up/Down The Impedance Of The Amplifier's Output And Speakers. This transformers are the basis for 25V/70.7V/100V systems because they step up/down the voltage and impedance of the amplifier's output and speakers. This allows us to attach lots of speakers in parallel without causing the amplifier to "see" too low of a load at the speaker terminals.

Contact Atlas Sound for more information on transformers and their application.

*VP14MB*



## VP14

*VP14ENC*

## SBMS



Designed specifically for installations that may be targeted by vandals, the VP14 system from Atlas Sound provides highly intelligible speech reinforcement with the added benefit of extreme ruggedness. To address division of labor requirements components are ordered separately.

The VP14MB vandal resistant slanted wall mount baffle, finished in attractive, neutral beige, is ideal for use in high-security areas such as schools and correctional facilities. Its 14-gauge sturdy baffle construction and specially designed protective labyrinth screen protects the enclosed speaker assembly against abuse. Each package contains a high-quality 8" diameter loudspeaker with a 10 oz ceramic magnet and pre-assembled 25V / 70.7V transformer with five power taps terminated to a Euro block style connector. This connector includes 3 empty blocks to allow through connection of other devices such as call switches or intercom phones without the need for wire nuts.

The VP14ENC 16-gauge enclosure for use with model VP14MB baffle includes an adapter to comply with Wiremold™ 500 and 700 series conduit. This adapter can be installed securely through any of the knockouts that are included on all four sides of the VP14ENC. This provides a clean installation where surface mount raceways are required. All knockouts are finished completely flush before the enclosure is painted making them invisible to any would-be perpetrator.

Install the SBMS clamp-mounting loudspeaker assembly wherever paging, intercom, and background music is desired in open ceiling applications. This ready-to-install unit combines exceptional performance and fast installation into one complete package making the SBMS ideal for use in open ceiling venues such as: retail superstores, warehouses, light industrial facilities, multi-purpose athletic buildings, cafeterias, and convention / civic centers.

Pre-assembled unit feature an 8" dual-cone loudspeaker with a 25V / 70.7V transformer mounted within a square enclosure with matching baffle. Loudspeaker selection includes a 25 watt, 10 oz dual cone loudspeaker. Assemblies include two, easy-to-secure screw-down clamps mounted to the top of the enclosure. Clamps provide quick and easy mounting onto beams, girders, and other surfaces (max. $\frac{1}{2}$" thick) common to open-ceiling installations. The square SBMS package includes a 734in$^3$ (.47m$^2$) enclosure paired with an attractive square baffle. This grille features one-piece, CRS construction. The SBMS is infinitely flexible, complying with a variety of conduit requirements. Integral knockouts facilitate $\frac{1}{2}$" and $\frac{3}{4}$" conduit where required by code and integral ROMEX®-style connector simplifies installation for applications where conduit is not required at all. Assemblies are shipped ready for installation with lead wires extending out of the enclosure through a wire-securing cable clamp. Finish is white powder coat epoxy.

<div style="text-align: right">Cone Loudspeaker Systems</div>



*WD417*

## WD Series

Attractive surface mounting loudspeaker packages with 5 oz magnet and choice of 25V or 25V / 70.7V transformer are mounted in a sloped baffle with black fabric grille. Model with (V) suffix includes volume control option.

Also available model 417-8WD enclosure only (no loudspeaker).

MPP4200-B


MPP4200-S


SW1515


ADZIC


ADZIW

**Cone Loudspeakers, Systems, & Subwoofers**

## Flat Panel Loudspeakers

**MPP4200**

Th MTX Audio Flat Panel Loudspeaker features dual 4" drivers along with a high output 30mm Teteron tweeter in a very compact vertical design to complement any flat panel display installation. 100 watts RMS power handling. Mounting bracket is included. Choice of black, white or silver finish. Sold as "each."

## Powered Subwoofers

The MTX Audio powered subwoofer systems add high quality low frequency reproduction for boardroom presentation systems or home theaters. With up to 250 watts of room shaking power, MTX Audio powered subwoofers boom, roar, thump, thunder, and more.

The SW1010, SW1212 and SW1515 with "Active Compression Circuitry", deliver gut-wrenching low frequencies at seriously high SPL levels without breakup or coloration.

## Musica™ "Add–A–Zone" Kits

Designed to allow easy installation of in-wall or in-ceiling distributed 8 systems for small office or home systems using standard 8 consumer style receivers. Kit includes two in-ceiling (ADZIC) or in-wall speaker systems (ADZIW), one 50 watt impedance matching volume control, speaker input wall plate, and 100' of 16-2 speaker wire.

## ThunderPro 2 Series

MTX's ThunderPro 2 Series consists of single and dual 12" woofer models matched with our X-radial designed horn loaded high frequency tweeter designed to provide uniform sound dispersion, and coverage area, with excellent sound quality. The TP112 speaker is designed to perform equally well in many different applications, including low to mid level live sound reproduction, public address, karaoke applications, or mobile entertainment. The speakers carrying handles, mounted to a strong, lightweight cabinet make it easily portable to use anywhere you need it. The rugged corner braces allow for upright positioning and interlock for secure stacking of multiple cabinets. The versatile 5-way binding posts and ¼" phone jack inputs make it easy to connect to any amplifier. Single woofer models can also be pole-mounted to raise the sound stage to ear level.



## All Weather In-Ceiling System

**H620AW**

Designed for harsh, wet environment indoors or out, the AW series from MTX® will provide excellent durability and great sound. For commercial 70.7V applications model HT87 line matching transformer is recommended.

## In-Wall & In-Ceiling Speakers and Powered Subwoofers by MTX Audio

All models include: white aluminum mesh grilles (paintable), stainless steel hardware, push-pin terminals, install-ready pre-assembly, and an industry leading 10 year warranty. All models are 8  .

*HT8253W*

### "Best" 8" In-Wall System

**HT8253W**

Outstanding, professional performance, perfect for boardroom applications. 3-way design provides outstanding clarity with full range sound. Video shielding allows use near CRT screens.

*HT825W*

### "Better" In-Wall Systems

**HT625W & HT825W**

These superior in-wall speakers accurately reproduce even the most demanding music. The soft swivel dome tweeter construction uses a **neodymium magnet. IR** (infrared) knockout is also provided for use with the Atlas Sound M-1A repeater.

### "Good" In-Wall Systems

**CD520W & CD620W**

True performers, with a $3/4$" **balanced dome tweeter** and poly woofer. These value packed speakers are built to please.

*CD620C*

### In-Ceiling Audio Systems

**CD520C, CD620C, & CD820C**

MTX Audio's in-ceiling speakers feature materials chosen for two specific reasons: superior sonic qualities and weather resistant properties (butyl rubber surrounds, aluminum grilles, and stainless steel hardware).

*H625WE*
*(Close Up)*

### High-Performance In-Wall & In-Ceiling Systems with Integral Metal Enclosure

**H625CE & H625WE**

MTX® CE/WE enclosed in wall and in ceiling systems are perfect for commercial applications such as hotel suites or conference rooms where sound must be contained between rooms. High performance components are matched with a tuned metal enclosure to insure excellent sound fidelity. Models include rough in kit for easy installation in new construction.

*HTS28W*

### In-Wall Subwoofer System

**HTS28W**

Dual 8" subwoofer with stereo input, passive crossover network. Sold as single units.

### New Construction Rough-In Kits

Hole Providers for MTX Audio Loudspeakers SOLD IN MASTER PACK QUANTITIES OF 12 UNITS ONLY.

*HT2625W*

### Center Channel System

**HT2625W**

A perfect match with HT8253Ws for 5.1 boardroom and home theater systems. Dual 6½" system with dome tweeter. Unit is magnetically shielded. Sold as single units.

*Assorted New Contsruction Rough-In Kits*

In-Wall and In-Ceiling Cone Loudspeaker Systems, & Subwoofers

<div style="sidebar">A-Bus Distribution System</div>

## A-Bus by MTX Audio™

A-Bus was created to simply and affordably distribute music in commercial and home applications. A-Bus works with inexpensive 8-conductor (CAT5) wire to distribute audio, infrared, status and system power to the A-Bus in-wall controller / amplifier.

### A-Bus Hubs

The A-Bus Hubs are the core component of the distribution system. The hub is responsible for distributing audio signal, system power, and status indication to A-Bus power modules installed in rooms throughout the installation. Hubs are also capable of sending IR commands from the power modules back to the source components. Hubs are usually located near the main sound system (Amplifier/Receiver, CD, DVD, Tape, Cable, etc.). ABUS-HUB1X2 has 1 input and 2 zone outputs, ABUS-HUB1X4 has 1 input and 4 zone outputs and ABUS-HUB4X8 has 4 inputs and 4 zone outputs available on 8 output ports. Each hub includes an expansion port (IN/OUT) so multiple hubs can be connected to expand the system.

### A-Bus Powered Wall Mount Volume Controls

The MTX Audio ABUS-VC2 volume control power module is specifically designed for use with the ABUS-HUB1x2, ABUS-HUB1X4 and ABUS-HUB4X8 Hubs. The ABUS-VC3 Keypad Volume Control Module was designed to work with the ABUS-HUB4X8 intelligent A-Bus Multi-Source Multi-Zone Hub using standard A-Bus commands to provide volume control and source selection. Both models incorporate a stereo amplifier with a level control that can power a pair of speakers in each room. Units come packaged with three colors of Decora style wall plates, inserts, and buttons (white, ivory, and bone). Volume control systems include "credit card" sized remote for zone On/Off, source selection and level control.

### ABUS-LS1

Local Input Module provides input capability for sources such as TV sound, MP3 player, computer sound cards, etc. located in the zone. The Local Input Module, ABUS-LS1, automatically switches to the local input when a local source is detected. 30 seconds after the local source ceases, the Local Input Module automatically reverts to the main input source.

### ABUS-MS1

Use with ABUS-HUB1X4 to expand single source input to 4 inputs.

### ABUS-40

Four amp power supply – only required for ABUS-HUB4x8 to provide power to port outputs 5-8.


ABUS-LS1


ABUS-VC3


ABUS-MS1


ABUS-HUB4X8


ABUS-VC3 (Installed in Wall)

## APX40TN

Conservatively rated 40 watts, constant-directivity paging loudspeaker for use in public address or paging applications. Environment-resistant units feature a 60˚ x 40˚ (±10˚) constant-dispersion pattern across the controlled frequency band of 1.25kHz –10 kHz. The rotating bell pivots in precise 15° increments for exact on-site positioning of projection angles. A triple lock security mounting method saves installation time and provides long-term stability. APX40TN is equipped with an internal 25V / 70.7V / 100V transformer with screw terminal connections made beneath the rear cap. Rear cap will facilitate armored cable. Loudspeaker mounts to die-cast zinc base. Pre-mount the base to a standard 1-gang, 2-gang, or 4" square E.O. box. If replacing AP Series speakers, simply remove the APX base and mount to the Omni-Purpose® bracket. Finish is neutral. Optional Replacement Bracket, APXBK-N, is also available.

**Value Features**
- Rotating Bell
- Triple Lock Security
- Quality Materials

**Easy Installation**
- Universal base mounts 1-gang, 2-gang or 4" sq. E.O. boxes.
- Includes 40 watts tap @ 70.7V/100V.

**Predictability**
- Clear Messaging and Music Consistent Beamwidth Control
- Fewer Speakers to Provide Quality Communications

Horns & Compression Drivers

### APX Beamwidth
**Controlled Coverage Across a Wide Frequency Range**

50 / 8k
60 / 4k
60 / 2k
80 / 1k
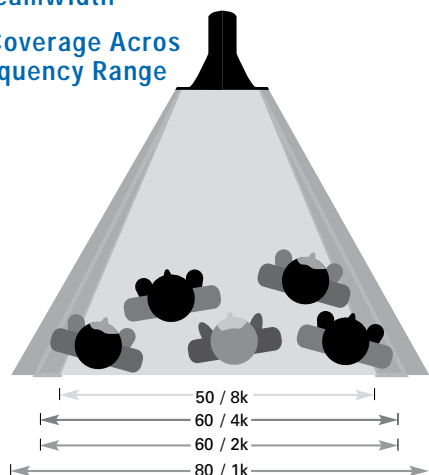
### Conventional Beamwidth
**Collapsing Coverage Across a Wide Frequency Range**

25 / 8k
45 / 4k
75 / 2k
125 / 1k
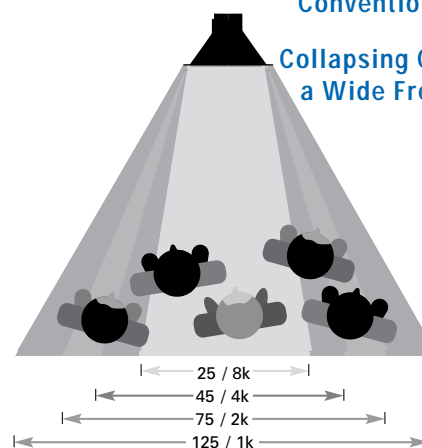
* Typical exponential coverage illustrated

## *The Industry's Only Constant Directivity Re-Entrant Horn*

New CD Series horns from Atlas Sound provide greatly improved uniform sound coverage compared to conical designs. With all models the horizontal coverage pattern is precisely controlled over a frequency range. For mounting, the proven CJ46 style heavy-duty steel mounting bracket is utilized with positive lock for horizontal and vertical positioning in single or stacked multi-unit clusters.

Construction is polyester resin and glass-fiber laminate integrally molded to a die-cast zinc throat section.

Recommended Atlas Sound Drivers: PD75T, PD30 Series, PD-5 Series, PD60 Series.

Beamwidth is defined as the -6dB point(s) from center axis.

### CD42

Horizontal Beamwidth: 40°, ±10°, 800Hz – 10 kHz

Vertical Beamwidth: 20°, ±10°, 2kHz – 10 kHz

### CD64

Horizontal Beamwidth: 60°, ±10°, 600Hz – 6 kHz

Vertical Beamwidth: 40°, ±10°, 1000Hz – 7 kHz

### CD94

Horizontal Beamwidth: 90°, ±10°, 900Hz – 6 kHz

Vertical Beamwidth: 40°, ±10°, 1000Hz – 10 kHz

*CD42*

*CD64*

*CD94*

### PD75T

**Atlas Sound's new PD75T compression driver is the perfect compliment for the CD series of constant directivity re-entrant horns. With increased power handling and extended high frequency response the PD75T is the perfect solution for applications such as race tracks, sporting venues and large scale mass notification systems.**

AH99-12ST
AHSUB15S
AH99-8ST
AH66-12ST
AH66-8ST
AH94-12ST
AH94-8ST

*AH4060S (Installed at Firebird Raceway in Chandler, AZ)*

## AH Series Statidum Horns

The AH Series Stadium Loudspeakers offer the most often requested coverage patterns while providing excellent intelligibility for the most challenging environments including large auditoriums and sport fields.

With a complete family of 8", 12", and 15" 2-way systems, designers and specifiers can select models for whatever SPL is required with the peace of mind that all units will provide outstanding pattern control.

90° H X 90° V models (8" and 12" models only) are suggested for shorter loudspeaker to listener distances and/or wider coverage requirements such as bleacher seating where the speaker may be in close proximity to the crowd.

65° H X 65° V (8", 12" and 15" models) square coverage pattern models are perfect for down-firing applications including convention centers.

90° H X 40° V patterns (8", 12" and 15" models) work well when longer speaker to listener distances require a tighter vertical coverage pattern. 15" AH series models offer an even slightly tighter pattern of 50° H X 40° V. This device is often mounted atop football field press boxes with the device aimed at the visitor side in conjunction with wider coverage pattern models to cover the home side bleachers.

### Common Design Features:

Multiple stainless steel mesh screens protect internal drivers from weather and pest damage. A primary rodent screen provides protection for all components, a secondary screen resides between the high frequency horn and the driver, and a third perforated screen protects the woofer.

Heavy-duty stainless steel mounting brackets are included with all models and three dropforge eyebolts are also included for overhead suspension (use only load-rated & approved hardware). For light pole mounting Atlas Sound also distributes matching accessories from Allen Products.

15" models AH9040S, AH6565S and AH5040S feature impressive, full range sound reproduction via a high excursion low frequency woofer and a concentrically mounted 1" exit compression driver. A highly efficient internal passive crossover network ensures proper transition between the two drivers, which collectively provide frequency response from 75Hz – 14.5kHz (±5dB).

With an efficiency rating in excess of 102dB (1W/1M), the 15" AH Series is a perfect choice for high-energy music playback at sporting events and extended range speech reinforcement for large venue emergency notification. The 8Ω rating allows maximum low frequency response and is a good match with Atlas Sound model CP700 amplifier. If transformer operation is required for long runs of smaller gauge cable please contact tech support for proper configuration and use of model AF140 auto-former. Termination is via rear mounted terminal block with a Plexiglas® cover for weather resistance.

The 8" & 12" 2-way models are perfect for applications where space considerations will not allow installation of the larger 15" 2-way models. All 8" & 12" models include a 60 watt, 70.7V / 100V internal transformer which is accessed via terminal block connector sealed by a weather resistant cover. Transformer may also be bypassed for direct coupled 8Ω operation.

AH Series Stadium Horns

AHSUB15S

AHSUBSTAND

## AHSUB15S

A perfect complement to any AH Series full range device, the AHSUB15S will provide extended low frequency response to add presence to any high energy music playback system. A specially designed, rear firing 15" cast frame woofer is mounted into a high volume chamber for optimum loading and output. These design elements provide an impressive frequency response down to 55Hz (-5dB) for accurate bass response. The AHSUB15S is capable of handling up to 250 watts RMS providing output in excess of 126dB (Rated power @ 1 Meter). Three eyebolt suspension points are provided along with mounting locations to allow stacked installation of other AH models.

## AHSUBSTAND

AHSUBSTAND allows the for easy installation of the AHSUB15S under bleacher seating or other areas where concrete slab mounting is possible. Stand provides secure mounting of the AHSUB15S in a down firing configuration to maximize output performance while helping to prevent theft and weather damage.

Holes are provided on the bracket feet for anchor points when mounting on concrete slab and additional holes are located on the frame to allow the AHSUB15S to be attached to the frame via chain or cable (Not Included) for optimal security.

## Allen Pole Mount – Mounting Accessories

As a convenience to our dealers Atlas Sound is proud to provide quality mounting solutions from Allen Products to facilitate pole mounting of the Atlas Sound AH series stadium horns. Please call Atlas Sound customer service at 800.876.3333 for assistance in choosing the correct hardware for your installation.

# AP Series Professional Omni-Purpose Loudspeakers

Atlas Sound environment-resistant loudspeakers are the world standard for voice, music, and signal transmission in indoor and outdoor public address, intercom, security, and industrial signal system applications. Cost-effective, all-purpose units incorporate high-efficiency compression drivers to project through high ambient sound levels and to cover long distances at minimum installed cost. Models assure superior intelligibility and service reliability. Units are metal and plastic construction. AP Series transformer-equipped models include a 3-way 25V / 70.7V / 100V transformer.

## Radial Loudspeaker for Suspension Mounting

### APR-30AT

30 watt loudspeaker with 40˚ circular sound dispersion is designed for overhead installation in industrial, transportation, manufacturing, service, recreation and sports centers. Equipped with a combination 25V / 70.7V / 100V transformer with screwdriver-adjust power selection including a 45 tap. Provision for suspended ceiling installation is included. Finished in gray baked epoxy. Includes conduit adapter.

*APR-30AT*

## Industry Standard Omni-Purpose Loudspeakers

### AP-15 / AP-30 Series

Patented environment-resistant, double re-entrant loudspeakers are available in 15 and 30 watt versions for medium and high-powered sound distribution. Selection includes 8 models for auxiliary and mobile loudspeaker use and 70.7V / 100V transformer models with screwdriver-adjust power tap selection for a variety of sound and signaling applications. All include the Omni-Purpose® bracket for vertical/horizontal positioning and have provisions for surface/strap mounting to pillars and I-beams. Finished in gray baked epoxy. Model AP-30TC also available in Beige finish.

*AP-15*

## Bi-Directional Twin Horn

### APT-34AT

Surface-mounting loudspeaker with bi-directional sound dispersion provides concentrated coverage in corridors, stairwells and walkways in commercial, institutional and industrial applications. Twin horn assembly delivers 30 watts of power with a single compression driver and provides 100˚ sound dispersion in each direction. Includes the Omni-Purpose® bracket and provisions for surface / strap mounting. Equipped with a combination 25V / 70.7V / 100V transformer with screwdriver-adjust power selection including a 45 tap. Finished in gray baked epoxy. Includes conduit adapter.

*APT34AT*

## Recessed Flange-Mounting Loudspeakers

### APF Series

High-efficiency, 15 watt loudspeakers are designed for recessed installation in sound and alarm system applications. Flange mounting units may be installed flush to a panel or recessed into wall or ceiling surfaces. For aesthetic consideration and retrofit convenience of existing cone loudspeaker installations, models will accept any 6" or 8" diameter recessed mounting baffle (Note: 8" baffle mounting requires model FAMT-6 mounting flange. See APF Series accessories, this section.) The APF-15 installs inside a 4" deep opening. The APF-15T fits inside a 5½" deep minimum opening and includes combination 25V / 70.7V / 100V transformer with screwdriver-adjust power tap selection. Finished in gray baked epoxy.

*APF-15T*

## Exponential Loudspeaker

### APC-30T

High-power 30 watt loudspeaker with extended low frequency response is equipped with a wide-angle molded plastic bell for sound directivity. Transformer includes a screwdriver-adjust power selection with a 45 tap for intercom and talk-back use. It also features the Omni-Purpose® bracket for vertical/horizontal positioning and have provisions for surface/strap mounting to pillars and I-beams. Finished in gray baked epoxy. For constant directivity performance, see APX Series.

*APC-30T*

*Horns & Compression Drivers*

## 7.5 Watt Loudspeaker

**WR-5AT**

Environment-resistant loudspeaker provides the advantages of music reproduction, high-efficiency voice / signal transmission and long-lasting service reliability. Recommended for background / foreground installations in hotels, schools, pools and recreational facilities. Assemblies are housed within a metal, weather-resistant enclosure. Finished in gray epoxy.

*WR-5AT*

## Utility Paging Re-Entrant Horn Loudspeakers

**GA Series**

Double Re-Entrant 15 and 30 watt utility horns offer economical and sound performance for general paging and music reproduction. Models GA-15T and GA-30T feature a combination 25V / 70.7V line transformer with multi-position knob for selecting power taps. In addition, loudspeakers include wiring for an 8Ω connection. Units are ideally suited for installations in commercial buildings, sports facilities and any applications where direct sound coverage is desired. GA Series models are constructed of weather resistant, high-impact plastic for indoor / outdoor installations and feature an adjustable surface mounting bracket to allow for multiple vertical and horizontal positioning. Loudspeakers are finished in gray epoxy.

*GA-3OT*

## Compact, High-Efficiency Loudspeakers

**SC Series**

Cost-effective series with versatile application provides directional sound projection and spot coverage in indoor and outdoor intercom and paging systems or functions as an extension loudspeaker to alarm systems and communication receivers. The Standard Model SC-15 is an 8Ω speaker and may be used with an external 25V / 70.7V transformer (order separately). Includes detachable swivel bracket. Weather-resistant construction. Finished in light beige epoxy. Also available SC-15-45 (45°) version

*SC-15-45*

## Utility & Mobile Communications Loudspeakers

**RCMR-15**

Accessory loudspeaker enhances voice intelligibility-range for communications, radio-telephone, electronic hailer and alarm system installations in marine and vehicular applications. The Series meets the element and vibration resistance requirements of industrial, service and utility vehicles and is recommended for area paging, intercom and low-power siren applications. Voice coil impedance is 8Ω. The RCMR-15 has a round projector and includes the Omni-Purpose® mounting bracket for vertical and horizontal positioning plus a rigid 90° angle platform-mount.

*RCMR-15*

**MO-2**

Compact, 8Ω unit is designed for signal transmission in vehicular alarm, CB, marine radio, and transceiver installations where concealed mounting or minimum aerodynamic obstruction is desired.

*MO-2*

Horns & Compression Drivers

800.876.3333

## *Voice Control™ Loudspeakers for Emergency Signaling*

## *High-Power Re-Entrant Loudspeakers*

### AP-15TU / APF-15TU

15 watt surface and flange mounting loudspeakers for life safety and communication system applications are designed for use with compatible control equipment to provide high-intelligibility voice and signal transmission in emergency alarm, protective signaling, sound and intercom system installations.

### AP-15TU(C) / AP-15TUCR

Surface mounting units with Omni-Purpose® mounting bracket for vertical and horizontal positioning. The Series also includes provisions for surface or strap mounting to pillars and I-beams.

### APF-15TU(C)

Flange mounting units for recessed installation.

All models include 25V / 70.7V Vari-Tap® transformer. Units with (C) suffix include 5-mfd capacitor for line supervision. Weatherproof construction. Finished in gray baked epoxy or red (R) as noted. Models comply with UL Standard 1480—Speakers for Fire Protective Signaling Systems and California State Fire Marshal (Title 19). Models with special modifications to meet New York City MEA (Calendar no. 57-74-SA) and UL Canada are also available as standard product. Contact Atlas Sound.

*AP-15TUC*

*AP-15TUCR*

*APF-15TU*

*Voice Control™ Loudspeakers for Emergency Signaling*

Atlas

*PD-30T*


*PD-60A(T) / PD-5VT*


*YDA-TH*

## 30, 40, & 60 Watt Drivers

PD Series.  Competitively priced compression drivers provide accurate sound reproduction, optimum intelligibility and dependable performance in commercial sound, high-power music and public address loudspeaker systems. Models are equally suited for application with Atlas Sound projector horns or as replacement drivers for use with standard $1\frac{3}{8}$" - 18 male thread horns.

## Universal Driver-To-Horn Adapter

YDA-TH.  Dual adapter for combining two compression drivers to one sound projector.
(Two $1\frac{3}{8}$"-18F thread to $1\frac{3}{8}$"-18M thread)


*HLE-1*


*MLE-1*


*HLE/MLE-30*


*HLE/MLE-32*

## Explosion-Proof Loudspeakers

HLE and MLE Series. These UL and CSA (HLE Models only) listed loudspeakers are specified for high-efficiency transmission of voice and/or electronic signals within explosive or combustible atmospheres and environments. Drivers and projector horns may be configured to comply with specific environmental classification groups within Class 1 ratings. HLE Series drivers are 60 watts. MLE Series are 30 watts. Both are offered with an internally mounted line transformer (-T) or without. To meet UL Standards for loudspeakers in distributed applications, models with factory-mounted transformer (-T) must be specified. Projector horn Model HLE/MLE-30 is a reflex-type sound projector of molded plastic with wide-angle dispersion. Model HLE/MLE-32 is an all-metal circular reflex horn with directional sound distribution pattern. Drivers and projector horns are ordered and shipped separately. For performance accuracy, specifications are listed for assembled configurations. All models are equipped with ½" conduit access and adjustable mounting bracket.

Model HLE/MLE-30 with a mounted driver measures 14" Width x 6" Height x 17½" Depth.
Model HLE/MLE-32 horn with a mounted driver is 16½" Diameter x 21½" Depth.
For Canadian Use: CSA listed product (HLE 2 Series) are available in both Class 2 (Explosion Proof and Dust Ignition Proof Electrical Equipment) and Class 3 (Explosion Proof). Please call for details.
Atlas Sound explosion proof Speakers meet division 2 criteria.

## Bi-Axial Horn with Gimbal Mount

### BIA-100

A twin reflex air column for controlled directivity and an exponential bell for constant sound dispersion and linear frequency response emphasis. Unit is designed for use with compression driver units in high-power voice, music, and signaling systems including service and mass transit centers, industry and commerce, educational, and institutional applications. Patented gimbal mount for surface or flange mounting provides labor-saving installation and horizontal/vertical positioning adjustment. Non-resonant foam construction is suitable for indoor and outdoor application. Finished in non-glare matte black.

## Horn for Exponential Sound Dispersion

### CJ-46

All-purpose unit is a low silhouette, directional horn for sound and signaling installations where wide-area dispersion and maximum sound and audibility are required. Recommended for use with compression driver units in indoor and outdoor applications including community warning systems, sports, and leisure facilities, industry, and commerce. Mounting bracket for vertical, horizontal, or stacked positioning is heavy-duty steel with positive lock. Weatherproof bell is all-fiberglass construction finished in black.

## Horns for Uniform Directional Sound Projection

### DR Series

Circular horns offer clean and uniform reflex sound path for high-efficiency penetration of voice or music over distance and ambient noise. Designed for use with compression drivers in sound and signaling installations including industrial plants, retail service establishments, sports facilities, church towers, amusement parks, and mass transit terminals. Includes heavy duty "U" shaped mounting bracket. All-metal construction. Finished in gray baked epoxy.

*CJ-46*

*BIA-1OO*

*DR-54*

Horns

*T10*

*T20*

*T18*

*BX-3A*

*BX-2A*

*BX-1A*
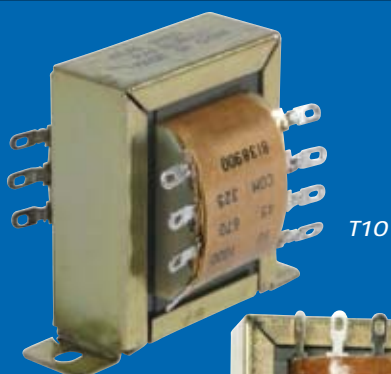
## 15, 30, & 60 Watt Transformers

Atlas Sound constant-voltage line-matching transformers are designed for use with compression driver type loudspeakers. All units provide low insertion loss and cost-efficient power handling. (Transformers for cone loudspeakers are listed in on page 24).

### T10  15 Watt Transformer

Primary: 8K, 4K, 2K, 1K, 670, 325, 180, 90, & 45 .
25 Volt power taps: .3, .6, .9, 1.9, 3.5, 7, & 14 watts.
70.7 Volt power taps: .65, 1.25, 2.5, 5, 7.5, & 15 watts.
Secondary: 4, 8, & 16 .

### T20  30 Watt Transformer

Primary: 2500, 1300, 666, 333, 167, 89, & 45 .
25 Volt power taps: 1.89, 3.7, 7, & 15 watts.
70.7-Volt power taps: 1.8, 3.7, 7.5, 15, & 30 watts.
Secondary: 8 .

### T18  60 Watt Transformer

Primary: 2K, 1K, 500, 250, 125, 85, and 45 .
25 Volt power taps: .3, .6, 1.25, 2.5, 5, 7, & 14 watts
70.7 Volt power taps: 2.5, 5, 10, 20, 40, & 60 watts.

Secondary: 4, 8, & 16 .
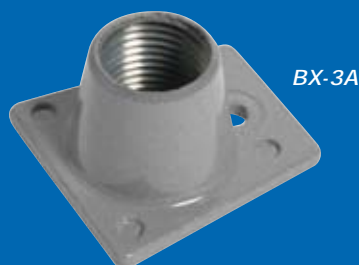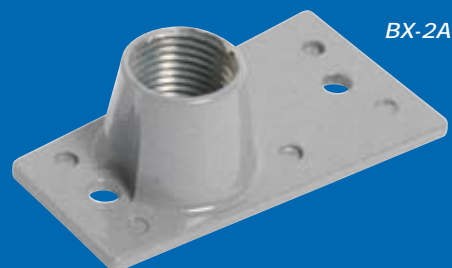
## Cable / Conduit Adapters

Vandal-resistant cover plates for armored cable and conduit connection are designed for use with environment-resistant, double re-entrant loudspeakers. BX Series mounts standard male threaded pipe with 14 threads per inch. Construction is cast aluminum.

## Mounting Accessories

APBK     Replacement Omni-Purpose® swivel bracket, gray.

FAMT-6   Mounting ring/adapter allows a 6" cone or APF Series loudspeaker to mount an 8" enclosure and/or grille.
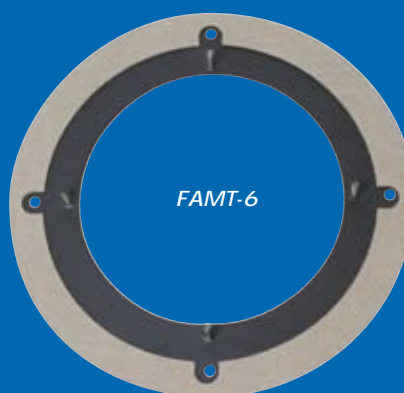
*FAMT-6*

*APBK*

# APF Series Baffles, Enclosures & Mounting Rings



L20-100



L20-101



L20-201



L20-213



L20-220



L20-222



193-8-6

### L20-100
- Round grille
- CRS construction with baked white epoxy finish.
- Mounts APF-15 or APF-15T.
- 11" (279mm) Diameter x ³⁄₈" (10mm) Deep.

### L20-101
- Square grille.
- CRS construction with baked white epoxy finish.
- Mounts APF-15 or APF-15T.
- 10½" Square (267mm) x ³⁄₁₆" (5mm) Deep.

### L20-201
- Recessed 20-gauge.
- CRS enclosure for L20-100 grille.
- Includes combination conduit knockouts for access.
- Undercoated to prevent resonance.
- 8⁹⁄₁₆" (217mm) Diameter x 6" (152mm) Deep.

### L20-213
- Square surface enclosure for mounting L20-101 grille.
- Conduit knockouts and mounting holes located in top.
- White epoxy finish.
- 10½" Square (270mm) x 6" Deep (152mm).

### L20-220
- Round mounting ring for L20-100 grille.
- 8⁹⁄₁₆" (217mm) Diameter x ⁵⁄₈" (16mm) Deep.

### L20-222

- Same as L20-220 with mounting ears for 24" (610mm) lay-in tile.

### 193-8(6)
- Cost-efficient enclosure is provided in two depths
- Furnished with four compound conduit knockouts for standard screw-mount baffle installation.
- Undercoated and finished in black epoxy.

Baffles, Enclosures, & Mounting Rings for APF Series Loudspeakers

Baffles

## *Round Economical Steel Baffles*

### 51 Series

This industry favorite is an aesthetically pleasing and cost-efficient baffle available in standard screw-mount or labor-saving torsion-spring (T) versions. Models for 4" loudspeakers include welded mounting studs. One-piece CRS construction. Textured white epoxy finish.

*51-8*

## *Round Aluminum Baffles*

### 60 Series

Popular series is available in standard screw-mount. One-piece construction. Available in choice of beautiful, satin aluminum finish or textured white (W) where noted.

*60-8*

## *Round Decorative Steel Baffles*

### 61 Series

Attractive baffle includes concealed loudspeaker mounting studs for clean appearance and ease in loudspeaker attachment. Available in standard screw-mount and torsion-spring (T) versions where noted. Two-piece welded CRS construction. Available in textured white epoxy.

*61-8*

## *Round General Purpose Steel Baffles*

### 62 Series

This versatile design is popular for a wide variety of applications. The 62-8 model utilizes standard screw-mount installation. The T62-8 model features torsion spring installation for a hardware-free appearance. Both have concealed loudspeaker mounting studs. One-piece CRS construction. Textured white epoxy finish.

*62-8*

| Model | Mounts | | |
| --- | --- | --- | --- |
| | Mounting Ring | Tile Bridge | Enclosure |
| 51-4 | — | 81-4 | (EZ)96-4 Series,(EZ)96-4X Series |
| 51-8 | 75-8, 76-8(E2), P77-8, P78-8 | 81-R(S) | (EZ)95-8 Series, T95-8 Series, Q408, CS95-8, BMT95-8(7) |
| | | EQ81 | (EZ)96-8 Series |
| 60-4 | — | 81-4 | (EZ)96-4 Series, (EZ)96-4X Series |
| 60-8(W) | 75-8, 76-8(E2), P77-8, P78-8 | 81-R(S) | (EZ)95-8 Series, T95-8 Series, Q408, CS95-8, BMT95-8(7) |
| | | EQ81 | (EZ)96-8 Series |
| 61-8W | 75-8—, 76-8(E2), P77-8, P78-8 | 81-R(S) | (EZ)95-8 Series, T95-8 Series, Q408, CS95-8, BMT95-8(7) |
| | | EQ81 | (EZ)96-8 Series |
| 61-12W | — | — | 95-12, 95-12-12 |
| 62-8 | 75-8, 76-8(E2), P77-8, P78-8 | 81-R(S) | (EZ)95-8 Series, T95-8 Series, Q408, CS95-8, BMT95-8(7) |
| | | EQ81 | (EZ)96-8 Series |

## Round Plastic Recessed Ceiling Baffles

### P900

Acoustical louver design provides maximum sound transmission and dispersion. Features standard screw-mount installation with concealed loudspeaker mounting. Molded from high-impact polystyrene plastic. Color is ceiling white.

*P900*

## Round Contoured Aluminum Baffles

### M222W Series

Popular baffle is available in standard screw-mount. One-piece aluminum construction. Finished in textured white (W) as noted.

*M222W*

## Round Sculptured Concealed Mounting Baffles

### T720 Series

High-quality grille with contoured trim ring and fine perforation pattern coordinates with lighting fixture trims to provide a clean and contemporary appearance for 4" & 8" loudspeakers. Models have provisions to accommodate ceiling thicknesses up to 2" deep. All models also feature a flush perforated center section, torsion springs, and concealed loudspeaker mounting studs. Welded CRS assemblies are finished in textured white.

*T720-8*

## Round Concealed Mounting Baffles With Regressed Steps

### T730 Series

Superb design features interior regressed steps to simulate recessed lighting fixtures. Torsion spring installation and concealed loudspeaker mounting studs eliminate all visible hardware. Welded CRS construction prevents vibration. Two-tone finish is matte white on the outer trim and black on the interior. T730-4 Series is $1\frac{1}{16}$" (27mm) deep.

*T730-4*

Baffles

| Model | Mounts | | |
| --- | --- | --- | --- |
| | Mounting Ring | Tile Bridge | Enclosure |
| P900 | 75-8, 76-8(E2), P77-8, P78-8 | 81-R(S) | (EZ)95-8 Series, T95-8 Series Q408, CS95-8, BMT95-8(7) |
| | | EQ81 | (EZ)96-8 Series |
| M222W | 75-8, 76-8(E2), P77-8, P78-8 | 81-R(S) | (EZ)95-8 Series, T95-8 Series Q408, CS95-8, BMT95-8(7) |
| | | EQ81 | (EZ)96-8 Series |
| T720-4 | PR411 | FA81-4 | E410(-11), E410NK, EZE410 |
| T7204BT | PR411 | — | (EZ)E410 Series |
| T720-8A | T75-8(E1)(E2) | 81-8S | T95-8 Series, BMT95-8(-7), EZ95-8 |
| T730-4(-B)(-W) | PR411 | FA81-4 | BMT95-4(7), (EZ)E410 Series |

# Atlas Sound

## Square Contemporary Wall / Ceiling Baffles

### 161 Series

Handsome design and concealed loudspeaker mounting studs present this baffle as an ideal choice for most office interiors. Available in standard screw-mount. Construction is one-piece CRS and includes no leak gasket. Finish is textured white epoxy.
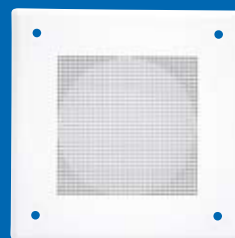
*161-8*

## Square Deluxe Steel Baffles

### 164 Series

Beveled-edge trim square features a large protective screen with separate loudspeaker mounting plate for extended "no leak" bass response. Available in standard screw-mount. Two-piece CRS construction. Textured white epoxy finish. Models 164-8A & 164-12A also available in black (-052).

*164-8A*

## Square Economical Wall or Ceiling Baffle

### 169-8

Cost-efficient, beveled-edge trim square features round protective screen, standard screw-mount installation and direct loudspeaker mounting. One-piece CRS construction. Finished in textured white epoxy.
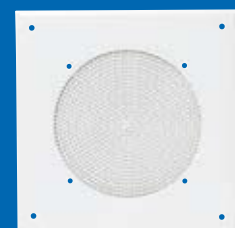
*169-8A*

## Square Perforated Baffle

### 170-8A

Popular design features a die-formed frame with shallow bevel and perforated screen. Separate loudspeaker mounting plate provides extended "no leak" bass response. Baffle is standard screw-mount installation with concealed loudspeaker mounting studs. Two-piece CRS construction. Finished in textured white epoxy.

*170-8A*

| Model | Mounts | | |
| --- | --- | --- | --- |
| | Mounting Ring | Tile Bridge | Enclosure |
| 161-4 | — | — | 198-4, SE175-4 |
| 161-8 | — | 81-8S | 198-8 Series, SE175-4 |
| 164-8A | — | 81-8S | (SM)191-78 Series, Q418, QS408 |
| 164-12A | — | — | Q4412, Q4612, Q4712, Q4812 |
| 164-15A | — | — | Q4915 |
| 169-8A | — | | 193-8(-6) |
| 170-8A | 75-8, 76-8(E2), P77-8, P78-8 | 81-R(S) | (EZ)95-8 Series, T95-8 Series Q408, CS95-8, BMT95-8(7) |
| | | EQ81 | (EZ)96-8 Series |

## Compact Aluminum Baffles for Wall or Ceiling Use

### 410 Series

Ideal for unidirectional applications where mounting space is limited. Baffle mounts easily to wall, ceiling or 4" (102mm) octagon E.O. box (by others). Manufactured of aluminum, undercoated and patch-jute lined. Finished in satin aluminum or textured white (W) where noted.



*410-8*

## Wood Slope-Front Baffle / Enclosures

### 417-8WD

These wood slope-front baffles are ideal for installations that require the aesthetics of classic enclosure design, particularly classrooms, offices, reception areas, and retail outlets. Offered for use with 8" loudspeakers (sold Separately) and features a baffle / enclosure with walnut grain laminate, black fabric grille, and a 9.5˚ slope for directional sound dispersion.
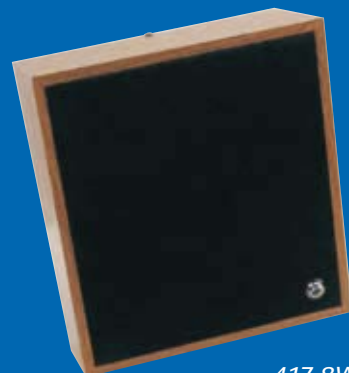


*417-8WD*

## Cylindrical Bi-Directional Baffle / Enclosures

### 510 Series

Attractive enclosure with two spun grilles is designed to mount a single 8" loudspeaker for wall or ceiling installations where bi-directional sound dispersion is desired. Aluminum construction is patch-jute lined and undercoated to prevent mechanical and acoustic resonance. Mounts to a 4" (102mm) octagon E.O. box (by others). Finished in satin brushed aluminum or textured white (W).



*510-8*

Baffles

| Model | Mounts | | |
| --- | --- | --- | --- |
| | Mounting Ring | Tile Bridge | Enclosure |
| 410-4 410-8(W) | — | — | (4" octagon E.O. box) |
| 410-4 410-8(W) | — | — | (4" octagon E.O. box) |
| 415-8(W) 417-8WD | — | — | (included) |
| 510-4 510-8(W) | — | — | (4" octagon E.O. box) |

## Recessed Circular Baffle

VP60-R. Ruggedly constructed baffle assembly provides tamperproof protection for 8" cone loudspeakers or APF Series re-entrant horns by means of adapter plate FAMT-6 (order separately). Trim ring is cast from self-aging aluminum alloy with a tensile strength of 44,000 P.S.I. Loudspeaker grille is stainless steel woven wire mesh reinforced by a perforated CRS loudspeaker adapter. Tamperproof screws are manufactured of a special heat-treated alloy and mount in countersunk holes for added security (special wrench included). Finished in satin aluminum with a clear lacquer coating.

## Re-Entrant Horn Adapter Plate

FAMT-6  Specially designed plate retrofits vandal-proof baffles to accept APF Series re-entrant horns. It is also a general-purpose mounting ring/adapter for retrofit applications which allows a 6" cone or horn loudspeaker to mount an 8" enclosure and/or baffle. (Model FAMT-6 replaces VPA-APF.)

VP161

## Recessed or Surface-Mount Square Baffles

VP161 Series. Versatile series features security for a variety of cone and re-entrant horn loudspeaker types and sizes. Manufactured from special self-aging aluminum alloy with a tensile strength of 44,000 P.S.I. loudspeaker grille is reinforced with a perforated CRS stud-mounting plate. Baffle installs with special heat-treated alloy screws which are countersunk to enhance security (special wrench provided). Finished in textured white epoxy. Baffles may be flush or surface-mounted using only noted enclosures.

## Uni-Directional and Bi-Directional Baffle / Enclosures

VP410-S / VP510-B. Welded cylindrical baffles of sturdy construction provide security against vandalism for 8" cone loudspeakers. Model VP410-S is a surface mount uni-directional baffle/enclosure that can be used with 8" cone loudspeakers and APF Series re-entrant horns by means of adapter plate FAMT-6 (order separately). Model VP510-B is identical to the VP410-S, except that it includes an attractive canopy mount designed for bi-directional sound dispersion. Housings are spun .090 tempered aluminum plate. Loudspeaker grille is cast from special self-aging aluminum alloy with a tensile strength of 44,000 P.S.I. Grille is reinforced with a stainless steel wire mesh screen spun over a CRS subplate. Housing and grille are assembled using flush-mount heat-treated alloy screws. Models mount to standard E.O. boxes (not included), however, the VP410-S installs via keyhole slots on the rear of the housing or may be flush mounted with anchors to ceiling or wall. The VP510-B installs using a heavy cast aluminum canopy for ceiling or wall installations. Baffle and housing are finished in satin aluminum with a clear lacquer coating. Canopy (of VP510-B) is finished in black epoxy.
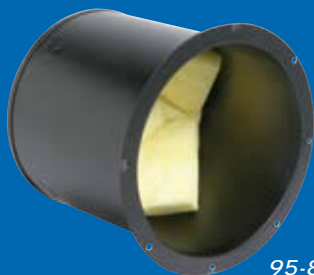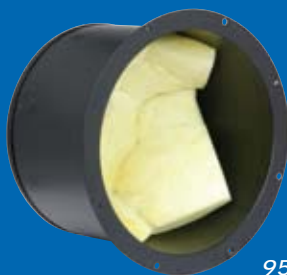
EZ95-8


BMT95-8


BMT95-4-7


95-8-10


95-8-7


191-78-8


96-8


SM191-78-8


198-8-8

Enclosures

## EZ Mount Enclosure System for Suspended Ceilings

Time and labor-saving enclosure system for 4" and 8" loudspeakers installs quickly and efficiently. Enclosures have premounted brackets and install easily with screws to support rails provided. No costly tile bridge is necessary. Welded CRS enclosures are undercoated and finished in textured black epoxy. Support rails are CRS and finished in a galvanized coating.

## Enclosure System for Difficult Access Ceilings

**Blind-Mount Enclosures for 4" & 8" Loudspeakers**

BMT Series  Unique enclosure system provides easy and cost-effective loudspeaker installation in hard-to-access ceilings, including drywall. Models are equipped with unique mounting ears that telescope out from the enclosure interior and adjust vertically to accommodate ceilings with a thickness of ½" (13mm) to 1⅜" (35mm). Construction is CRS with torsion spring receptacles and three ½" (13mm) conduit knockouts in the enclosure top. J-Nuts are included on the return of the enclosure to accommodate surface-mounting grilles. Standard depth Models BMT95-8 and BMT95-4 include sound dampening material to minimize metallic resonance. Extra depth Models BMT95-8-7 and BMT95-4-7 feature high-density, acoustic batting.

## Enclosure for Extended Loudspeaker Performance

**Extra-Depth Backboxes for 8" Loudspeakers**

Achieve improved low-frequency performance of 8" commercial and professional loudspeakers with Atlas Sound extra-depth enclosures. Increased volume extends bass response by allowing additional acoustic loading for cost-effective application wherever enhanced audio quality is desired. Enclosures are undercoated and lined with 1½" (38mm) thick high density fiberglass (1½ lbs per ft³) to prevent metallic resonance in the high end of the frequency spectrum. Models include industry-standard 95 Series in screw-mount and torsion spring (T) versions, popular 96 Series with internal mounting holes on the flange for installation convenience in acoustic tile ceilings and Model 191-78-8 with adjustable mounting bracket for installation flexibility in a variety of ceiling types and depths. All enclosures are heavy-gauge CRS furnished with combination conduit knockouts. Recessed models are finished in textured black epoxy. Surface model is finished in textured white epoxy.

## Q Series Enclosures
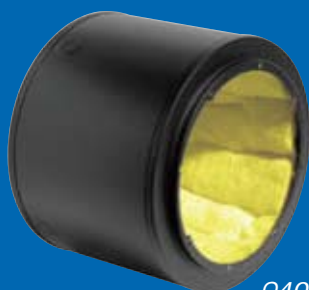
Q408

QS408
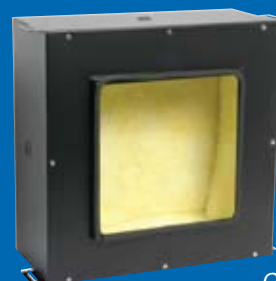
Q4915

Q4712

Q4612
(with QPLATE40)

Q428-SA
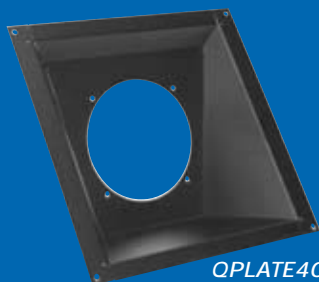
QPLATE40
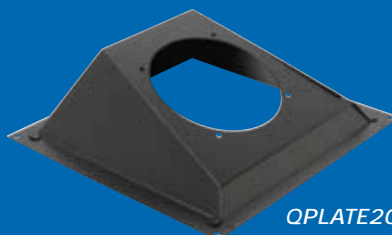
QPLATE20
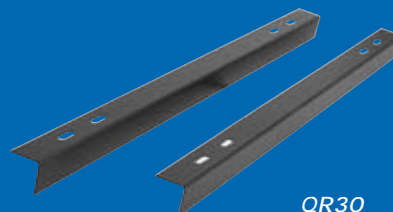
QR30

Q Series assembly matches the acoustical characteristics of ³⁄₄" (19mm) plywood, while providing the structural, economic, and code regulation benefits afforded by metal enclosures. Construction is 18-gauge CRS with formed strengthening ribs on the enclosure back. Acoustic fiberboard is permanently affixed to the inner wall surfaces of all square enclosures to eliminate hangover and vibration (cylindrical enclosures utilize undercoating). Inner walls are also lined with 1½" (38mm) thick fiberglass having a 1½lb. / ft³ density to control unwanted resonances in the high end of the frequency spectrum. Compound ½"-³⁄₄" (13mm – 19mm) conduit knockouts are furnished on all four sides to facilitate wiring. Enclosures are finished in black textured epoxy (Q428-SA is white epoxy).

*Note: Recessed enclosures with a cubic content greater than 1ft³ may require optional QR Series mounting angles.*

### Surface Mount Enclosure with Premounted CRS Baffle

Q428-SA.  Convenient assembly is 1½ft³ with ½" thick fiber board. Package includes above specifications and premounted baffle (included) is recessed into the enclosure for flush appearance. Back plate is removable for installation ease. Finish is textured white epoxy.

### Mounting Angles

QR30.  Optional angles are recommended for Q Series enclosures with a cubic content greater than 1ft³ 16-gauge CRS construction. Angles are 30" Length (762mm) and finished in black baked epoxy (1 pair).

### Q Plates

Atlas Sound Q Plates allow 8" speakers to be mounted in enclosure models Q4612, Q4712 and Q4812 with 20° or 40° offset angle to compensate for angled ceilings.

QPLATE20 20˚ offset plate mounts 8" speakers
QPLATE40 40˚ offset plate mounts 8" speakers
12TO8PLATE adapts 12" enclosure to mount 8" speakers

96-4X


95-8


CS95


96-8


T195-8


95-12


E410-11


E410NT


96-4

Enclosures

## Extra-Depth Enclosure for 4" Loudspeakers

**96-4X Series.** Providing improved low-end performance for 4" loudspeakers. The 96-4X has a volume of $\frac{1}{4}$ft$^3$ (.007m$^3$). Similar to Series 96-4 with increased width and depth. Constructed of CRS, undercoated, and finished in textured black epoxy.

## Economical Enclosure for 8" & 12" Loudspeakers

**95 Series.** Versatile, industry-standard enclosures are available in many configurations to meet installation and application requirements. Original Models 95-8 and 95-12 are furnished with four compound conduit knockouts each, flexible perforated straps and 8-32 J-Clips. Models with (T) prefix are also equipped with torsion-spring receptacles. Assemblies are CRS with textured black epoxy finish and patch-jute lining.

## Stackable Enclosures

**CS95 Series.** Ideal for contractors with limited storage facilities, this conically shaped enclosure nests to achieve reduced inventory space requirements and transportation costs. Furnished with four combination conduit knockouts $\frac{1}{2}$"– $\frac{3}{4}$" (13mm – 19mm), flexible perforated strap, and four J-clips. One-piece CRS construction, undercoated, patch-jute lined and finished in textured epoxy.

## Enclosure with Internal Mounting Holes

**96 Series.** This popular enclosure is designed with mounting holes located on the internal flange of the enclosure to provide installation ease and convenience in acoustic tile ceiling applications. Furnished with four compound conduit knockouts and extended $\frac{3}{8}$" plaster flange. Constructed of CRS, undercoated and finished in textured black epoxy.

## Torsion Spring Enclosures for 4" Loudspeakers

**E410 Series.** Enclosures mount 4" loudspeakers and accept a variety of torsion-spring grilles. The E410 is $\frac{1}{4}$ft$^3$ (.007m$^3$) enclosure, E410-11 is an extra-depth [$\frac{1}{2}$ft3 (.014m$^3$)] version of the E410. All versions are constructed of CRS, undercoated, equipped with torsion spring receptacles, and finished in textured black epoxy. Use model FA81-4 tile bridge or 180 Series rails for suspended ceiling applications.

## Economical Compact Enclosure For 4" Loudspeakers

**96-4 Series.** Cost-effective enclosure for 4" (102mm) loudspeakers are designed to screw-mount to baffles 51-4 and 60-4. Model 96-4 is equipped with compound conduit knockouts.

Atlas

# Atlas Sound


198-8


198-4


SS198-4


SE161-R


161RES


161-SES


SE198-4


SM191-78-8


191-78-8

## Economical Enclosure

**193 Series.** Cost-efficient enclosure is provided in two depths and furnished with four compound conduit knockouts for standard screw-mount baffle installation. Construction is CRS, undercoated and finished in black epoxy.

## Enclosure for 4" and 8" Loudspeakers

**198 Series.** 198-4 is designed for 4" (102mm) loudspeakers and will accommodate standard screw-mount baffles. 198-8 is designed for 8" (203mm) loudspeakers and is available in two depths and choice of standard screw-mount or torsion-spring (T) baffle mounting configurations. All models are CRS construction with four compound conduit knockouts. For extra depth Model 198-8-8 with acoustic fiberglass, refer to page 61.

## Surface Mount Enclosure for 4" Loudspeakers

**SE198-4.** Contemporary design is suitable for a wide range of commercial and industrial applications. CRS construction, undercoated, and finished in textured white.

## Enclosures for Vandal-Proof Baffles

**161 Series.** Durable enclosures are designed to surface mount all VP161 Series vandal proof baffles. Stainless Steel construction with undercoating. 161SES Surface mount model finished in textured white. 161RES recessed model.

## Contemporary Enclosure

**SE175-4.** Attractive and highly versatile surface mount enclosure will accommodate standard screw-mount and torsion spring baffles. CRS construction, undercoated and finished in textured white.

## Deluxe Enclosure

**SM191-78.** Architecturally pleasing surface mount enclosure presents a clean, crisp appearance. CRS construction, undercoated and finished in textured white. For extra depth, see Model SM191-78-8 with acoustic fiberglass on page 45.

## Enclosure with Adjustable Mounting Bracket

**191 Series** Versatile enclosure is ideal as a standard stock item. Features an adjustable mounting bracket ($\frac{1}{16}$" – $\frac{3}{4}$") to provide installation flexibility in a variety of ceiling types and depths. Series is available in choice of two depths and for standard screw-mount baffle installation. CRS enclosure is furnished with four compound conduit knockouts, heavy undercoating, patch-jute lining and black epoxy finish. For extra-depth see Model 191-78-8 with acoustic fiberglass on page 45.

800.876.3333

# Baffle / Enclosure Mounting Accessories

## Tile Bridges for 4" & 8" Loudspeakers

81-8S / 81-8R / 81-4 / EQ81.  Load-bearing bridges prevent ceiling tile sag in ceiling installations by distributing loudspeaker, enclosure and/or baffle assembly weight to overhead T-bar support members. Model 81-8S mounts 8" loudspeaker packages and enclosures and features a square cut-out with a multi-position hole pattern to accommodate a variety of round and square baffles including torsion spring and screw-mount models. Model 81-8R has a round cut-out and mounts 8" loudspeaker packages and enclosures; the 81-4 has a round cut-out and mounts 4" loudspeaker packages. All tile bridges are constructed of 24-gauge rust-resistant electrogalvanized steel, except model EQ81 which is 20-gauge.

## Channel Supports

180 Series.  For application in suspended ceiling installations where adequate support is not available to mount loudspeaker, enclosure, and baffle. Furnished with provisions to mount any type of protective enclosure or plaster frame. CRS construction. Galvanized finish.

186 Series.  Support rails provide quick and efficient installation of protective enclosures and mounting rings in 16" (406mm) and 24" (610mm) stud ceiling construction. Adjustable slot and sliding basket nut allow a wide range of positioning flexibility to meet your application requirements. 186 Series is ideal for use with 95 Series and 96 Series enclosures and 75 Series and 76 Series mounting rings for 8" loudspeakers. Note: series will not accept enclosures and mounting rings for 4" loudspeakers. CRS construction. Galvanized finish
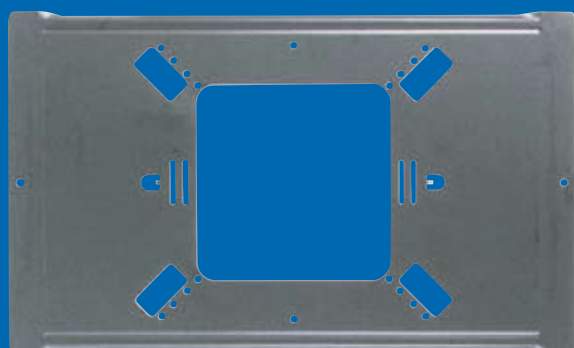
*81-8S*
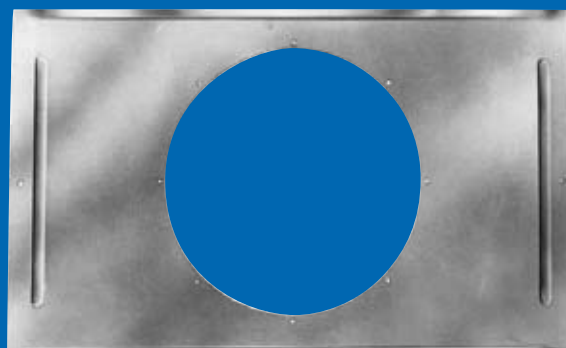
*81-8R*

*EQ81*
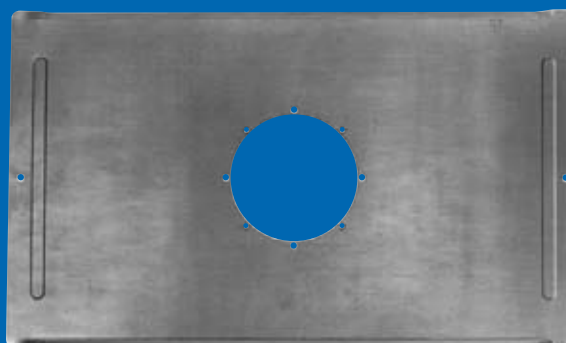
*81-4*

*186-24*

*186-16*

*180-4*

*180-2*

Baffe & Enclosure Mounting Accessories

# Mounting Rings

## 75 Series

Versatile series is ideal for installation of screw-mount and torsion-spring (T) baffles with 8" (203mm) and 12" (305mm) loudspeakers. Recommended for a variety of ceiling constructions including dry wall, plaster, and conventional ceiling applications when protective enclosures are not required. CRS construction. Finished in black epoxy. Four staking rivets or two torsion tabs included. (E1 suffix designates models with mounting ears for 16" (406mm) stud ceilings; E2 for 24" stud ceilings.) Note: T75-8 will not accept Model T730-8 grille.

## 76-8

For installation of screw mount baffles with 8" (203mm) loudspeakers in drywall, plaster, and conventional ceiling construction. CRS construction. Finished in epoxy. Four 8-32 J-nuts included.

## P Series

Plastic mounting rings are ideal for retrofit applications with hard-to-access ceilings. Model P77-8 may be conveniently installed from ground level by cutting a 12" (305mm) diameter hole in the ceiling, snapping ring at breakslot, and maneuvering it up through hole to rest above ceiling. Model P78-8 includes mounting ears for conventional installation in 16" (406mm) stud ceilings. Construction is polystyrene plastic. Four J-nuts included.

## PR411 / TR411

Versatile mounting ring installs to a variety of torsion-spring grilles with 4" (102mm) loudspeakers in drywall, plaster and conventional ceiling construction. Recommended for ease and economy when a protective enclosure is not specified. CRS construction. Finished in black epoxy. Includes torsion tabs. TR411 includes ears for mounting to 16" or 24" O.C. studs.

*Baffle & Enclosure Mounting Accessories*

*T75-8*
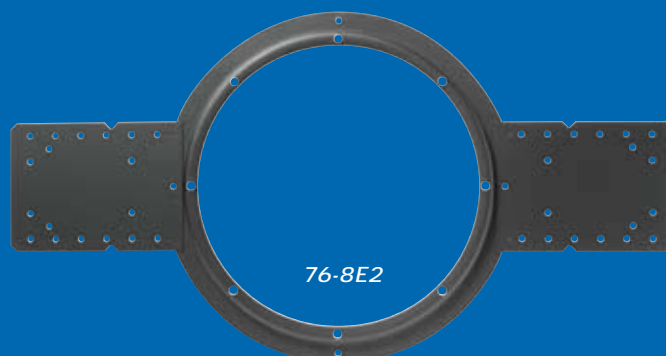
*76-8E2*

*76-8*

*P77-8*

*P78-8*

*PR411*

*TR411*

*840-89A*
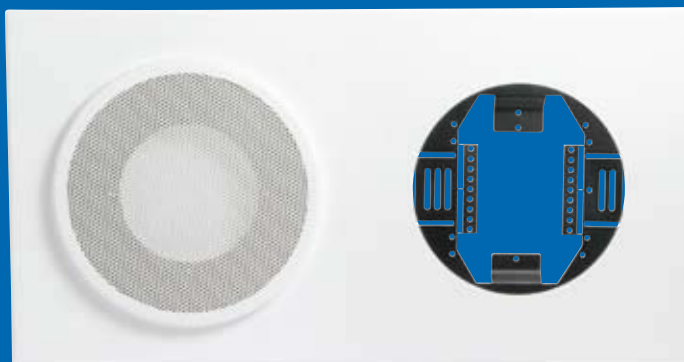


*830-812A*



*SM194-812*
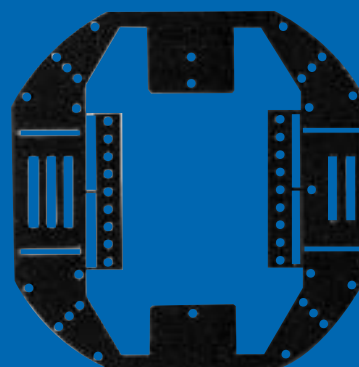


*Universal Mounting Bracket*

## Analog Clock / Speaker Baffles

Atlas Sound clock / speaker baffles feature a patented (US Patent #5,735,493) universal clock mounting bracket which enables secure mounting of any 9", 10", or 12" standard clock (by others). Universal clock mounting bracket is secured via #4 weld studs. To ensure proper fit, the overall diameter of the selected clock must clear the clock / hole clearance diameter listed in the chart below. All clocks mount from the front. The bracket can also be easily modified (trimmed) in the field to clear clock dust covers or motors. Compatible clock manufacturers include: American Time & Signal, Cincinnati, DuKane, Edwards, Faraday, Franklin, Latham, National, Rauland, Standard, and Simplex.

**830 Series.** Economical recessed or surface-mounting assembly features a CRS grille and trim ring mounted on an 18-gauge CRS panel. Unit also includes a black gasket for concealed loudspeaker mounting. Assembly installs with double-action torsion spring system to eliminate visible hardware. Assembly is finished in textured white.

**840 Series.** Baffle for recessed or surface-mounting features a CRS perforated grille, CRS frame and black subplate for concealed loudspeaker mounting. Grille and frame are finished in textured white epoxy.

## Enclosures for Clock / Speaker Baffles

Enclosures are heavy-gauge CRS, undercoated and finished in black epoxy. Ample conduit knock-outs are furnished on all sides for easy wiring. 194 Series and 195 Series include a compartment divider panel to separate high and low-voltage wires. Surface models are finished in textured white epoxy.

# Atlas Sound

## UL 263 Fire-Resistant Speaker Assemblies

### FR Series

Atlas Sound has developed the only speaker assemblies that are UL classified for fire-resistance in the United States and Canada. The FR Series has passed a fire-rating up to three hours (rating varies by ceiling construction) and has been tested in accordance with the UL standard – Fire Test of Building Construction and Materials, ANSI/UL263 (ASTM E119, NFPA 251).

FR Series assemblies include an enclosure-fiber kit, UL Listed speaker / transformer assembly, and UL Listed baffle. Each enclosure-fiber kit includes pre-cut fiber panels, metal enclosure, rail set and hardware. The speaker / transformer combinations approved for use in FR assemblies are FR versions of the industry standard Atlas Sound Strategy Series® FA136, FA138 models and the C803A, C10A, and FC104 loudspeakers. The approved baffles are also FR versions of familiar Atlas Sound models.

### FAQ – Atlas Sound FR Series Loudspeaker Packages

Q. Why do I need Atlas Sound Fire Rated Ceiling Speaker Assemblies?

A. You will need the Atlas Sound Fire Rated Speaker Assemblies if the ceiling being constructed has to conform to UL Standard 263 "Fire Tests of Building Construction Materials". These will work in 32 different 1 hour, 2 hour, and 3 hour fire resistant ceiling designs as listed in the 1999 UL Fire Resistance Directory.

Q. How can I find out if the Atlas Sound FR Series will be approved in my application?

A. Check with the local Fire Marshall or Building Inspector, who will have the final say in the approval of the FR Series Loudspeakers.

Q. Will the Atlas Sound Fire Rated Speakers work in a sheet rock ceiling?

A. No, the UL Standard 263 is for drop in or lay in tile applications only.

Q. Can I just use the FR Series baffles, enclosures or speakers by themselves?

A. No, the UL Standard 263 is only for the entire package only.



*FR Series Pre-Assembly*



*FR Series Cut-Away*

### Atlas Sound FR Series Benefits Are Clear! UL Classification!

The UL mark is universally recognized and respected. Local regulatory agencies can feel confident in approving the UL Classified FR Series… the only UL Classified Fire Resistant Speaker Assemblies in the US and Canada!

**Quick Installation & Low Installed Cost!**
The installed cost of an FR Series loudspeaker system will be substantially lower than the installed cost of a conventional loudspeaker system using contractor-constructed drywall fire boxes.

**Wide Selection & Proven Performance!**
FR Series loudspeaker components are UL Classified versions of proven Atlas Sound models. Installing an FR Series system means no compromise in Atlas Sound's high performance and quality standards.

Atlas Sound Makes Installations Easy!

1  Attach rails to enclosure

2  Assemble pre-cut fiber panels over enclosure, notch fiber at rails

3  Wire top panel to sides at four corners
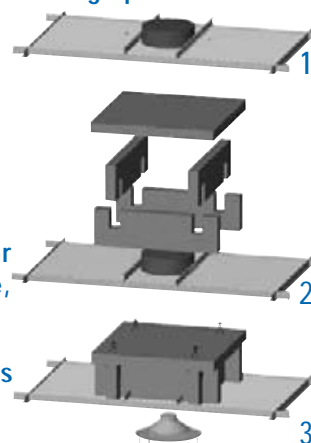
# Industry Standard
## Auto Transformer Attenuators

### AT Series

UL listed high-quality auto transformer series provides the advantages of excellent frequency response, low insertion loss and reliable performance for volume control application in 25V and 70.7V systems. Attenuation is accomplished in ten steps plus positive off position. (No stop between maximum and off position to prevent switch damage). Contacts are silver plated for noise-free operation. Includes stainless steel plate, stamped and filled dial scale with skirted black knob.

### AT Decora Series

The same as the AT Series with both White and Ivory Decora Style plastic plates with matching skirted knobs.

## Auto Transformer with Precision Level Control

### E408-100

Specially designed for attenuation in masking and sound reinforcement systems where fine tuning of level control is required. The E408-100 employs a ten-position, non-shorting rotary switch without stop. Attenuation rate is 1.5dB per step. (All other specifications are the same as the AT Series including the UL listing).

## Priority Paging Option

### PA Series

Priority paging feature bypasses the effect of the attenuator to provide program level selection of individual emergency and paging signals at the amplifier. This option is available on all AT Series attenuators. The SPDT relay is operated with 24VDC at 10mA. Includes protective relay cover to ensure lasting trouble-free performance. All other specifications except for dimensions are the same as AT Models.

## Rack Mount Option

### RM Series

For attenuation convenience of rack-mounted equipment in cabinets and consoles, the AT Series and E408 Series attenuators are available without mounting plate for rack panel installation. Attractive matte black polycarbonate dial scale overlay with adhesive backing replaces the mounting plate, skirted black knob included. Overlay size is 2" square (51mm). To order, simply add RM after the selected attenuator model number. Example: AT10-RM or AT10-PARM. Dial scale overlays to retrofit existing installations are available, see Model HX23 on page 72. For easy rack mounting of RM Series attenuators, see model ATPLATE-052 on page 56.
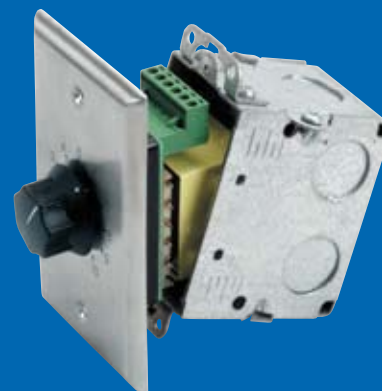
*AT10*
*(In a Standard Back Box)*

*AT100-PA*

*AT35-PA*

*AT10D*

*AT10-PARM*

*ATPLATE-052*

Attenuators

DWS-8
(White)

DWS-8
(Ivory)

DAT-8

DAT8ST

## *Atlas Sound WhisperTouch® Volume Controls*

Switched WhisperTouch volume controls provide clear, distortion-free music reproduction for commercial distributed systems or "Whole House" audio designs.

These volume controls feature impedance-matching (8 versions only) to protect the amplifier and balance the audio signal, fine-tune level control to adjust low listening levels to the perfect setting, and an easy-grip, low profile knob. The knob features smooth detents and make-before-break contacts for smooth transition when changing volume settings. Attenuation is accomplished in 10 steps. All models have frequency response of 20Hz – 20kHz (-3dB, +0).

Units include an on / off switch and indicator light. An internal "smart" relay switch automatically puts speakers into "stand by" mode making them "available" rather than indiscriminately active when the audio system is powered on. Simply touching the switch accesses audio. A modest sized indicator light provides quick visual status – (green=standby, red=active) Models require a separate 18-gauge, 2 conductor stranded cable to power the internal relay in addition to the loudspeaker cable. An external power supply, PS-M12, is recommended for 1–3 WhisperTouch units, or PS24-20 for up to 18 units.

For installation, either a backless E.O. box or sealed box with 18 or 20 in3 volume (Carlon® B120A or equivalent) is required. Standard or Decora plate styles and available colors vary by model. Decora trim plates not included.

### Power Supplies for Switched WhisperTouch

PS-M12  Unit is a compact UL-listed 12VDC, 300 mA power supply with a 6' cord. The required input voltage is 120V. Supply includes a ⅛" mini-plug for use with up to three Switched WhisperTouch™ volume controls.

## *Commercial Stereo Attenuators*

DAT Series  Atlas Sound offers traditional autoformer controls to provide excellent stereo performance and maximum speaker-handling capability. Models include positive off and full-power pass through at the maximum setting. Contacts are make-before-break for smooth transition. Models with 8 impedance are suitable for residential stereo and voice-coil circuit application. Models for 25V or 70.7V use provide level control in distributed constant-voltage systems. Single-gang models mount standard E.O. boxes 2½" deep. Includes both white and ivory knobs, inserts and trim plates.

- Choose DAT8ST to Control Speaker Volume when Impedance Matching is Not Necessary Such as Single-pair Installations or when Multi-channel Amplifiers are Used for Individual Zones. Combine DAT8ST with a Separate Impedance-Matching Switching Device (AST Series) to Design a System with Multiple Loudspeaker Pairs.

- Choose DAT35ST70 for Control of Distributed Stereo Zones in 25V / 70.7V Systems.



PS-M12

Attenuators / Volume Controls

*ASL-6A*


*AST-6*

## Impedance-Matching Speaker Switching Systems
### For use with 8Ω Applications Only, NOT FOR USE WITH 70.7V SYSTEMS.

### ASL-6A

Impedance-matching loudspeaker switching system provides control of up to six loudspeaker pairs positioned in multiple room applications. All volume controls for each loudspeaker pair are located on the front panel for easy access. Attenuation is accomplished in 10 steps. Units accommodate any combination of 8Ω and/or 16Ω loudspeakers. Choose ASL-6A to control speakers in retrofit or pre-wire installations where speaker wiring goes directly to the main equipment cabinet; not to individual volume controls. ASL model offers individual speaker volume controls with individual A/B source selection and separate On / Off controls for each loudspeaker pair. Unit features a mar-resistant black finish. Dimensions are 17" Width x 1⅝" Height x 5⅞" Depth and can be shelf or 19" rack-mounted (brackets included). Wire capacity is 14-gauge – 24-gauge.

### AST-6

Impedance-matching loudspeaker switching system provides control of up to six loudspeaker pairs positioned in multiple room applications. Controls for each loudspeaker pair are located on the front panel for easy access. Unit accommodates any combination of 8Ω and/or 16Ω loudspeakers. Use AST Series to offer additional functionality to systems using traditional (non-WhisperTouch®) volume controls such as the DAT8ST. AST devices include separate on / off controls for each loudspeaker pair and one A-B source selector switch for overall system control. Units feature a mar-resistant black finish. Dimensions are 17" Width x 1⅝" Height x 5⅞" Depth and can be shelf or 19" rack-mounted (brackets 0included). Wire capacity is 14-gauge – 24-gauge.


*SG-38GH*


*SG-NL4MP-2*


*SG-XLR-M1*


*SG-QTRSL-F1*


*FBR4XLRF*


*FB4CPB*

## Wall Plates with Connectors

### Single Gang Stainless Steel Wall Plates

Professional appearance with easy and cost-efficient installation, Atlas Sound wall plates are offered in nine models with a variety of industry standard connectors. Models include mounting holes on standard box mount center [3⁹⁄₃₂" (83mm)] and plate mounting hardware.

| Model | Description |
|---|---|
| SG-XLR-F1 | (1) Female 3 pin XLR |
| SG-XLR-F2 | (2) Female 3 pin XLR |
| SG-XLR-M1 | (1) Male 3 pin XLR |
| SG-XLR-M2 | (2) Male 3 pin XLR |
| SG-NL4MP-1 | (1) NL4MP 4-Pole connector |
| SG-NL4MP-2 | (2) NL4MP 4-Pole connector |
| SG-QTRSL-F1 | (1) Female Locking TRS connector |
| SG-QTRSL-F2 | (2) Female Locking TRS connector |
| SG-38GH | 3⁄8" Hole & Grommet |

## Microhphone Floor Box

FB4XLRF floor box assembly provides a simple solution for recessed mic inputs. The unit is designed for easy installation into wood stages and platforms. Four female XLR connectors are recessed and slant loaded into the enclosure. A hinged steel cover plate provides protection for cable connectors. Connectors are standard "D Sub" type and may be easily removed to allow substitution of other "D Sub" devices. Connector pocket requires 5" square floor cutout. Trim plate dimensions are 8" square. For new or retrofit concrete floor installation use optional enclosure model FB4CPB.

*Speaker Switching Systems, Wall Plates, and Microphone Floor Boxes*

## Hardware Accessories

| Model | Description |
|---|---|
| HXLP-3-11 | Cable connector, Female 3 Conductor; A3F or Equal |
| HXLP-3-12 | Cable connector, Female 3 Conductor; A3M or Equal |
| HX11-P | SPDT Momentary Push Button Switch, ¼ Amp Contacts, Black Button, Hardware |
| HX12-R | 2 Pole, 6 Position Rotary Switch Continuous Rotation; 60° Indexing; ³⁄₈" Bushing Length; ³⁄₈" Shaft Length, Includes Hardware |
| HX21-B | Skittered Knob; Black; 1¼" Diameter Fits ¼" Shaft; One Set Screw |
| HX22-W | Skittered Knob; White; 1¼" Diameter Fits ¼" Shaft; One Set Screw |
| HX23 | 2" x 2" Poly carbonate Dial Scale. ³⁄₈" Center Hole. Black Finish |
| HX25-2 | Double Gang S/S Plate; Dial Scale Stamped and Paint Filled ³⁄₅" Center Mount Hole, Mounts to Standard E.O. Box; With Hardware |
| HX26-2 | Double Gang S/S Plate with Dial Scale for Attenuator and 6 Position Rotary Switch |
| HX31-345 | 3" Speaker with 45 Voice Coil. Magnet Weight 1.47 oz |
| HX41-50 | 50 Wirewound Potentiometer, 3 watt. Continuous Rotation. ³⁄₈" Bushing Length; ³⁄₈" Long Flatted Shaft. Includes Mounting Hardware |
| ATPLATE-052 | The new Atlas Sound AT Plate is perfect for rack mount applications where attenuators are required. The Atlas Sound AT Plate, a 2RU 14-gauge plate pre-punched to accommodate up to six Atlas Sound rack mount attenuators. Attractive black filler plugs are provided for applications where the AT Plate will not be fully "loaded". The plate is finished in flat black epoxy to better blend in with other rack mount equipment. |

HX31-345

HX41-50

HX11-P
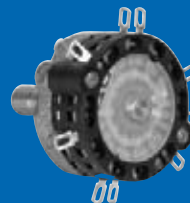
HX12-R

HX21-B
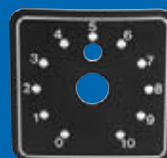
HX23

HX26-2
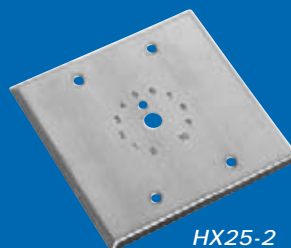
HX25-2

HXLP-3-12

ATPLATE-052

## Replacement Speaker Parts
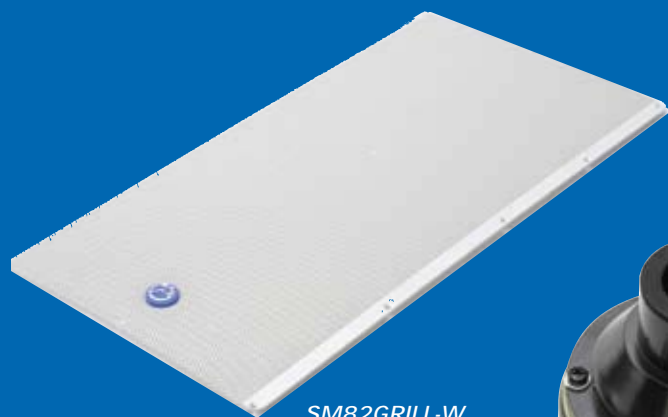

SM82GRILL-W


FAPVRAIL


SM82HFDRV
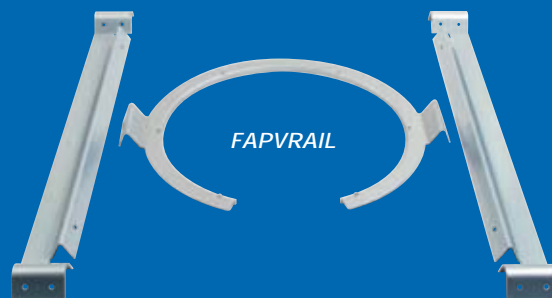

SM52KNOB-B

| Model | Description |
|---|---|
| SM52CBRKT-B | SM52 C-Bracket - Black |
| SM52CBRKT-W | SM52 C-Bracket - White |
| SM52GRILL-B | SM52 Grille w/ Logo - Black |
| SM52GRILL-W | SM52 Grille w/ Logo - White |
| SM52KNOB-B | SM52 Knobs - Black - Each |
| SM52KNOB-W | SM52 Knobs - White - Each |
| SM52TWEETER | SM52 Tweeter Driver Assembly |
| SM52WOOFER | SM52 51/4" Woofer Poly Cone |
| SM42GRILL-B | SM42 Grille w/ Logo - Black |
| SM42GRILL-W | SM42 Grille w/ Logo - White |
| SM42KNOB-B | SM42 Knobs - Black - Each |
| SM42KNOB-W | SM42 Knobs - White - Each |
| SM82CBRKT-B | SM82 C-Bracket - Black |
| SM82CBRKT-W | SM82 C-Bracket - White |
| SM82GRILL-B | SM82 Grille w/ Logo - Black |
| SM82GRILL-W | SM82 Grille w/ Logo - White |
| SM82HFDRV | SM82 HF Replacement Driver |
| SM82KNOB-B | SM82 Knobs - Black - Each |
| SM82KNOB-W | SM82 Knobs - White - Each |

| Model | Description |
|---|---|
| SM82WOOFER | SM82 8" Woofer Treated Cone |
| SMTERMCVR-B | SM Series Terminal Cover - Black |
| SMTERMCVR-W | SM Series Terminal Cover - White |
| SM52TWEETER | SM42 Tweeter Driver Assembly |
| FAP40TDRV | SM42 4" Woofer |
| SM42CBRKT-B | SM42 C-Bracket - Black |
| SM42CBRKT-W | SM42 C-Bracket - White |
| FAPVRAIL | V Rail for All FAP Series Models |
| FAPPHX | Phoenix Connector for All FAP Series Models |
| FAP40TGRILL | FAP40T Grille |
| FAP40TDL | FAP40T Dogleg |
| FAP40TDLS | FAP40T Dogleg Screw |
| FAP40TDRV | FAP40T Driver |
| FAP40TTB | FAP40T Tile Bridge |
| FAP42TGRILL | FAP42TC / FAP42T Grille |
| FAP42/62TDL | FAP42TC / FAP42T / FAP62T Dogleg |
| FAP42/62TDLS | FAP42TC / FAP42T / FAP62T Dogleg Screw |
| 369551 | FAP42TC / FAP42T Driver |

M-1AJW

M-1AJW

F-1

M-1A

M-1A

## Micro Infrared Repeaters & Flashers

**M-1A Series,** Atlas Sound IR repeaters allow the operation of virtually any IR-controlled A/V component from multiple room locations. The M-1A repeater will receive the IR signal and rebroadcast it to the small F-1 flasher LED positioned on the front of each A/V component. The F-1 forwards the signal to the source component's IR receiver.

These micro repeaters feature an attractive, flush, white lens that blends with any white surface. Their high sensitivity enables use within a 40 foot range with fast reaction time and minimal interference. Repeaters are available installed on a white decorator-style subplate (cover plate not included) or separately for flush-mounting in a ceiling, wall, cabinet or speaker grille.

**F-1 Series.** Small F-1 flasher LEDs are shipped with an adhesive backing and $\frac{1}{8}$" phone plugs for connection to all IR-controlled A/V components. Up to six flasher units may be connected to a single M-1A repeater using two M-1CB4B connector blocks or any standard adapter (by others).

## Stand-Alone IR Repeater System

**M-1CB4B.** For installation flexibility, the M-1CB4B amplified connector block is offered as a plug-in interface device that provides connections for an M-1A Series repeater, four F-1 flashers, and power supply Model PS-M12. This configuration allows IR operation of up to four A/V components from up to four room locations. The M-1CB4B offers $\frac{1}{8}$" mini jacks for power supply Model PS-M12 and up to four F-1 flashers; it also provides terminals for wiring up to four M-1A repeaters (rooms) in parallel fashion and a data jack for connecting a mini-pin IR source or another M-1CB4B. The unit's amplified circuit design supplies clear, strong IR data to source components.

This stand-alone IR repeater system requires: one M-1A repeater in each remote room location, one M-1CB4B for every four A/V components, a PS-M12 power supply, and one F-1 flasher for each A/V component. For installations which require control of more than four components or transmission from more than four rooms, multiple M-1CB4B blocks may be used.

*Note: each M-1A repeater can control a maximum of six F-1 flashers.*

**PS-M12.** A compact UL-listed 12VDC, 200 mA power supply with a 6' cord. The required input voltage is 120V. Supply includes a $\frac{1}{8}$" mini-plug for direct connection to the M-1CB4B connector block (powers up to four F-1 flashers).

*Note: some high-end A/V components are equipped to accept hard-wired IR signals. In this case, F-1 flashers would not be necessary.*

**Multiple Repeater / Emitter System**
block for the M-1 Infrared Repeater System. It allows connection of multiple repeaters to 4 emitters (flashers) with no loss in signal strength.

Bedroom

Kitchen

Living Room

Family Room

Note:
Mutiple M-1 Infrared Repeaters can be connected to this point by wiring them in parallel.

Use Three Conductor Wire (shielded or unshielded) If shielded cable is used, shield may be used as the 3rd conductor

| Wire Gauge | Maximum Wire Run Distance |
|---|---|
| 24 Gauge | 200' |
| 22 Gauge | 600' |
| 20 Gauge | 2000' |
| 18 Gauge | 5000' |

A/V Receiver

DVD/CD

VCR          10:30 pm

TV

F-1 Flasher Emitters

ATLAS SOUND M-1CB4B

FLASHERS

Sig    IR Signal

POWER SUPPLY

PSM-12

Atlas Sound PSM-12 (Or any 9-12VDC Power Supply)

Earth Ground Screw Lug

AT000504

## AA-PPRC

### Features
- Two In by Two Out Priority Page Relay Controller
- Normally Open and Normally Closed Relay Outputs
- Power rating of 350 W / Channel @ 70.7V
- High Level Audio Trigger Input (3V – 45V)
- Line Level Audio Trigger Input (10mV – 3V)
- DC Trigger Input (5V – 24V)
- Contact Closure Trigger Input
- Relay Recover Adjustment 1 - 30 Seconds
- Phoenix Type I/O Connectors
- Durable, Compact Black Metal Housing
- Dimensions:
  - Height: 1½" (38mm)
  - Width: 4" (114mm)
  - Length: 4½" (114mm)
- 12VDC UL Listed Power Supply (Included)

The AA-PPRC Priority Page Relay Controller is a two-input, by two-output speaker level switch system rated at 350 watts per channel. Inserting unit into the signal path between an amplifier's output and the speaker load allows system muting based upon a variety of external trigger sources including speaker level audio (3V to 45V), line level audio (10mV to 3V), external contact closure or 5 to 24 volts DC.

A typical classroom installation would utilize the AA-PPRC inserted between the presentation system amplifier and loudspeakers with a trigger input from the school's 25V paging / intercom system loudspeaker located in the same classroom. When a page occurs the presentation system will be muted for the duration of the announcement and will resume when the page is complete. Other applications include zone page management for new or existing systems and priority switching of line-level audio sources. Release time of the relay control is variable from 1 to 30 seconds.



*AA-PPRC*



**AA-PPRC Load Rating**
5A Max Per Channel

| Load | Watts | Amps |
|---|---|---|
| 100v (20 Ohm) | 500w | 5A |
| 70v (14 ohm) | 350w | 5A |
| 25v (5 Ohm) | 125w | 5A |
| 8 Ohm | 200w | 5A |
| 4 Ohm | 100w | 5A |
| 2 Ohm | 50w | 5A |

*AA-PPRC*
*(Back)*

*Priority page Relay Controller*
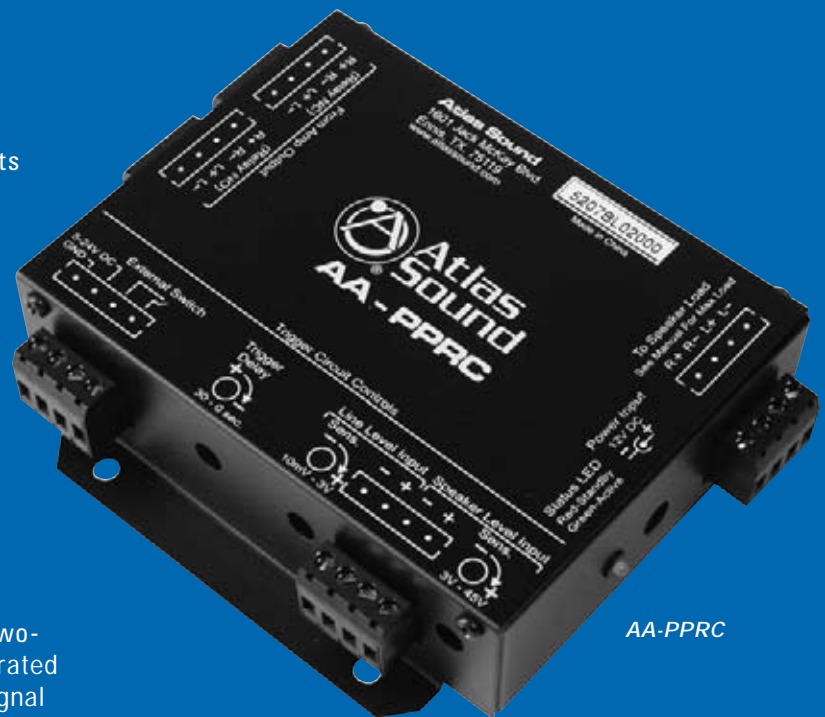
## Typical Classroom Installation for the AA-PPRC



ATLAS PA702 OR OTHER PRESENTATION SYSTEM AMPLIFIER

PRESENTATION SPEAKER

25V SPEAKER LEVEL FROM SCHOOL PAGING SYSTEM

PARALLEL OUTPUT

PRESENTATION SPEAKER

## AA35 / AA60

- 3 Chanel Mixer Amplier
- 1 Mic Input w/ Phantom Power
- 2 Stereo Line Inputs
- Dual Line Out
- Pre Out / Power In EQ Patch
- Remote and Vox Activated Mute
- Route Any Source Combination or Entire Mix Bus to Zone 2 (MOH Out)
- Special Low Cut Filter is 6dB / Octave at 400Hz and Also Bypasses Front Panel Bass Control to Allow use with Paging Horns like APX40TN and AP-15T
- UL Listed 60065
- Optional Rack Mount Kit – AARMK2-5

The AA35 35 Watt output & AA60 60 Watt output are 3 input mixer amplifiers designed for distributed business paging and background music (BGM) systems, small to medium speech privacy systems and in applications where music on hold (MOH) plus paging is required. With one microphone input and two stereo line inputs these units will accommodate a variety of input sources including paging microphones, CD players and digital music receivers. A dip switch selectable matrix allows the creation of a zone 2 mix from any or all of the input sources for music or messaging on hold applications. 25V, 70.7V, and 8 outputs are provided. Output power will match nicely with Atlas Sound FAP, SM, SD, and GD series loudspeakers. In fact, in an 11' ceiling application, the AA35 will provide power for up to 117 SD72W loudspeakers tapped at .25 watts each while providing upwards of 84dB in the direct sound field at ear height!

Strategy Series® Amplifiers

AA35

AA60
(Back)

# AA120 / AA240

- 6 Channel Mixer Amplifiers
  (120 and 240 Watt Versions Respectively)
- 5 Mic / Line Inputs with Phantom Power and 1 Stereo Summing Aux Input
- Remote or VOX Mute Capabilities
- Zone 2 MOH Out From CH6 Line Source
- Special Low Cut Filter is 6dB / Octave at 400Hz and Also Bypasses Front Panel Bass Control to Allow Use with Paging Horns Like APX40TN
- Bridge In / Out Circuit with Balanced Link / Internal Relay to Engage Circuit is Perfect for Small Room Combining Systems - Eliminating the Need for External Electronics
- VCA Control Assignable to Input 6 Line Level (BGM) Input or Global for the Mix Bus
- Pre Out / Power Amp in for Patching External Processors
- UL Listed 60065
- Optional Rack Mount Kit – AARMK2-0

Looking for an amplifier to suit a large retail, commercial, or industrial paging and background music application? Look no further than the Atlas Sound AA120 amplifier. This powerful 120 watt amplifier was engineered with unique features to assist the contractor or installer in today's commercial business audio environment. This six input unit features extensive muting and output options along with a very unique bridge in/out feature to allow combining of multiple amplifiers in ballroom applications without the need for external relays. VCA control is included which may be assigned to the BGM input or globally for the entire amplifier. For higher output requirements, the model AA240 is available with the same preamp section as the AA120, but with a larger 240 watts power amp section.



AA120

AA240
(Back)

Strategy Series® Amplifiers

## AA120M

- 4 Mic Inputs
- 1 Stereo Line (BGM) Input
- 1 Module Input
- Input Trim Control per Channel
- Channel 2 – 5 Can be Configured for Mute Receive or Mute Send
- Separate Zone 2/3 Matrix Per Channel
- Module Input Features Mix Bus or "Amp Direct" Routing (Perfect for Sound Masking as Masking Source is not Affected by Front Panel EQ Settings and Treble Control Can be Used for Adding High Frequency to Page in Masking Systems)
- VOX Mute and Contact Closure Mute May be Assigned Separately for Virtual Dual Level Mute Priority Via Internal Jumpers
- VCA Control Assignable To CH5 BGM Input or Main Mix Bus
- Bridge I/O with Relay Like AA120 / AA240
- Zone 2 / 3 Output (Line Level and 1 watt 8 Ω)
- 24VDC Output and Patchable Relay Assignable to CC or VOX Mute Circuit (Allows Use of Atlas Priority Attenuators Without any Additional Hardware)
- UL Listed 60065
- Optional Rack Mount Kit – AARMK2-0

Atlas Sound's AA120M is possibly the most versatile mixer / amplifier on the market today. True 3 zone matrixing (main 120 watt output, 1 watt output and line level output), 24VDC output with relay sync to the mute bus, bridge in / out with built-in relay control, one industry standard module input with direct to mix bus or direct to amp assignment, global or BGM input VCA control and multiple mute bus configuration options round out the unit's extensive feature set. The AA120M is ideal for applications like sound masking, industrial paging, retail and BGM, commercial PA, priority volume control applications and hotel ballrooms / meeting rooms.

### Optional Modules For Use With Model AA120M

AA-TG    Three Tone Chime Generator Module

AA-ML    Mic / Line Input Module with Remote Volume (VCA)

AA-SMG   Sound Masking Generator Module with EQ and Patch Point for External Processors



AA120M

AA120M (Back)

AA-ML

AA-TG

AA-SMG

## *CP400 / CP700*

- Commercial Duty Stereo Power Amplifiers
- 400 Watts and 700 Watts Versions
- Two High Quality Internal Toroidal Transformers Provide Isolation in 25V, 70.7V, 100V Stereo or 140V / 200V Bridge Mode Operation
- 30-Position Rear Panel Stepped Input Gain Controls
- Terminal Block and XLR Input
- Automatic, Dual Speed, High Efficiency Fan Cooling
- Short Circuit, Thermal, and DC Offset Protection
- UL Listed
- CP700 provides 350 Watts / Channel @ 70.7V
- CP400 provides 200 Watts / Channel @ 70.7V

Professional grade audio power amplifiers specifically designed for demanding contractor applications feature an esoteric grade toroidal power supply and output transformers. These transformers were chosen for their outstanding reliability as well as extended frequency response (-3dB @ 30Hz - 70.7V output through transformer). Now you can have the peace of mind that systems will have true transformer output isolation, a feature that previously may have not been affordable due to the cost of quality external transformers. Independent channels are driven by separate power supplies to ensure maximum channel separation and ultra low distortion figures while providing years or faithful service. Whether your application is a large distributed constant voltage sound system or a high SPL sound reinforcement system, the Atlas Sound CP Series is the perfect answer for high power / low cost amplification needs.

*Strategy Series® Amplifiers*



*CP700*
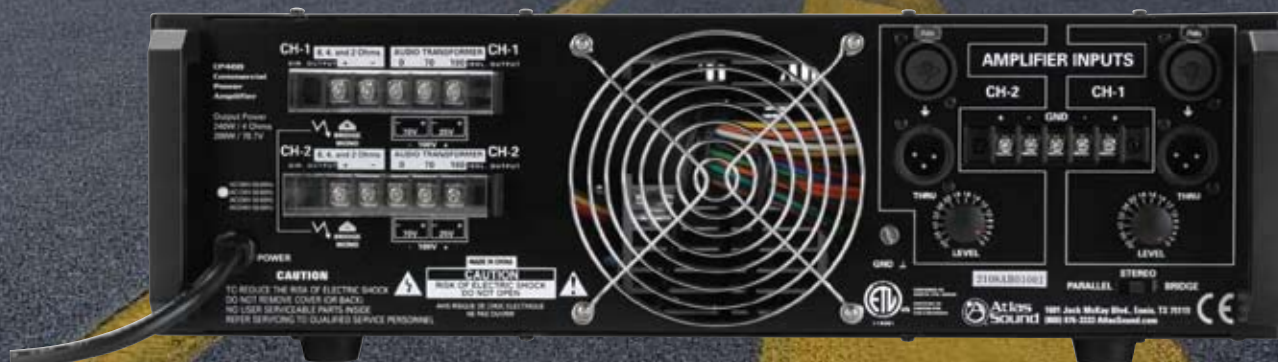


*CP400 (Back)*

PA702

# PA702

- Feature Set Perfectly Suited for Projection Systems
- Innovative, Patent Pending Through Chassis Pole Mounting System Simplifies Installation and Secures the Amplifier
- 2 X 70 Watts @ 8
- AC Current Sense & Audio Sense Turn-On
- Balanced & Unbalanced Inputs
- Available in Black or Whie
- UL Listed 60065 and RoHS Compliant
- Optional Rack Mount Kit – PA702-RMK

Atlas Sound pole-mount amplifiers provide an innovative solution for display systems that require local sound reinforcement.

Since the first pole-mount projector, there has been a dilemma about how to best provide local amplification. The PA702 amplifier is a very elegant solution to this issue with its unique, patent pending mounting pole installation process via a sealed hole incorporated into the chassis design. Simply install the 1.5" pole, slide the amplifier on it through the chassis hole, and clamp the unit at the desired height with the included innovative pole clamp system. Afterwards, install the projector as normal. The chassis "hole" mounting system also provides added security to help deter theft. Output is a strong 70W x 2 from an efficient rail tracking Class A/B & switch mode power supply technology.

Other innovative features include an accessory outlet with AC current sense that allows the amplifier to respond instantly from stand-by mode when the projector is powered on, a separate audio sense turn-on, balanced phoenix style and unbalanced RCA inputs that can be mixed by level control, front panel status LEDs, and recessed tone and level controls.

The slim 1RU profile chassis also works in a single or dual rack mount configuration with the optional rack mount kit, PA702-RMK.


PA702-W


PA702 (Back)

## PA1001G

- Feature Set Perfectly Suited for Projection Systems
- Innovative, Patent Pending Through Chassis Pole Mounting System Simplifies Installation and Secures the Amplifier
- 100 Watts @ 70.7V
- AC Current Sense & Audio Sense Turn-On
- Remote Volume Control (VCA)
- Accessory Outlet with Surge Protection and AC Fault Indicator
- Balanced & Unbalanced Input
- Unbalanced Line Output
- UL Listed 60065 and RoHS Compliant
- Optional Rack Mount Kit – PA702-RMK

The PA1001G is a powerful 1-channel Strategy Series® amplfier featuring the patent pending mounting system via a sealed hole incorporated into the chassis design.

Like the PA702, it features the through hole patent pending mounting system for easy installation of local sound reinforcement.

The PA1001G is a full 100W x 1 output and features balanced Phoenix style and unbalanced RCA input connections, which can be mixed using a level control. Other features include an accessory outlet with AC current sensing, separate audio sensing turn-on, mixer trim control, front panel status LEDs, and recessed screwdriver adjustable tone and level controls.  The current sensing and audio turn-on features allow the PA1001G to respond from standby mode when the projector is turned on remotely or when an audio signal is received. The slim profile chassis can also be single or dual rack mounted with an optional rack mount kit in a 1RU high configuration.

*Strategy Series® Amplifiers*

*PA1001G*
*Mounted on PA702RMK*

## PA601

- Simple Clean Power
- 60 Watts Single Input Power Amp
- 1 Balanced Input
- 1 Unbalanced Input
- 1 Unbalanced Line Output
- Loudness Contour Switch (+4 dBu @ 100Hz and 10kHz)
- UL Listed 60065
- Optional Rack Mount Kit – AARMK2-5

The PA601 is the perfect choice for distributed Background Music (BGM) systems when the requirement is simple amplification without Music On Hold (MOH) or advanced mix functionality. The PA601 features 60 watts of pure power in a compact package with simple rear mounted RCA & Phoenix inputs and RCA Outputs plus a unique loudness contour control which provides just the right amount of bass enhancement for low level listening environments.

*PA601*

*PA601*
*(Back)*

## Amplifier Accessories

AAIT-600    600    isolation input transformer

AARMK2-0    Rack Mount Kit for one AA120(M) / AA240

AARMK2-5    Rack Mount Kit for one or two AA35, AA60, or PA601

PA702-RMK    Rack Mount Kit for one or two PA702 / PA1001G.

AAVCC-5    5 piece Security cover kit for all AA Series

AAVC-10K    10K Linear pot on Decora plate for VCA use with AA120 (M) / AA240(includes white and ivory inserts, knobs and trim ring)

AA-YSUM    Passive Summing Cable

*AAVCC-5*

*AAIT-600*
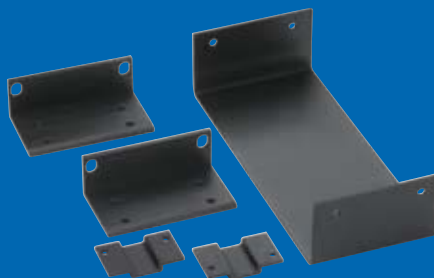
*AARMK2-5*

*AAVC-10K*

## Standard & High-Power Siren Loudspeakers

**HPG-100N** Atlas Sound siren loudspeaker HPG-100N is a reflex-type loudspeaker with a rectangular molded bell. It is rated at 100 watts RMS in electronic siren use. HPG-100N provides optimum sound level output of 120dBA (measured at 1600Hz, rated power, 3 meters on axis) and features a directed dispersion range of 80° x 105° (1kHz octave band) to assure high-intensity acoustic penetration for electronic siren signals. Unit contains the patented Atlas Sound AS-100N compression driver complete with a non-fatiguing, self-aligning sound chamber assembly. These drivers have earned acceptance as the quality and performance standard for 100 watt electronic signal systems in police, fire, ambulance, and utility vehicles throughout the world. A heavy-duty, one piece steel mounting bracket permits full-axis orientation of the loudspeaker for preferred sound-projection directivity. The projector assembly is manufactured of plastic and finished in black. The driver is finished in black baked epoxy for optimum durability and corrosion protection. Units are shipped complete with all components and installation data for field installation. Replacement head assembly (Model K-100N) or driver assembly (Model AS-100N) are available for field replacement.

## Compression Drivers for Electronic Siren Application

AS Series heavy-duty weatherproof compression drivers are recommended for application in stationary and mobile public address systems, emergency and law enforcement vehicles of all types. Driver is equipped with a 2¾" voice coil having a nominal impedance of 11 at rated power. Non-fatiguing phenolic diaphragm is a formed, self-aligning assembly capable of field replacement. AS-100N is a 100 watt driver designed for high-powered signaling applications. It features a non-fatiguing, self-aligning sound chamber assembly and is a standard component of the popular HPG Series siren loudspeaker assemblies unit and will accommodate any horn or reflex projector equipped with standard 1⅜"-18 thread. AS-100N is finished in black baked epoxy. Product series is suitable for use with matched control equipment for siren systems requiring AMECA (formerly AAMVA) certification to General Services Administration specification (KKK-A-1822C) or Article 8, Title 13 of the Cal. Admin. Code.

*AMECA (Automotive Manufacturers Equipment Compliance Agency, Inc.)*

## Reflex Tip Assemblies, Bells, Adapters & Replacement Kits

Atlas Sound offers genuine replacement parts to service and maintain the performance of siren loudspeakers.

*AS-100N*

*HPG-100N*

*YDA-TH*

*K-100N*

Standard & High-Power Sirens

Atlas

## Voice / Tone™
## Emergency Loudspeakers

**15 Watt Compression Driver Loudspeakers**

VT Series / VTF Series. Patented and the proven performance standard around the world for effective sound and electronic signal transmission of emergency voice communications and tone signaling. Cost-effective series function as protective warning devices in intercom systems and as communication system loudspeakers in multi-occupancy and expanded space areas including high-rise residences, public buildings, health-care and educational facilities, banks, shopping areas, distribution centers, and transportation terminals. High-efficiency compression driver provides optimum acoustic conversion efficiency. Die-cast water sealed construction withstands vandalism, vermin, moisture, corrosion, and vibration.

Both the VT Series and VTF Series include a 70.7V or 25V transformer model. All Models include a 5mfd capacitor. VT Series are surface mounting units measuring 4¼" Square x 3¼" Depth. VTF Series are recessed mounting versions measuring 6" Square x 3¼" Depth. Both series install to a 2⅛" Depth x 4" E.O. Box (not included); VTF Series also requires Model A-R adapter ring. Models are available with choice of finish Red(R) or Neutral Gray(N). When used with compatible control equipment, all models comply with UL Standard 1480 — Speakers for Fire Protective Signaling Systems.
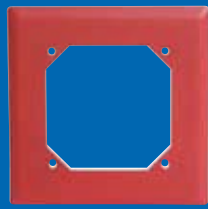
*VTF-152UCR*

*VTF-152UCR*

*VT-152UCN*

**800.876.3333**

Emergency Loudspeakers

# *Installation Accessories for Voice / Tone™ Loudspeakers*
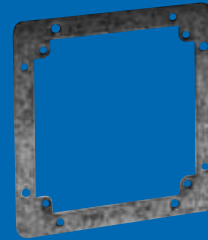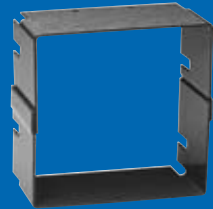


| SE | SIN | SFP-R | TVTA-R | FP | AR |

## SE
Surface-mounting outdoor backbox provides weatherproof installation of VT Series / SVT Series loudspeakers. 4¼" Square x 2" Depth housing is die-cast zinc with epoxy finish. Unit is tapped for ½" conduit and includes weatherproof gasket. Suffix model with choice of color: Red(R) or Neutral Gray(N).

## SI
Surface-mounting indoor backbox for VT Series / SVT Series loudspeakers mounts to any single or double-gang backbox for concealed conduit installation. 4" Square x 1½" Depth CRS unit is finished in baked epoxy and includes ½" conduit knockouts. Suffix model with choice of color: Red(R) or Neutral Gray(N).

## SFP
Semi-flush, 6" Square adapter plate mounts behind VT Series / SVT Series loudspeakers to cover any recessed 4" Square x 2⅛" Depth outlet box. CRS wall plate is stamped and painted.
Suffix model with choice of color: Red(R) or Neutral Gray(N).
Dimensions: 6" Square x 7/32" Depth.

## TVTA
Twin housing for bi-directional mounting of two independently powered VT Series or SVT Series loudspeakers. Ideal for wall or ceiling installation in corridors and walkways. Each unit includes 2¾" deep housing with base and adapter plate for parallel mounting to any electrical backbox.
Suffix model with choice of color: Red(R) or Neutral Gray(N).

## F-P
Flush adapter plate for VTF Series loudspeakers provides for recessed mounting to 4¹¹/₁₆" backboxes or solid exterior and hollow interior wall surfaces where a backbox is not required. CRS stamped construction.

## A-R
Adapter ring for recessed mounting of VTF Series loudspeakers. Welded steel collar is 2" deep to provide necessary extension to any 4" Square x 2⅛" Depth E.O. box. Includes four "S" clips. Finished in Neutral Gray.

## M-R
Mounting ring with clips for recessed mounting of VTF Series / SVTF Series loudspeakers. Welded steel ring is 2" deep to provide extension to any 4¹¹/₁₆" Square x 2⅛" Depth backbox. Finished in Neutral Gray.

*Emergency Loudspeaker Accesories*
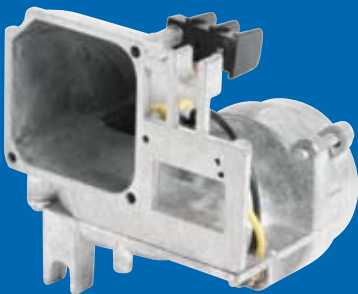


VTB-1
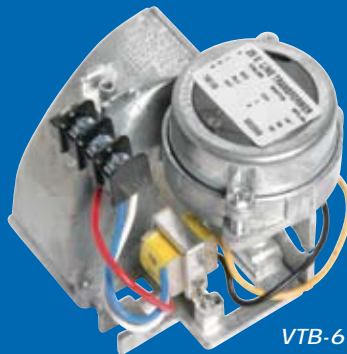


VTB-6



VTB-2

# *Compression Driver Without Housing or Mounting Plate*

VTB Series. UL recognized compact high-efficiency Voice / Tone™ compression drivers are designed for custom installation in high-efficiency industrial communication, intercom, electronic alarm, and monitoring system applications including correctional facilities, transportation vehicles, construction sites, and drive-in menu boards. Models include integral exponential sound projector to provide reliable sound distribution and optimum intelligibility for the reproduction of voice and/or electronic tone signals. Die-cast zinc construction with water sealed driver will withstand moisture, corrosion, vibration, vermin, and vandalism. Models are available with a selection of multi-tap transformers and are designed to mount a variety of standard or custom housings and face plates to meet installation and application requirements. All VTB Series qualify as a UL 1480 recognized component.

# Atlas Sound

## 8" Loudspeakers with Single Voice Coil

### UHT Series

High-quality 8" ceiling or wall-mount loudspeakers for use in fire protective signaling, emergency alarm and audio evacuation systems are available with single voice coil, factory-mounted 5 watts multi-tapped transformer and two baffle styles to accommodate varying code and aesthetic requirements. UHT Series loudspeakers have a single 1" diameter voice coil, choice of 70.7V or 25V transformer, and DC blocking capacitor. All units are shipped pre-assembled to reduce installation labor, time and expense. Loudspeakers are equipped with a molded, fire-retardant, moisture-proof cone with whizzer and 10 oz ceramic magnet to deliver smooth frequency response with high intelligibility and minimal distortion. Transformer has a core size of $\frac{1}{2}$" x $\frac{5}{8}$" (13mm x 16mm) and insertion loss of 1.5dB. All models terminate with 6" color-coded leads. UL Listed loudspeaker packages must be used with UL Listed enclosures indicated to maintain UL Listed status. Listed under UL Standard 1480—Speakers for Fire Protective Signaling Systems. As always, confirm specifications with local building codes.



161-8



96-8
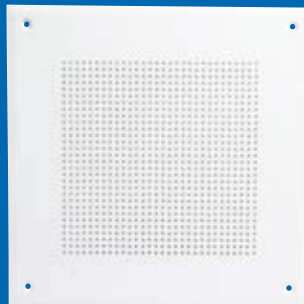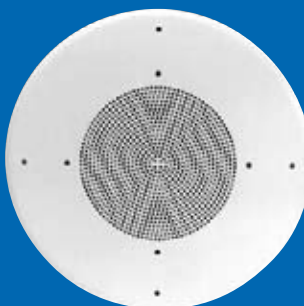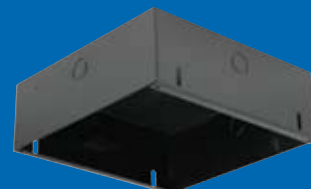


198-8



51-8



95-8

## 8" Loudspeakers with Dual Voice Coils

### UKT Series

UKT Series of 8" loudspeakers have mostly the same feature set as the UHT Series for use in fire protective signaling, emergency alarm and audio evacuation systems. The primary distinction is the UKT Series loudspeakers are equipped with two 1" diameter voice coils, two transformers (specify 70.7V or 25V), and a DC blocking capacitor.



UHT70C-U51-8



UKT70C-U51-8



UL LISTED
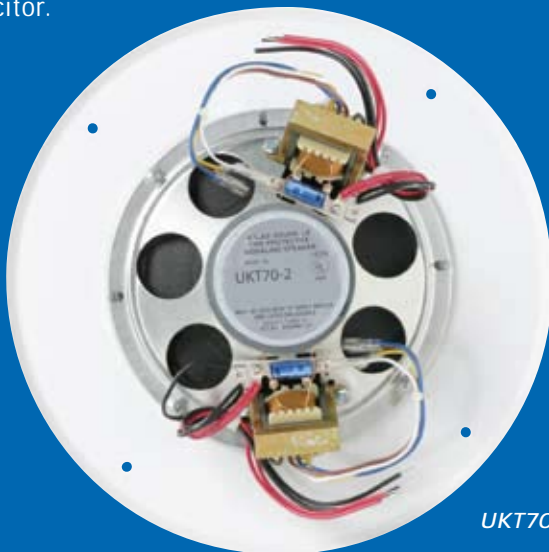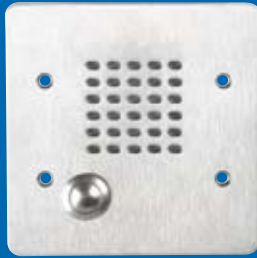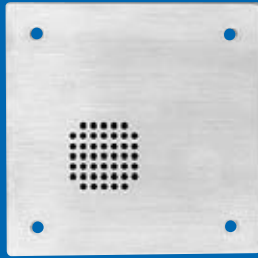
VPCS-2GPB-X45    VPVT-PB    VPB-1A    VP-77    WPVT-4FN

## Vandal-Proof Intercom Stations

### Stations with Cone Loudspeaker & Call Switch Option

VPCS Series.  High-security vandal-proof loudspeaker stations are equipped with a 2½" diameter moisture-proof resin impregnated cone loudspeaker for clear voice / signal transmission with durable performance. The overall depth of all units is a shallow 2⅛" (54mm) allowing installation in standard size E.O. boxes. VPCS-2G Series and VPCS-2GPB are 2-gang versions. VPCS-3GPB-245 is a 3-gang model. All models include a two-piece die-cast barrier (patent pending) to protect the loudspeaker assembly from vandalism. Models with "PB" designation include a vandal-proof call switch. The switch is a heavy-duty, momentary action push-button with a 1.5A 250VAC contact rating. The 25V transformer has .25, .5, 1 & 2 watt taps.

### Plate-Mounted Call Switch

VPB-1A.  Intercom accessory includes a vandal-resistant push button mounted to an all new single-gang, 12-gauge stainless steel plate which may be used in conjunction with VPVTPB, VPCS-2G-2(PB) and VPCS(PB) Series intercom stations. Switch may also be used as a stand alone signaling device when a separate or remotely located call-origination button is desired. Switch is a SPST normally open circuit with a 3-amp contact rating. Hardware installs using a 6–32 holt-head driver bit for a standard ¼" nut driver.

### Stations with Compression Driver & Call Switch Option

VPVT-4PB Series.  Loudspeaker station with high-efficiency compression driver mounted to a 12-gauge stainless steel plate provides two-way communication for vandal-proof use in detention facilities, correctional institutions, and secured access applications. Rugged recess-mounting assemblies incorporate the patented VT Series, environment-resistant compression driver; recognized throughout the world for dependable performance and effective voice and signal tone distribution. High-intelligibility, 8Ω compression driver also functions as a microphone to provide clear voice communication. VPVT-4PB incorporate a vandal-resistant call-origination button with 3 amp contact rating to provide call-in signaling capability. Station available in high-power 15 watt models with 25V transformer. VPVT-PB Series measures 7¼" square and installs into VP-77 backbox. Backboxes are ordered separately.

### Recessed Backbox for Vandal-Proof Stations

VPVT-4PB.  Protective backbox is constructed of 16-gauge CRS and finished in black textured enamel for installation of specified vandal-proof loudspeaker station assembly.

### Stations with Compression Driver and Call Switch

WPVT-S / WPVT-F Series..  Surface and flush-mounting outdoor intercom and paging loudspeaker assemblies provide weatherproof and vandal-proof two-way communication with call-in capability for remote guard and security stations, entry and exit gates, perimeter doors and parking garages.

Environment-resistant assemblies include die-cast water sealed VT Series 8Ω compression driver loudspeaker available with 15 or 2 watt transformer and pre-mounted call SPDT-type switch protected by a weatherproof rubber boot. WPVT-S Series are surface mounting assemblies size 4¼" Square x 3⅛" Depth. WPVT-F Series are recess / flush-mounting versions size 6" Square x 3³⁄₁₆" Depth. Both model series are finished in neutral gray(N) epoxy and install to a standard 4" E.O. Box (not included). A large selection of installation accessories are also available.

Vandal-Proof Intercom Stations

## Visikom Telephone Visitation System

**PVP-24 / PVP-6.** Modular telephone intercommunication system accommodates up to 24 independent telephone conversations of two or more telephone stations each for use where physical separation between communicating individuals is desired. Typical applications include customer telephones and visitation areas of detention, correctional and penitentiary facilities. System is comprised of PVP-24 control unit, PVP-6 plug-in interface module and standard telephone stations with two form "C" (DPDT) hook switches including Atlas Sound CE Series. A Surface-mounting control unit includes power supply, four ¾" cable access holes and ports for installation of up to four PVP-6 modules. Each plug-in module will control up to six isolated telephone circuits for a total system capacity of 24 circuits. Chassis and lift-off cover are constructed of 18-gauge CRS and finished in textured black epoxy. Wiring requirements are two conductor, telephone type. For complete wiring and installation information, see AtlasSound.com.

*PVP-24*

*CE-2A-AC*

*TS302A*

*LT600-VC*

*TPS24-05*

Telephone Intercom System

## Telephone Intercom Stations & Accessories

### Wall Mount Handset / Hookswitch Assembly

CE-2A. Economical handset assembly provides clear and crisp speech reproduction for intercom and paging functions. It includes a "500" style handset and two form "C'' (DPDT) hook switches mounted to a 2-gang plate with rear mounted terminal strip, color coded leads and spade lugs. Model features a chrome hanger hook switch, neutral handset, flexible coil cord and stainless steel plate for mounting directly to a standard E.O. Box.

**PT Option.** Factory-installed push-to-talk handset button provides for relay control and a variety of switch, communication, and signaling functions. Contact switch arrangement is SPDT wired as normally open. Option is available on CE Series telephone stations as noted.

**AC Option.** For telephone vandal protection, this 25″ stainless steel armored cable securely fastens the mounting plate and handset for service-free operation in public access areas.

### Telephone Intercom Enclosure

TS302A. Surface-mount 2-gang enclosures designed for CE Series intercom stations. CRS unit is finished in neutral gray epoxy

### 600 Impedance Matching Transformer

**LT600-VC** Versatile unit for matching telephone-type, 600 line circuits with HI-Z circuits. It can also be used as a 600 to 600 isolation transformer. Recommended for coupling of telephone-type lines into amplified sound systems, background music and paging systems, recording equipment, or studio electronics. Built-in potentiometer provides optional adjustability for the 25K output level. The 600 input may be matched to 600 , 10K and 25K circuits. All components are mounted on a printed circuit board. Steel chassis includes mounting ears and "insta-mount" tape. Transformer is shielded to minimize induced hum. Unit includes a phono jack on the output side for convenient connection to amplifier or other equipment circuitry. Jack can be connected to various transformer taps via barrier strip jumper. (Factory-installed jumper connects jack to potentiometer output).

### Telephone Power Supply

**TPS24-05.** A combination 24VDC/TALK voltage power supply engineered to power most common-talk telephone intercom systems. Includes 6' power cord and black epoxy finish. For information on common-talk intercoms, see SL8-1433 at AtlasSound.com.

*AA-GPN1200*

## AA-GPN1200

### General Purpose Generator

AA-GPN1200 is an analog masking signal source and generator. It is capable of producing both white and pink noise for basic masking systems or audio equipment testing. It is designed to help eliminate the auditory distraction associated with open office plan environments as well as providing conversation privacy in facilities such as schools, churches, restaurants, and offices when used with appropriate masking loudspeakers and amplifiers.

The AA-GPN1200 features a variable balanced output via Phoenix connector and will deliver a 1V balanced output that will match input circuits of Atlas Sound equalizers and amplifiers. A variable High Cut filter supports basic sound masking equalization with the EQ filter operating between 1kHz and 8kHz with a 6dB/oct slope. This small but effective generator can be used standalone or rack mounted (rack mount kit included), with up to three AA-GPN1200 in a single 1RU when multiple zones are needed. Controls are rear mounted to help prevent unauthorized adjustments.



*EQM131*

## ⅓ Octave Equalizer

The EQM131 will provide basic system equalization for sound masking or general public address applications at an amazingly affordable price.

The 1RU EQM131 is easily connected to any system via rear panel balanced TRS and XLR jacks. Unbalanced RCA connections are also provided for use with -10dBV equipment. Front panel mounted Low Pass Filter / High Pass Filter and level controls are provided along with a switch for ±6 or ±12dB operation and 31 sturdy 20mm filter slide controls. The ISO centered ⅓ octave bandwidth-constant Q filter design minimizes interaction between filters yet is still wide enough for creation of correction curves.

When used with the Atlas Sound AA120M mixer amplifier and AA-SMG sound masking module, the EQM131 can be used to create a ⅓ octave masking spectrum which is fed directly to the AA120M amplifier section. Paging or music inputs can receive high frequency shelving equalization for better intelligibility from the AA120M front panel controls. The page / music inputs and masking module output can then be summed without affecting the masking source spectrum equalized by the EQM131.

Sound Masking Generator & Graphic Equalizer

- Four White / Pink Noise Generators & 2 Mic / Line Inputs with 4-Channel DSP Processor
- Generator Spectral Purity (±0.1dB @ 0Hz – 20 kHz)
- Precision Pink Noise Filtering (-3dB per octave low-pass)
- Extended "Non-Apparent" Repeat Time of Noise (200 Minutes)
- Combined 1/3-Octave & Parametric Equalization per Channel
- Selectable High & Low Frequency Shelving Filters per Channel
- High Pass Filter & Low Pass Filter with Variable Frequency & Slope per Channel
- Leveling, Compression, Limiting, & Soft-Gating per Channel for use with Paging Input

- Output Delay, with Distance / Delay Calculation, per Channel
- Independent Matrixes for Channel-To-Channel Mixing
- Variable Noise, Input, and Output Levels with Software Metering
- Thirty Non-Volatile Memory Presets Store / Recall Settings
- Balanced Inputs & Outputs
- Programming Software Included
- No Manual Controls on Front Panel, to Prevent Tampering
- Remote Control via USB, RS-232, Ethernet & Accessory Control Panel
- Incorporates AES Recommended Grounding Practices
- UL / ULC Listed External Power Supply

ASP-MG24 represents the latest technology in digital signal processing (DSP) engines for sound masking generator/ equalizers. This model features 4 built-in digital noise generators and two analog inputs specifically suited for paging input sources. These inputs can be configured for mic or line level.

The ASP-MG24 advances sound masking control to a whole new level while providing the secondary benefit of loudspeaker processing for the most popular Atlas Sound loudspeaker systems.

---

**Consultant on Sound Masking for Atlas Sound – Dr. Robert Chanaud**

He has authored several masking software programs including SCOPE, which provides detailed speech privacy analyses of planned open and closed offices under a variety of conditions. The program also is used to evaluate the privacy of existing offices and is used to provide the optimum background sound. As a consultant to Atlas Sound, he has been instrumental in developing new products for sound masking applications including the ASP-MG24.

Dr. Chanaud owns a number of patents and has authored many technical articles on office acoustics and masking sound systems. You can find many of these articles at AtlasSound.com

---



ASP-MG24TDB



Dr. Robert Chanaud



ASP-MG24TDB

(Back)

The ASP-MG24 is a 1 RU, 6 input x 4 output DSP configurable by a very intuitive set-up GUI. Four inputs are tied to independent white / pink noise generators with adjustable ramp-up time to allow gradual acclimation to masking levels. Two additional inputs are available for mic or line sources to allow paging and/or music sources to be blended with the masking sources to any of the 4 outputs. This 6 x 4 mix matrix provides the following configuration options for sound masking systems:

1. 1, 2, 3, or 4 Channel Masking
2. Dual Two Channel Masking
3. Single Channel Paging
4. Dual Channel Paging (From Single Page Input Source)
5. 1, 2, 3, or 4 Channel Mixed Paging & Masking
6. Dual Channel Mixed Paging & Masking

Dedicated ⅓ octave filter sets are available for each of the 4 generator outputs, 8 band parametric EQ blocks along with dynamic control are available for each of the two mic/line inputs. Any mix of all 6 inputs may be easily matrixed to the 4 output DSP blocks for additional parametric equalization, delay, and limiting (if required).

Factoring in all features, a very complex 4-zone sound masking system can be easily configured with 2 external music or page sources.

For loudspeaker control functionality, the ASP-MG24 may be configured in 2 input x 4 output mode for stereo full range. Other configurations include full range plus sub operation with Atlas Sound FAP Series ceiling speakers, SM Series surface mount speakers, or AH Series stadium horns for complete control of crossover types, equalization, delay, and dynamic control.

Computer interface is simplified by USB or RS-232 connection (no awkward USB to Serial adaptors required!). External UL / ULC Listed international voltage power supply is included.

### ASP-MG24TDB

ASP-MT24TDB incorporates all the features of the standard model with the addition of time / date level control of all 4 masking inputs for holiday and weekend scheduling. This powerful scheduling tool ensures maximum speech privacy in facilities that may be more or less densely occupied during various times of the day or days of the week. Ethernet control functionality is also incorporated into this model to provide control of multiple units (up to 32) via a standard network switch and also allows remote access and monitoring via LAN.



*Main Screen*



*EQ Section*

**Sound Masking Done Right**
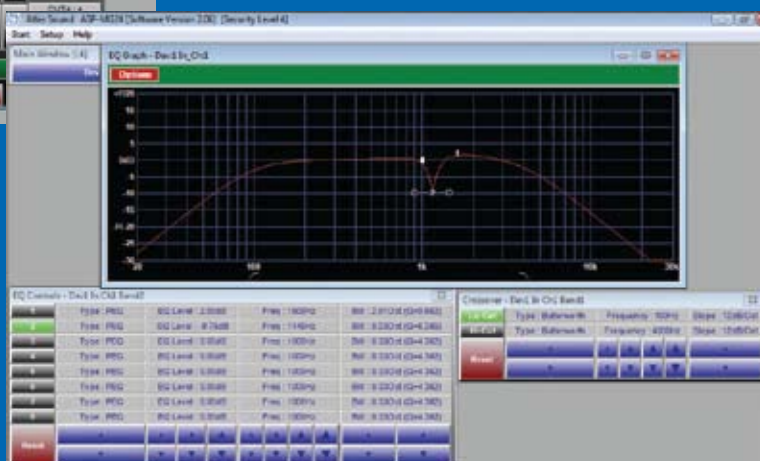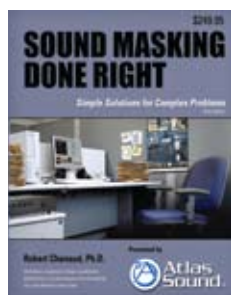
The comprehensive guide to Sound Masking Design and installation. Written by Dr. Robert Chanaud. Available exclusivly from Atlas Sound, call 800.876.3333 to order.

*Sound Masking Generator / Digital Signal Processor*

## Suspension Mount Sound Masking Loudspeakers

**M1000 .** This masking speaker assembly is designed to accurately reproduce the needed spectrum of masking signal into the plenum space. The innovative 712in$^3$, square enclosure ensures ample low frequency response. A specially designed 8" dual cone loudspeaker is included in the package. A high efficiency 70.7V internal transformer is coupled to an external selector switch for easy system tuning. For more precise adjustments, a wide selection of wattage taps ranging from .25 to 4 watts plus an off setting are provided.

EZ hang brackets simplify installation. This innovative suspension system utilizes two collapsible galvanized hangers configured to allow quick upward or side firing installation. The hangers are factory-installed on the unit and fold flat for shipping. To meet most local code requirements, the M1000 includes an innovative cover containing both knockouts and a strain relief. This system will allow the use of rigid or flexible conduit (if required) and easily accommodates "through" connections on the removable plate.

*M1000*

*M1000-W*

**M1000** is finished in neutral black.
**M1000-W** is finished in neutral white and includes a transformer bypass setting on the tap selector switch for 8 direct-coupled use. This unit is perfect for use in light colored open plenum environments or with masking systems powered by VARIZONE Performance-Line Programmable Amplifier Modules (PAMs).

UL 1480 & 2043 listed

Also available optional suspension chain kit, MCHAIN72, 72" chain with two "S" hooks.

*AM1200*

AM1200 Sound Masking System features a compact enclosure utilizing two efficient wide range 2" x 4" speakers that are powered by an internal 12W amplifier. Selectable white and pink analog sources are incorporated to allow maximum masking design flexibility and a variable high cut filter contours the masking noise to the appropriate environment. The AM1200 also features an external 12 Watt 70.7V amplifier output to drive other 70.7V speakers, such as the Atlas Sound M2000-SM transducer, making it ideal for small installations that require a self-contained masking system. Four mounting holes on the chassis make installation flexible as the AM1200 can be mounted to the wall or ceiling, or if you need a single suspension point, two removable hanger brackets are included.

## T-Bar / Channel Support Sound Masking Loudspeaker

**M812-S2T7-BX-RS.** Loudspeaker/enclosure masking assembly helps maintain a successful acoustic environment in open plan and partitioned office designs with T-Bar supported ceiling systems. Unit includes square enclosure with upward sound dispersion, 8" loudspeaker with pre-mounted 70.7V transformer, channel support rails, rotary switch wired to transformer primary, BX style conduit box complete with $\frac{1}{2}$" conduit knockouts and all necessary mounting hardware. 529in$^3$ enclosure is finished in black epoxy and acoustically treated with undercoating and fiberglass to absorb resonance associated with high-frequency sound transmission. Transformer is supplied with .5, 1, 2, and 5 watts primary taps.

*M812-S2T7-BX-RS*

*M2000-SM*

## Security Masking

### M2000-SM

The M2000-SM is designed for security masking applications where disruption of planar surfaces is required to thwart laser microphone sensors. Surfaces where masking might be considered would include: windows, doors, walls, ducts or any flat surface.

The unit is a two-part assembly (not sold separately) consisting of a transducer / enclosure and an external transformer interface. The transducer employs NXT™ exciter technology with a 1" plate mounted coil housed in a discrete, high impact plastic enclosure with 10' insulated lead wire for termination to the external transformer. Enclosure includes pre-installed 3M™ "peel and stick" adhesive for simple, quick installation to most flat surfaces. Transformer assembly includes .25, .5, 1, 2, & 4 watts @ 70.7V with simple "keyhole" slots for remote mounting.

### M2000-LP

The M2000-LP is designed for use in access floor systems or other low height areas where sound masking sources might be concealed. (For access floors or plenum spaces exceeding 12" the M1000 masking speaker is recommended) The CRS chassis houses two, 2" x 4" side firing paper cone speakers and 70.7V transformer with available taps of .25, .5, 1, 2, and 4 watts (plus off) adjustable via a front mounted switch.

A ROMEX® style strain relief clamp secures two 18-gauge color-coded leads and two wire nuts are provided for termination.

*M2000-LP*

Atlas

# ControlKom™

## Features

### IP Network Based
- Deploy rapidly - Utilizing an existing data network, connecting your facilities and adding paging, text, and controls takes very little time
- Perfect for district wide and local campus communications including weather related notifications, emergency, and lockdown situations
- Get your message out quickly and reliably - whether recorded or live, it can be broadcast in less than 20 seconds to an unlimited number of IP speakers, computer screens, and overhead paging systems
- Network time server synchronized clocks – Require no maintenance or budget for additional hardware; perfect for daylight savings and schedule changes
- Power over Ethernet (PoE)  - Speakers can be placed anywhere network access is available

### System Control and Security
- District wide system manageability
- Programming, configuration and system supervision can be administered from multiple locations via the Graphical User Interface (GUI) from any secure LAN location or outside the network through VPN
- Multi-user management, configurable security access level for bell scheduling, notifications, changing zone assignments, etc...
- Unlimited customizable bells and schedules
- Facilitates communication with campus personnel - in K-12 applications, district personnel can broadcast to the entire district, campus, building, zone, classroom, even an individual IP speaker
- Multiple, simultaneous schedules can be broadcast within the same facility - have one bell schedule for kindergarten and other schedules for other grade, each schedule can have different tones and played only in the designated classrooms
- Flexible bell tones - broadcast recorded tones, music, or audio clips as part of your schedule

### Additional Communication & Control Options
- Desktop Agent audible messages can generate simultaneous computer screen text messages, alerts can be sent audibly or silently to individual computer screens or user groups
- Integrate building control and communications – software plug-in DORA (Direct Observation Real-time Alerting) can be integrated with existing safety and security systems providing additional notification and messaging

Live, prerecorded or ad hoc messages along with control data is sent over existing or new multicast enabled local area networks to Atlas Sound IP Speaker and zone controller end points powered by AF compliant POE switches (or local DC power). This software / hardware combination provides a true "one wire" network audio solution reducing the initial cost and eliminating long term maintenance of separate paging / intercom systems. ControlKom employs standard TCP/IP network protocols and DHCP for speaker IP address assignment making it the industry's first true IP based paging solution.

ControlKom is easily interfaced with any VoIP or analog PBX phone systems (analog extension output or ATA required). Configuration of the server based ControlKom software is accomplished via an intuitive web interface. This interface allows the administrator to easily define user privledges, loudspeaker zones, pre recorded messages and other system. ControlKom then provides the user with voice prompt instructions for message type (live or ad hoc) and desired broadcast zone destination.

ControlKom software distribution is limited to dealers who complete training requirements. Contact Atlas Sound for details.

### Hardware Requirements
- Windows™ 2000 or 2003 Pentium-class server
- 2.5 GHz processor and 1 GB RAM
- Multicast-enabled network
- Atlas Sound IP Speakers and Zone Controllers
- IEEE 802.3AF Compliant PoE Switches

| Model | Description |
| --- | --- |
| CK-K12-24 | ControlKom Software, Live, Pre-Recorded, Ad Hoc Messaging, Scheduler, Desktop Agent Compatible (Includes 5 Seats) K-12 Applications ONLY. Supports 24 IP Speakers. |
| CK-K12-48 | Same as Above for Supports of 48 IP Speakers. |
| CK-CLASSIC | ControlKom Software, Live, Pre-Recorded, Ad Hoc Messaging, Scheduler. |
| CK-PLUS | ControlKom Software, Live, Pre-Recorded, Ad Hoc Messaging, Scheduler, Desktop Agent Compatible. |
| CK-ENT | Enterprise Version of ControlKom Software, Live, Pre-Recorded, Ad Hoc Messaging, Scheduler, Desktop Agent Compatible, Region Functions. |

Atlas Sound offers a comprehensive selection of loudspeaker products to complement ControlKom™ and InformaCast® software deployments in K-12, Campus wide notification, Civil / Municipal, Industrial, and Health Care applications. In complex zone paging scenarios IP speakers are often more economical than traditional paging speakers.

### I8S
Basic IP Speaker for wall mount use in classrooms, hallways & corridors (interior only).
•   Efficient 8" paper cone loudspeaker
•   Durable white powder coat steel grille

### I8SM
Same as I8S but with built in microphone.
•   High quality mic off axis of loudspeaker minimizes feedback
•   Use for ½ duplex communication with InformaCast / ControlKom® PTT feature only

### I8SC
Same efficient 8" paper cone speaker as I8S.
•   Durable powder coat steel grille
•   Bright, 5 Character LED Clock Display

### I8SCM
Same as I8SC with built in microphone.

### I8SCH
Same as I8SC with APF Series Compression Driver.

### I128SYS
1' x 2' "Drop In" tile replacement speaker system.
•   Simple "cut & drop" installation
•   2' x 2' or 2' x 4' tile
•   Integral enclosure
•   Efficient 8" paper cone loudspeaker

### I128SYSM
Same as I128SYS with built in microphone.

### IHVP
Vandal resistant IP speaker.
•   Weather Resistant Cast aluminum / stainless construction
•   Efficient (104dB 1W/1M) APF Series horn
•   Conformally coated board for durability

## Enclosures for IP Speakers

For installation flexibility a variety of IP speaker enclosure options are available in surface mount straight (SEST), surface mount angled (SEA) and flush (FEST) versions. Construction is 20-Gauge CRS. Options for weather resistant IHVP model include 18-gauge stainless steel flush (FEST) and surface mount straight (SEST) only. All surface mount units are finished in durable white electrostatic powder coat.



*I8S (Back)*



*I8SC*



*IHVP*



*IPS-ZC1*

## Zone Controllers

Atlas Sound Zone controllers allow simple integration of legacy systems with IP speaker control software. Single or dual zone versions typically rack mount in MDF / IDF locations and interface with existing or new Atlas Sound amps and traditional 70.7V loudspeakers. Output is balanced allowing simple twisted pair connection to amplifier. IPS-ZC1 includes single zone controller module & rack mount kit. IPS-ZC2 includes 2 zone controller modules & rack mount kit. Network input is via standard RJ45 connection. For applications without AF Compliant POE switches use optional power supply model IPS-PSU.

# Atlas Sound

# VARIZONE

## DIGITAL PUBLIC ADDRESS SYSTEM®

### VARIZONE® VAB-Line

Varizone®

The Digital Public Address and Voice Evacuation system brings value-oriented design options to applications requiring complex messaging and music zoning

Expanding upon the successful VARIZONE Performance-Line installed in the James S. Brady Press Briefing Room at the White House and many other prestigious facilities, manufacturer Klotz Digital and North American VARIZONE distributor Atlas Sound are now offering the cost efficient VARIZONE VAB-Line system. This cost-effective system is built upon the feature-rich, flexible architecture found in the popular VARIZONE Performance-Line of components, VARIZONE VAB-Line technology combines the proven efficiency and convenience of decentralized amplification with a newly-designed, centralized frame/controller. Built expressly as a flexible solution capable of meeting the myriad challenges facing multi-zone, digital public address systems, VARIZONE VAB-Line is ideally suited for healthcare, retail, school, office, hospitality, and other complex messaging/music zoning applications where an affordable "one-box" matrix /amplifier with its own control makes sense.

At the heart of the new VARIZONE VAB-Line system lies the VAB1 Controller and Integrated Programmable Amplifier Module (I-PAM). With dynamic zoning capabilities and an intuitive graphical user interface offering consultants, designers and engineers more system options than ever before. The system has also been given straightforward routing capabilities offering 5 standard inputs and 32 standard dynamic outputs via an internal zone matrix. Standard onboard real-time diagnostics, emergency system override paging functions, and an 18-minute programmable message memory allow the system to be utilized for supplementary voice evacuation purposes as well. These features, along with native DSP facilities including dynamics and EQ, are all configurable with VARIZONE Media Control software using simple USB interconnects.

The I-PAM is a compact, two-channel, network addressable module providing 12 watts of power that can be used to drive eight-ohm loudspeakers along with inputs for local sources, volume control and GPI. Atlas Sound will be integrating the I-PAM with various in-ceiling speaker systems as a way of offering turnkey solutions fit for a variety of different applications.



*VAB-1*





*I-PAM*



*V2404*



*VAB Switch*

Technology by:



**KLOTZ DIGITAL**

Varizone®

*VARIZONE® Digital Audio matrix systems have been installed in many prestigous institutions including the James S. Bradey White House Press Breifing Room in Washington D.C.*

*VARIZONE routes all inputs and multiple digital format outputs to 32 individual press suites.*

# Atlas Racks

Atlas Sound offers the largest selection of sturdy, convenient rack and cabinet solutions to organize, secure, and control your equipment. With five distinct series of floor racks plus wall mount, portable, desktop, and tilt out varieties, Atlas Racks is sure to have a model to meet any requirement. Atlas also offers the most versatile and complete line of rack accessories to guarantee your system incorporates the features and tools necessary.

Atlas floor racks are available in the 100, 200, 500, 700 and, of course, the top of the line FMA series for more options and flexibility in rack designs. With fixed or adjustable rails, door and lock options, gangable or standalone selections, and even seismic rated models in a variety of sizes and heights, Atlas Racks simply gives you more choices. All with straightforward part numbers that includeRU height and overall depth for ease of ordering and accuracy.

Atlas Racks ensure proper specifications and requirements are meet and exceeded every time no matter the style and size. Caster kits, lights, fans, panels, drawers, and even control computers are available accessories furthering your ability to design and facility any system's customized needs.

Compared to other rack manufacturers, only Atlas provides this quality and breadth of  racks and cabinets as a part of its full line of products. Combining cost effective racks with other Atlas products can qualify for the industry's most aggressive free freight program.

*FMA Series*
*(Shown with Optional Front Door, Side Panels, & Roller Truck)*

*800.876.3333*

**With the addition of Atlas Sound model SBK-700, Atlas 700 Series Racks are Seismic Rated.**
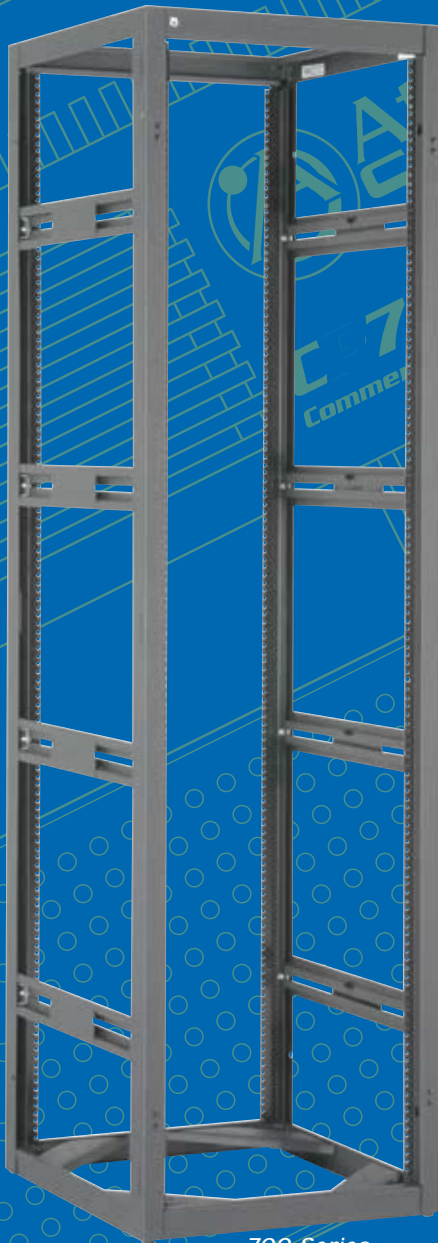
*200 Series*

*100 Series*

*500 Series*

Floor Racks

**All Atlas Racks are UL1678 Listed.**

**Every Atlas Rack exceeds UL standards for safety and structural support. This rigorous test not only guarantees strength and performance, but is a requirement in most commercial applications. Non-UL Listed competive racks come with he risk of damage to equipment or injury.**

*700 Series*

**Floor Racks**

## FMA Series

### Common Features
- Available in the Most Popular Heights & Depths
- Designed With Contractor Input to Meet Storage and Wire Management Needs for Today and Into the Future
- Rear Door Included as Standard
- 14-gauge Tops / Bottoms / Frames
- 16-gauge Side Panels
- Hat Sections are Completely Redesigned With Rail Slot and Retainer Hole for Extra Strength
- Return Added for "Stop" When Flush Mount Doors are Utilized
- Two Pairs of 12-gauge CRS Adjustable Mounting Rails Plated, Drilled and Tapped 10-32 With Hash Marks to Indicate Rack Unit Increments.
- Slots in Rack Rails for Cable Pass-Through and Front Door Hinge Access (Surface Mount Doors)
- Leg Levelers Included as Standard
- Holes for Optional Surface Doors are Pre-Drilled & Plugged
- Hat Sections Sized to Facilitate Standard 19" Panels -Handy for Mounting "Stick-On" Modules and Other Hardware
- Slots Maintained in Hat Sections for Wire Management
- Knock Outs on Removable Standard 2RU Panels (Rear of Cabinet Top & Bottom) Panel Includes 3/8" KOs for BNC Connectors (Perfect for Diversity Wireless Systems)
- Increased Vent Space on Top Sections
- Stocked in Scratch Resistant Textured Black (-962)
- Wide Selection of Convenience, Cooling and Electronic Accessories are Available
- 2RU Panel on Bottom for Cable Pass-Through Between Cabinets
- UL Listed (UL 1678)

### G Series (Ganging) Specific Features (In Addition to Above Features)
- Lift–off, Locking Side Panels – "Swing-Out" Design Facilitates Easy Service Access
- Reinforced Stiffeners On All Side Panels
- Holes For Ganging Hardware Pass Through (Joins Racks)

*FMA44-25SA*

| FMA35-25SA | FMA44-25SA | FMA35-25G | FMA44-25G | FMA44-36G | Accessory | Description |
|:---:|:---:|:---:|:---:|:---:|:---|:---:|
| ◆ |  | ◆ |  |  | PFD35 | **PFD Series**<br>1" Deep Plexiglas Steel Front Door |
|  | ◆ |  | ◆ | ◆ | PFD44 |  |
| ◆ |  | ◆ |  |  | SFD35 | **SFD Series**<br>1" Deep Solid Steel Front Door |
|  | ◆ |  | ◆ | ◆ | SFD44 |  |
| ◆ |  | ◆ |  |  | MPFD35 | **MPFD Series**<br>1" Deep Perforated Steel Front Door |
|  | ◆ |  | ◆ | ◆ | MPFD44 |  |
| ◆ |  | ◆ |  |  | MPFD35-3 | **MPFD-3 Series**<br>3" Deep Perforated Steel Front Door |
| ◆ | ◆ | ◆ | ◆ |  | TPS-25 | **Top Opening Solutions**<br><br>TPS Series - Solid Panels<br>TPP Series - Perforated Panels<br>EFT Series - Top Opening Fan Panels |
|  |  |  |  | ◆ | TPS-36 |  |
| ◆ | ◆ | ◆ | ◆ |  | TPP-25 |  |
|  |  |  |  | ◆ | TPP-36 |  |
| ◆ | ◆ | ◆ | ◆ |  | EFT-25 |  |
|  |  |  |  | ◆ | EFT-36 |  |
|  |  |  |  |  | FMA35-25LRPV | **Optional Vented Side Panels** |
|  |  |  | ◆ |  | FMA44-25LRPV |  |
|  |  |  |  | ◆ | FMA44-36LRPV |  |
| ◆ | ◆ | ◆ | ◆ |  | FMARTK25 | **Roller Cart / Caster Kits** |
|  |  |  |  | ◆ | FMARTK36 |  |
| ◆ |  | ◆ |  |  | FMA-RR35 | **FMA-RR Series**<br>Additional Rack Rails |
|  | ◆ |  | ◆ | ◆ | FMA-RR44 |  |

The Atlas Sound Folded Metal Assembly design incorporates an innovative "Radius" look characterized by sleek corners and seamless joints. This new look blends effortlessly in today's ergonomically designed office environment. A wider footprint of over 24" offers installers the luxury of more available working space, particularly valuable in wire management applications where space is often inherently limited.

The Atlas Sound FMA Series features completely redesigned "hat" sections for added strength & greater versatility in rack rail positioning. The hat sections include a rack rail slot along with holes spaced the entire length of the hat section to allow for easy, secure positioning of the rack rails. This newly designed hat section is also spaced in the cabinet to allow the installation of standard 19" blank panels vertically inside the cabinet. This is perfect for "stick-on" type accessories like Atlas Sound DC power supplies & relays. Hat sections also feature slotted cut-outs for clean, organized wire management.

G — 44RU
G — 44RU
SA — 44RU
G — 35RU
SA — 35RU

36" Depth   25½" Depth
SA = Stand Alone   G = Gangable

**Floor Racks**

# Atlas Racks
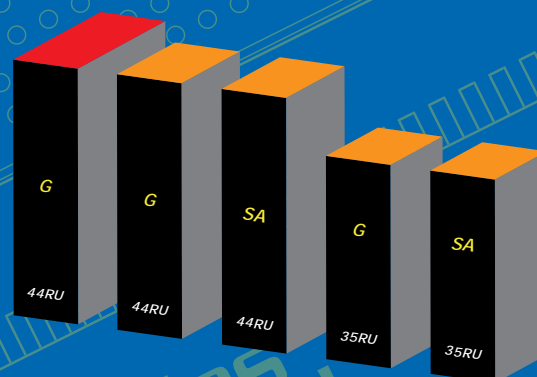
## 700 Series

**Common Features**

- Choice of 25½", 30" or 36" Depths
- Welded, 14-gauge CRS Frame With Vented Top Panel, Base and Rear Door
- Optional, Locking Rear Door with Spring Hinges, Flush Lock and Pull, and Right or Left-Hand Hinging Option
- Optional Surface-Mount Front Door in Choice of Solid Steel, Perforated, or Plexiglas (Right or Left-Hand Hinging)
- Easily Adjustable, 12-gauge, Front-to-Rear Tapped Mounting Rails
- Slotted Mounting Rail Supports are E.I.A. Spaced for Vertical Mounting of 19" Accessories
- Increased Panel Space Opening in Top and Bottom Provides Multiple Panel Options and Wire / Cable Access
- UL Listed (Standard 1678)

Sturdy welded racks feature 14-gauge CRS welded frames in 25½" depth (35, 40, & 44RU), 30" depth (44RU) or 36" depths (44RU). Designed with open sides for easy wiring access in single or multi-bay configurations. CRS corner gussets with four integral ⅜"-16 thread sockets facilitate leg levelers (included) and optional RCK-700 casters. Includes one pair of 12-gauge CRS adjustable mounting rails tapped 10-32; 30" & 36" depth series include two pair of rails.

Wire management and ventilation features include maximum cabling and cooling opportunities via a standard panel width opening in the cabinet top and bottom. The panel opening may be covered with standard panels, the ISOPANEL (a non-conductive polymer panel to facilitate isolation of the rack from the building's electrical system), or EFT Series exhaust fans. Mounting rail supports have slotted holes to adjust rail depth and provide open cable raceways. Supports are also on 19" panel spacing to accommodate vertical accessory mounting. Punched vents located at the cabinet top and bottom front edge may be covered with standard panels for thermal management.

*744-36*

| 735-25 | 740-25 | 744-25 | 744-30 | 744-36 | Accessory | Description |
|:---:|:---:|:---:|:---:|:---:|:---|:---|
| ◆ | | | | | PFD35 | **PFD Series** |
| | ◆ | | | | PDF40 | **1" Deep Plexiglas Steel Front Door** |
| | | ◆ | ◆ | ◆ | PFD44 | |
| ◆ | | | | | SFD35 | **SFD Series** |
| | ◆ | | | | SFD40 | **1" Deep Solid Steel Front Door** |
| | | ◆ | ◆ | ◆ | SFD44 | |
| ◆ | | | | | MPFD35 | **MPFD Series** |
| | ◆ | | | | MPFD40 | **1" Deep Perforated Steel Front Door** |
| | | ◆ | ◆ | ◆ | MPFD44 | |
| ◆ | | | | | MPFD35-3 | **MPFD-3 Series**<br>**3" Deep Perforated Steel Front Door** |
| ◆ | | | | | FRD35 | **FRD Series** |
| | ◆ | | | | FRD40 | **Optional Flush Rear Doors** |
| | | ◆ | ◆ | ◆ | FRD44 | |
| ◆ | ◆ | ◆ | | | TPS-25 | **Top Opening Solutions** |
| | | | ◆ | | TPS-30 | |
| | | | | ◆ | TPS-36 | **TPS Series - Solid Panels** |
| ◆ | ◆ | ◆ | | | TPP-25 | **TPP Series - Perforated Panels** |
| | | | ◆ | | TPP-30 | **EFT Series - Top Opening Fan Panels** |
| | | | | ◆ | TPP-36 | |
| ◆ | ◆ | ◆ | | | EFT-25 | |
| | | | ◆ | | EFT-30 | |
| | | | | ◆ | EFT-36 | |
| ◆ | | | | | SPS35-25 | **Optional Vented Side Panels** |
| | ◆ | | | | SPS40-25 | |
| | | ◆ | | | SPS44-25 | |
| | | | ◆ | | SPS44-30 | |
| | | | | ◆ | SPS44-36 | |
| ◆ | ◆ | ◆ | ◆ | ◆ | RCK-700 | **Roller Cart / Caster Kits** |
| ◆ | | | | | RR35 | **FMA-RR Series** |
| | ◆ | | | | RR40 | **Additional Rack Rails** |
| | | ◆ | | | RR44 | |

**Did You Know...**

The UL Listed (UL 1678) 700 Series Racks are now seismic certified in accordance to the Telcordia NEBS (Network Equipment Building Systems) GR-63-CORE standard. When the SBK-700 brackets are properly installed, the 700 Series successfully endured the rigorous real-world dynamic test - the racks are able to withstand up to a zone 4 earthquake which is comparable to Richter magnitude 8.0!

44RU  44RU  44RU  40RU  35RU

| 36" *Depth* | 30" *Depth* | 25½" *Depth* |

SA = Stand Alone    G = Gangable

Floor Racks

# Atlas Racks

## Common Features

- Choice of 25½" or 30" Depths
- Welded, 16-gauge CRS Frame With Vented Top Panel, Base and Rear Door
- Removable, Locking Rear Door with Spring Hinges, Flush Lock and Pull, and Right or Left-Hand Hinging Option
- Optional Surface-Mount Front Door in Choice of Solid Steel, Perforated, or Plexiglas (Right or Left-Hand Hinging)
- Easily Adjustable, 12-gauge, Front-to-Rear Tapped Mounting Rails
- Slotted Mounting Rail Supports Facilitate Vertical Wire Management and are E.I.A.-Spaced for Vertical Mounting of 19" Accessories
- Panel Space Opening in Top and Bottom Provides Ample Wire/Cable Access
- 18 Conduit Knockouts (Standard & Concentric)
- UL Listed (Standard 1678)

Sturdy welded racks feature 16-gauge CRS welded frames in 25½" or 30" depths, standard panel space heights and 19" widths. Designed with open sides for easy wiring access in single or multi-bay configurations. Racks offer sturdy construction, quality wire management, ventilation, and styling. 25" depth series provides 24¼" of usable depth, and 30" depth series has 28¾" of usable depth. The 500 Series is UL-listed and shipps with a flush-mounting, removable rear door (right or left-hand hinging) with lock, and adjustable mounting rails. Series includes one pair of 12-gauge CRS adjustable mounting rails tapped 10-32; 30" depth series includes two pair of rails.
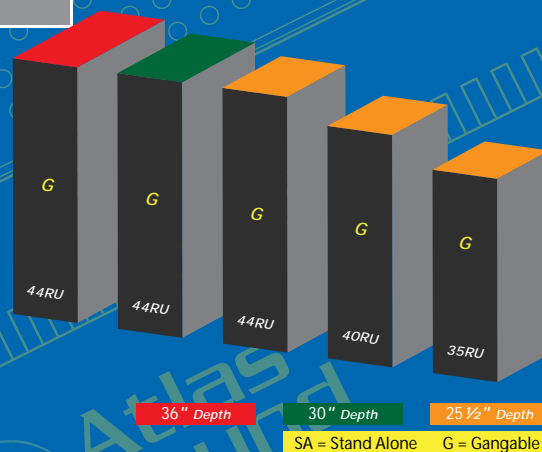
Wire management and ventilation features include maximum cabling and cooling opportunities via a standard panel width opening in the cabinet top and bottom. The panel opening may be covered with a standard blank panel, the ISOPANEL (a non-conductive polymer panel to facilitate isolation of the rack from the building's electrical system), or exhaust fan Model EFT6-4. Mounting rail supports have slotted holes to adjust rail depth and provide open cable raceways. Supports are also on 19" panel spacing to accommodate vertical accessory mounting. Punched vents located at the cabinet top and bottom front edge may be covered with standard panels to control air handling.

544-25

Floor Racks

800.876.3333

| 535-25 | 540-25 | 544-25 | 544-30 | Accessory | Description |
|:---:|:---:|:---:|:---:|---|---|
| ◆ | | | | PFD35 | **PFD Series** <br> 1" Deep Plexiglas Steel Front Door |
| | ◆ | | | PDF40 | |
| | | ◆ | ◆ | PFD44 | |
| ◆ | | | | SFD35 | **SFD Series** <br> 1" Deep Solid Steel Front Door |
| | ◆ | | | SFD40 | |
| | | ◆ | ◆ | SFD44 | |
| ◆ | | | | MPFD35 | **MPFD Series** <br> 1" Deep Perforated Steel Front Door |
| | ◆ | | | MPFD40 | |
| | | ◆ | ◆ | MPFD44 | |
| ◆ | | | | MPFD35-3 | **MPFD-3 Series** <br> 3" Deep Perforated Steel Front Door |
| ◆ | ◆ | ◆ | ◆ | SPR6 | **Top Opening Solutions** <br> SPR6 - 6RU Solid Panel <br> PPR6 - 6RU Perforated Panel <br> EFT6-4 - 6RU Fan Panel |
| ◆ | ◆ | ◆ | ◆ | PPR6 | |
| ◆ | ◆ | ◆ | ◆ | EFT6-4 | |
| ◆ | ◆ | ◆ | | RCK-25 | **Caster Kits** |
| | | | ◆ | RCK-30 | |
| ◆ | | | | SPS35-25 | **Optional Vented Side Panels** |
| | ◆ | | | SPS40-25 | |
| | | ◆ | | SPS44-25 | |
| | | | ◆ | SPS44-30 | |
| ◆ | | | | RR35 | **RR Series** <br> Additional Rack Rails |
| | ◆ | | | RR40 | |
| | | ◆ | ◆ | RR44 | |

Floor Racks

G
G
G
G

44RU    44RU    40RU    35RU

30" *Depth*    25½" *Depth*
SA = Stand Alone    G = Gangable

*AtlasSound.com*

Atlas
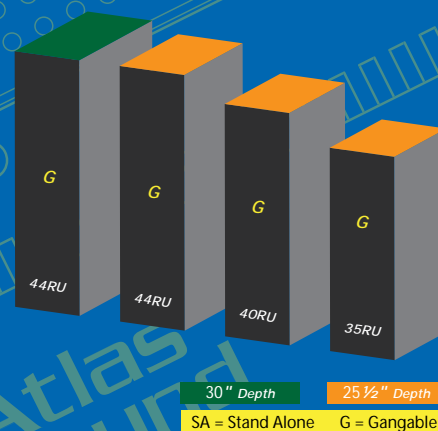
## 200 Series

### Common Features
- Extensive Wire Management Capabilities
- Five Model Heights
- Rear Door Offers Right or Left-Hand Hinging Capability
- Increased Panel Opening in Cabinet Base and Top Offers Wiring Convenience
- Manufactured to E.I.A. Standards
- Includes Perforated Vents, Front/Rear & Sides
- Ideal for Telecommunications, Broadcasting, Manufacturing, Testing Research, Educational and Institutional Applications
- UL Listed (UL 1678)

### Basic Rack Includes
- Base, Top Panel, Side Panels, & Rear Door
- 16-gauge CRS Construction
- Vented Top, Base, Sides and Rear Door with Lock
- One Pair of 11-gauge, CRS Adjustable Mounting Rails
- 18 Conduit Knockouts and 2 Wire-Access Panels

These standard racks are available in 3 depths: 18½", 25½", and 30". Racks are 22⁵⁄₁₆" wide, and available in five vertical panel space heights. The 200 Series are completely welded and ready for equipment installation. All models are constructed of heavy 16-gauge CRS and include base, top panel, side panels, mounting rails, and rear door. Rear doors are furnished with quick-release spring hinges which allow them to be rotated 180° for right or left-hand opening. Cylinder locks and flush door pulls (handles) accompany rear door assemblies.

The 200 Series cabinet line offers several installer-friendly advantages, including a standard panel width opening in the cabinet top which can be left open for wire access and/or ventilation, or closed using standard panels.

Conduit arrays are located on the top and bottom surface panels, as well as the top and bottom back flanges.

Stamped perforated vents are located on all sides as well as on the rear door to allow for maximum air convection. Internal vents reduce side-by-side stacking problems in multi-bay configurations.

244-18

**Floor Racks**

| 221-18 | 224-18 | 235-18 | 240-18 | 244-18 | 221-25 | 224-25 | 235-25 | 240-25 | 244-25 | 221-30 | 224-30 | 235-30 | 240-30 | 244-30 | Accessory | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ◆ | | | | | ◆ | | | | | ◆ | | | | | PFD21 | PFD Series |
| | ◆ | | | | | ◆ | | | | | ◆ | | | | PFD24 | 1" Deep Plexiglas Steel Front Door |
| | | ◆ | | | | | ◆ | | | | | ◆ | | | PFD35 | |
| | | | ◆ | | | | | ◆ | | | | | ◆ | | PFD40 | |
| | | | | ◆ | | | | | ◆ | | | | | ◆ | PFD44 | |
| ◆ | | | | | ◆ | | | | | ◆ | | | | | SFD21 | SFD Series |
| | ◆ | | | | | ◆ | | | | | ◆ | | | | SFD24 | 1" Deep Solid Steel Front Door |
| | | ◆ | | | | | ◆ | | | | | ◆ | | | SFD35 | |
| | | | ◆ | | | | | ◆ | | | | | ◆ | | SFD40 | |
| | | | | ◆ | | | | | ◆ | | | | | ◆ | SFD44 | |
| ◆ | | | | | ◆ | | | | | ◆ | | | | | MPFD21 | MPFD Series |
| | ◆ | | | | | ◆ | | | | | ◆ | | | | MPFD24 | 1" Deep Perforated Steel Front Door |
| | | ◆ | | | | | ◆ | | | | | ◆ | | | MPFD35 | |
| | | | ◆ | | | | | ◆ | | | | | ◆ | | MPFD40 | |
| | | | | ◆ | | | | | ◆ | | | | | ◆ | MPFD44 | |
| | ◆ | | | | | ◆ | | | | | ◆ | | | | MPFD24-3 | MPFD-3 Series |
| | | ◆ | | | | | ◆ | | | | | ◆ | | | MPFD35-3 | 3" Deep Perforated Steel Front Door |
| ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | SPR6 | 6RU, Solid Recessed Panel |
| ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | PPR6 | 6RU, Perforated Panel |
| ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | EFT6-4 | 6RU, 4 Fan Panel |
| ◆ | ◆ | ◆ | ◆ | ◆ | | | | | | | | | | | CT1020-962 | Roller Cart / Caster Kits |
| | | | | | ◆ | ◆ | ◆ | ◆ | ◆ | | | | | | RCK-25 | |
| | | | | | | | | | | ◆ | ◆ | ◆ | ◆ | ◆ | RCK-30 | |
| ◆ | | | | | ◆ | | | | | ◆ | | | | | RR21 | RR Series |
| | ◆ | | | | | ◆ | | | | | ◆ | | | | RR24 | Additional Rack Rails |
| | | ◆ | | | | | ◆ | | | | | ◆ | | | RR35 | |
| | | | ◆ | | | | | ◆ | | | | | ◆ | | RR40 | |
| | | | | ◆ | | | | | ◆ | | | | | ◆ | RR44 | |

SA — 44RU · SA — 40RU · SA — 35RU · SA — 24RU · SA — 21RU · SA — 44RU · SA — 40RU · SA — 35RU · SA — 24RU · SA — 21RU · SA — 44RU · SA — 40RU · SA — 35RU · SA — 24RU · SA — 21RU

30" Depth | 25½" Depth | 18½" Depth
SA = Stand Alone    G = Gangable

# Atlas Racks

## 100 Series

### Common Features
- Extensive Wire Management Capabilities
- Five Model Heights
- Rear Door Offers Right or Left-Hand Hinging Capability
- Standard 6RU (5¼") Panel Opening in Cabinet Base and Top Offers Wiring Convenience
- Manufactured to E.I.A. Standards
- Includes Perforated Vents
- Ideal for Telecommunications, Broadcasting, Manufacturing, Testing, Research, Educational and Institutional Application

### Basic Rack Includes
- Base, Top Panel, Side Panels, & Rear Door
- 16-gauge CRS Construction
- Vented Top, Base, Sides and Rear Door
- One Pair of 11-gauge, CRS Fixed Mounting Rails
- Removable Rear Door with Lock
- 18 Conduit Knockouts and 2 Wire-Access Panels

These industry-standard utility cabinets are engineered for ample ventilation and wire management. They are complete with base, top panel, vented side panels, vented rear door with lock, one pair of fixed rails, mounting screws, and hardware. The rear door is removable and may be hung for right or left-hand hinging. The 100 Series is welded and UL listed (Standard 1678) and feature vents in the cabinet top and bottom front edge. Top and bottom panel opening may be left open for access and ventilation or covered using standard panels, EFT6-4 fan panel, or ISOPANEL.

The 100 Series will not accept rear rack rails.

*144-18*

*800.876.3333*

| 121-18 | 124-18 | 135-18 | 140-18 | 144-18 | Accessory | Description |
|---|---|---|---|---|---|---|
| ◆ | | | | | PFD21 | **PFD Series** |
| | ◆ | | | | PFD24 | 1" Deep Plexiglas Steel Front Door |
| | | ◆ | | | PFD35 | |
| | | | ◆ | | PDF40 | |
| | | | | ◆ | PFD44 | |
| ◆ | | | | | SFD21 | **SFD Series** |
| | ◆ | | | | SFD24 | 1" Deep Solid Steel Front Door |
| | | ◆ | | | SFD35 | |
| | | | ◆ | | SFD40 | |
| | | | | ◆ | SFD44 | |
| ◆ | | | | | MPFD21 | **MPFD Series** |
| | ◆ | | | | MPFD24 | 1" Deep Perforated Steel Front Door |
| | | ◆ | | | MPFD35 | |
| | | | ◆ | | MPFD40 | |
| | | | | ◆ | MPFD44 | |
| | ◆ | | | | MPFD24-3 | **MPFD-3 Series** |
| | | ◆ | | | MPFD35-3 | 3" Deep Perforated Steel Front Door |
| ◆ | ◆ | ◆ | ◆ | ◆ | SPR6 | **Top Opening Solutions** |
| ◆ | ◆ | ◆ | ◆ | ◆ | PPR6 | SPR6 - 6RU Solid Panel |
| ◆ | ◆ | ◆ | ◆ | ◆ | EFT6-4 | PPR6 - 6RU Perforated Panel |
| ◆ | ◆ | ◆ | ◆ | ◆ | CT1020-962 | EFT6-4 - 6RU Fan Panel |
| | | | | | | **Roller Cart** |

**Floor Racks**

SA
44RU

SA
40RU

SA
35RU

SA
24RU

SA
21RU

18 ½" *Depth*

SA = Stand Alone    G = Gangable

## WMA Series Wall Racks

**Common Features**

- New, Secure and Innovative Design Greatly Simplifies Process of Mounting Center Section to Rear Panel May be Safely Installed by One Person
- Mirror Image Back Pan Allows Left or Right Hinging of Center Section Regardless of Orientation
- Exclusive, Integral Atlas Sound "Alignment Frame" Provides Support Throughout the Complete Travel of the Center Section
- Back Pan Now Boxed Separately on Same Pallet with Center Section Allows Contractor to Send Rear Section to Job Site for Installation by Other Trades
- Top and Bottom Cutouts for Atlas Sound ES Series Single or Dual Fan Panels (Ships With 3RU Blank Panels Installed)
- Finished in Durable Black Electrostatic Powder Coat
- 12½" x 12½" Cut-Out on Back Pan Allows Easy Cable Access Through Mounting Surface
- New, Continuous Slot "Hat Section" Design Allows Full Front to Back Adjustment of Rack Rails. Securing Holes Top and Bottom Provide Fixed Positioning of Rails
- Ships With One Set of Plated Rack Rails and (100) 10-32 x ¾" Rack Screws with Captive Washers
- Rails Include Hash Marks to Indicate Rack Unit Increments
- New Side Lock Security System Provides an Easy Yet Secure Method of Joining Center Section to Back Pan
- Extensive Internal Bracing Also Provides Cable Management / Pass Through
- Multiple Knockouts Top and Bottom of Rear Section for Conduit & Wireless Antennas
- Back Pan Includes Raised Mounting Embosses to Mount Power and Other Accessories

The Atlas Sound WMA Series (Wall Mount Assembly) of wall racks provide outstanding versatility, strength and functionality all in an elegantly designed package.

Designed with extensive field research and contractor input, the WMA Series is the perfect solution for any installation where a wall mount cabinet is required.

*WMA16-23*

| WMA10-23 | WMA12-23 | WMA16-23 | WMA24-23 | WMA35-23 | Accessory | Description |
|---|---|---|---|---|---|---|
| ◆ | | | | | PFD10 | PFD Series<br>1" Deep Plexiglas Steel Front Door |
| | ◆ | | | | PFD12 | |
| | | ◆ | | | PFD16 | |
| | | | ◆ | | PDF24 | |
| | | | | ◆ | PFD35 | |
| ◆ | | | | | SFD10 | SFD Series<br>1" Deep Solid Steel Front Door |
| | ◆ | | | | SFD12 | |
| | | ◆ | | | SFD16 | |
| | | | ◆ | | SFD24 | |
| | | | | ◆ | SFD35 | |
| ◆ | | | | | MPFD10 | MPFD Series<br>1" Deep Perforated Steel Front Door |
| | ◆ | | | | MPFD12 | |
| | | ◆ | | | MPFD16 | |
| | | | ◆ | | MPFD24 | |
| | | | | ◆ | MPFD35 | |
| ◆ | | | | | MPFD10-3 | MPFD-3 Series<br>3" Deep Perforated Steel Front Door |
| | ◆ | | | | MPFD12-3 | |
| | | ◆ | | | MPFD16-3 | |
| | | | ◆ | | MPFD24-3 | |
| | | | | ◆ | MPFD35-3 | |
| ◆ | ◆ | ◆ | ◆ | ◆ | SPR3 | Top Opening Solutions<br>SPR6 - 6RU Solid Panel<br>PPR6 - 6RU Perforated Panel<br>EFP3-1 - 3RU, 1 Fan Panel<br>EFP3-2 - 3RU, 2 Fan Panel |
| ◆ | ◆ | ◆ | ◆ | ◆ | PPR3 | |
| ◆ | ◆ | ◆ | ◆ | ◆ | EFP3-1 | |
| ◆ | ◆ | ◆ | ◆ | ◆ | EFP3-2 | |
| ◆ | | | | | WMA-RR10 | WMA-RR Series<br>Additional Rack Rails |
| | ◆ | | | | WMA-RR12 | |
| | | ◆ | | | WMA-RR16 | |
| | | | ◆ | | WMA-RR24 | |
| | | | | ◆ | WMA-RR35 | |

Wall Mount Racks

## 300 Series Wall Racks

### Common Features
- Sturdy Wall-Mount Cabinet Protects Equipment and Saves Valuable Floor Space
- Selection Includes Models With 12" and 15", Deep Center Mounting Sections
- Reinforced Frame Flanges, Plus Corner-Brace Structural Supports And Electric-Welded Seams & Miters Provide Stability For Mounted Equipment
- Punched Vents Assure Heat Dissipation
- Wire Management Provisions Allow Organized Wire Access
- Adjustable Mounting Rails Provide Flexibility
- Includes Solid Front Door

These pre-assembled sectional wall-mount cabinets feature right or left hinging capability and offer full functional and mechanical flexibility for mounting standard 19" wide rack equipment. Cabinets have been engineered to offer increased mounting, wiring and structural capabilities. The 300 Series offer center section depths of 12" and 15", respectively; and rear mounting section depth of 4½". The 300 Series models are used to protect electronic switching, monitoring, lighting, sound and communications controls in venues such as: school auditoriums, health care facilities, clubs, factories, warehouses, public areas, and recreation areas.

Structural and mounting features include: 16-gauge CRS construction throughout; one-piece front and rear sections strengthened with frame flanges on bottom, top and sides,

center section with corner-brace structural supports, a center section guide plate, electric-welded seams and miters, punched vents for heat dissipation and 11-gauge adjustable front-to-rear mounting rails. The center section mounting rail supports also have slotted cutouts, to easily adjust rail depth and provide open raceways for containing vertically run wire and cable. Corner brace supports, which straddle the back and side panel of the rear section (hinge-side), also feature round wire access holes for harnessing excess wire. All 300 Series have 20 conduit knockouts, except 307-12 which has 16. Provisions have been added to facilitate contractor installation of plywood for mounting accessories to inside of rear section if desired. Rear section also includes removable pin-type hinges allowing it to be installed separately in a surface or recessed manner.

*Wall Mount Racks*

| 307-12 | 310-12 | 312-12 | 316-12 | 324-12 | 310-15 | 312-15 | 316-15 | 324-15 | 335-15 | Accessory | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | CT31A | **Optional Support Wheel** |
| | ◆ | | | ◆ | | | | | | RR310 | **RR3 Series Additional Rack Rails** |
| | | ◆ | | | ◆ | | | | | RR312 | |
| | | | ◆ | | | ◆ | | | | RR316 | |
| | | | | ◆ | | | | ◆ | | RR324 | |
| | | | | | | | | | ◆ | RR335 | |

*RX14-25SFD*

*RX21-25SFD*

## RX Series Portable Racks

### Cabinets with Casters & Side Handles for Mobile Use

RX Series. Sturdy mobile equipment cabinets have been re-designed to offer increased mounting-depth and improved wire-management capabilities in an easily transportable protective cabinet. Construction is similar to the 200 Series with the addition of four, pre-installed 4" casters (two locking) and recessed and hinged, rubber-padded steel grips on each side. RX Series models feature three wire access / isolation holes in the bottom of the rear panel and a solid base. Cabinet features a 16-gauge CRS welded frame, adjustable, front-to-rear mounting rail supports with slotted cut-outs for vertical wire management, perforated vents on side panels and rear door, a 600 lbs (272 kg) load capacity and locking rear door. 25" & 30" deep versions are available either with factory installed solid front door or without door to allow use of standard perforated or Plexiglas doors.

*407-15*



*607-15*

## Welded & Assembled Desk Top Cabinets

### 400 Series

Welded assemblies provide desk-top access to (19") control and monitor equipment. Models are 16-gauge CRS and include one pair of mounting rails, tapped 10-32, hardware and wiring access below rear door or panel. Models 407-15 through 418-15 include locking rear door with spring-loaded hinge, side vents and optional front door with self-tapping screws. Inside (usable) dimensions are 17¾" Width x 14⅛" Depth (451mm x 359mm).

## Wall-Mount Enclosure For 19" Equipment

607-15.  Compact 16-gauge CRS assembly with 7RU (12⅜") vertical panel space is ideal for housing and protecting small 19" equipment installations from public view. It includes above listed features with locking front door and inside (usable) dimensions. It includes convenient pre-punched back panel for wall mounting, locking front door, and vents on each side. Inside (usable) depth is 14" (356mm).



*RKW12-180*

## RKW Series

- ⅝" High Grade MDF Veneer Construction
- Low Gloss Finish
- 18" Depth to Conceal Longer Amplifiers and Other Rack Mount Equipment
- 12RU and 16RU Heights "Under Desk or Under Counter" Applications
- Furniture Quality Fit and Finish
- One Pair of 11-gauge Rack Rails Included

The new RKW Series of racks from Atlas Sound provide a great way to secure rack mount AV components in boardrooms, classrooms, and other applications. The simple knock down design allows for easy storage and transportation to the job site. Assembly is a snap with a furniture style cam lock system. One pair of 11-gauge rack rails provides support for up to 250 lbs (113.39 kg) of rack mount equipment.

**Desktop and Stand-Alone Racks**

*AWR3W*

*916-18*

## Tilt-Out Wall Cabinets for 19" Equipment

### AWR Series

Convenient access and lock-in security highlights Atlas Sound's re-designed 2RU (3½") / AWR2W and 3RU (5¼") / AWR3W tilt-out wall cabinets for 19" equipment. These re-designed welded models can be surface or recessed mounted (trim ring included) and include a 3RU panel opening above the main bay for connector panels or power distribution with a usable depth of 4" for the AWR2W and 5¾" for the AWR3W. These cabinets are perfect for mounting remote amplifiers and control equipment. The series features a 16-gauge CRS formed door frame with a 16-gauge CRS locking tilt-out door which closes against rack face plate. The surface mounting door is attached to the frame internally with 2 pin style hinges to prevent tampering. Doors can be opened to two positions—tilt-out for operation and by releasing side catches, the door will open to approximately 90° for equipment installation and maintenance. Units are furnished with two steel safety catch cables which suspend and hold doors at 90°. Front panels have 45° mitered edges to present a clean flush appearance. Back box is 16-gauge CRS equipped with six concentric knockouts of ½" and ¾". AWR Series is shipped complete and ready for installation. Panel mounting holes accept 10-32 hardware. The Top most RU useable depth is 20" (508mm), the bottom RU useable depth is 17¼" (438.1mm).

## Easy-to-Assemble, Stackable Utility Frames

### 900 Series

Versatile frames are engineered for ease of assembly, strength, and economical shipping/storage. Innovative units assemble and stack easily for mounting electronics in custom cabinet enclosures or free-standing situations. They are ideal for theater, residential, broadcast, and retail applications where easy access to equipment mounted "behind the scenes" is desired. This frame-only design allows full use of all vertical panel space for equipment mounting and is intended for permanent installation where doors, side panels, and casters are not required. (Custom side panels may be added). The 900 Series frames are offered in 19¼" and 26¼" panel space heights. Model 912-18 is 23³⁄₁₆" tall and offers 11RU of vertical panel space. All four rails are tapped. Model 916-18 is 30" tall and offers 15RU of vertical panel space. (Us0 and 16RU, respectively, with removal of the optional top horizontal member.) All models can be stacked and ganged. The vertical stacking process is easily accomplished — simply stack the rail members and join them using the front-to-rear members as splice plates. (All necessary hardware is furnished.) Units can also be joined "side-by-side" using the predrilled holes in the front-to-rear frame members and owner-supplied hardware. (These pre-drilled holes can also be used to mount custom side panels.)
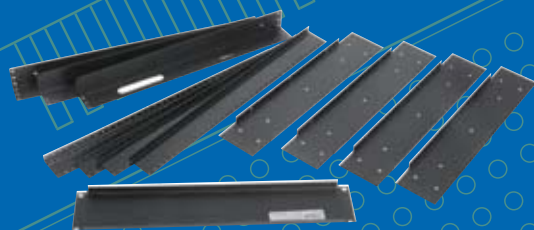
*900 Series Unassembled*
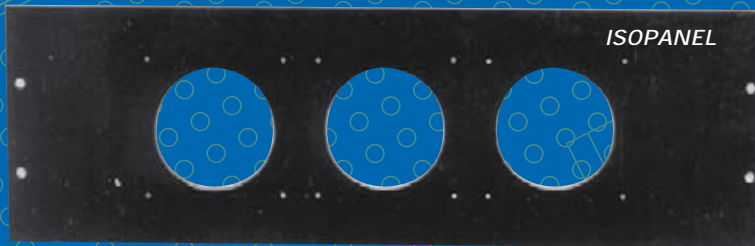
*ISOPANEL*

## Isolation Panel

The ISOPANEL™ has three pre-cut openings to accommodate standard 2½" conduit couplings. This allows conduit to be brought into the rack without touching the metal frame. Additional screw holes, which facilitate #8 sheet metal screws are provided for mounting standard 4 square electrical covers over each 2¹⁵⁄₁₆" hole for custom application. Textured polymer material can be worked with common hand tools facilitating field modification. The ISOPANEL™ is an over-sized panel measuring 19" wide x 6" height (outside dimension).


*CB3*  *CB1*  *CB2*
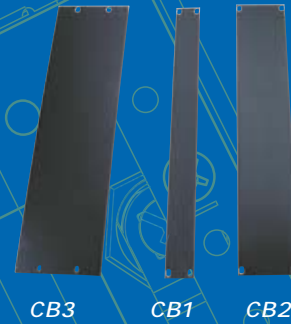
## Solid & Perforated Panels

Choose from a variety of panels to enclose unfilled space and to provide aesthetic continuity and security in 19" electronic equipment cabinets. Solid & perforated models offer dust protection and heat ventilation. All models include oblong mounting holes on E.I.A. universal spacing for adjustment flexibility.

### SEC Series Security Covers

Designed to eliminate unauthorized operator tampering to rack mount equipment such as equalizers and rack mount mixers. These 22-gauge construction covers feature fine perforated steel insert for good visibility. Unique radiused corners provide a professional looking installation. Formed edges protect equipment from scratches. Available in 1RU, 2RU, & 3RU heights.


*SPR7*

### CB Series

Economy solid steel panels are constructed of 14-gauge steel finished in attractive -052 flat black electrostatic powdercoat. Available in 1RU, 2RU, 3RU, & 4RU Heights. 1RU Model, CB1, also available in a 12 piece Bulk Pack, CB1-BP12.

### SPR / SPF Series (UL 1678)

Solid 16-gauge CRS blank panels are available in a selection of recessed and flush mounting models. SPR Series has formed returns on panel top and bottom for recessed installation. SPF Series are formed on all four sides to exhibit a flush-to-frame appearance. Recessed available in 1RU to 8RU heights. Flush available in 2RU.


*TPS25*

### TPS / TPP Series

Top panels for FMA Series & 700 Series. Available as solid (TPS Series) and perforated (TPP Series). Available in 12RU, 14RU, & 18RU heights for 25½", 30", & 36" depth racks, respectivly.

### PPR / PPF Series (UL 1678)

Perforated 22-gauge CRS vent panels provide for natural air circulation and dissipation of equipment generated heat. PPR Series is formed on panel top and bottom for recessed installation. PPF Series is formed on four sides to achieve a flush-to-frame appearance. Recessed available in 1RU to 8RU heights. Flush available in 2RU.


*PPR2*

**Rack Accessories**
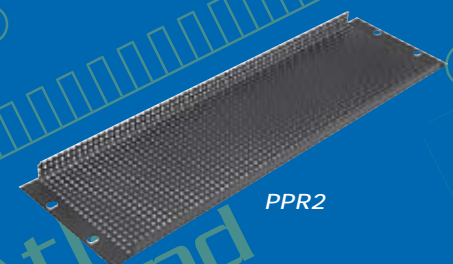
*SD2-14*

## SD Series - Recessed Storage Drawers

Perfect for storage of discs, microphones, tools, and accessory items in fixed or portable racks. 16-gauge CRS drawers mount into 19" cabinets and ship complete with high impact plastic pull handles and steel ball bearing rollers. Drawer hanger assembly is inverted to prevent contents from spilling if cabinet is tilted. Slots are included in the hanger assembly to allow use of SH Series rear support brackets for additional stability in mobile applications. Optional SD-LOCK may be installed for additional security (discrete hole plug fills cut-out if lock is not required). Overall drawer depth is 14¾". Models available in 2, 3, 4, & 6RU heights.

*CD4*

## CD4 - Media Storage Shelves

Convenient CD media storage shelf features slot dividers for increased strength. Construction is of 16-gauge cold rolled steel finished in black textured electrostatic powder coat (-052). Unit holds 40 standard CD jewel cases.

*SH1-10*

## Vented One-Piece All-Purpose Shelf

Versatile formed shelving is 16-gauge CRS and includes mounting holes on E.I.A. standard spacing. Finished in black textured finish. Unit is secured using a single pair of front mounting rails. No assembly is required.
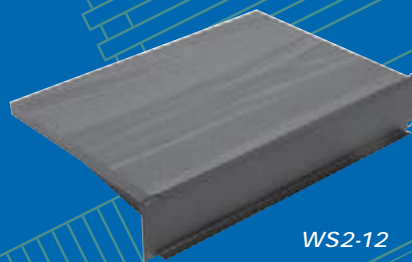
*WS2-12*

## Economical Exterior Shelf / Writing Surface

**WS2-12**

Cost-effective shelf attaches to front mounting rails of 19" cabinets for application as an exterior component mounting shelf or writing surface. Shelf is wood grain formica-covered particle board supported by 16-gauge CRS spot-welded brackets. Brackets are a -052 Flat Black finish. Use standard panel mounting hardware (not supplied).
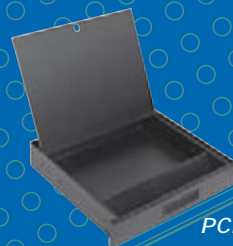
*PCD3-16-052*

## Pencil Drawer

**PCD3-16-052**

Dual-function sliding pencil drawer features a handy storage area covered by a lift-up writing surface. Unit is constructed of 18-gauge CRS and mounts in most 19" rack or cabinet. Hinged writing surface is $16\frac{5}{16}$" wide particle board covered with wood grain laminate. Drawer slides include hold-in detents and 100lbs (45 kg) rated steel ball bearings for smooth extension and easy content accessibility.
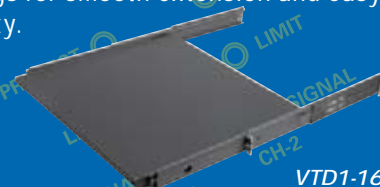
*VTD1-16*

## Sliding Shelf / Tray for Cabinets with Front & Rear Rails

**VTD1-16**

Versatile shelf provides easy access to keyboards, video tape recorders and control equipment. Solid bearing slides extend to a full 17" (432mm) outside of cabinet rails with lock-out protection. Dual-purpose design may be used right-side up as a shelf or upside-down as a tray with a protective lip according to desired application. Model mounts 19" cabinets ($18\frac{1}{2}$" to $25\frac{1}{2}$" deep) equipped with front and rear mounting rails. Load bearing capacity is 85lbs (38.5kg). Constructed of 16-gauge CRS and finished in standard black.

SH3-22
(Shown With SH-CK Clamp Kit)


SH3-22

## SH Series - Clamping Shelves

Clamping rack shelf systems are designed specifically to secure equipment that is not easily rack mounted, such as VCRs and "prosumer" A/V surround sound receivers into any Atlas Sound wall mount cabinet or vertical rack. SH Series shelves offer a sturdy, side, rear, and top support to ensure that once the equipment is placed on the shelf, it's locked in for the duration. Three Shelves In One – Modular design allows you to choose the right shelf system for each job. The formed construction 16-gauge shelves are offered in three EIA compliant heights (2 RU, 3 RU, and 4 RU), 15" or 22" depths, and come equipped with slots on the sides and bottom for optimum ventilation. For applications where "clamping" brackets are required, specify model SH-CK. The rubber-lined clamps securely hold components from the top. Adjustable "L" brackets are included to provide a secure fit and a component "stop" from the rear. For applications where rear rack rail support is necessary (with or without clamping requirements), add model SHRSB bracket kit.





## Universal Monitor Rack Mount Kit

The ASUMRM9 is designed for mounting flat panel displays in Atlas Racks. This 9RU kit is perfect for providing visual feedback for Atlas Sound's ControlKom and Varizone mass communication systems, or other video surveillance systems in need of visual monitoring at the rack. It accommodates any 4:3 display up to 19" diagonally in length, and features a black powder coat finish to match the look of the racks themselves.
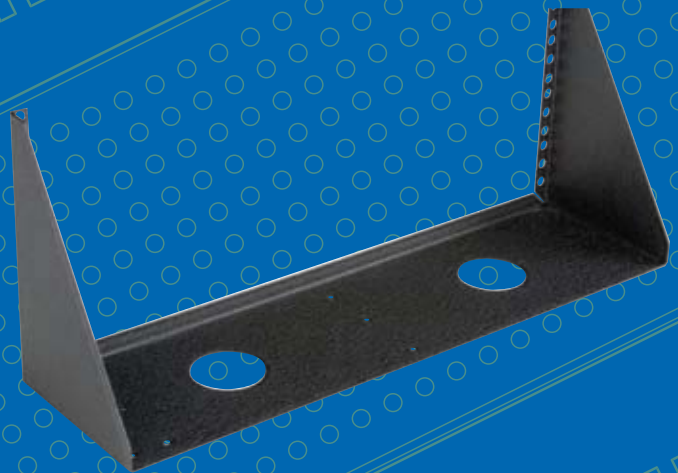
## Wall Mount System

The AWV Series is a cost effective wall mount system which allows low profile mounting of Ethernet switches, mixer amplifiers or other rack mount electronics. These bracket style hardware kits are offered in 2, 3, & 4RU configurations and create flush mounting options for equipment – vertically to walls or under desks and work spaces- when space and component needs do not facilitate the need for a full rack.

Rack Accessories

# Atlas Racks

## Support Angle Brackets

**SA-25 / SA-30.** Use these versatile "L" brackets to support electronic equipment when a solid shelf is not required or when obstructed air circulation is a concern. Brackets span the vertical rails front-to-back to provide additional or initial support for heavy equipment. Model SA-25 mounts in 25½" deep cabinets; Model SA-30 mounts in 30" deep cabinets. Both models are constructed of 11-gauge CRS with slotted cutouts. Finish is standard black.

*SA-25*

*BBG44*
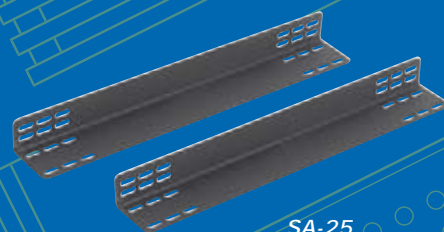
## Copper Bus Bars

**BBG Series.** Functional copper strips are available in six lengths to provide a convenient method of grounding for rack mounted equipment. Bars mount easily to cabinet structure with ¼"-20 hardware (provided). Each bar is ¼" x ¾" wide.

## Wall-Mount Shelf / Enclosure System

**WME150.** Extremely versatile six-piece Wall-Mount Shelf / Enclosure System unit is easy to assemble in a variety of configurations (in utility closets and anywhere space is at a premium). The six piece set is shipped flat and can be assembled with common tools. In the two shelf configuration with the supporting side panels, the wall-mount shelf can be used for a wide variety of equipment with a locking door or top. It can be configured as a locking enclosure with two shelves or as a two-shelves-open enclosure, with the two remaining panels used with additional side panels (sold separately) to make a second open shelf unit. Construction is 16-gauge CRS and finished in Neutral White (-592).
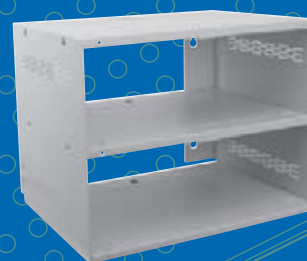
*WME150-592*

*WME150-592*
*(With Locking Front Door)*

## Wall-Mount Shelves for 19" Equipment

**AS-120 / AS-140.** Sturdy shelves with wire access provide for convenient wall-mounting of amplifiers or electronic equipment. AS-120 includes keyhole mounting slots. Versatile AS-140 may be mounted so equipment is installed between side supports or inverted "bookshelf-style" for open equipment placement. Construction is 16-gauge CRS. Finished in Neutral White (-592).

*AS-140-592*

## Touch-Up Paint (4.5 oz Spray)

SP962 – Midnight Black
SP052 – Ebony Black

## Rack Screws / Accessories

RSCW100 – 100 Piece Rack 10-32 x ¾" Screw Bag w/ Captive Plastic Washer

RSCW500 – 500 Piece Rack 10-32 x ¾" Screw Bag w/ Captive Plastic Washer

HK-40 – 40 Chrome Rack 10-32 x 1" Screw Bag with Captive Washer

HK-40CN – 40 Piece Clip on Cage Nuts (For FMA Series Top Section ONLY)

*AS-120-592*

Rack Accessories

# Roller Truck & Caster Kit Accessories

## RCK-700

Heavy-duty, 2⅝" diameter non-locking swivel casters have a load-bearing capacity of 255lbs each. Units are zinc-plated and include black, hard-tread wheels. **Model accommodates 700 Series Cabinets only. Sold in groups of four.**

*RCK-700*

## CT1020-962

Heavy-duty, welded 16-gauge CRS roller truck provides mobility for 19" width x 18½" depth cabinets. Unit is designed for single-bay use and has one pair rigid and one pair locking 3" swivel casters. Model accommodates 18½" depth 100 Series & 200 Series. Finish is black.

*RCK-18*
*RCK-25*
*RCK-30*

## RCK-18

Caster kit provides for caster installation onto 19" width x 18½" depth cabinets in single or multi-bay installations. Kit includes four, non-locking, 2⅝" diameter casters and two, easy-to-install, 18½" length mounting / supporting brackets. Model accommodates the 18½" depth 100 Series & 200 Series cabinets.

## RCK-25

Caster kit provides for caster installation onto 19" width x 25½" depth cabinets in single or multi-bay installations. Kit includes four, non-locking, 2⅝" diameter casters and two, easy-to-install, 25" length mounting / supporting brackets. Model accommodates the 25½" depth 200 Series and 500 Series cabinets.

*LL2*

*LR4*

*LRS*

## RCK-30
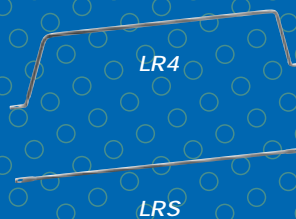
Caster kit provides for caster installation onto 19" width x 30" depth cabinets in single or multi-bay installations. Kit includes four, non-locking, 2⅝" diameter casters and two, easy-to-install, 30" length mounting / supporting brackets. Model accommodates the 30" depth 200 and 500 Series cabinets.

# Leg Levelers

## LL2

Heavy-duty leg levelers provide stabilization on uneven surfaces for FMA, 700, & 500 Series cabinets. 4-piece sets are steel construction with heavy duty rubber cushion with chrome cap and adjust with standard wrenches.

# Horizontal & Vertical Lacing Bars

## LRS

Steel lacing bars are a handy 19" EIA horizontal accessory perfect for assisting rack fabricators in executing clean wiring runs inside Atlas Sound racks & cabinets. Sold in a 10 piece bag.

## LR4

Trapezoidal steel lacing bars with 4" offset provide clean lacing in close proximity to rack mount equipment I/O. Sold in a 10 piece bag.

## VLS44

Vertical lace bar provides a vertical lace path inside the rack to assure clean wire management. 44RU (77") unit may be cut for use in shorter Atlas Sound racks. Mounting points are provided for attachment to internal rack hat sections. Unit is 2" wide x ¹⁵⁄₁₆" thick (50.8mm x 24mm).

# Additional Rails

Mounting rails are comprised of 11-gauge CRS and are tapped 10-32 on E.I.A. spacing -⅝" - ½" continuous centers and finished in black. Rails are sold in pairs and include hardware. All cabinets come with front rails. Order extra rails to provide additional equipment support.

*VLS44*
*RR44*

*Rack Accessories*

# Atlas Racks


*MVXA-2016*


*MVX-195*


*MVXA-2016 (Back)*


*MVX-193*

## 19" Monitor Panels

### MVXA-2016

Atlas Sound MVXA monitor panel is an active device for aural and visual monitoring, for sixteen different speaker and line level circuits in any combination. Each input is individually selectable using an easy-to-position jumper. The MVXA-2016 offers superior performance with easy visual assessment in an ultra-thin single rack space chassis. Twelve segment LED bar-graphs provide 33dB of resolution and monitor any combination of line level (1V reference) —25V RMS, 70.7V RMS, and 100V RMS simultaneously. The bottom ten LEDs are green and have a VU ballistics response. The two red LEDs at the top of the bar graph are peak to provide instantaneous level indication. LED meter sensitivity is -30dB to +30 dB. The MVXA-2016 offers the capability to aurally monitor individual channels via an internal speaker, headphone jack, line level output to external amplifier or 3 watt high-fidelity output to an external speaker. Panel functions include a channel selection knob, channel audible monitoring level control and headphone jacks. External power supply is UL Listed. Unit weight is 7lbs (3.2kg).

### MVX Series

Designed for economical multi-channel system applications that require quality aural and visual monitoring. Models are available with choice of loudspeaker and VU meter for 25V or 70.7V systems. To enable monitoring of up to five program channels, all units include a 6-position, double-pole switch with a positive "Off" position and a volume control for adjusting the level of the monitor loudspeaker. Each monitored circuit connects to two rear-mounted screw terminals. Front panels are 16-gauge CRS, finished in black. Potentiometers and channel selectors are rear mounted with white nomenclature. VU meters are of moving coil design and include type "A" meter scale and protective thermoplastic cover.

## Rack Work Light

### RWL2

Portable lamp with wide light diffusion provides illumination of interior rack spaces. Supplied with a "non-mar" magnetic mount, 3-wire grounded AC outlet, On/Off switch, high impact clear polycarbonate lens, two 10 watt incandescent lamps (one for replacement) and 6' power cord. Assembly is 18 and 22-gauge CRS. Standard finish is flat black epoxy with galvanized head.


*RWL2*

## Fan Panels for Exhaust Cooling

### EFP Series

Flush fan panel assemblies dissipate equipment-generated heat quickly from 19" cabinets. Front/rear and top loading assemblies are available in single and dual fan models with 115 CFM (per fan) fan speed for flush and recessed mounting. Models are complete with fan(s) protected by nickel chrome plated wire grille backed with a steel wire mesh screen assembled to a 16-gauge CRS panel. Panels mount easily to all E.I.A. standard mounting rails and are stocked in standard black finish. Fans are factory-mounted for exhaust cooling and may be rotated easily, in the field, for intake cooling. A 6′ line cord is included.


*EFP3-1*


*EFP3-2*

## Top-Mounting Tube Axial Fan

### EFT Series

EFT top-mounting fan panels are powerful cooling assemblies which provide quiet and effective heat dissipation for equipment mounted in 25½" & 30" depth 700 Series & FMA Series cabinets. Space-efficient units require no vertical panel space and deliver 550 CFM with a 4" (100mm) diameter tube axial propeller fan. The EFT Series operates at 115VAC, 60Hz and includes a continuous-duty, shaded-pole type motor, sealed ball bearings, and chrome plated finger guards. Assemblies include an automatic reset thermal protector and 6′ line cord with molded plug mounted to a 16-gauge CRS panel finished in standard black.

## Fan Thermostat

### CFT-125

Unit provides ventilation control of fans and other cooling equipment. Thermostat includes an automatic shut-off feature and a special 3-wire extension cord with series plug for automatic operation. Use the thermostat knob to make temperature adjustments at dial settings from 50˚F to 100˚F. The CFT-125 is UL and CSA-listed.


*CFT-125*


*EFT-25*


*EFT6-4*

**Rack Mount Keyboard / Monitor / Mouse**

*MMK17-RM*

## MMK15-RM
### 15" Rack Mount Monitor

- Meets EIA310c and IEC-3 Specifications
- Built in Keyboard, Touch Pad and Monitor
- Heavy Duty Steel Construction
- Anti-Glare Tempered Glass for Added Protection for the LCD Screen
- Built-In Side Railing for Easy Installation
- Built-In Rail Self Locking Device
- 105 Character US Keyboard
- 1024 x 768 Resolution
- Power Supply: 100VAC / 240VAC Auto Switch

With rack space becoming more and more precious, network administrators are always looking for solutions that will save them any additional RUs. The MMK15-RM is a 1RU drawer design with an integrated 15" LCD monitor, keyboard, and mouse. Features include flip-up design, adjustable brackets and built in LCD OSD to provide effective assistance for network administrators controlling single or multiple PCs.

## MMK17-RM
### 17" Rack Mount Monitor

- Meets EIA310c and IEC-3 Specifications
- Built in Keyboard, Touch Pad and Monitor
- Heavy Duty Steel Construction
- Anti-Glare Tempered Glass for Added Protection for the LCD Screen
- Built-In Side Railing for Easy Installation
- Built-In Rail Self Locking Device
- 105 Character US Keyboard
- X x X Resolution
- Power Supply: 100VAC / 240VAC Auto Switch

With rack space becoming more and more precious, network administrators are always looking for solutions that will save them any additional RUs. The MMK17-RM is a 1RU drawer design with an integrated 17" LCD monitor, keyboard, and mouse. Features include flip-up design, adjustable brackets and built in LCD OSD to provide effective assistance for network administrators controlling single or multiple PCs.

*MMK-DB10*

*MMK-DD10*
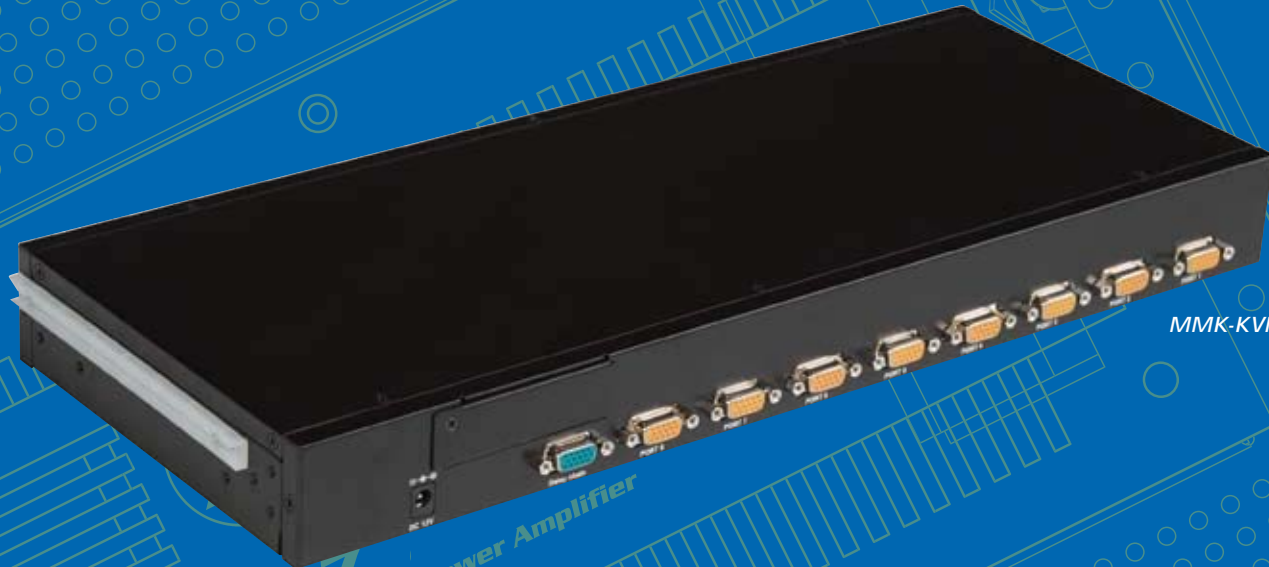
*MMK-KVM8*

## MMK Series Rack Mount Monitor/Keyboard Accessories

Atlas Racks MMK series of accessories are the easiest and most secure way to add system control consoles to your rack mount equipment. The MMK15-RM and MMK17-RM are compact 1RU pull out console rack systems with 15" and 17" (respectively) LCD monitor, mouse, and a full keyboard available in 17 different keyboard language sets. The single rail design is easy to install for one person in any 19" rack. The console comes with key lock for security and protection against unauthorized use.

The MMK15-RM and MMK17-RM consoles connect to attached servers and computers through the MMK-KVM8 8-port modular combo-free KVM switch. It has complete keyboard and mouse emulation for simultaneous PC boot up process and supports MS Windows, Netware, Unix, and Linux systems or iMac, Power Mac and Sun Micro Systems via USB port. No software is required and the KVM switch features On Screen Display (OSD) menu, password security, hot key control, and auto scan control. The

MMK-KVM8 also includes one optional IP-based remote console port for use with MMK-IPM IP interface module to control one or several computers locally at the server site or remotely via the Internet using a standard browser. The MMK-IPM switch redirects local keyboard, mouse and video data to a remote administration console to securely gain BIOS level access to systems for maintenance, support, or failure recovery online. Communication is encryption with SSL for added security.

Connection is made from MMK-KVM8 to servers and computers with MMK-DB10 and MMK-DD10 cables. The MMK-DD10 cable connects to computer via VGA monitor port and PS/2 mouse and keyboard inputs. The MMK-DB10 cable connects via VGA monitor port and single USB connector for both keyboard and mouse data as a standard HID (Human Interface Device) with no extra driver needed. Both cables are 3m in length.

### MMK Series Rack Accessories

MMK-KVM8 – 8-port modular combo-free KVM switch
MMK-IPM – IP interface module switch
MMK-DB10 – 3 meter HDDB-15 to VGA + USB cable
MMK-DD10 – 3 meter HDDB-15 to VGA + (2) PS/2 cable

# ECS-6RM Rack Mount Power Conditioner & Sequencer



The ECS-6RM is a power conditioner and sequencer with six timing sections and remote monitoring. It features contact closures and connections for six independent Atlas Power ECM modules that can be placed up to 1000ft away. These sequenced outputs allow equipment to be powered ON/OFF in a particular order, to eliminate an in rush of current and audible pops that often occur with non-sequenced power strips. Its multiple-tiered power conditioning circuitry also protects against power or voltage surges and eliminates fuzzy video or audible static common unfiltered electronics. The ECS-6RM also features an external switch and DCV sequence trigger activation, as well as an abnormal AC line indicator for voltages between 102V-107V and 128V-132V. An Extreme Voltage Shutdown (EVS) precaution engages during dangerous conditions below 102V or above 132V. The unit features both front and rear XLR connections for LED lamps (one model AP-GNL18 included, additional lamp sold separately) to provide illumination options for dark rack mount applications and equipment ease of use.

## ECS-KSW6



ECS-KSW6

The ECS-KSW6 is a single gang electrical cover plate that works in conjunction with the ECS-6RM system controller. It provides remote activation of the ECS-6RM sequenced equipment remotely, hundreds of feet away from the main equipment rack. The attractive brushed stainless steel wall plate features six bi-color LED red/green indicators for constant status monitoring and activation by momentary key switch for added security.

## ECM-RACEWY6

The ECM-RACEWY6 housing supports up to six ECM-20 or ECM-20M modules. Complete with electrical conduit knockouts and blank plates (2 included) if fewer than six modules are needed, the raceway can be mounted into most racks that have at least 60" internal height. Breakaway mounting tabs make it convenient to secure the raceways in most applications.



ECM-RACEWY6

800.876.3333
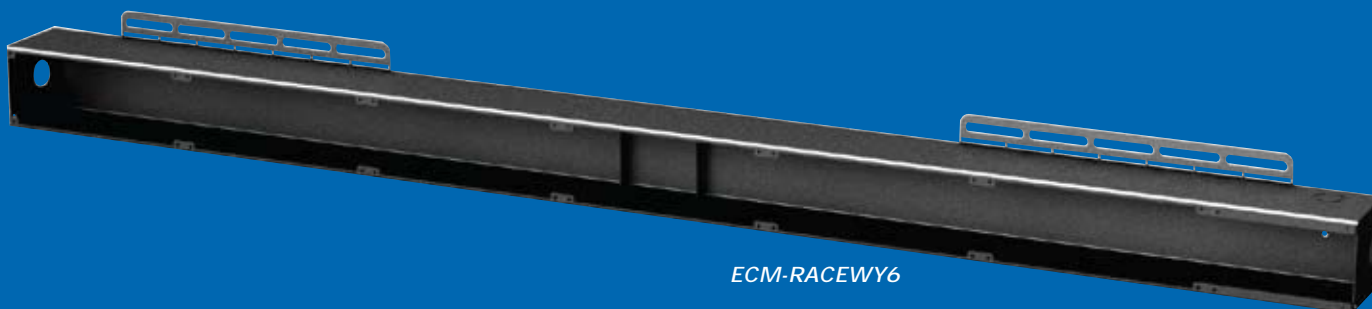
## ECM Series
## Control Modules

Atlas Power currently offers four ECM series control modules designed to provide flexible power conditioning, AC spike suppression, and control as standalone units or in conjunction with Atlas Power ECS sequencers. The ECM-20SH and ECM-15SH are single housing units for 20A and 15A lines respectively while the ECM-20M and ECM-20 are designed for use together in the ECM-RACEWY6 six-module raceway. All four modules feature 2 outlets that support AC spike and surge suppression, AC mains voltage monitoring, EVS circuitry, and remote activation. The ECM-20M, ECM-20SH and ECM-15SH also support current monitoring and EMI/RFI filtering for applications where they are used individually.



*ECM-20*



*ECM-20M*



*ECM-20SH*



*ECM-15SH (Top View)*

Power Conditioner & Sequencer

## AP-C15D

## Rack Mount Power Conditioner

- 10 Total Outlets Are Provided
- 7 Switched Rear Panel Outlets
- 2 Front Panel and 1 Rear Panel Unswitched Convenience Outlets
- RFI Noise Filtering to Reduce Radio Frequency Interference
- EMI To Reduce Electromagnetic Interference
- Dual Clamping Spike & Surge Suppression, DCS Circuitry
- Front Panel Digital AC Mains Voltmeter
- LED Indication of Reversed "Live" and "Neutral" Wiring
- Abnormal AC Line Voltage Indicator for Voltages Between 101V–107V or 128V–132V
- Extreme Voltage Shutdown (EVS) Below 101V or Above 132V AC Line
- Circuit Breaker Protection @ 15A Indicated by "Breaker Open" Indicator
- Front Mounted Pull-out LED Light With 2-Position Dimmer
- Rear Mounted XLR Connector for 12VDC LED Lamp (Optional AP-GNL18)

The AP-C15D offers intelligent power management control, along with noise filtering and spike/surge protection making it the most compact, effective power management protection system on the market today. The 15A compact 1RU unit includes AC Mains Voltage monitoring from the precision Digital Volt Meter in addition to AC spike suppression and filtered power conditioning. Abnormal Voltage indicators inform of potential voltage problems between 128-132VAC and 101- 107VAC. An Extreme Voltage Shutdown (EVS) protection circuit will automatically activate and turn all outlets off until manually reset if potentially damaging voltages above 132VAC or below 101VAC are present

The AP-C15D features noise filtering for unwanted Radio Frequency Interference (RFI) that is commonly introduced into the AC lines by nearby radio transmitters or wireless products. EMI filters are incorporated to reduce noise from Electromagnetic Interference (EMI) from such items as electric motors, and switching power supplies. The benefit of these filters can be seen on video products or audibly by reducing static pops and external signal interference.

To light your rack, the AP-C15D also incorporates a front panel pull-out dimmable LED tube light. The rear of the rack can be illuminated by the optional 18" gooseneck LED lamp connected via an XLR style socket. (AP-GNL18)

800.876.3333

## Rack Mount Power Distribution Unit

### AP-S15

- 9 Total Outlets
- 6 Rear Panel Switched Outlets and 2 Rear Panel Unswitched Outlets
- 1 Front Panel Unswitched Convenience Outlet
- RFI Noise Filtering to Reduce Radio Frequency Interference
- EMI To Reduce Electromagnetic Interference
- Circuit Breaker Protection @ 15A
- Spike Suppression up to 6000V

The Atlas Power AP-S15 Power Conditioner offers a simplified solution for delivering clean power and protecting equipment from dangerous voltage in rush. The AP-S15 offers power control, noise filtering, and spike / surge protection in a compact, effective power management protection system.

The AP-S15 features both EMI and RFI noise filtering for unwanted Electromagnetic and Radio Frequency Interference which will produce better performance from the components by reducing effects including fuzzy video output and static pops from audio equipment.

Unstable AC Mains voltage is one of the main reasons for equipment failure. Atlas Power AP-S15 protects against AC Spikes, or Transients, are commonly caused by utility power plant grid switchovers. A circuit breaker will trip if current draw exceeds the 15A limit and the AP-S15 compact 1RU design saves space when rack mounted.

### AP-S15L

- 9 Total Outlets
- 8 Rear Panel Switched Outlets
- 1 Front Panel Unswitched Convenience Outlet
- RFI Noise Filtering to Reduce Radio Frequency Interference
- EMI To Reduce Electromagnetic Interference
- Circuit Breaker Protection @ 15A
- Front Mounted Pull-out LED Light With 2-Position Dimmer
- Rear Mounted XLR Connector for 12VDC LED Lamp
- Spike Suppression up to 6000V
- AC Fault Indicator

The Atlas Power AP-S15L is designed to meet most installation requirements for AC power distribution and equipment power protection.

The AP-S15L features noise filtering for unwanted Radio Frequency Interference (RFI) that is commonly introduced into the AC lines by nearby radio transmitters or wireless products. EMI filters are incorporated to reduce noise from Electromagnetic Interference (EMI) from such items as electric motors, and switching power supplies. The benefit of these filters can be seen on video products or audibly by reducing static pops and external signal interference.

To light your rack, the AP-S15L has incorporated a front panel pull-out dimmable LED tube light. The rear of the rack can be illuminated by the optional 18" gooseneck LED lamp connected via an XLR style socket.

**Cone Loudspeakers, Systems, & Subwoofers**

## ECS-3 Rack Mount Sequenced Power Conditioner

- 3 Sequencer Timing Sections
- LED Indication of Reversed "Live" and "Neutral" Wiring
- Low / High AC Line Voltage Indicator @ 105V or 128V
- Extreme Voltage Shutdown "EVS" @ 100V or 135V AC Line
- Circuit Breaker Protection @ 15A Indicated by "Breaker Open" LED
- Front Mounted Pull Out LED Lights with 2 Position Dimmer
- Rear Mounted Switched Connection for XLR LED Lamp (AP-GNL18 sold separately)
- External Switch Sequence Trigger Activation
- External DCV Sequence Trigger Activation 5VDC –24VDC
- Sequence Trigger Output for External 20A Outlet

The ECS-3 provides RFI / EMI noise filtering to reduce radio frequency and electromagnetic interference along with comprehensive spike & surge protection.

Nine total outlets are provided. Seven rear panel outlets are sequenced in three steps from the front panel or remote trigger sources along with a front panel convenience outlet. Unit includes a digital voltmeter display incoming line voltage and a retractable LED light fixture with dimmer control for rack illumination.

## AP-GNL18

To light your rack, the AP-GNL18 is an 16" gooseneck LED lamp with XLR connection for use with ECS-6RM, ECS-3, and other models. LED lamps are far superior in longevity along with heat reduction when compared to traditional incandescent lamps and the XLR base mounts are also superior to the commonly used BNC type base.

*AP-GNL18*

## SlimLine AC Power Panels

**ACRL-191B**

Equipped with a lighted, front panel rocker switch. It includes a re-settable 15-amp circuit breaker on the front panel with six switched and two unswitched outlets located on the back chassis and one unswitched outlet on the front of the unit. It includes a 6′ factory installed power cord that may be removed via a rear access panel allowing the unit to be hard wired for permanent installations.

**ACRL-291**

Includes eight switched rear panel outlets plus one front panel unswitched outlet. A pull-out light bar is included on both the front and rear panels of the unit to provide illumination to both the front and rear of the rack. A 15 amp re-settable circuit breaker is located on the front panel for easy access. A 6′ power cord is factory installed however a removable access panel and instructions are provided in the event the unit is to be hard-wired with conduit for permanent installations.

*SACR-191*



*SACS-1*



*SACS-1F*

## Sequential Switch System

### SACR / SACS Series

Prevents high, "in-rush" currents which can damage drivers and sensitive electronic equipment. The Sequential Switch System applies power to system components in desired time-delay sequence to minimize the potential for tripped circuit breakers, blown fuses and voltage spikes. Ideal for large sound reinforcement systems, electrical and electronic systems/controls and any signal chain that requires sequential power up and power down. System is comprised of a six-circuit sequencer controller with remote start switch (use momentary switch only) terminals, external power supply (included) and choice of outlet strips with six or one circuit in regular and isolated ground versions (order separately). Models SACR-191 and SACS-5(F) are finished in black epoxy. Model SACS-1(F) is finished in neutral gray.

## AC Outlet Strips

### ACS-1 / ACS-1A / ACS-2A

Outlet strip includes six grounded duplex outlets for installation in equipment cabinets with vertical panel space greater than 21RU (36¾"). May be used in conjunction with Atlas Sound fan assemblies and power panels to provide a complete cooling and AC power distribution system. Includes hardware. Finished in black epoxy. Dimensions are 36¾" length x 2⅝" width x 1⅝" height.

### RAC-5(B) / RAC-9(B)

Slimline outlet strips provide convenient electrical access without utilizing valuable cabinet space. Compact housing installs between cabinet side panel and mounting rails to the horizontal frame. Housings are finished in black epoxy. Dimensions for the RAC-5 models are 16⅛" length x 1½" width x 2" height. RAC-9 models measure 24¼" length x 1½" width x 2" height.
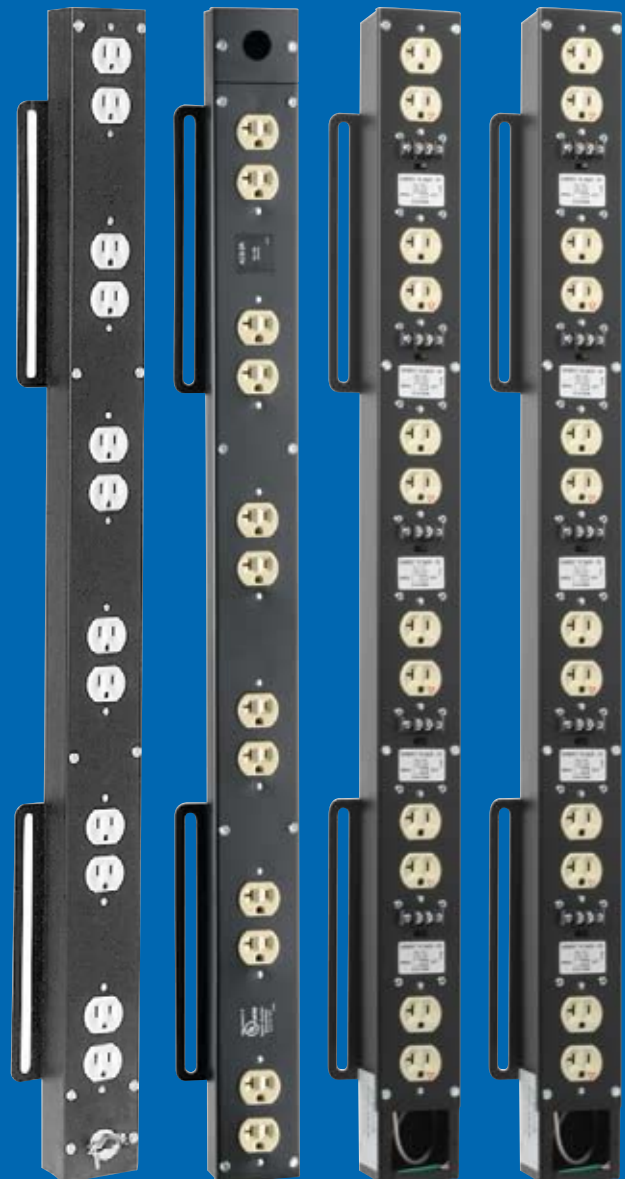


| ACS-1 | ACS-2A | SACS-5 | SACS-5F |
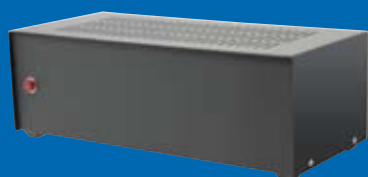
PS24-50A

PS24-2R

PS24-075
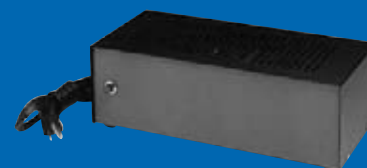
PS24-20

# Power Supply Units

## Regulated DC Power Supply with 1/2 Amp Output

RPS24-05. Compact 24VDC model is offered for use where small, economical power supplies are required. RPS24-05 is recommended for telecommunication installations including small telephone systems and intercom / annunciator applications in industrial, institutional, service and educational facilities. Unit is fuse-protected in the primary, includes barrier strip terminals and has a 6' AC power cord. Finished in black epoxy.

## Regulated DC Power Supplies with 2 & 4 Amp Output

PS24-2R / PS24-4R. Assemblies with varying amp service are provided for applications that require excellent regulation and extremely low ripple including transistorized and solid-state control equipment and alarm / warning systems. Models are fuse-protected in the primary, include barrier strip terminals and have a 6' power cord. Finished in black epoxy; larger models include a ventilated cover finished in textured black epoxy.

## Heavy-Duty DC Power Supply with 5 Amp Output

PS24-50A. Model offers 24VDC for applications that require a high-current DC supply including many types of telephone, annunciator and industrial paging systems, and installations with large numbers of relays. Unit is fused at the input and includes barrier-type terminals, keyhole mounting slots, ventilated cover and 6' AC line cord. Finished in black epoxy.

## General Purpose DC Power Supplies (2 Amp Output)

PS24-20. Compact, multi-voltage unit is designed for a variety of general applications. Voltage selection is accomplished through a plug-in lead. Assembly is complete with fused-transformer primary, 6' power cord, and black epoxy finish.

TS242. UL Listed unit is used for a variety of applications that do not require a regulated supply. Model includes a 117VAC unswitched outlet, neon pilot lamp, barrier-type terminals, and 6' power cord.

## Power Pack

PS24-075. Compact supply is designed to power the RPM/RLM Series DC relays and may also be used in a variety of annunciator applications. Includes positive, negative, and ground terminals with the negative terminal isolated from the ground. Complete with 6' power cord and black epoxy finish.

## Telephone Power Supply

TPS24-05. Unit is a combination 24VDC / TALK voltage power supply engineered to power most common-talk telephone intercom systems. Finished in black epoxy and complete with 6' power cord.

## Rack-Mount Power Supply Shelf

PS-RK. Accessory shelf provides convenient installation of Atlas Sound power supplies in 19" cabinets. Shelf supports up to four 6¾" L supplies or one 13¼" L unit. CRS assembly is finished in black textured epoxy and includes knockouts for line cords, front viewing hole for power indicator, and viewing hole plug. Size: 19" W x 8" D x 5¼" H (483mm x 203mm x 133mm).

Power Supply Units
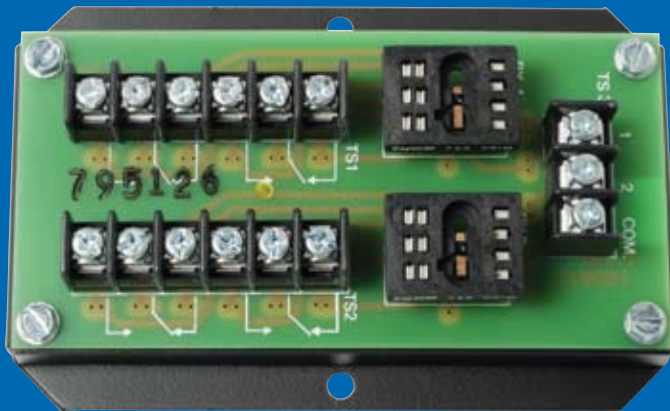
*RPM-2*


*RLM-24*
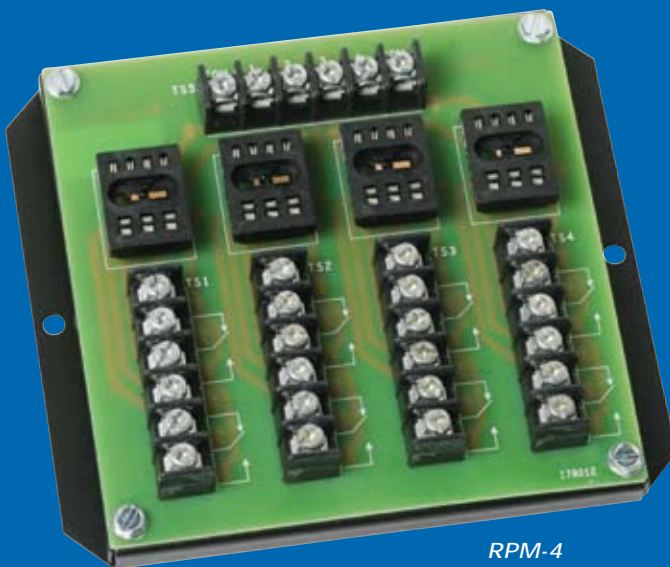

*RPM-4*


*PSR-206*


*PSR-212*

*Relay Packs*

## DC Relay Packs

### RPM/RLM Series

Modular chassis with individual plug-in relays provide configuration and expansion flexibility for application wherever a 24VDC, DPDT relay is required including zone paging, intercom, and telephone systems. Chassis is available in two sizes with 2 and 4 relay sockets. Plug-in DPDT relays prevent long-term oxidation problems and are offered in 3 and 5 amp versions (order separately). To eliminate bussing, one side of each relay coil is connected to a common terminal. Chassis is painted with black epoxy and includes a printed circuit board with barrier type terminals.

## Zone Page Powered Relay Packs

### PSR Series

DPDT relay with internal 24VDC power supply is available with six or twelve factory-wired relays. To facilitate the addition of external relays or lights, the power supply output is also connected at the terminal strip. Relays may be easily converted to an all page function by connecting the off bus to the selected relay switch output. Models include silk screened terminal diagram and 6' power cord. Black epoxy finish. Separate amplifiers needed for both paging and background music.

Microphone Stands

*"I totally abuse my mic stand during every performance.*

*Atlas mic stands hold up night after night and never fall short"*
–Dane Adrian, of squint
www.squint.com

 Atlas Sound mic stands have been the preferred choice for over 70 years and have been used by professional musicians from legendary performers including the Beatles and Elvis to today's hottest bands like Gym Class Heros, Fall Out Boy, and The Academy Is…

PA systems, school auditoriums, convention and events centers, and meeting rooms are also common places to experience the most trusted microphone stands and accessories available because they are synonymous with durability and quality. The world recognized product line includes cast-base and tripod style floor stands, desk, and studio boom stands; boom attachments; loudspeaker/equipment stands; and over 40 adapters and fittings. The unique selection offers the professional musician, performer, educator, and lecturer great flexibility in choosing models that satisfy unique application, performance, and budget requirements. Classic styling in mirrored chrome or non-reflective ebony epoxy (perfect for video application) combine with the famous Atlas Sound wear-proof clutches to provide attractive, durable, and reliable service for all types of communication and entertainment applications.

Microphone Stands

Tube Extension 35" – 63"
Base: 9lb, 10" Cast Iron

*MS-10C*

Tube Extension 35" – 63"
Base: 9lb, 10" Round Cast Iron

*MS-10CE*

Tube Extension 35" – 63"
Base: 9lb, 12" Round Cast Iron

*MS-12C*

Tube Extension 35" – 63"
Base: 8lb, 12" Round Cast Iron

*MS-43E*

## *All-Purpose Floor Stands*

MS-10C / MS-10CE. cost-efficient assemblies are the most frequently purchased stand throughout the world for dependable performance in music, entertainment, business, education, and social functions. MS-10C includes chrome finished tube and circular cast iron base. MS-10CE is supplied with ebony finished tube and circular cast iron base.

## *Professional Full-Height Stands*

MS-12C / MS-12CE. All-purpose stands feature wearproof clutch for quick height adjustment and a high-stability, low profile cast base. MS-12C consists of chromed tube and ebony base. MS-12CE features ebony finished tube and base.

## *Fully Adjustable Three-Section Stands*

MS43E. Versatile stand adjusts from 25" to 65" to meet the needs of seated and standing instrumentalists and performers. Model includes three-section ebony tube assembly with two wearproof clutches for optimum vertical height adjustment and high stability. All models feature a low-profile cast iron base finished in ebony. The MS43E base is 12" in diameter and weighs 8 lbs.

**Microphone Stands**



Step 1



Step 2



Step 3
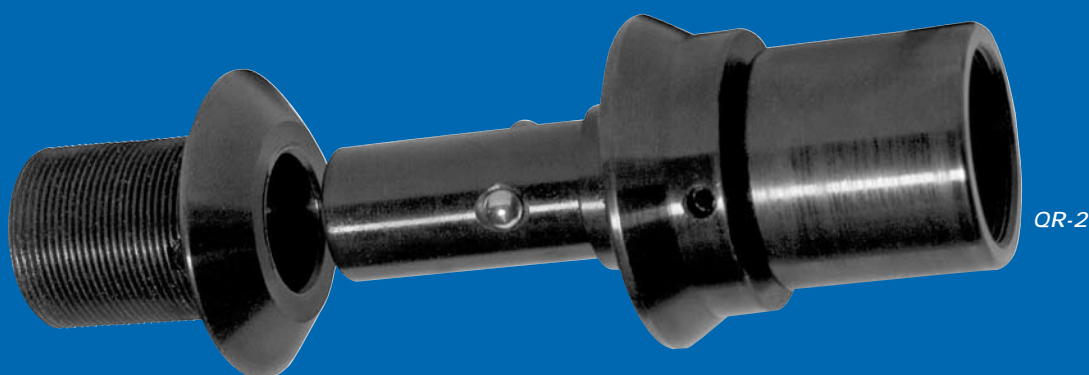


QR-2

## QR2 – Quick Release Tube Adapter

The two piece design uses a unique ball bearing interconnect designed to save set-up and tear down time in touring applications. For installation the QR-2 assembly is threaded between the $7/8$" tube and base of the mic stand (MS10C, MS10CE, MS12C, and MS12CE). After the show, the technician simply steps on the low profile outer release ring of QR-2 allowing the entire upper tube assembly to be separated from the base saving the time consuming operation of unscrewing the base / tube for storage.

The QR-2 is constructed of durable machined steel and finished in black chromate to blend in perfectly with the mic stand base top surface for an unobtrusive onstage look.

A microphone stand spends the majority of its time in the spotlight but still the importance of its quality and easy to use is argueable the most overlooked equipment need. for importances. While they play no direct role in the way a system might sound they can drastically alter a performance. A mic stand that falls from its necessary height, or an impossible to position drum mic, or a stand that can't handle the abuse a rock and roller can throw at them are unacceptable. Atlas stands are fully tested and are regularly relied upon to deliver the duriability only Atlas can.

## Atlas Advantage

- Steel tubing is finished in a choice of mirrored chrome or non-reflective ebony
- Anti-vibration cap absorbs incidental vibrations and sounds
- Lock-nut ring securely positions tubing to base
- Atlas Sound stands are threaded $\frac{5}{8}$"-27 and include a lock-nut ring for versatile positioning of accessories
- Famous Atlas Sound clutch won't slip under pressure
- Bases are high-stability cast metal equipped with shock absorbing rubber pads

**Atlas Sound floor stands are made to last! Quality design and over 75 years worth of performances — on stage and off — offer proven reliability you can depend on. The fact is they're simply built better.**

Tube Extension 37" – 66"
Base: 14½lb, 12" Round Cast Iron

MS20

Tube Extension 37" – 66"
Base: 18lb, 15" Triangular Cast Iron

MS25

Microphone Stands

## Extra-Stability Stands with Oversized Base

MS20 / MS20E.  Heavy-duty stands for studio, recording, church, and school application include an extra-height 1⅛" diameter tube assembly with wearproof clutch, top adapter, air suspension system, and low contour high-stability cast iron base. MS20 features chromed finish tube and ebony base. MS20E includes ebony finished tube and base.
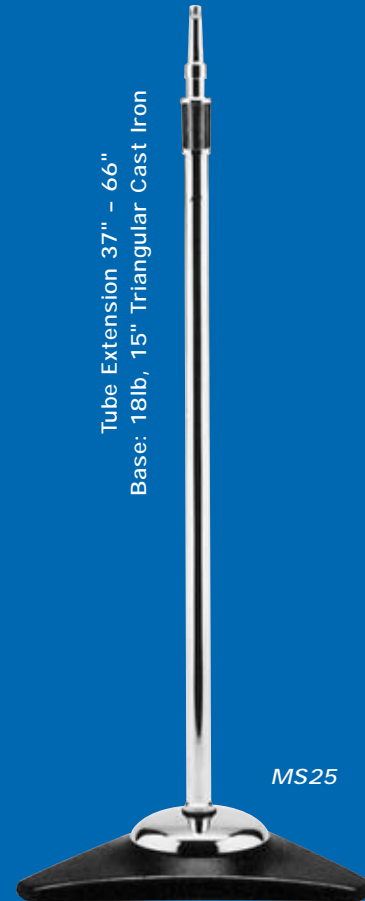
## Studio Stands with Air Suspension System

MS25 / MS25E.  Heavy-duty studio recording stand features 1⅛" diameter chromed tube assembly with integral air suspension system to protect sensitive microphones. Triangular cast base includes sculptured sides, ebony finish and decorative chrome cover.

## Performer Series Boom Attachments

Performer Series booms are manufactured to the highest quality standards and combine exceptional styling with a unique, all-metal swivel clamp (US patent # 354,491) for greater user flexibility. Clamp features Glide'n Position tubing with nylon brake bushings for smooth horizontal adjustment. Resilient washers are made from compressed virgin wool fiber (in lieu of rubber) to offer quiet and secure positioning even after years of use. Extra-strength, steel T-bar knob assures no-fail locking with simple one-hand adjustment in the vertical plane. All versions include counterweights for increased balance and stability. All clamps are finished in non-reflective ebony epoxy. Tubing is manufactured of CRS and terminates in the standard ⅝" - 27 thread pattern.

### Mini Adjustable Boom

PB11XCH / PB11XEB.  Compact booms extend from 16¼" to 24½" with a single motion—perfect for drum/piano/guitar amp and short distance miking. Units include a threaded end cap and a fixed ¾lb counterweight for stability. Finish is chrome (CH) or ebony epoxy (EB) where noted.

### Fixed-Length Booms

PB15CH / PB15EB.  All-purpose, high-quality booms are 34" long and include fixed ¾lb counterweights for stability. Select from chrome (CH) or ebony epoxy (EB) finish as noted.

### Extendable-Length Booms

PB21XCH / PB21XEB.  Booms extend from 25¼" to 38½" with a single motion and are suitable for a wide variety of miking applications. Units contain a fixed ¾lb counterweight and threaded end cap. Finish is chrome (CH) or ebony epoxy (EB) as noted.

## General Purpose Boom

BE-E. This versatile, low-cost boom features adjustable-length positioning for extended mic range applications. The two-piece boom extends 24" - 39" and includes a molded plastic handle, metal swivel clamp with protective rubber insert, and an easy-grip knob for vertical alignment. Adjustment for the main and extension boom includes a thumbscrew /brake system to provide secure positioning and prevent tube marring. Tube assemblies are manufactured of CRS and terminate in standard ⅝" - 27 thread pattern. Satin ebony (E) finish. 2 lbs.
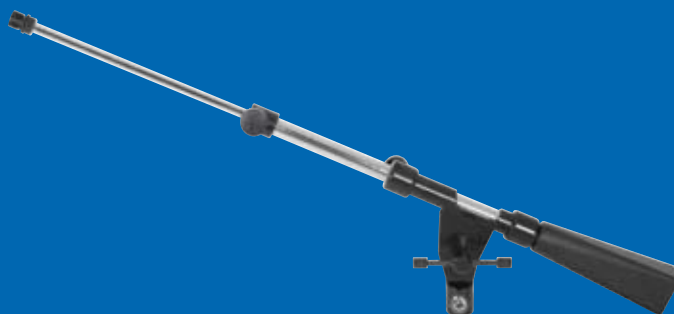
*PB11XCH*
*Tube Extension 16¼" – 24½"*

*PB15CH*
*Tube Length 34"*
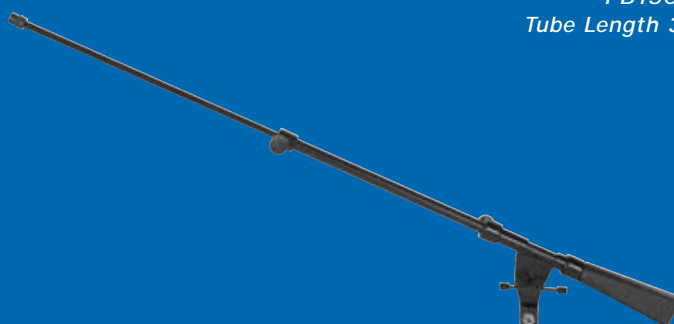
*PB21XEB*
*Tube Extension 25¼" – 38½"*

*BE-E*
*Tube Extension 24" – 39"*

Microphone Stands

Tube Extension 43" – 68"
Base: Xlb, xx" Stackable Cast Iron

SB11WE

Tube Extension 49" – 73"
Base: Xlb, xx" Stackable Cast Iron

SB36W

## *Studio Boom Stands*

### *Economical Studio Boom*

### *Professional Studio Boom with Air Suspension*

**SB11WE**

Economical studio boom is especially suited for small studio/broadcast applications and for stage miking of drums and percussion instruments. Unit features a 60" L, two-piece horizontal boom assembly. Boom includes a Performer Series swivel clamp and an adjustable 2 lbs counterweight for effortless boom arm orientation. Tubing incorporates a 90° angled end for optimum microphone positioning and terminates in the standard ⅝" - 27 thread pattern. Stand features an Atlas Sound wearproof clutch for positive locking control. Triangular die-cast base offers extra stability and is equipped with hard rubber swivel casters for effortless and silent mobility. Finish is non-reflective ebony epoxy.

**SB36W / SB36WE**

Heavy-duty stand for stage and studio applications include integral piston-type air suspension system for effortless height adjustment and microphone protection. Model is equipped with a two-piece horizontal chromed-tube assembly, adjustable 6 lbs boom counterweight, heavy-duty gyromatic swivel, Atlas Sound wearproof clutch and triangular cast iron base. SB Series include silent-motion, ball-bearing swivel casters of hard rubber for friction-free and vibration-absorbing mobility. Tubing terminates in the standard ⅝" - 27 thread pattern, and includes guide clips for microphone cable attachment. Tubing is finished in choice of chrome or ebony. Base is ebony epoxy with a chrome cover.

4"

*DS2*

5"

*DS5*

Tube Extension 8" – 13"

*DS7E*

3"

*DS14*

## Vibration Isolating Stand

**DS2.** Low-silhouette stand features an integral tension mount to reduce conductivity of external mechanical vibrations. High-stability metal base with protective pads includes notched area for convenient placement of cards or pens. Fixed-height tubing is chrome finished. Base is ebony.

## General Purpose Stands

**DS5 / DS5E.** Fixed-height stands include traditional, circular cast iron base and choice of tubing finish: chrome or ebony (E) as noted. Stands are suitable for application with any standard microphone.

## Adjustable Stands

**DS7 / DS7E.** Versatile stands have a vertical height adjustment from 8" to 13" and include wearproof clutch and ebony finish cast iron base. DS7 features chromed tubing; DS7E has ebony tubing.

## Contemporary Stand

**DS14.** Stand includes die-cast wishbone shaped base with ebony finish and fixed-height chrome tubing.

## Stacking Stand

SMS5B

The most trusted name in microphone stands, Atlas Sound, is adding to its Atlas Support product line with new stacking mic stands. The SMS5B saves stage and storage space with its ability to stack as many as six units in a single 10" footprint. Now a single layer of microphone stands doesn't need to take up a separate storage room, and space on stage is freed up because of the compact base design.

Atlas Support stacking stands feature a wide mouth opening and floating pole design that through slight rotation can be easily stacked. The SMS5B comes in an anti reflective black finish and can be adjusted for 33" to 60.5" heights. It is the newest product in the full line of Atlas Support microphone and equipment stands by Atlas Sound, who over the past 70 years has been the one number name in microphone stands worldwide because of their performance and durability on stage and in studios worldwide.

Tube Extension 33" – 60½"
Base: 4lb, 10" Stackable Cast Iron

*SMS5B*
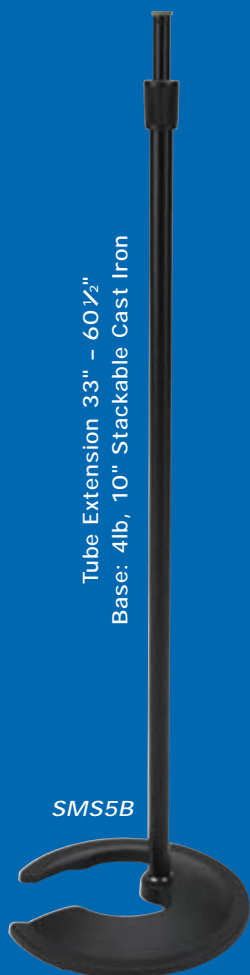
## MICCLIP

Industry standard microphone clip is made from rugged molded plastic; available in black the MICCLIP can accommodate microphones with a tapered diameter of 1" - 1½".

## Economical Two-Piece Tripod & Tripod/Boom Stands

Atlas Sound's next generation of Musician Series tripods are lightweight, styled stands that offer the fit and feel of tripods costing considerably more.

### TE-E

This is an all-purpose tripod. The full height stand extends from 37" to 65" and includes an all-new three-piece clutch design with a highly durable metal clutch barrel. Tripod legs attach to a metal retainer assembly that includes a thumbscrew / brake system to provide secure positioning and prevent tube marring. Tube assemblies are durable CRS construction terminated in the industry standard ⅝" - 27 thread pattern. Satin ebony (E) finish. 5½lbs

### TEB-E

Tripod/boom combination features the BE-E removable, telescopic boom to provide microphone extension from 24" to 39". It includes a molded plastic handle, metal swivel clamp with protective rubber inserts and an easy-grip knob for vertical alignment. Adjustment for the main and extension boom include a thumbscrew/brake system to provide secure positioning and prevent tube marring. Tube assemblies are manufactured of CRS and terminate in the standard ⅝" - 27 thread pattern. Satin ebony (E) finish. 7½lbs

## Instrument Miking Stands

### DMS Series

Low-profile stands with high-stability cast base are ideal for professional drum miking applications. All feature adjustable-height tubing and the famous Atlas Sound clutch for precise orientation and a 10" diameter cast iron base for dependable positioning and isolation from drum vibrations. The DMS7(E) (C) combines a floor-stand base with desk-stand height—ideal for kick-drum miking. The DMS10(E)(C) is the taller version, ideal for miking toms and larger guitar amps. All include a threaded ⅝" tip assembly for compatibility with microphone clamps, goosenecks, and booms. (Mini-adjustable boom Models PB11X(E) are great companions.) Units are finished in ebony epoxy (E) where noted.

*Tube Extension 37" – 65"*
*Base: Tripod*

*Tube Extension 24" – 39"*
*Base: Tripod*

*Microphone Stands*

*TEB-E*

*DMS7E*

*DMS10E*

*TE-E*

*Tube Extension 8" – 13"*
*Base: 6lbs, 10" Round Cast Iron*

*Tube Extension 14½" – 26¼"*
*Base: 6lb, 10" Round Cast Iron*

## Lightweight Adjustable Stands

SS500E. Designed for easy transportability, set-up and tear down, the new heavy-duty SS500E aluminum speaker stand weighs a mere 7 lbs and supports up to 150 lbs! Additionally, the stand folds to a minimal 53" making it a great portable stand for use in churches, schools, and theaters. Height adjusts from 54" to 85" for versatile positioning and support of sound, monitor, and control equipment. The SS500E is equipped with a positive clamping system complete with a safety support pin to assure safe, slip-free support of elevated equipment. Vertical tube assembly contains 1½" and 1⅜" tubing. Clutch mechanism includes a protective insert for scratch-free height adjustment. Legs are double braced and include heavy-duty rubber feet for extra stability.

*Speaker Not Included*

## Top Adapters for Steel & Lightweight Stands

SSA7 Adapter for stand Model SS500E. It features a platform base with two ⅜" x 2" equipment mounting slots and 4 holes to meet a variety of support applications.

*SSA7*

*SS500E*

# Mic Stand Accessories

## Gooseneck Flexible Extensions

### GN-6(E) / GN-13(E) / GN-19(E)

Flexible goosenecks in 6", 13", and 19" lengths attach to any mic stand or adapter with ⅝" - 27 male and female threads. Inside diameter is .338". Chrome or ebony (E) finish.

## Clip-Mounting Microphone Accessories

### LO-2B(E)

Lock-on accessory, respectively, allow fast connection and disconnection of plastic mic clamp holders and boom attachments with ⅝" - 27 threads for safe transportation. Available in chrome or ebony (E) where noted.

### TM-1(E)

Versatile mic mount for live sound and stereo recording. Mounts two or three mics onto any stand. Unit is 8¾" wide and fits mic clamps with ⅝" receptacles. Available in chrome or ebony (E).

## Multi-Purpose Clamps

### CO-1B

Connect-on swivel adapter/clamp provides for the addition of a second mic with standard ⅝" - 27 threads to any floor or desk stand with ⅝" or ⅞" diameter tubing. Ebony finish.

### MAC-1

Multi-use adapter/clamp holds mics, booms, or accessories having ⅝" - 27 threads in vertical or horizontal orientation. Versatile unit also clamp mounts to ⅝", ⅞", and 1⅛" diameter tubing or to freestanding instruments, keyboards and drums. Made of high-strength extruded aluminum. Ebony finish. Weight: 1½lbs

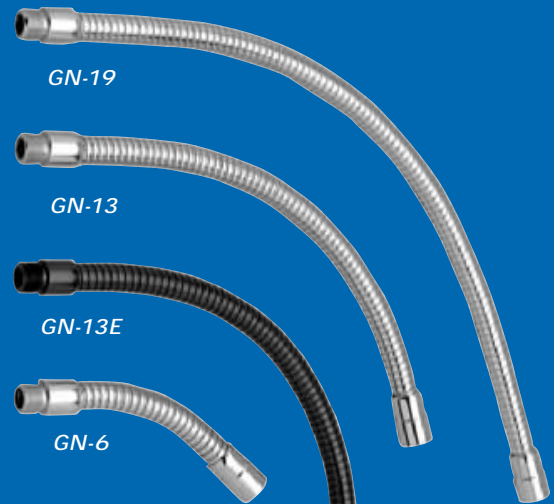## Cable / Tambourine Hangers & Cable Feed-Thru Adapter

### CH-1B(E)

Versatile accessory can be used to hang cabling or a tambourine. Single screw-mounting assembly fits all tube assembly sizes. Available in chrome or ebony (E).

### AD-15B

Chrome 4" cable feed-thru adapter with standard ⅝" male and female threads.

GN-19

GN-13

GN-13E

GN-6

LO-2B

TM-1

CO-1B

MAC-1

CH-1B

AD-15B

Microphone Stand Accessories
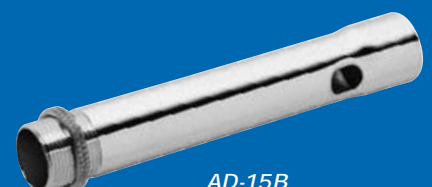
## Couplings Used With Tube Extensions & Accessories

AD-4B  ¾" long, ⅝" -27 male running thread; brass, no plating

AD-5B  ⅝" -27 female to ⅝" -27 female coupling; chrome plated

AD-6B  ⅞" female to ⅞" -27 female coupling; chrome plated

## Surface-Mounting Fixtures

AD-11B(E)  ⅝" long, ⅝" -27 female flange with 1¾" base diameter; chrome or ebony (E)

AD-12B(E)  ⅝" long, ⅝" -27 male flange with 1¾ base diameter; chrome or ebony (E)

AD-5B  ⅝" -27 male flange with base holes on 1¼" centers; chrome or ebony (E)

*Also available in 100 piece bulk pack. Specify AD-11(Chrome) or AD-1E(Ebony).*

## Tube Extensions Used With Coupling Adapters

AD-7B  3" (76mm) long tube with ⅝" - 27 male at each end; chrome plated

AD-8B  6" (152mm) long tube with ⅝" - 27 male at each end; chrome plated

AD14B(E)  Right angle tube with ⅝" - 27 male and female end; chrome plated; 4" (102mm) Height x 4" (102mm) Extension

AD19B(E)  45° angle tube with ⅝" - 27 male and female end; chrome plated; 6" (152mm) Height x 3" (76mm) Extension

## General Mic Stand Service Parts

MSC-K  Replacement Clutch Kit for ⅞" MS & DS Series – Chrome

MSCE-K  Replacement Clutch Kit for ⅞" MS & DS Series – Ebony

MSC  Complete Replacement Tube for MS-10C / MS-12C – Chrome

MSCE  Complete Replacement Tube for MS-10CE / MS-12CE – Ebony

MS2025T  Replacement Tube For MS20 / MS25 – Chrome

MS2025TE  Complete Replacement Tube for MS20E / MS25E — Ebony

MS-20 B  Replacement base for MS20

MS20-K  Replacement Clutch Kit for MS20 / MS25 Series – Chrome

MS20E-K  Replacement Clutch Kit for MS20E / MS25E Series – Ebony

MS2XTA  Replacement ⅞" - ⅝" Top Adapter for MS20 / MS25 – Chrome

MS2XTAE  Replacement ⅞" - ⅝" Top Adapter for MS20E / MS25E – Ebony

PBB-K  Replacement Boom Swivel Assembly for SB36 – Ebony

SB36CSTR  Replacement Caster Kit for SB36W (E) – Post 2004

SB36WGHT  Replacement Counterweight for SB36W(E)

PB25WGHT  Replacement Counterweight for PB11, PB15, PB21, & SB11WE

XX4707700  Replacement Mic Swivel for SB36W (E)

LR58E-25  Replacement ⅝" Lock Rings – Ebony –25 Piece Bag

LR58C-25  Replacement ⅝" Lock Rings – Chrome –25 Piece Bag

MS1012RF-24  Replacement Feet MS10 / MS12 – Pre 2003 – 24 Piece Bag

MS12BASE  Replacement Base for MS12

XX8625000  Replacement ⅝" Phenolic Clutch Rings

AD-6B

AD-4B

AD-5B

AD-11

AD-19B

XX4707700

AD-7B

MS1012RF

MS20-K

AD-8B

| Model | UL Listing | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Optional "New Construction" Ring | Diameter | Depth | Cut Out Diameter |
|---|---|---|---|---|---|---|---|---|---|
| FAP42T | 1480 | 70.7V: 1, 2, 4, 8, & 16 watts / 8 Bypass | 25 watts | 88dB | 75Hz – 20kHz (±5dB) | FAP42-TR | 10½" (267 mm) | 8⅞" (225 mm) | 9" (229mm) |
| FAP42T-B | 1480 | 70.7V: 1, 2, 4, 8, & 16 watts / 8 Bypass | 25 watts | 88dB | 75Hz – 20kHz (±5dB) | FAP42-TR | 10½" (267 mm) | 8⅞" (225 mm) | 9" (229mm) |
| FAP42T-UL2043 | 1480 / 2043 | 70.7V: 1, 2, 4, 8, & 16 watts / 8 Bypass | 25 watts | 88dB | 75Hz – 20kHz (±5dB) | FAP42-TR | 10½" (267 mm) | 8⅞" (225 mm) | 9" (229mm) |
| FAP62T | 1480 | 70.7V: 2, 4, 8, 16, & 32 watts 8 Bypass | 50 watts | 88dB | 63Hz – 20kHz (±5dB) | FAP62-TR | 12½" (318mm) | 8½" (215mm) | 11" (279mm) |
| FAP62T-2043 | 1480 / 2043 | 70.7V: 2, 4, 8, 16, & 32 watts 8 Bypass | 50 watts | 88dB | 63Hz – 20kHz (±5dB) | FAP62-TR | 12½" (318mm) | 8½" (215mm) | 11" (279mm) |

| Model | UL Listing | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Woofer Size | Woofer Material | Matches Enclosure | |
|---|---|---|---|---|---|---|---|---|---|
| FA42T-6MB | 1480 | 70.7V: 1, 2, 4, 8, & 16 watts | 25 watts | 88dB | 75Hz – 20kHz (±5dB) (in FA97-6 Enc.) | 4" | Poly Cone ButylRubber Surround | FA95-6, FA97-6 | |
| FA62T-8MB | 1480 | 70.7V: 2, 4, 8, 16, & 32 watts | 50 watts | 88dB | 63Hz – 20kHz (±5dB) (in FA97-6 Enc.) | 6" | Poly Cone ButylRubber Surround | FA95-8, FA97-8 | |

| Model | UL Listing | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Optional "New Construction" Ring | Diameter | Depth | Cut Out Diameter |
|---|---|---|---|---|---|---|---|---|---|
| FAP42TC | 1480 | 70.7V: 1, 2, 4, 8, & 16 watts / 8 Bypass | 25 watts | 88dB | 75Hz – 20kHz (±7dB) | FAP42-TR | Diameter: 10½" (267mm) | 4¼" (108mm) | 9" (229mm) |
| FAP42TC-UL2043 | 1480 | 70.7V: 1, 2, 4, 8, & 16 watts / 8 Bypass | 25 watts | 88dB | 75Hz – 20kHz (±7dB) | FAP42-TR | 10½" (267mm) | 4¼" (108mm) | 9" (229mm) |
| FAP40T | 1480 | 70.7V: 1, 2, 4, 8, & 16 watts / 8 Bypass | 16 watts | 87dB | 80Hz – 15kHz (±5dB) | FA-TR4 | 7⅜" (187mm) | 7⅛" (181mm) | |
| FAP82T | 1480 | 70.7V: 1.9, 3.8, 7.5, 15, 30, & 60 watts / 8 Bypass | 70 watts | 90dB | 55Hz – 20kHz (±5dB) | FAP82-TR | 15¾" (400mm) | 12¾" (324mm) | 14" (356mm) |
| FAP8CXT | | 70.7V: 1.9, 3.8, 7.5, 15, 30, & 60 watts / 8 Bypass | 150 watts | 92dB | 60Hz – 15kHz (±5dB) | FAP82-TR | 15.75" (400mm) | 12.75" (324mm) | 14" (356mm) |
| FAPSUB | 1480 | 70.7V: 1.9, 3.8, 7.5, 15, 30, & 60 watts / 8 Bypass | 100 watts | 89dB | 55Hz – 100Hz (±6dB) | FAP82-TR | 14" (356mm) | 12¾" (323mm) | 13¼" (337mm) |

| Model | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Height | Width | Depth | | |
|---|---|---|---|---|---|---|---|---|---|
| SM42T | 2, 4, 8,& 16 watts / 8 Bypass | 30 watts | 88dB | 115Hz – 16kHz (±5dB) | 7" (17.78CM) | 5" (12.7CM) | 5¹⁵⁄₁₆"(15.03 CM) | | |
| SM52 | N/A | 100 watts | 90dB | 85Hz – 20kHz (±5dB) | 10³⁄₁₆" (25.8CM) | 6⅞" (17.5CM) | 5⅞" (14.85CM) | | |

Specifications

| Model | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Height | Width | Depth |
|---|---|---|---|---|---|---|---|
| SM52T | .94, 1.9, 3.7, 7.5, 15, & 30 watts | 100 watts | 90dB | 85Hz – 20kHz (±5dB) | 10⁹⁄₁₆" (258mm) | 6⁷⁄₈" (175mm) | 5⁷⁄₈" (148.5mm) |
| SM82 | N/A | 150 watts | 92dB | 65Hz – 20kHz (±5dB) | 16½" (419mm) | 9¹⁄₁₆" (230mm) | 8⁷⁄₁₆" (214.9mm) |
| SM82T | 1.9, 3.8, 7.5, 15, 30, & 60 watts | 150 watts | 92dB | 65Hz – 20kHz (±5dB) | 16½" (419mm) | 9¹⁄₁₆" (230mm) | 8⁷⁄₁₆" (214.9mm) |
| SM8CXT | 7.5, 15, 30, & 60 watts / 8Ω Bypass | 150 watts | 92dB | 60Hz – 15kHz (±3dB) | 15.5" (394mm) | 10.625" (270mm) | 10.375" (264mm) |
| SM12CXT | 7.5, 15, 30, & 60 watts / 8Ω Bypass | 250 watts | 99dB | 55Hz – 15kHz (±3dB) | 19" (483mm) | 14.5" (368mm) | 14.0625" (357mm) |
| SM8SUB70 | 7.5, 15, 30, & 60 watts / 8Ω Bypass | 100 watts | 89dB | 55Hz – 100Hz (±6dB) | 15½" (356mm) | 10⅝" (270mm) | 10⅜" (264mm) |
| SM12SUB70 | 7.5, 15, 30, & 60 watts / 8Ω Bypass | 250 watts | 89dB | 45Hz – 125Hz (±6dB) | 19" (483mm) | 14.5" (368mm) | 14.0625" (357mm) |

| Model | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Height | Diameter |
|---|---|---|---|---|---|---|
| PM4FA | 70.7V: 1, 2, 4, 8, & 16 watts / 8Ω Bypass | 25 watts | 88dB | 75Hz – 20kHz (±7dB) | 13.87" (352mm) | 9.25" (235mm) |
| PM8FA | 70.7V: 1, 2, 4, 8, & 16 watts/ 8Ω Bypass | 25 watts | 96dB | 55Hz – 15kHz (±5dB) | 16.62" (422mm) | 12.25" (311mm) |
| PM8GD | 70.7V: 1.9, 3.8, 7.5, 15, 30, & 60 watts / 8Ω Bypass | 100 watts | 90dB | 55Hz – 20kHz (±5dB) | 16.62" (422mm) | 12.25" (311mm) |
| PM8CXT | 70.7V: 7.5, 15, 30, & 60 watts / 8Ω Bypass | 150 watts | 92dB | 48Hz – 18kHz (±10dB) | 16.62" (422mm) | 12.25" (311mm) |

| Model | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Height | Diameter |
|---|---|---|---|---|---|---|
| ATS183GL | 70.7V: 8, 16, & 32 watts | 100 watts | 83.5dB | 43Hz – 20kHz (±7dB) | 20.954" (532mm) | 15.118" (384mm) |
| ATS183GL8 | N/A – 8Ω | 100 watts | 83.5dB | 43Hz – 20kHz (±7dB) | 20.954" (532mm) | 15.118" (384mm) |
| ATS183GS | 70.7V:: 8, 16, & 32 watts | 100 watts | 83.5dB | 43Hz – 20kHz (±7dB) | 13.097" (333mm) | 15.118" (384mm) |
| ATS183GS8 | N/A – 8Ω | 100 watts | 83.5dB | 43Hz – 20kHz (±7dB) | 13.097" (333mm) | 15.118" (384mm) |

| Model | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Height | Width | Depth |
|---|---|---|---|---|---|---|---|
| ROCKFA62T-BR | 4, 8, 16, & 32 watts / 8Ω Bypass | 50 watts | 88dB | 80Hz – 20kHz (±5dB) | 10.5" (267mm) | 12.5" (318mm) | 9" (229mm) |

| Model | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Diameter | Depth |
|---|---|---|---|---|---|---|
| 8CXT60 | 7.5, 15, 30, & 60 watts | 150 watts | 92dB | 65Hz – 15kHz (±3dB) | 8" (203mm) | 8" (203mm) |
| 12CX | N/A | 250 watts | 99dB | 60Hz – 15kHz (±3dB) | 12.875 (322mm) | 8" (203mm) |
| 12CXT60 | 7.5, 15, 30, & 60 watts | 250 watts | 99dB | 60Hz – 15kHz (±3dB) | 12.875 (322mm) | 8" (203mm) |
| C12BT60 | 7.5, 15, 30, & 60 watts | 100 watts | 95dB | 68Hz – 15kHz (±3dB) | 12.875" (327mm) | 4.1875" (106mm) |

| Model | UL | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Diameter | Depth | | |
|-------|-----|------------------|----------------|-------------|--------------------|----------|-------|---|---|
| FA114T72 | 1480 | .5, 1, 2, & 4 | 10 watts | 89.6dB | 150Hz – 17kHz (±5dB) | 5" (127mm) | 3⅞" (98.4mm) | | |
| FA134T87 | 1480 | 1, 2 4, & 8 | 15 watts | 88dB | 110Hz –20kHz (±5dB) | 5" (127mm) | 4" (102mm) | | |
| FA116T72 | 1480 | .5, 1, 2, & 4 | 16 watts | 89.6dB | 90Hz –20kHz (±5dB) | 6½" (165.1mm) | 4½" (114.3mm) | | |
| FA136 | 1480 | N/A | 35 watts | 88dB | 80Hz – 20kHz (±5dB) | 6⁹⁄₁₆" (166.7mm) | 3¼" (82.6mm) | | |
| Model | UL | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Diameter | Depth | | |
| FA136T47 | 1480 | .5, 1, 2, & 4 | 35 watts | 88dB | 80Hz – 20kHz (±5dB) | 6⁹⁄₁₆" (166.7mm) | 5⅛" (130.2mm) | | |
| FA136T87 | 1480 | 1, 2, 4, & 8 | 35 watts | 88dB | 80Hz – 20kHz (±5dB) | 6⁹⁄₁₆" (166.7mm) | 5¼" (133.4mm) | | |
| FA138 | 1480 | N/A | 70 watts | 89.5dB | 75Hz –20kHz (±5dB) | 8¼" (209.6mm) | 3⅝" (91.4mm) | | |
| Model | UL | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Diameter | Depth | | |
| FA138T87 | 1480 | 1, 2, 4, & 8 | 70 watts | 89.5dB | 75Hz –20kHz (±5dB) | 8¼" (209.6mm) | 5½" (139.7mm) | | |
| FA138T167 | 1480 | 4, 8, & 16 | 70 watts | 89.5dB | 75Hz –20kHz (±5dB) | 8¼" (209.6mm) | 5¾" (146.1mm) | | |
| FA138T327 | 1480 | 8, 16, & 32 | 70 watts | 89.5dB | 75Hz –20kHz (±5dB) | 8¼" (209.6mm) | 5½" (139.7mm) | | |
| Model | UL | Enclosure Diameter | Enclosure Depth | Flange Diameter | Internal Volume | | | | |
| FA95-4FA95NK-4 | 1480 2043 | 5⅜" (137mm) | 6⅛" (156mm) | 7⁹⁄₁₆" (192mm) | .08 ft³ (74.3CM²) | | | | |
| FA95-6FA95NK-6 | 1480 2043 | 7" (178mm) | 6⅛" (156mm) | 9⅜" (238mm) | .14 ft³ (130.1CM²) | | | | |
| FA95-8FA95NK-8 | 1480 2043 | 8½" (216mm) | 6⅛" (156mm) | 10⅞" (276mm) | .20 ft³ (185.8CM²) | | | | |
| FA97-4FA97NK-4 | 1480 2043 | 5⅜" (137mm) | 7⅝" (194mm) | 7⁹⁄₁₆" (192mm) | .10 ft³ (92.9CM²) | | | | |
| FA97-6FA97NK-6 | 1480 2043 | 7" (178mm) | 7⅝" (194mm) | 9⅜" (238mm) | .17 ft³ (157.9CM²) | | | | |
| FA97-8FA97NK-8 | 1480 2043 | 8½" (216mm) | 7⅝" (194mm) | 10⅞" (276mm) | .25 ft³ (232.3CM²) | | | | |
| Model | UL | Diameter | Projects | | | | | | |
| FA51-4 | 1480 | 7⅞" (216mm) | ⁵⁄₁₆" (8mm) | | | | | | |
| FA51-6 | 1480 | 9⅝" (245mm) | ⁵⁄₁₆" (8mm) | | | | | | |
| FA51-8 | 1480 | 11⅛" (283mm) | ⁵⁄₁₆" (8mm) | | | | | | |
| FA720-4 | 1480 | 7⅞" (216mm) | ⁵⁄₁₆" (8mm) | | | | | | |
| FA720-6 | 1480 | 9⅝" (245mm) | ⁵⁄₁₆" (8mm) | | | | | | |
| FA720-8 | 1480 | 11⅛" (283mm) | ⁵⁄₁₆" (8mm) | | | | | | |
| Model | UL | Diameter | Projects | | | | | | |
| FA730-4 | 1480 | 7⅞" (216mm) | ⁵⁄₁₆" (8mm) | | | | | | |
| FA730-6 | 1480 | 9⅝" (245mm) | ⁵⁄₁₆" (8mm) | | | | | | |
| FA730-8 | 1480 | 11⅛" (283mm) | ⁵⁄₁₆" (8mm) | | | | | | |
| Model | UL | Length/Width (Square) | Enclosure | | | | | | |
| FA170-4 | 1480 | 9¾" (248mm) | ⁵⁄₁₆" (8mm) | | | | | | |
| FA170-6 | 1480 | 10⅛" (257mm) | ⁵⁄₁₆" (8mm) | | | | | | |
| FA170-8 | 1480 | 11¼" (286mm) | ⁵⁄₁₆" (8mm) | | | | | | |
| Model | Speaker | Transformer | Enclosure | Baffle | Tile Bridge | | | | |
| FAP136T87-720 | FA136 | HT87 | FA97-6 | FA720-6 | FA81-6 | | | | |

| Model | Cut-Out Diameter | Length | Width | Depth | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FA81-4 | 6½" (163mm) | 23⅝" (600mm) | 14⅛" (359mm) | ¼" (6mm) | | | | | |

| Model | Cut-Out Diameter | Length | Width | Depth | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FA81-6 | 8⅛" (206mm) | 23⅝" (600mm) | 14⅛" (359mm) | ¼" (6mm) | | | | | |
| FA81-8 | 9¾" (248mm) | 23⅝" (600mm) | 14⅛" (359mm) | ¼" (6mm) | | | | | |

| Model | UL | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Diameter | Depth | | |
|---|---|---|---|---|---|---|---|---|---|
| FC104T | 2043 | .5, 1, 2, 4, & 8 watts | 10 watts | 94dB | 150Hz – 17kHz | 4" (102mm) | 4" (102mm) | | |
| FC104 | 2043 | N/A – 8 | 10 watts | 94dB | 150Hz – 17kHz | 4" (102mm) | 2¼" (57.2mm) | | |
| C803A | 1480 | N/A – 8 | 16 watts | 96dB | 70Hz – 15.5kHz | 8" (203.2mm) | 2⅞" (73mm) | | |
| C10A | 1480 | N/A – 8 | 25 watts | 97dB | 65Hz – 19kHz | 8" (203.2mm) | 2⅞" (73mm) | | |

| Model | UL | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Diameter | Depth | | |
|---|---|---|---|---|---|---|---|---|---|
| SD72 | 1480 2043 | 70.7V: .25. .5, 1, 2, & 5 | 10 watts | 97dB | 55Hz – 8kHz (±5dB) | 8" (203.2mm) | 2⅞" (73mm) | | |
| GD87 | 1480 2043 | 70.7V: 1, 2, 4, & 8 | 16 watts | 99dB | 55Hz – 15kHz (±7dB) | 8" (203.2mm) | 2⅞" (73mm) | | |
| DLS4 | 1480 2043 | 70.7V: .25. .5, 1, 2, & 5 | 16 watts @ 8 | 92dB | 150Hz – 17kHz (±5dB) | 7¾" (197mm) | 4¼" (108mm) | | |

| Model | Baffle | Transformer | Mount Enclosures: | Mount Mounting Rings: | Mount T-Bar Bridge: | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FD25WHD25W | 51-8 | 25V | 96 Series Q408, BMT95-8(-7) CS95-8 | 75-8, 76-8E2, P77-8, P78-8 | 81-8(R)S | | | | |
| | | | EZ95-8 EZ96 Series | – | – | | | | |
| FD70WHD70W | 51-8 | 70.7V | 96 Series Q408, BMT95-8(-7) CS95-8 | 75-8, 76-8E2, P77-8, P78-8 | 81-8(R)S | | | | |
| | | | EZ95-8 EZ96 Series | – | – | | | | |
| FD72WFD72W | 51-8 | 25V / 70.7V | 96 Series Q408, BMT95-8(-7) CS95-8 | 75-8, 76-8E2, P77-8, P78-8 | 81-8(R)S | | | | |
| | | | EZ95-8 EZ96 Series | – | – | | | | |

| Model | Baffle | Transformer | Mount Enclosures: | Mount Mounting Rings: | Mount T-Bar Bridge: | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TFD72WCTH-D72WC | T62-8 | 25V / 70.7V | T95-8 Series, BMT95-8(-7) | T75-8(E1)(E2) | 81-8S | | | | |
| | | | EZ95-8 | – | – | | | | |
| FD25M222WH-D25M222W | M222W | 25V | 96 Series Q408, BMT95-8(-7) CS95-8 | 75-8, 76-8E2, P77-8, P78-8 | 81-8(R)S | | | | |
| | | | EZ95-8 EZ96 Series | – | – | | | | |
| FD72M222WH-D72M222W | M222W | 25V / 70.7V | 96 Series Q408, BMT95-8(-7) CS95-8 | 75-8, 76-8E2, P77-8, P78-8 | 81-8(R)S | | | | |
| | | | EZ95-8 EZ96 Series | – | – | | | | |

| Model | Baffle | Transformer | Transformer Taps | Dispersion | Compatable Enclosures | Compatable Mounting Rings | | |
|---|---|---|---|---|---|---|---|---|
| D161-8 | 161-8 | Dual Voltage 25V / 70.7V | .5, 1, 2, & 4 watts | 105° | 198 Series, SE175-4 | 72-8(E1) 81-8(S) | | |
| G161-8 | 161-8 | Dual Voltage 25V / 70.7V | .5, 1, 2, & 4 watts | 105° | 198 Series, SE175-4 | 72-8(E1) 81-8(S) | | |

| Model | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Diameter | Depth | | |
|---|---|---|---|---|---|---|---|---|
| L20-400-7 | .5, 1, 2, & 5 watts | 9 watts | 91dB | 100Hz – 10kHz (±1.5dB) | 8" (203.2mm) | 2⅞" (73mm) | | |

| Model | UL | Transformer Taps | Power Handling | Sensitivity | Frequency Response | Height | Width | Length |
|---|---|---|---|---|---|---|---|---|
| DT12 | 1480 | .25, .5, 1, 2, & 4 watts / 8 Bypass | 25 watts | 97dB | 85Hz – 8kHz (±5dB) | 4½" (114mm) | 12⅞" (327mm) | 23⅞" (606mm) |

| Model | Speaker | Transformer | Baffle | Enclosure or Mounting Ring (Order Separately) | | | | |
|---|---|---|---|---|---|---|---|---|
| B51-4 | FC104 – 4" (127mm) High Compliance | 25V / 70.7V | 51-4 | (EZ)96-4, (EZ)96-4X, 81-4 | | | | |
| B161-4 | FC104 – 4" (127mm) High Compliance | 25V / 70.7V | T161-4 | 198-4, SE198-4 | | | | |
| EZB161-4 | FC104 – 4" (127mm) High Compliance | 25V / 70.7V | T161-4 | Not Required | | | | |
| BT720-4 | FC104 – 4" (127mm) High Compliance | 25V / 70.7V | T720-4 | (EZ)E410/PR411/BMT95-4(7) | | | | |
| BT720-4-T47 | FC104 – 4" (127mm) High Compliance | 70.7V | T720-4 | (EZ)E410/PR411/BMT95-4(7) | | | | |

| Model | Primary Volts | Frequency Response | Primary Taps (Watts) | Secondary Impedance ( ) | Insertion Loss | Primary Term | Secondary Term | Core Size | Power Rating (Watts) |
|---|---|---|---|---|---|---|---|---|---|
| AF140 | — | 30Hz – 15kHz ±1dB | Auto Transformer | | .3dB | 6" (152mm) Color Coded | | 1⅜" x ⅜" (35mm x 35mm) | 150 watts |
| HT42 | 25V | 60Hz – 12kHz ±1dB | .5, 1, 2, & 4 watts | 8 | 1.0dB | 6" (152mm) Color Coded | 6" (152mm) Color Coded | ⅝" x ⅝" (16mm x 16mm) | 4 watts |
| HT47 | 70.7V | 60Hz – 12kHz ±1dB | .5, 1, 2, & 4 watts | 8 | 1.0dB | 6" (152mm) Color Coded | 6" (152mm) Color Coded | ⅝" x ⅝" (16mm x 16mm) | 4 watts |
| HT87 | 70.7V | 30Hz – 15kHz ±1dB | 1, 2, 4, & 8 watts | 4 & 8 | .6dB | 6" (152mm) Color Coded | 6" (152mm) Color Coded | ¾" x ¾" (19mm x 19mm) | 8 watts |
| HT167 | 70.7V | 30Hz – 15kHz ±1dB | 4, 8, & 16 watts | 4 & 8 | .6dB | 6" (152mm) Color Coded | 6" (152mm) Color Coded | 1" x 1" (25mm x 25mm) | 16 watts |
| HT327 | 70.7V | 30Hz – 15kHz ±1dB | 8, 16, & 32 watts | 4 & 8 | .6dB | 6" (152mm) Color Coded | 6" (152mm) Color Coded | 1¼" x 1¼" (25mm x 25mm) | 32 watts |
| T18 | 70.7V | 60Hz – 20kHz ±1dB | 2.5, 5, 10, 20, 40, & 60 watts | 4 , 8 , & 16 | .5dB | Solder Lugs | Solder Lugs | ⅞" x ⅞" (16mm x 16mm) | 60 watts |
| LT70 | 70.7V | 100Hz – 10kHz ±1.5dB | .5, 1, 2, & 5 watts | 8 | 1.5dB | 6" (152mm) Color Coded | 3" (76mm) Self Leads | ½" x ⅝" (13mm x 16mm) | 5 watts |
| LT72 | 25V / 70.7V | 100Hz – 10kHz ±1.5dB | .5, 1, 2, & 4 watts | 8 | 1.5dB | 6" (152mm) Color Coded | Common Lead + Terminals | ½" x ⅝" (13mm x 16mm) | 4 watts |

Specifications

| | Transformer Taps | Power Handling | Sensitivity | Dispersion | Frequency Response | Dimensions |
|---|---|---|---|---|---|---|
| VP14MB | .5, 1, 2, & 4 watts | 25 watts | 97dB | 105° | 50Hz - 15kHz (±5dB) | Square: 11⁷/₁₆" (290.5mm) 3¼" (82.6mm) |

| | Height | Width | Depth | Internal Volume |
|---|---|---|---|---|
| VP14ENC | 11⁷/₁₆" (290.5mm) | 11¾" (298.5mm) | 5⁵/₁₆" (134.9mm) | .10 ft³ (92.9CM²) |

| | Baffle / Enclosure | Dispersion | Transformer Taps | Height | Width | Depth – Top | Depth – Bottom | Trans-former | Volume Control (50 Pot) |
|---|---|---|---|---|---|---|---|---|---|
| WD417-25 | 417-8WD | 105° | .5, 1, 2, & 4 watts | 10.5" (267mm) | 9.5" (242mm) | 5.5" (140mm) | 3.75" (95mm) | 25V | NO |
| WD417-72 | 417-8WD | 105° | .25, .5, 1, 2, & 4 watts | 10.5" (267mm) | 9.5" (242mm) | 5.5" (140mm) | 3.75" (95mm) | 25V / 70.7V | NO |
| WD417-72V | 417-8WD | 105° | .25, .5, 1, 2, & 4 watts | 10.5" (267mm) | 9.5" (242mm) | 5.5" (140mm) | 3.75" (95mm) | 25V / 70.7V | YES |

| | UL | Transformer Taps | Power Handling | Sensitivity | Dispersion | Frequency Response | Width / Length | Depth |
|---|---|---|---|---|---|---|---|---|
| SBMS | 1480 2043 | .25, .5, 1, 2, & 4 watts | 25 watts | 92dB | 105° | 85Hz - 20kHz (±5dB) | 11½" (292.1mm) | 5½" (139.7mm) |

| | Woofer | Tweeter | Frequency Response (±3dB) | Power RMS | Sensitivity @2.83V / 1M | Cut-out Size | Const-ruction Kits |
|---|---|---|---|---|---|---|---|
| HT8253W | 8" Glass Fiber | 20mm Cloth Pivoting | 40Hz – 20kHz | 125 watts | 88dB | 10½" x 16⅛" | RIK11W |
| HT625W | 6½" Glass Fiber | 30mm Cloth Pivoting | 45Hz – 20kHz | 60 watts | 86dB | 8⅞" x 12⅞" | HP8WA / RIK8W |
| HT825W | 8" Glass Fiber | 30mm Cloth Pivoting | 40Hz – 20kHz | 80 watts | 87dB | 10½" x 14¾" | RIK10W |
| CD520W | 5¼" Poly | 20mm Cloth Pivoting | 50Hz – 20kHz | 50 watts | 83.8dB | 6¼" x 9¹¹/₁₆" | RIK5W / HP5W |
| CD620W | 6½" Poly | 20mm Cloth Pivoting | 55Hz – 20kHz | 60 watts | 85.2dB | 7⁷/₁₆" x 10⅞" | HP6WA / RIK6W |
| HT2625W | Two 6½" Glass Fiber | 30mm Cloth Pivoting | 45Hz – 20kHz | 100 watts | 89dB | 14⅜" x 8⅝" | RIK26W |
| HS28W | Two 8" Glass Fiber | - | 30Hz – 100Hz | 200 watts | 90dB | 10½" x 18½" | RIK28W |

| | Woofer | Tweeter | Frequency Response (±3dB) | Power RMS | Sensitivity @2.83V / 1M | Cut-out Size | Const-ruction Kits |
|---|---|---|---|---|---|---|---|
| CD520C | 5¼" Poly | 20mm Cloth Pivoting | 55Hz – 20kHz | 50 watts | 85.1dB | 6⁵/₁₆" Diameter | HP5CA/RIK5C |
| CD620C | 6½" Poly | 20mm Cloth Dome | 58Hz – 20kHz | 60 watts | 85.9dB | 7¹¹/₁₆" Diameter | HP6CA/RIK6C |
| CD820C | 8" Poly | 20mm Cloth Pivoting | 35Hz – 20kHz | 75 watts | 85.4dB | 9⁷/₁₆" Diameter | HP8CA/RIK8C |

| | Woofer | Tweeter | Frequency Response (±3dB) | Power RMS | Sensitivity | Height | Width | Depth |
|---|---|---|---|---|---|---|---|---|
| MPP4200-W | 4" Glass Fiber | 30mm Teteron Dome | 105Hz –20kHz | 100 watts | 88dB | 25" (635mm) | 5¼" (133mm) | 3¾" (95mm) |
| MPP4200-B | 4" Glass Fiber | 30mm Teteron Dome | 105Hz –20kHz | 100 watts | 88dB | 25" (635mm) | 5¼" (133mm) | 3¾" (95mm) |
| MPP4200-S | 4" Glass Fiber | 30mm Teteron Dome | 105Hz –20kHz | 100 watts | 88dB | 25" (635mm) | 5¼" (133mm) | 3¾" (95mm) |

| | Woofer Size | Amp Power | Frequency Response (±3dB) | Tuning | Input | Sub Sonic Filter | Height | Width | Depth |
|---|---|---|---|---|---|---|---|---|---|
| SW1010 | 10" | 100 watts | 33Hz – 120Hz | Passive Radiator | Speaker Level / Unbalanced Stereo Summing RCA Line | 18dB @ 30Hz | 17¾" | 14" | 17½" |

| | Woofer Size | Amp Power | Frequency Response (±3dB) | Tuning | Input | Sub Sonic Filter | Height | Width | Depth |
|---|---|---|---|---|---|---|---|---|---|
| SW1212 | 12" | 150 watts | 27Hz – 120Hz | Passive Radiator | Speaker Level / Unbalanced Stereo Summing RCA Line | 18dB @ 25Hz | 17¼" | 15" | 19" |
| SW1515 | 15" | 250 watts | 27Hz – 120Hz | Passive Radiator | Speaker Level / Unbalanced Stereo Summing RCA Line | 18dB @ 25Hz | 17¼" | 15" | 19" |

| | Woofer | Tweeter | Frequency Response (±3dB) | Power Rating | Sensitivity | Cut-out Size |
|---|---|---|---|---|---|---|
| ADZIW | 5¼" | ½" Balanced Dome | 53Hz – 20kHz | 45 watts | 84dB | 9⅝" x 7½" |
| ADZIC | 6½" | ½" Balanced Dome | 50Hz – 20kHz | 35 watts | 85dB | 7¹¹⁄₁₆" diameter |

| | Woofer Size | Power Rating | Sensitivity | Impedance | Height | Width | Depth |
|---|---|---|---|---|---|---|---|
| TP1100 | Single 10" | 100 watts | 92dB | 8Ω | 21" | 13¾" | 10¼" |
| TP1200 | Single 12" | 150 watts | 92dB | 8Ω | 26¹⁄₁₆" | 15³⁄₁₆" | 12¾" |
| TP2400 | Two 12" | 200 watts | 91dB | 4Ω | 39½" | 15¼" | 15¾" |

| | Power Rating | Nominal Freq. | Rated Power / 1 M | Sensitivity 1W / 1M | Dispersion | Impedance | Width | Height | Depth |
|---|---|---|---|---|---|---|---|---|---|
| APX40TN | 40 watts | 400Hz – 7.5kHz | 120dB | 107dB 500Hz – 5.5kHz ±5dB | 60° x 40° | 25V: .63, 1.25, 2.5, 3.75, 5, 10, 20, 40; 70.7V: 2.5, 10, 20, 30, 40; 100V: 5, 10, 20, 40 | 14½"(368mm) | 10¼" (260mm) | 13¼" (337mm) |

| | Power Handling | Impedance | Sensitivity | Frequency Response | Dispersion | Width | Height | Depth |
|---|---|---|---|---|---|---|---|---|
| AH5040S | 250 watts | 8 nominal 5.6 @ 9kHz minimum | 104dB | 75Hz – 14.5kHz | 50° Horizontal x 40° Vertical | 20.5" (521mm) | 20.5" (521mm) | 32" (813mm) |
| AH6565S | 250 watts | 8 nominal 5.6 @ 9kHz minimum | 102dB | 75Hz – 14.5kHz | 65° Horizontal x 65° Vertical | 20.5" (521mm) | 20.5" (521mm) | 32" (813mm) |
| AH9040S | 250 watts | 8 nominal 5.6 @ 9kHz minimum | 102.5dB | 75Hz – 14.5kHz | 90° Horizontal x 40° Vertical | 22.5" (572mm) | 30" (762mm) | 31" (787mm) |

| | Power Handling | Impedance | Sensitivity | Frequency Response | Dispersion | Width | Height | Depth |
|---|---|---|---|---|---|---|---|---|
| AH99-12ST | 200 watts | 7.5, 15, 30, & 60 watts | 103dB | 80Hz – 10kHz | 90° Horizontal x 90° Vertical | 25.65" (652mm) | 22.06" (560mm) | 21.25" (540mm) |
| AH94-12ST | 250 watts | 7.5, 15, 30, & 60 watts | 103dB | 80Hz – 10kHz | 90° Horizontal x 40° Vertical | 25.65" (652mm) | 22.06" (560mm) | 21.25" (540mm) |
| AH66-12ST | 250 watts | 7.5, 15, 30, & 60 watts | 102dB | 80Hz – 10kHz | 65° Horizontal x 65° Vertical | 23.86" (606mm) | 21.41" (544mm) | 21.25" (540mm) |
| AH99-8ST | 100 watts | 7.5, 15, 30, & 60 watts | 101dB | 90Hz – 10kHz | 90° Horizontal x 90° Vertical | 23.86" (606mm) | 21.41" (544mm) | 21.25" (540mm) |
| AH94-8ST | 100 watts | 7.5, 15, 30, & 60 watts | 101dB | 90Hz – 10kHz | 90° Horizontal x 40° Vertical | 21.83" (554mm) | 19.66" (499mm) | 18.41" (468mm) |
| AH66-8ST | 100 watts | 7.5, 15, 30, & 60 watts | 100dB | 90Hz – 10kHz | 65° Horizontal x 65° Vertical | 20.91" (531mm) | 17.91" (455mm) | 19.66" (499mm) |

| | Description |
|---|---|
| AH-PM-BAND-20S | 20" SS Strap for 2" to 6" Diameter Pole |
| AH-PM-BAND-30 | 30" SS Strap for 7" to 9" Diameter Pole |
| AH-PM-BAND-60 | 60 SS Strap for 10" to 19" Diameter Pole |
| AH-PM-BAND-90 | 90 SS Strap for 20" to 28" Diameter Pole |
| AH-PM-DA-24 | Pole Mount Dual Adapter 24" SS |

Specifications

| | Description |
|---|---|
| AH-PM-DA-36 | Pole Mount Dual Adapter 36" SS |
| AH-PM-DA-48 | Pole Mount Dual Adapter 48" SS |
| AH-PM-MOUNT-6DOWN | Adapter Bracket SS for 2" to 6" Diameter Pole |
| AH-PM-MOUNT-6UP | Adapter Bracket SS for 6" + Diameter Pole |
| AH-PM-SAFETY-6DOWN | Safety Pole Anchor Bracket |
| AH-CC-096-S | Adjustable Safety Cable 96" |
| AH-PM-SA-12 | Pole Mount Support Arm 12" SS |
| AH-PM-SA-18 | Pole Mount Support Arm 18" SS |

| | UL | Power Rating | Nominal Frequency | Rated Power / 1 M | Sensitivity | Dispersion | Impedance | Dimensions |
|---|---|---|---|---|---|---|---|---|
| AP-15 | 1480 | 15 watts | 400Hz – 14kHz | 116dB | 106dB 500Hz – 6kHz (±5dB) | 70˚ | 8 | Height: 8¾" Width: 7⅞" Depth: 9⁹⁄₁₆" |
| AP-15T(C) | 1480 | 15 watts | 400Hz – 14kHz | 116dB | 106dB 500Hz – 6kHz (±5dB) | 70˚ | 25V: .48, .94, 1.8, 7.5, 15; 70.7V: 1, 2, 3.8, 7.5, 15; 100V: 2, 4, 7.7, 15, X | Height: 8¾" Width: 7⅞" Depth: 9⁹⁄₁₆" |
| APF-15 | 1480 | 15 watts | 600Hz – 14kHz | 114dB | 104dB 700Hz – 5.5kHz (±5dB) | 95˚ | 8 | 7" Diameter x 3⁷⁄₁₆" Height 7" Diameter x 5³⁄₁₆" Height |
| APF-15T | 1480 | 15 watts | 600Hz – 14kHz | 114dB | 104dB 700Hz – 5.5kHz (±5dB) | 95˚ | 25V: .48, .94, 1.8, 7.5, 15; 70.7V: 1, 2, 3.8, 7.5, 15; 100V: 2, 4, 7.7, 15, X | 7" Diameter x 3⁷⁄₁₆" Height 7" Diameter x 5³⁄₁₆" Height |
| AP-30 | | 30 watts | 300Hz – 12kHz | 121dB | 108dB 500Hz – 4.5kHz (±5dB) | 60˚ | 8 | Height: 10" Width: 10" Depth: 10½" |
| AP-30T(C) | | 30 watts | 300Hz – 12kHz | 121dB | 108dB 500Hz – 4.5kHz (±5dB) | 60˚ | 25V: 0.9, 1.8, 3.7, 7.5, 15; 70.7V: 2, 3.8, 7.5, 15, 30; 100V: 4, 1.7, 15, 30, X | Height: 10" Width: 10" Depth: 10½" |
| APC-30T | | 30 watts | 300Hz – 12kHz | 119dB | 109dB 400Hz – 3kHz (±5dB) | 70˚ x 95˚ | 25V: 0.9, 1.8, 3.7, 7.5, 15; 70.7V: 2, 3.8, 7.5, 15, 30; 100V: 4, 1.7, 15, 30, X | Height: 8¼" Width: 14⅜" Depth: 12⅞" |

| | UL | Power Rating | Nominal Frequency | Rated Power / 1 M | Sensitivity | Dispersion | Impedance | Dimensions |
|---|---|---|---|---|---|---|---|---|
| APR-30AT | | 30 watts | 300Hz – 12kHz | 120dB | 110dB 500Hz – 4kHz (±5dB) | 40˚ | 25V: 0.9, 1.8, 3.7, 7.5, 15; 70.7V: 2, 3.8, 7.5, 15, 30; 100V: 4, 1.7, 15, 30, X | Height: 10½" Diameter: 9¼" |
| APT-34AT | | 30 watts | 400Hz – 12.5kHz | 112dB | 101dB 450Hz – 12.5kHz (±5dB) | 175˚ | 25V: 0.9, 1.8, 3.7, 7.5, 15; 70.7V: 2, 3.8, 7.5, 15, 30; 100V: 4, 1.7, 15, 30, X | Length: 16½" Diameter: 9¾" |

| | Power Rating | Transformer Taps | Nominal Frequency | Rated Power @ 1 M | Sensitivity 1 W / 1 M | Dispersion (-6dB, 2kHz Octave Band) | Diameter | Depth |
|---|---|---|---|---|---|---|---|---|
| WR-5AT | 7.5 watts | .65, 1.25, 2.5, 5.0, & 7.5 watts | 375Hz – 10kHz | 105dB | 97dB 400Hz – 7.8kHz (±5dB) | 95° | 6" (152.4mm) | 4" (102mm) |

| | Power Rating | Nominal Frequency | Rated Power @ 1 M | Sensitivity 1 W / 1 M | Dispersion | Impedance | Diameter | Depth |
|---|---|---|---|---|---|---|---|---|
| GA-15T | 15 watts | 400Hz –6kHz | 112dB | 103dB 500Hz – 3kHz ±5dB | 80° | 25V: 0.5, 1, 2, 4, 8; 70.7V: 1, 2, 4, 8, 15 | 7½" (191mm) | 9⅜" (238mm) |
| GA-30T | 30 watts | 350Hz – 7.5kHz | 118dB | 106dB 500Hz – 3kHz ±5dB | 60° | 25V: 1, 2, 4, 8, 15; 70.7V: 2, 4, 8, 15, 30 | 10" (254mm) | 12" (305mm) |
| SC-15 | 15 watts | 600Hz –6kHz | 114dB | 103dB 600Hz – 6kHz ±5dB | 95° | 8 | 6¼" (159mm) | 6½" (165mm) |
| RCMR-15 | 15 watts | 350Hz – 13kHz | 106dB | 105dB 700Hz – 5.8kHz ±5dB | 120° | 8 | 7½" (191mm) | 7¼" (184mm) |

| | Power Rating | Nominal Frequency | Rated Power @ 1 M | Sensitivity 1 W / 1 M | Dispersion | Impedance | Height | Width | Depth |
|---|---|---|---|---|---|---|---|---|---|
| MO-2 | 25 watts | 4kHz – 15kHz | 106dB | 105dB 550Hz–13.5kHz ±5dB | 85° | 8 | 8" (203mm) | 6⅝" (168mm) | 4³⁄₁₆" (106mm) |
| AP-15TUC(C) | 15 watts | 400Hz – 4kHz | 116dB | 106dB 500Hz – 6kHz ±5dB | 70° | 25V: .48, .94, 1.8, 7.5, 15; 70.7V: 1, 2, 3.8, 7.5, 15 | 8¾" (222mm) | 7⅞" (200mm) | 9⁹⁄₁₆" (237mm) |
| AP-15TUCR | 15 watts | 400Hz – 4kHz | 116dB | 106dB 500Hz – 6kHz ±5dB | 70° | 25V: .48, .94, 1.8, 7.5, 15; 70.7V: 1, 2, 3.8, 7.5, 15 | 8¾″ (222mm) | 7⅞″ (200mm) | 9⁹⁄₁₆″ (237mm) |

| | Power Rating | Nominal Frequency | Rated Power @ 1 M | Sensitivity 1 W / 1 M | Dispersion | Impedance | Diameter | Depth |
|---|---|---|---|---|---|---|---|---|
| APF-15TU(C) | 15 watts | 400Hz – 4kHz | 114dB | 104dB 700Hz – 5.5kHz ±5dB | 95° | 25V: .48, .94, 1.8, 7.5, 15; 70.7V: 1, 2, 3.8, 7.5, 15 | 7" (178mm) | 5³⁄₁₆" (132mm) |

| | Dispersion | Low End Cutoff | Bell Size | Length | With PD-30T | With PD-VH / PD-SVT | With PD-60 / PD-60T |
|---|---|---|---|---|---|---|---|
| BIA-100 | 130 x 60 | 180Hz | Height: 10¼" Width: 21" Depth: 10¼ | 19¼" | 125dB | 126dB | 128dB |
| CJ-46 | 120 x 60 | 115Hz | 22" x 12" | 17" | 125dB | 128dB | 129dB |
| DR-32 | 95 | 190Hz | Diameter: 16½" | 12½" | 124dB | 124dB | 130dB |
| DR-42 | 85 | 140Hz | Diameter: 20" | 16" | 125dB | 125dB | 131dB |
| DR-54 | 75 | 115Hz | Diameter: 26" | 19" | 125dB | 127dB | 132dB |
| DR-72 | 65 | 85Hz | Diameter: 31" | 28" | 127dB | 129dB | 135dB |

| | Horizontal Beamwidth | Vertical Beamwidth |
|---|---|---|
| CD42 | 40°, ±10°, 800Hz – 10kHz | 20°, ±10°, 2kHz – 10kHz |
| CD64 | 60°, ±10°, 600Hz – 6kHz | 40°, ±10°, 1000Hz - 7kHz |
| CD94 | 90°, ±10°, 900Hz – 6kHz | 40°, ±10°, 1000Hz – 10kHz |

| | Power Rating | Plane Wave Frequency Response | Low Freq. Limit @ Full Power | Sound Level (±5db) | Impedance |
|---|---|---|---|---|---|
| PD-30 | 30 watts | 300Hz – 3.9kHz (±5dB) | 500Hz | 113.6 (avg) 300Hz – 3.9kHz | 8 (Nominal) |
| PD-30-16 | 30 watts | 300Hz – 3.9kHz (±5dB) | 500Hz | 113.6 (avg) 300Hz – 3.9kHz | 16 (Nominal) |
| PD-30T | 30 watts | 300Hz – 3.9kHz (±5dB) | 500Hz | 113.6 (avg) 300Hz – 3.9kHz 70.7V: 1.8, 3.7, 7.5, 15, & 30 | 70.7V: 1.8, 3.7, 7.5, 15, & 30 |

Specifications

| | Power Rating | Plane Wave Frequency Response | Low Freq. Limit @ Full Power | Sound Level (±5db) | Impedance | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PD-5VH | 40 watts | 110Hz – 4.1kHz (±5dB) | 250Hz | 110.7dB (avg) 110Hz – 4.1kHz | 16 (Nominal) | | | | |
| PD-5VT | 40 watts | 190Hz – 4.2kHz (±5dB) | 300Hz | 111.2dB (avg) 190Hz – 4.2kHz | 70.7V: 2.5, 5, 10, 20, & 40 | | | | |
| PD60T | 60 watts | 300Hz – 3.7kHz (±5dB) | 300Hz | 112.7dB (avg) 100Hz – 3.7kHz | 16 (Nominal) | | | | |
| PD60AT | 60 watts | 300Hz – 3.7kHz (±5dB) | 300Hz | 112.7dB (avg) 100Hz – 3.7kHz | 70.7V: 2.5, 5, 10, 20, 40, & 60 | | | | |

**Model Combination**

| Driver | Horn | UL | Power Rating | Frequency Response | Sound Level | Sensitivity | Dispersion | Impedance | Internal Transformer |
|---|---|---|---|---|---|---|---|---|---|
| HLE-3(T) | HLE/MLE-30 | 913, 1604, 2279 | 60 watts Continuous | 250Hz – 12kHz | 108dB | -18dBm | 120° x 60° | 16 | 60 watts (Model T-18) |
| MLE-1(T) | HLE/MLE-30 | 913, 1604, 2279 | 30 watts Continuous | 300Hz – 14kHz | 107dB | -21dBm | 120° x 60° | 8 | 30 watts (Model T-20) |
| MLE-3(T) | HLE/MLE-30 | 913, 1604, 2279 | 30 watts Continuous | 300Hz – 14kHz | 106dB | -21dBm | 120° x 60° | 8 | 30 watts (Model T-20) |
| HLE-1(T) | HLE/MLE-32 | 913, 1604, 2279 | 60 watts Continuous | 190Hz – 12kHz | 112dB | -18dBm | 95° | 16 | 60 watts (Model T-18) |
| HLE-3(T) | HLE/MLE-32 | 913, 1604, 2279 | 60 watts Continuous | 190Hz – 12kHz | 111dB | -18dBm | 95° | 16 | 60 watts (Model T-18) |
| MLE-1(T) | HLE/MLE-32 | 913, 1604, 2279 | 30 watts Continuous | 200Hz – 10kHz | 110dB | -20dBm | 95° | 8 | 30 watts (Model T-20) |
| MLE-3(T) | HLE/MLE-32 | 913, 1604, 2279 | 30 watts Continuous | 200Hz – 10kHz | 110dB | -20dBm | 95° | 8 | 30 watts (Model T-20) |

**Underwriters' Laboratory Listings**

| | Class | Group | For Atmosphere Containing |
|---|---|---|---|
| HLE-1, MLE-1 | Class 1 | Group C & D | Gas Atmospheres (Including Ethyl, Ether, Gasoline Naptha, Alcohols, Butane, Propane) |
| HLE-3, MLE-3 | Class 1 | Group B, C, D | Gas Atmospheres (Including Ethyl, Ether, Gasoline Naptha, Alcohols, Butane, Propane), plus Hydrogen, Gas and Vapor, (Manufactured Gas) |

| | Mounts |
|---|---|
| BX-1A | APC-30T |
| BX-2A | AP-15, AP-15T |
| BX-3A | APF-15, APF-15T |

| | UL | Speaker | Diameter | Projects | Enclosure | Mounting Rings / Tile Bridges | | |
|---|---|---|---|---|---|---|---|---|
| 51-4 | 1480 2043 | 4" (102mm) | 7⅜" (187mm) | ¼" (6mm) | (Ez)96-4 Series (Ez)96-4x Series | 81-4 | | |
| T51-4 | | 4" (102mm) | 7⅜" (187mm) | ¼" (6mm) | (EZ)E410 Series | PR411 | | |
| T51-84 | | 4" (102mm) | 8½" (216mm) | ³⁄₁₆" (5mm) | BMT95-4(-7) | — | | |
| 51-8 | 1480 2043 | 8" (203mm) | 12¾" (324mm) | ¼" (6mm) | (EZ)95-8 Series, T95-8 Series, (EZ)96-8 Series, BMT95-8(7), Q408, CS95-8(NS) | 75-8, 76-8E2, P77-8, P78-8, 81-8(S), 81-8R, EQ81 | | |

| | UL | Speaker | Diameter | Projects | Enclosure | Mounting Rings / Tile Bridges | | |
|---|---|---|---|---|---|---|---|---|
| T51-8 | 1480 2043 | 8" (203mm) | 12¾" (324mm) | ¼" (6mm) | T95-8(NS)(NK), BMT95-8(-7) EZ95-8 | T75-8(E1)(E2) 81-8S | | |
| 60-8A(W) | 1480 2043 | 8" (203mm) | 12¾" (324mm) | ¼" (6mm) | (EZ)96-8 Series, T95-8 Series, (EZ)96-8 Series, Q408, CS95-8, BMT95-8(7) | 75-8, 76-8E2, P77-8, P78-8, 81-8R(S), EQ81 | | |
| 61-8W | 1480 2043 | 8" (203mm) | 12¾" (324mm) | ¼" (6mm) | (EZ)96-8 Series, T95-8 Series, (EZ)96-8 Series, Q408, CS95-8(NS), BMT95-8(7) | 75-8, 76-8E2, P77-8, P78-8, 81-8R(S), EQ81 | | |

800.876.3333

| | UL | Speaker | Diameter | Projects | Enclosure | Mounting Rings / Tile Bridges | | |
|---|---|---|---|---|---|---|---|---|
| **T61-8W** | 1480 2043 | 8" (203mm) | 12¾" (324mm) | ¼" (6mm) | EZ95-8 Series, T95-8(NS)(NK), BMT95-8(7) | T75-8(E1)(E2), 81-8S | | |
| **61-12W** | | 12" (305mm) | 17¼" (438mm) | ¼" (6mm) | 95-12, 95-12-12 | — | | |
| **62-8** | 1480 2043 | 8" (203mm) | 12¾" (324mm) | ¼" (6mm) | (EZ)96-8 Series, T95-8 Series, (EZ)96-8 Series, Q408, CS95-8, BMT95-8(7) | 75-8, 76-8E2, P77-8, P78-8, 81-8R(S), EQ81 | | |
| **T62-8** | | 8" (203mm) | 12¾" (324mm) | ¼" (6mm) | EZ95-8 Series, T95-8, BMT95-8(7) | T75-8(E1)(E2), 81-8S | | |
| | UL | Speaker | Diameter | Projects | Enclosure | Mounting Rings / Tile Bridges | | |
| **P900** | | 8" (203mm) | 12¾" (324mm) | ⅜" (10mm) | (EZ)95-8 Series, T95-8 Series, (EZ)96-8 Series, BMT95-8(-7), Q408, CS95-8 | 75-8(E2), P77-8, P78-8, 81-8R(S), EQ81 | | |
| **M222W** | 1480 2043 | 8" (203mm) | 12¾" (324mm) | ⅜" (10mm) | (EZ)95-8 Series, T95-8 Series, (EZ)96-8 Series, BMT95-8(-7), Q408, CS95-8 | 75-8(E2), 76-8E2, P77-8, P78-8, 81-8R(S), EQ81 | | |
| **T720-4** | | 4" (102mm) | 7⅜" (187mm) | ⁹⁄₁₆" (14mm) | 410-4 | PR411 | | |
| **T720-4BT** | | 4" (102mm) | 8½" (216mm) | ⁹⁄₁₆" (14mm) | 410-4, BMT95-8(7) | PR411 | | |
| **T720-8A** | | 8" (203mm) | 12" (305mm) | ⁹⁄₁₆" (14mm) | T95-8 Series, EZ95-8, BMT95-8(-7) | T75-8(E1)(E2), 81-8S | | |
| **T730-4B** | | 4" (102mm) | 7⅜" (187mm) | ⅛" (3mm) | BMT95-4(-7) PR-411 | | | |
| **T730-4W** | | 4" (102mm) | 7⅜" (187mm) | ⅛" (3mm) | BMT95-4(-7) PR-411 | | | |
| | UL | Speaker | Diameter | Projects | Enclosure | Mounting Rings / Tile Bridges | | |
| **T730-8B** | | 8" | | | | | | |
| **161-4** | 1480 2043 | 4" (102mm) | 7" Square (178mm) | ³⁄₁₆" (4mm) | 198-4, SE198-4 | — | | |
| **161-8** | 1480 2043 | 8" (203mm) | 11½" Square (292mm) | ¼" (6.4mm) | 198-8, SE175-4 | 72-8E1, 81-8S | | |
| **164-8A** | 1480 2043 | 8" (203mm) | 12⅝" Square (178mm) | ½" (13mm) | 191-78 Series, SM191-78 Series, Q418, Q438, Q458, QS408 | 81-8S | | |
| **164-12A** | | 12" (305mm) | 16" Square (321mm) | ½" (13mm) | Q4412, Q4612, 4712, 4812 | — | | |
| | UL | Speaker | Diameter | Projects | Enclosure | Mounting Rings / Tile Bridges | | |
| **164-15A** | | 15" (381mm) | 20¹⁄₁₆" (510mm) | ½" (13mm) | Q4915 | — | | |
| **169-8** | 1480 2043 | 8" (203mm) | 10½" Square (267mm) | ¹⁄₁₆" (2mm) | 193-8, 193-8-6 | 73-8E1, 81-8S | | |
| | UL | Speaker | Diameter | Projects | Enclosure | Mounting Rings / Tile Bridges | | |
| **170-8A** | 1480 2043 | 8" (203mm) | 13½" Square (267mm) | ¹⁄₁₆" (2mm) | (EZ)95-8 Series, T95-8 Series, BMT95-8, Q408, CS95-8 | 75-8E2, 76-8E2, P77-8, P78-8, 81-98R(S) | | |
| | | | | | (EZ)96-8 Series | EQ81 | | |
| **T620-8** | 1480 2043 | 8" (203mm) | 11⅝" Square (295mm) | ⁵⁄₁₆" (8mm) | T198-8, T198-8-5, T198-8-8, SE175-4 | T72-8E2, 81-8S | | |
| **410-4** | | 4" (102mm) | 6" (152mm) | 4½" (114mm) | N/A | N/A | | |
| **410-8(W)** | | 8" (203mm) | 9⁹⁄₁₆" (237mm) | 4¹³⁄₁₆" (122mm) | N/A | N/A | | |
| | Speaker | Width | Height | Top Depth | Bottom Depth | Finish | | |
| **417-8WD** | 8" (203mm) | 9½" (242mm) | 10½" (267mm) | 5½" (140mm) | 3¾" (95mm) | Walnut Grain Vinyl | | |

Specifications

| 510-8(W) | Speaker | Diameter | Depth | Projects | | |
|---|---|---|---|---|---|---|
| | 8" (203mm) | 9⁵⁄₁₆" (237mm) | 5¼" (133mm) | 10" (254mm) | | |

| | UL | Speaker | Diameter | Projects | Enclosure | Mounting Rings / Tile Bridges |
|---|---|---|---|---|---|---|
| VP60-R | 1480 2043 | 8" (203mm) APF-15(T), APF-15TU(C) | 12¾" (324mm) | 1" (25mm) | (T)95-8 Series, 96-8 Series, CS95-8, Q408 | 75-8(E2), 76-8(E2) |
| VP161A-R4 | | 4" (102mm) | 10¾" Square (273mm) | ¾" (19mm) | 161-SES, 161-RES | |
| VP161A-R8 | | 8" (203mm) | 10¾" Square (273mm) | ¾" (19mm) | 161-SES, 161-RES | |
| VP161A-APF | | APF-15(T) APF-15TU(C) | 10¾" Square (273mm) | ¾" (19mm) | 161-SES, 161-RES | |

| | UL | Speaker | Diameter | Depth | Projects | Mounts |
|---|---|---|---|---|---|---|
| VP410-S | 1480 | 8" (203mm) | 10" (255mm) | 7" (179mm) | – | E.O. box |
| VP510-B | 1480 | 8" (203mm) | 10" (255mm) | 8" (203mm) | 11" (279mm) | E.O. box |

| | Retrofits Baffle Model | Mounts Horn Model |
|---|---|---|
| FAMT-6 | VP60-R, VP410-S, VP161-R8 | APF-15(T), APF-15TUC |

| | Dimensions | | | | | Mounts Baffle Model |
|---|---|---|---|---|---|---|
| | A | B | C | D | E | |
| EZ96-4 | 6¼" (159mm) | 5⅛" (130mm) | 4¼" (108mm) | ½" (13mm) | 7⅛" (181mm) | 51-4, 60-4 |
| EZ96-4X | 10⅛" (257mm) | 5⅛" (130mm) | 6" (152mm) | ½" (13mm) | 6¼" (159mm) | 51-4, 60-4 |
| EZE410 | 10⅛" (257mm) | 6⅜" (162mm) | 6" (152mm) | ½" (13mm) | — | T51-4 |

| | Dimensions | | | | | Mounts Baffle Model |
|---|---|---|---|---|---|---|
| | A | B | C | D | E | |
| EZ95-8 | 10⅛" (257mm) | 9⅞" (251mm) | 4¼" (108mm) | 11¾" (298mm) | — | 51-8, 61-8W, 62-8, M222W, P900, T51-8, T61-8W, T610-8, T720-8A |

| | Dimensions | | | | | Mounts Baffle Model |
|---|---|---|---|---|---|---|
| | A | B | C | D | E | |
| EZ195-8 | 10" (254mm) | 10⅛" (257mm) | 5½" (140mm) | 11¾" (298mm) | 1¹⁄₁₆" (18mm) | T730-8B |

| | Mounting Rail Length |
|---|---|
| EZ95-8 | 23¾" (603mm) |
| All EZ Models Except EZ95-8 | 26" (660mm) |

| | Diameter | Opening | Height | Mounts Baffle Model |
|---|---|---|---|---|
| BMT95-8 | 11¾" (298mm) | 10⅛" (257mm) | 4¼" (108mm) | 60-8W,(T)61-8W, (T)62-8, T720-8A, M222W, P900, VP60-R, 170-8A |
| BMT95-8-7 | 11¾" (298mm) | 10⅛" (257mm) | 7" (178mm) | 60-8W,(T)61-8W, (T)62-8, T720-8A, M222W, P900, VP60-R, 170-8A |
| BMT95-4 | 7⅞" (200mm) | 6½" (165mm) | 5" (127mm) | T51-84, T720-4BT |
| BMT95-4-7 | 7⅞" (200mm) | 6½" (165mm) | 7" (178mm) | T51-84, T720-4BT |

| | UL | Depth | Diameter | Style | Volume | |
|---|---|---|---|---|---|---|
| (T)95-8-7 | 1480 2043 | 7" x (178mm) | 11¾" (298mm) | Recessed | .306 ft.³ (.008 m³) | |
| (T)95-8-10 | 1480 2043 | 7" (178mm) | 11¾" (298mm) | Recessed | .438 ft.³ (.012 m³) | |
| 96-8-7 | 1480 2043 | 7" (178mm) | 11⅞" (302mm) | Recessed | .449 ft.³ (.013 m³) | |

| | UL | Depth | Diameter | Style | Volume |
|---|---|---|---|---|---|
| **96-8-10** | 1480 2043 | 10" (254mm) | 11⅞" (302mm) | Recessed | .641 ft.³ (.018 m³) |
| **198-8-8** | | 8" (203mm) | 10⅝" Square (270mm) | Recessed | .492 ft.³ (.014 m³) |
| **191-78-8** | | 8" (203mm) | 11¹¹⁄₁₆" Square (297mm) | Recessed | .632 ft.³ (.018 m³) |
| **SM191-78-8** | 1480 2043 | 8" (203mm) | 12¾" Square (324mm) | Surface | .753 ft.³ (.021 m³) |

| | UL | Speaker | Volume | Diameter | Opening | Height | Flange Height | Mounts To |
|---|---|---|---|---|---|---|---|---|
| **Q408** | 1480 2043 | 8" (203mm) | 1 ft³ (0.28 m³) | 14⅜" (365mm) | 12" (305mm) | 10½" (267mm) | ⅜" (10mm) | 51-8, 60-8W, 61-8W, 62-8, M222W, P900, VP60-R |

| | UL | Speaker | Volume | Length | Width | Depth | Mounts To |
|---|---|---|---|---|---|---|---|
| **QS408** | | 8" (203mm) | 1 (0.28 m³) | 15" (381mm) | 15" (381mm) | 8" (203mm) | 164-8A |
| **Q418** | 1480 2043 | 8" (203mm) | 1½ (0.28 m³) | 18" (457mm) | 18" (457mm) | 8" (203mm) | 164-8A |
| **Q4412** | | 12" (305mm) | 2 (0.56 m³) | 23" (584mm) | 18" (457mm) | 8" (203mm) | 164-12A |
| **Q4612** | | 12" (305mm) | 3 (0.84 m³) | 23" (584mm) | 18" (457mm) | 12" (305mm) | 164-12A |

| | Speaker | Volume | Length | Width | Depth | Mounts To |
|---|---|---|---|---|---|---|
| **Q4712** | 12" (305mm) | 4 (0.113 m³) | 23" (584mm) | 18" (457mm) | 16¾" (203mm) | 164-12A |
| **Q4812** | 12" (305mm) | 6 (0.169 m³) | 29½" (749mm) | 23" (584mm) | 15" (381mm) | 164-12A |
| **Q4915** | 15" (381mm) | 6 (0.169 m³) | 29½" (749mm) | 23" (584mm) | 15" (381mm) | 164-15A |
| **Q428-SA** | 8" (203mm) | 1½ ft³ (0.42 m³) | 18" (457mm) | 18" (457mm) | 8½" (216mm) | |

| | UL | Speaker | Volume | Diameter | Opening | Height | Flange Height |
|---|---|---|---|---|---|---|---|
| **96-4X** | 1480 2043 | 8" (203mm) | ¼ (.007 m³) | 10" (254mm) | 6¼" (159mm) | 6" (152mm) | ½" (13mm) |

| | UL | Diameter | Opening | Bolt Circle | Height | Flange Diameter |
|---|---|---|---|---|---|---|
| **(T)95-8** | 1480 2043 | 10⅛" (257mm) | 9⅞" (251mm) | 11¼" (286mm) | 4¼" (108mm) | 11¾" (2998mm) |

| | UL | Diameter | Opening | Bolt Circle | Height | Flange Diameter |
|---|---|---|---|---|---|---|
| **95-12** | | 14³⁄₁₆" (360mm) | 14⁷⁄₃₂" (361mm) | 15⁷⁄₁₆" (392mm) | 7" (178mm) | 16½" (419mm) |
| **95-12-12** | | 14³⁄₁₆" (360mm) | 14⁷⁄₃₂" (361mm) | 15⁷⁄₁₆" (392mm) | 12" (305mm) | 16½" (419mm) |

| | UL | Diameter / Opening | Bolt Circle | Height | Flange Diameter |
|---|---|---|---|---|---|
| **CS95-8** | 1480 2043 | 9¾" (249mm) | 11¼" (286mm) | 4¼" (108mm) | 11¾" (298mm) |

| | UL | Diameter | Opening | Height | Plaster Flange Diameter | Flange Diameter |
|---|---|---|---|---|---|---|
| **96-8** | 1480 2043 | 11⅞" (302mm) | 10¾" (273mm) | 4¼" (298mm) | 11⅞" (298mm) | 13½" (343mm) |

| | Diameter | Opening | Plaster Flange Height | Height |
|---|---|---|---|---|
| **E410** | 10⅛" (257mm) | 6⅜" (162mm) | ½" (13mm) | 6½" (165mm) |
| **E410-11** | 10⅛" (257mm) | 6⅜" (162mm) | ½" (13mm) | 11" (279mm) |

| | UL | Diameter | Opening | Height | Plaster Flange Height | Flange Diameter |
|---|---|---|---|---|---|---|
| **96-4** | 1480 2043 | 6¼" (159mm) | 5" (127mm) | 4⅜" (111mm) | ½" (13mm) | 7⅛" (181mm) |

| | UL | Length | Width | Depth |
|---|---|---|---|---|
| **193-8** | 1480 2043 | 9⁹⁄₁₆" (243mm) | 9⁹⁄₁₆" (243mm) | 3¾" (95mm) |
| **193-8-6** | 1480 2043 | 9⅝" (244mm) | 9⅝" (244mm) | 6" (152mm) |
| **198-4** | 1480 2043 | 6¼" (159mm) | 6¼" (159mm) | 4⅛" (105mm) |
| **(T)198-8** | 1480 | 10¹¹⁄₁₆" (271mm) | 10¹¹⁄₁₆" (271mm) | 3¾" (95mm) |

| | Dimensions | Depth | Mounts |
|---|---|---|---|
| **SE198-4** | 7⅛" Square (181mm) | 4⅜" (111mm) | 161-4 |
| **161SES** | 11" Square (279mm) | 6" (152mm) | VP161 Series |
| **161RES** | 11" Square (279mm) | 6" (152mm) | VP161 Series |

Specifications

Specifications

| | Speaker | Dimensions | Depth | Mounts | | | | |
|---|---|---|---|---|---|---|---|---|
| SE175-4 | 8" (203mm) | 11⅝" square (295mm) | 4" (102mm) | 161-8, T620-8 | | | | |
| SM191-78 | 8" (203mm) | 12¾" Square (324mm) | 4" (102mm) | 164-8A | | | | |

| | UL | Dimensions | Depth | Bracket Adjustment | Mounts | | | |
|---|---|---|---|---|---|---|---|---|
| 191-78 | 1480 2043 | 11¹¹⁄₁₆" square (297mm) | 4" (102mm) | ¹⁄₁₆"-¾" (2-19mm) | 164-8A | | | |

| | Cut-Out | Length | Width | Depth | Mounts Baffle Models | | | |
|---|---|---|---|---|---|---|---|---|
| 81-8S | 8" Square (203mm) | 23⅝" (600mm) | 14⅛" (359mm) | ¼" (6mm) | (T)581-8, (T)60-8(W), (T)61-8W, (T)62-8, 63-8, 161-8, (T)164-8, 169-8, 170-8A, 169-8, 170-8, M222W, T610-8(W), T620-8, T720-8A. P900, P910 | | | |
| 81-8R | 10¾" Diameter (273mm) | 23⅝" (600mm) | 14⅛" (359mm) | ¼" (6mm) | 51-8, 60-8(W), 61-8W, 62-8, 63-8, 170-8A, M222W, P900 | | | |
| 81-4 | 5⁹⁄₁₆" Diameter (132mm) | 23⅝" (600mm) | 14⅛" (359mm) | ¼" (6mm) | 51-4, 60-4 | | | |
| EQ81 | 12¹⁄₁₆" Diameter (306mm) | 23¹¹⁄₁₆" (602mm) | 13¾" (349mm) | ½" (13mm) | – | | | |

| | Length | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 180-2 | 23¾" (603mm) | | | | | | | |
| 180-4 | 47¾" (1213mm) | | | | | | | |
| 186-16 | 18" (457mm) | | | | | | | |
| 186-24 | 26" (660mm) | | | | | | | |

| | Ring Outer Diameter | Flange Lip Outer Diameter | Mounting Ear Width | Overall Depth | | | | |
|---|---|---|---|---|---|---|---|---|
| (T)75-8 | 11¾" (298mm) | 8⅞" (251mm) | — | ⅝" (16mm) | | | | |
| T75-8E1 | 11¾" (298mm) | 8⅞" (251mm) | 17" (432mm) | ⅝" (16mm) | | | | |
| T75-8E2 | 11¾" (298mm) | 8⅞" (251mm) | 23½" (597mm) | ⅝" (16mm) | | | | |
| 76-8 | 7½" (343mm) | 11⅞" (302mm) | — | ⁷⁄₁₆" (11mm) | | | | |
| 76-8E2 | 7½" (343mm) | 11⅞" (302mm) | 24" (610mm) | ⁷⁄₁₆" (11mm) | | | | |
| P77-8 | 13⅝" (346mm) | 11¹⁵⁄₁₆" (303mm) | — | ⅜" (10mm) | | | | |
| P78-8 | 13⅝" (346mm) | 11¹⁵⁄₁₆" (303mm) | 18" (457mm) | ⅜" (10mm) | | | | |

| | Ring Outer Diameter | Flange Outer Diameter | Overall Depth | Flange Lip Depth | Mounting Ear Width | | | |
|---|---|---|---|---|---|---|---|---|
| PR411 | 7⅞" (200mm) | 6⅜" (162mm) | 3¼" (83mm) | ½" (13mm) | — | | | |
| TR-411 | 25¹³⁄₁₆" (675mm) | 6⅜" (162mm) | 3¹¹⁄₆₄" (81mm) | ½" (13mm) | 24" (610mm) | | | |

| | Width | Height | Clock / Hole Clearance Diameter | Mounts (Order Separately) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Speaker | Clock | Enclosure | | |
| 830-89A | 26½" (673mm) | 14" (356mm) | 8¾" (222mm) | 8" (203mm) | 9" (229mm) 10" (254mm) | 194-89 | | |
| 830-812A | 33⅞" (860mm) | 17⅞" (454mm) | 10½" (267mm) | 8" (203mm) | 12" (305mm) | SM194-89, 194-812 | | |
| 840-89A | 26¾" (679mm) | 13¹¹⁄₁₆" (348mm) | 8¾" (222mm) | 8" (203mm) | 9" (229mm) 10" (254mm) | SM194-812, 195-89, SM195-89 | | |
| 840-812A | 33¹⁵⁄₁₆" (862mm) | 18¼" (459mm) | 10½" (267mm) | 8" (203mm) | 12" (305mm) | 195-812, SM195-812 | | |

| | Type | Width | Height | Depth | Mounts | | | |
|---|---|---|---|---|---|---|---|---|
| 194-89 | Recessed | 24½" (622mm) | 12¹⁄₁₆" (306mm) | 3" (76mm) | 830-89A | | | |
| 194-812 | Recessed | 31⅝" (803mm) | 15⅞" (403mm) | 3" (76mm) | 830-812A | | | |
| 195-89 | Recessed | 23⅞" (606mm) | 11⅞" (302mm) | 3" (76mm) | 840-89A | | | |
| 195-812 | Recessed | 31¼" (794mm) | 16" (406mm) | 3" (76mm) | 840-812A | | | |
| SM194-89 | Surface | 26⅝" (676mm) | 14⅛" (359mm) | 3" (76mm) | 830-89A | | | |
| SM194-812 | Surface | 34" (864mm) | 18" (457mm) | 3" (76mm) | 830-812A | | | |
| SM195-89 | Surface | 26⅞" (683mm) | 13¹³⁄₁₆" (351mm) | 3" (76mm) | 840-89A | | | |
| SM195-812 | Surface | 34¹⁄₁₆" (865mm) | 18¹⁵⁄₁₆" (462mm) | 3" (76mm) | 840-812A | | | |

| FR Series Kit Part Number | Includes FR Series Speaker / Transformer Combination | Includes FR Series Baffle | Includes Enclosure / Fiber Kit |
|---|---|---|---|
| FC104T72FRK | FC104T72FR | 51-4FR | 96-4FR |
| C10AT72FRK | C10AT72FR | 51-8FR | 95-8FR |
| C803AT87FRK | C803AT87FR | 51-8FR | 95-8FR |
| FA136T87FRK | FA136T87FR | FA720-6FR | FA97-6FR |
| FA138T82FRK | FA138T87FR | FA720-8FR | FA97-8FR |

| Model | UL | Power Rating | Attenuation Per Step | Total Attenuation | Insertion Loss | Plate Size | Plate Type | Plate Color |
|---|---|---|---|---|---|---|---|---|
| AT10 | 813 & 2043 | 10 watts | 3dB | 27dB | .4dB | 1 gang | Stainless | NA |
| AT35 | 813 & 2043 | 35 watts | 3dB | 27dB | .4dB | 1 gang | Stainless | NA |
| AT100 | 813 & 2043 | 100 watts | 3dB | 27dB | .4dB | 1 gang | Stainless | NA |

| Model | UL | Power Rating | Attenuation Per Step | Total Attenuation | Insertion Loss | Plate Size | Plate Type | Plate Color |
|---|---|---|---|---|---|---|---|---|
| AT10D | 813 & 2043 | 10 watts | 3dB | 33dB | .4dB | 1 gang | Plastic Decora | White/Ivory |
| AT35D | 813 & 2043 | 35 watts | 3dB | 27dB | .6dB | 1 gang | Plastic Decora | White/Ivory |
| AT100D | 813 & 2043 | 100 watts | 3dB | 27dB | .6dB | 1 gang | Plastic Decora | White/Ivory |

| Model | UL | Power Rating | Attenuation Per Step | Total Attenuation | Insertion Loss | Plate Size | Plate Type | Plate Color |
|---|---|---|---|---|---|---|---|---|
| E408-100 | 813 & 2043 | 100 watts | 1.5dB | 15dB | .6dB | 1 gang | Stainless | NA |

| Model | Plate Height | Depth | Attenuator Height | Plate Width | Attenuator Width |
|---|---|---|---|---|---|
| AT10 | 4½" (114mm) | 2⅛" (54mm) | 2¾" (70mm) | 2¾" (70mm) | 1¾" (44mm) |
| AT10-PA | 4½" (114mm) | 2⅛" (54mm) | 2¾" (70mm) | 2¾" (70mm) | 1¾" (44mm) |
| AT35 | 4½" (114mm) | 2⅛" (54mm) | 2¾" (70mm) | 2¾" (70mm) | 1¾" (44mm) |
| AT35-PA | 4½" (114mm) | 2⅛" (54mm) | 2¾" (70mm) | 2¾" (70mm) | 1¾" (44mm) |
| AT100 | 4½" (114mm) | 2⅛" (54mm) | 2¾" (70mm) | 2¾" (70mm) | 1¾" (44mm) |
| AT100-PA | 4½" (114mm) | 2⅛" (54mm) | 2¾" (70mm) | 2¾" (70mm) | 1¾" (44mm) |
| E408-100 | 4½" (114mm) | 2⅝" (67mm) | 2 1/16" (52mm) | 2¾" (70mm) | 2 5/16" (59mm) |

| Model Series | Impedance | Voltage | Power Rating | Plate Style | Type | Requires | Attenuation |
|---|---|---|---|---|---|---|---|
| DWS-8(I/W) | 8 | — | 50 watts | Decora | Stereo, Switched | 20 in³ E.O. Box & Power Supply | 10 Steps, 22.5dB Total |
| SWS-8I | 8 | — | 50 watts | Standard | Stereo, Switched | 20 in³ E.O. Box & Power Supply | 10 Steps, 22.5dB Total |
| DWSM-15(I/W) | — | 70.7V | 15 watts | Decora | Mono, Switched | 18 in³ E.O.Box & Power Supply | 10 Steps, 22.5dB Total |
| SWS-15W | — | 70.7V | 15 watts | Standard | Stereo, Switched | 18 in³ E.O.Box & Power Supply | 10 Steps, 22.5dB Total |
| DSUMS-8W | 8 | — | 25 watts | Decora | Left, Right, Summing Switched | 20 in³ E.O. Box & Power Supply | 10 Steps, 22.5dB Total |
| SSUMS-8I | 8 | — | 25 watts | Standard | Left, Right, Summing Switched | 20 in³ E.O. Box & Power Supply | 10 Steps, 22.5dB Total |

| Model | Powers Up To | Input | Output (Nom.) |
|---|---|---|---|
| PS-M12 | 3 Switched WhisperTouch | 120VAC | 12VDC @ 300 mA |

| Model Series | Power Rating RMS / Channel | System Impedance | Voltage | Attenuation Per Step | Total | Insertion Loss | Plate Size |
|---|---|---|---|---|---|---|---|
| DAT8ST (I/W) | 50 watts | 8 | — | 3dB | 30dB | .5dB | 1 gang |
| DAT35ST70 (I/W) | 35 watts | — | 25V or 70.7V | 3dB | 27dB | .5dB | 1 gang |

Specifications

| Model | Speaker Capacity | Speaker Selector | Volume Controls | A/B Source Capacity | Power Handling RMS / Audio | | | |
|---|---|---|---|---|---|---|---|---|
| ASL-6A | 6 Pair | 6 On/Off | 6 | 6 Individual | 70/210 watts | | | |
| AST-6 | 6 Pair | 6 On/Off | — | 1 System | 40/120 watts | | | |

| Model | Description |
|---|---|
| SG-XLR-F1 | Single Gang Stainless Steel Plate with (1) Female 3 pin XLR |
| SG-XLR-F2 | Single Gang Stainless Steel Plate with (2) Female 3 pin XLR |
| SG-XLR-M1 | Single Gang Stainless Steel Plate with (1) Male 3 pin XLR |
| SG-XLR-M2 | Single Gang Stainless Steel Plate with (2) Male 3 pin XLR |
| SG-NL4MP-1 | Single Gang Stainless Steel Plate with (1) NL4MP 4-Pole connector |
| SG-NL4MP-2 | Single Gang Stainless Steel Plate with (2) NL4MP 4-Pole connector |
| SG-QTRSL-F1 | Single Gang Stainless Steel Plate with (1) Female Locking TRS connector |
| SG-QTRSL-F2 | Single Gang Stainless Steel Plate with (2) Female Locking TRS connector |
| SG-38GH | Single Gang Stainless Steel Plate ⅜" Hole & Grommet |
| SG-XLR-F1 | Single Gang Stainless Steel Plate with (1) Female 3 pin XLR |
| SG-XLR-F2 | Single Gang Stainless Steel Plate with (2) Female 3 pin XLR |
| SG-XLR-M1 | Single Gang Stainless Steel Plate with (1) Male 3 pin XLR |
| SG-XLR-M2 | Single Gang Stainless Steel Plate with (2) Male 3 pin XLR |
| SG-NL4MP-1 | Single Gang Stainless Steel Plate with (1) NL4MP 4-Pole connector |
| SG-NL4MP-2 | Single Gang Stainless Steel Plate with (2) NL4MP 4-Pole connector |
| SG-QTRSL-F1 | Single Gang Stainless Steel Plate with (1) Female Locking TRS connector |
| SG-QTRSL-F2 | Single Gang Stainless Steel Plate with (2) Female Locking TRS connector |
| SG-38GH | Single Gang Stainless Steel Plate ⅜" Hole & Grommet |

| Model | Description |
|---|---|
| SM52CBRKT-B | SM52 C-Bracket - Black |
| SM52CBRKT-W | SM52 C-Bracket - White |
| SM52GRILL-B | SM52 Grille w/ Logo - Black |
| SM52GRILL-W | SM52 Grille w/ Logo - White |
| SM52KNOB-B | SM52 Knobs - Black - Each |
| SM52KNOB-W | SM52 Knobs - White - Each |
| SM52TWEETER | SM52 Tweeter Driver Assembly |
| SM52WOOFER | SM52 5¼" Woofer Poly Cone |
| SM42GRILL-B | SM42 Grille w/ Logo - Black |
| SM42GRILL-W | SM42 Grille w/ Logo - White |
| SM42KNOB-B | SM42 Knobs - Black - Each |
| SM42KNOB-W | SM42 Knobs - White - Each |
| SM82CBRKT-B | SM82 C-Bracket - Black |
| SM82CBRKT-W | SM82 C-Bracket - White |
| SM82GRILL-B | SM82 Grille w/ Logo - Black |
| SM82GRILL-W | SM82 Grille w/ Logo - White |
| SM82HFDRV | SM82 HF Replacement Driver |
| SM82KNOB-B | SM82 Knobs - Black - Each |
| SM82KNOB-W | SM82 Knobs - White - Each |
| SM82WOOFER | SM82 8" Woofer Treated Cone |
| SMTERMCVR-B | SM Series Terminal Cover - Black |
| SMTERMCVR-W | SM Series Terminal Cover - White |
| SM52TWEETER | SM42 Tweeter Driver Assembly |
| FAP40TDRV | SM42 4" Woofer |

Specifications

| Model | Description |
|---|---|
| SM42CBRKT-B | SM42 C-Bracket - Black |
| SM42CBRKT-W | SM42 C-Bracket - White |
| FAPVRAIL | V Rail for All FAP Series Models |
| FAPPHX | Phoenix Connector for All FAP Series Models |
| FAP40TGRILL | FAP40T Grille |
| FAP40TDL | FAP40T Dogleg |
| FAP40TDLS | FAP40T Dogleg Screw |
| FAP40TDRV | FAP40T Driver |
| FAP40TTB | FAP40T Tile Bridge |
| FAP42TGRILL | FAP42TC / FAP42T Grille |
| FAP42/62TDL | FAP42TC / FAP42T / FAP62T Dogleg |
| FAP42/62TDLS | FAP42TC / FAP42T / FAP62T Dogleg Screw |
| 369551 | FAP42TC / FAP42T Driver |

| Model | Description | Current Draw | Style | Color | | |
|---|---|---|---|---|---|---|
| M-1A | IR Repeater | 12 mA | Flush Mount | White Lens | | |
| M-1AJW | IR Repeater | 12 mA | Wall Mount, Supplied on Decorator Subplate | White Lens, White Subplate | | |
| F-1 | Flasher | .05 mA | Surface Mount | Black Lens, Black Cord | | |

| Model | Power Rating | Output | Inputs | Frequency Response | Distortion | Outputs | Power Consumption | Dimensions |
|---|---|---|---|---|---|---|---|---|
| AA35 | 35 watts RMS | 25V / 70.7V / 100V & 8 | Input 1 Mic .316 ~ 3.16 mV (-50 ~ -70dBV) Input 1 Telephone / Line 316mV (-10dBV) 10k (optional 600 transformer available) Input 2/3 316 mV (10dBV) 10k | 50Hz – 20kHz | .5% or less, at 1kHz, rated output .1% or less, at 1kHz, 5 watts output | Main: Transformer coupled, balanced, 8 , 25V, and 70.7V Zone 2- 8 Unbalanced 1 watt, Zone 2- 600 Balanced 1.5V | 90 watts | Width: 8.27" (210mm) Height: 2RU, 3.66" (94mm) Depth: 10.87" (276mm) |
| AA60 | 60 watts RMS | 25V / 70.7V / 100V & 4 | Input 1 Mic .316 ~ 3.16 mV (-50 ~ -70dBV) Input 1 Telephone / Line 316mV (-10dBV) 10k (optional 600 transformer available) Input 2/3 316 mV (10dBV) 10k | 50Hz – 20kHz | .5% or less, at 1kHz, rated output .1% or less, at 1kHz, 5 watts output | Main: Transformer coupled, balanced, 8 , 25V, and 70.7V Zone 2- 8 Unbalanced 1 watt, Zone 2- 600 Balanced 1.5V | | Width: 8.27" (210mm) Height: 2RU, 3.66" (94mm) Depth: 14" (357mm) |

| Model | Power Rating | Output | Inputs | Frequency Response | Distortion | Outputs | Power Consumption | Dimensions |
|---|---|---|---|---|---|---|---|---|
| AA120 | 120 watts RMS | 25V / 70.7V / 100V & 8 | Input 1 Line/Tel–316mV (-10dBV) 10k (600 w optional/transformer) Mic–.316mV~3.16mV (-50dBV~ -70dBV) Inputs 2-5 Line 316mV (-10dBV) 10k Mic .316mV~3.16mV (-50dBV~ -70dBV) Input 6 Line 300mV/100mV (-10dBV/-20dBV) Selectable | 50Hz – 20kHz (±3dB) | <1% at rated power (1kHz) | Main: Transformer coupled, balanced, 8 , 25V, and 70.7V Zone 2 8 Unbalanced 1 watt, Zone 2 600 Balanced 1.5V | 300 watts | Width: 16.54" (420mm) Height: 2RU, 3.66" (94mm) Depth: 14.06" (357mm) |

Specifications

Specifications

| Model | Power Rating | Output | Inputs | Frequency Response | Distortion | Outputs | Power Consumption | Dimensions |
|---|---|---|---|---|---|---|---|---|
| AA240 | 240 watts RMS | 25V / 70.7V / 100V & 8 | Input 1 Line/Tel 316mV (-10dBV) 10k (600 w optional/transformer) Mic 6mV~3.16mV (-50dBV~ -70dBV) Inputs 2-5 Line 316mV (-10dBV) 10k Mic .316mV~3.16mV (-50dBV~ -70dBV) Input 6 Line 300mV/100mV (-10dBV/-20dBV) Selectable | 50Hz – 20kHz (±3dB) | <1% at rated power (1kHz) | Main: Transformer coupled, balanced, 8, 25V, and 70.7V Zone 2 8 Unbalanced 1 watt, Zone 2 600 Balanced 1.5V | 500 watts | Width: 16.54" (420mm) Height: 2RU, 3.66" (94mm) Depth: 14.06" (357mm) |
| AA120M | 120 watts RMS | 25V / 70.7V / 100V & 8 | Input 1 Line 316mV (-10dBV) 10k / Mic .316mV~3.16mV (-50dBV~ -70dBV) Inputs 2-4 Line 100mV (-20dBV) 10k / Mic .316mV~3.16mV (-50dBV~ -70dBV) Input 5 Line 316mV/100mV (-10dBV / -20dBV) Selectable Input 6 Module Input | 50Hz – 20kHz (±3dB) | <1% at rated power | Main: Transformer coupled, balanced, 8, 25V, and 70.7V Zone 2 8 Unbalanced 1 watt, Zone 2 600 Balanced 1.5V | 300 watts | Width: 16.54" (420mm) Height: 2RU, 3.66" (94mm) Depth: 14.06" (357mm) |

| Model | Power Rating | Inputs | Frequency Response | Distortion | Outputs | AC Mains | Dimensions | Optional Rack Mount Kit |
|---|---|---|---|---|---|---|---|---|
| PA601 | 60 watts RMS | Balanced Line ("Phoenix") 500mV (–6dBV) 20k Unbalanced (RCA) 500mV (–6dBV) 20k | 50Hz – 20kHz (±3dB) | .5% or less, at 1kHz, rated output .1% or less, at 1kHz, 5 watts output | Main Transformer coupled, balanced, 4, 70.7V, and 100V Line Out Unbalanced 600 | 120VAC / 240VAC (Switchable) | Width: 8.27" (210mm) Height: 2RU, 3.66" (94mm) Depth: 14" (357mm) | AARMK2-5 |

| Model | Power Rating | Inputs | Frequency Response | Power Consumption | Width | Height | Depth | |
|---|---|---|---|---|---|---|---|---|
| PA702 | 70 watts RMS per channel @ 8 | Unbalanced (RCA) 10k Balanced ("Phoenix") 20k | 30Hz –20kHz (±3dB) | 16 watts sleep mode | 8.5" (216mm) | 1RU, 1.75" (45mm) | 13.5" (343mm) | |
| PA1001G | 100 watts RMS @ 70.7V/100V | Unbalanced (RCA) 10k Balanced ("Phoenix") 20k | 30Hz –20kHz (±3dB) | 10 watts Sleep Mode | 8.5" (216mm) | 1RU, 1.75" (45mm) | 13.5" (343mm) | |

| Model | Outputs / Output Setting | Power Rating | Inputs | Frequency Response | Distortion | Signal To Noise | Dimensions |
|---|---|---|---|---|---|---|---|
| CP400 | 25V Stereo<br>70.7V Stereo<br>100V Stereo<br>140V Bridged Mono<br>200V Bridged Mono<br>8 Stereo<br>4 Stereo<br>2 Stereo<br>8 Bridged Mono<br>4 Bridged Mono | 175 watts x2<br>200 watts x2<br>200 watts x2<br>400 watts<br>400 watts<br>160 watts x2<br>240 watts x2<br>270 watts x2<br>500 watts<br>600 watts | Balanced/ Unbalanced 20k / 10k | Direct Outputs (±3dB) 30Hz – 50kHz Transformer Outputs (±3dB) 30Hz – 16kHz | 8, 1kHz, 240 watts per channel < .05% | 8 per Channel @ 240 watts > 100dB | 3RU, Height: 5.19 (132mm) Width: 18.9" (480mm) Depth: 16.85" (428mm) |
| CP700 | 25V Stereo<br>70.7V Stereo<br>100V Stereo<br>140V Bridged Mono<br>200V Bridged Mono<br>8 Stereo<br>4 Stereo<br>2 Stereo<br>8 Bridged Mono<br>4 Bridged Mono | 280 watts x2<br>350 watts x2<br>350 watts x2<br>700 watts<br>700 watts<br>240 watts x2<br>400 watts x2<br>550 watts x2<br>850 watts<br>1100 watts | Balanced/ Unbalanced 20k / 10k | Direct Outputs (±3dB) 30Hz – 50kHz Transformer Outputs (±3dB) 30Hz – 16kHz | 8, 1kHz, 240 watts per channel < .05% | 8 per Channel @ 240 watts > 100dB | 3RU, Height: 5.19 (132mm) Width: 18.9" (480mm) Depth: 16.85" (428mm) |

| Model | Input | Output (Nom.) | Ripple @ Full Load | Regulation 0 V Full Load | Length | Width | Height | |
|---|---|---|---|---|---|---|---|---|
| RPS24-05 | 117VAC 60Hz, 26 watts | 24VDC ½ Amp | 0.5mV | 500mV | 6¾" (171mm) | 3⅝" (92mm) | 2" (51mm) | |

| Model | Input | Output (Nom.) | Ripple @ Full Load | Regulation 0 - Full Load | Length | Width | Height | |
|---|---|---|---|---|---|---|---|---|
| PS24-2R | 105 - 125VAC 60Hz, 110 watts | 24VDC 2 Amp | 0.5mV | 500mV | 6¼" (337mm) | 3¼" (159mm) | 2¾" (121mm) | |

| Model | Input | Output (Nom.) | Ripple @ Full Load | Regulation 0 - Full Load | Length | Width | Height | |
|---|---|---|---|---|---|---|---|---|
| **PS24-4R** | 105 - 125VAC 60Hz, 110 watts | 24VDC 4 Amp | 1mV | 300mV | 6¼" (337mm) | 3¼" (159mm) | 2¾" (121mm) | |
| **Model** | **Input** | **Output (Nominal)** | **Ripple @ Full Load** | **Regulation 0 - Full Load** | **Length** | **Width** | **Height** | |
| **PS24-50A** | 117VAC 60Hz, 170 watts | 24VDC 5 Amp | Less Than 2.5% | 29 - 23V | 13¼" (337mm) | 6¼" (159mm) | 4¾" (121mm) | |
| **Model** | **UL** | **Input** | **Output (Nominal)** | **Ripple @ Full Load** | **Regulation 0 - Full Load** | **Length** | **Width** | **Height** |
| **PS24-20** | | 117VAC 60Hz, 70 watts | 24, 12, 6 VDC 2 Amp | Less Than 2.5% | 27-22V | 6¾" (171mm) | 3⅝" (92mm) | 4" (102mm) |
| **TS242** | 2017 | 105 - 125VAC 60Hz, 74 watts | 24VDC 2 Amp | Less Than 0.5% | 28-22.4V | 3⅞" (98mm) | 10⅞" (276mm) | 6" (152mm) |
| **Model** | **Input** | **Output (Nominal)** | **Ripple @ Full Load** | **Regulation 0 - Full Load** | **Length** | **Width** | **Height** | |
| **PS24-075** | 117VAC 60Hz, 26 watts | 24VDC ¾ Amp | Less than 1.5mV | 26 – 22V | 6¾" (171mm) | 3⅝" (92mm) | 2" (51mm) | |
| **Model** | **Input** | **Output (Nominal)** | **Ripple @ Full Load** | **Regulation 0 - Full Load** | **Length** | **Width** | **Height** | |
| **TPS24-05** | 117VAC 60Hz, 26 watts | 24VDC ½ Amp Talk Line | 0.5mV | 500mV | 6¾" (171mm) | 3⅝" (92mm) | 2" (51mm) | |

**Relay Pack Chassis Modules (Without Relays)**

| Model | Relay Socket Quantity | Length | Width | Height |
|---|---|---|---|---|
| **RPM-2** | 2 | 4¾" (121mm) | 3⅛" (79mm) | ¹⁵⁄₁₆" (24mm) |
| **RPM-4** | 4 | 5½" (140mm) | 4¾" (121mm) | ¹⁵⁄₁₆" (24mm) |

**Plug In Relays (Ordered Relays)**

| Model | Type | Contact Material | Contact Rating | Power | | | |
|---|---|---|---|---|---|---|---|
| **RLM-24** | DPDT | Fine, Silver, Gold Plated | 1mA tp 3 Amp | 24VDC @ 35 mA | | | |
| **RLM-24-5** | DPDT | Silver Cadmium Oxide | 500mA to 5 Amp | 24VDC @ 35 mA | | | |

| Model | Input Power | Power Supply Output | Relay Qty / Type | Relay Power Req. | Contact Rating | Length | Width | Height |
|---|---|---|---|---|---|---|---|---|
| **PSR-212** | 117VAC 60Hz, 24 watts | 24VDC @ 1 Amp | 12 Qty. 24VDC, DPDT | 24VDC, 35mV | 3 Amps | 13¼" (337mm) | 6¼" (159mm) | 4¾" (121mm) |
| **PSR-206** | 117VAC 60Hz, 12 watts | 24VDC @ 500 Amp | 6 Qty. 24VDC, DPDT | 24VDC, 35mV | 3 Amps | 13¼" (337mm) | 6¼" (159mm) | 4¾" (121mm) |

| Model | UL | Transformer Taps | Frequency Response | Dispersion | Sensitivity |
|---|---|---|---|---|---|
| **VT-157UCN** | 1480 | 70.7V: 2, 4, 8, & 15 watts | 600Hz - 5.5kHz (±5dB) | >190˚ (-6dB point, 1 and 2kHz octave bands) | 96.9dB (1W/1M) UL: 90dB (1W/1M) |
| **VT-157UCR** | 1480 | 70.7V: 2, 4, 8, & 15 watts | 600Hz - 5.5kHz (±5dB) | >190˚ (-6dB point, 1 and 2kHz octave bands) | 96.9dB (1W/1M) UL: 90dB (1W/1M) |
| **VTF-157UCN** | 1480 | 70.7V: 2, 4, 8, & 15 watts | 600Hz - 5.5kHz (±5dB) | >190˚ (-6dB point, 1 and 2kHz octave bands) | 96.9dB (1W/1M) UL: 90dB (1W/1M) |
| **VTF-157UCR** | 1480 | 70.7V: 2, 4, 8, & 15 watts | 600Hz - 5.5kHz (±5dB) | >190˚ (-6dB point, 1 and 2kHz octave bands) | 96.9dB (1W/1M) UL: 90dB (1W/1M) |
| **VT-152UCN** | 1480 | 25V: 2, 4, 8, & 15 watts | 600Hz - 5.5kHz (±5dB) | >190˚ (-6dB point, 1 and 2kHz octave bands) | 96.9dB (1W/1M) UL: 90dB (1W/1M) |
| **VT-152UCR** | 1480 | 25V: 2, 4, 8, & 15 watts | 600Hz - 5.5kHz (±5dB) | >190˚ (-6dB point, 1 and 2kHz octave bands) | 96.9dB (1W/1M) UL: 90dB (1W/1M) |
| **VTF-152UCN** | 1480 | 25V: 2, 4, 8, & 15 watts | 600Hz - 5.5kHz (±5dB) | >190˚ (-6dB point, 1 and 2kHz octave bands) | 96.9dB (1W/1M) UL: 90dB (1W/1M) |
| **VTF-152UCR** | 1480 | 25V: 2, 4, 8, & 15 watts | 600Hz - 5.5kHz (±5dB) | >190˚ (-6dB point, 1 and 2kHz octave bands) | 96.9dB (1W/1M) UL: 90dB (1W/1M) |

Specifications

| Model | Frequency Response | Dispersion | Sensitivity | | | | |
|---|---|---|---|---|---|---|---|
| SVT-27UCS | 500Hz -5kHz (±5dB) | >190˚ (-6dB point, 1 and 2kHz octave bands) | 96.9dB (1 watt, 1 meter) UL: 90dB (1 watt, 10 ft) | | | | |

| Model | Power Taps | Frequency Response | Sound Level | Dispersion | Impedance | | |
|---|---|---|---|---|---|---|---|
| VTB-1 | 15 watts | 400Hz – 4kHz | 107dB | 150˚ | 8 | | |
| VTB-2 | 15 watts | 400Hz – 4kHz | 107dB | 150˚ | 4 | | |
| VTB-4 | 2, 4, 8, & 15 watts | 400Hz – 4kHz | 107dB | 150˚ | 25V | | |
| VTB-6 | 1 & 2 watts | 400Hz – 4kHz | 100dB | 150˚ | 25V | | |

| Model Series | UL | Size | Magnet | Frequency Response | Power Rating | Impedance | Flux Density | Sensitivity |
|---|---|---|---|---|---|---|---|---|
| UHT | 1480 | 8" (203mm) | 10 oz (283 g) | 85Hz – 8kHz (±5dB) | 10 watts | 8 | 10,600 Gauss | 97dB (1W/1M) |

| Model Speaker / Transformer / Cap / Baffle | UL | Transformer | Transformer Taps | DC Blocking Capacitor | Baffle Type | Mounts Enclosure (Order Separately) | | |
|---|---|---|---|---|---|---|---|---|
| UHT25C-U51-8 | 1480 | 25V | ½, 1, 2, 5 | 10 mfd @ 50V | 51-8 (Round) | 95-8, 96-8 | | |
| UHT25C-U161-8 | 1480 | 25V | ½, 1, 2, 5 | 10 mfd @ 50V | 51-8 (Round) | 95-8, 96-8 | | |
| UHT70C-U51-8 | 1480 | 70.7V | ½, 1, 2, 5 | 4 MD @ 150V | 161-8 (Square) | 198-8, SE175-4 | | |
| UHT70C-U161-8 | 1480 | 70.7V | ½, 1, 2, 5 | 4 MD @ 150V | 161-8 (Square) | 198-8, SE175-4 | | |

| Model | Description | Power Rating | Dispersion | Sound Level Peak (dBA) | Finish | | |
|---|---|---|---|---|---|---|---|
| HPG-100N | Rectangular Molded Bell | 100 watts | 80˚ H x 105˚ V | 110dB 120dB | Black Bell Black Driver | | |

| Model | Power Rating | Impedance | Plane Wave Freq. Response | Low Freq. Limit @ Full Power | Sound Level | | |
|---|---|---|---|---|---|---|---|
| AS-100N | 100 watts | 11 (nominal) | 100Hz – 2.5kHz (±5dB) | 400Hz | 117dBa | | |

| Model | Description | Size | Mounts | | | | |
|---|---|---|---|---|---|---|---|
| EST-510 | Tip Assembly-Gray | 3¼" (83mm) Length | AS-100N | | | | |
| EST-527 | Tip Assembly-Gray | 5¼" (133mm) Length | AS-100N | | | | |
| ESB-974 | Loudspeaker Bell-Gray | 5½" (140mm) Diameter 3" (76mm) Depth | AS-100N | | | | |
| K-100N | Replacement Head Assembly | — | HPG100N AS100N | | | | |
| YDA-TH | Dual Driver Adapter 1⅜"-18F, 1⅜"-18M thread | — | HPG100N AS100N | | | | |

| Model | Description | Dimensions | | | | | |
|---|---|---|---|---|---|---|---|
| VPCS-2G-2 | 25V; 2-Gang | 4¾" Square (121mm) 2⅛" Depth (54mm) | | | | | |
| VPCS-2GPB-2 | 25V; 2-Gang w/ Call Switch | 4¾" Square (121mm) 2⅛" Depth (54mm) | | | | | |
| VPCS-3GPB-245 | 25V; 3-Gang w/ Call Switch | Width 6⅜" (162mm) Height: 4¾" (121mm) Depth: 2⅛" (54mm) | | | | | |

| Model | Description | Width | Height | Depth | | | |
|---|---|---|---|---|---|---|---|
| VPB-1A | Plated Mounted 1-gang Call Switch | 2¾" (70mm) | 4½" (114mm) | 1⅜" (35mm) | | | |

| Model | Power Rating | Transformer | Frequency Response | Call Switch | Optional Back Box | | |
|---|---|---|---|---|---|---|---|
| VPVT-4PB | 15 watts, 25V | 25V | — | Yes | VP-77 | | |

| Model | Width | Height | Depth | Mounts | | | |
|---|---|---|---|---|---|---|---|
| VP-77 | 5½" (139.7mm) | 6¼" (159mm) | 3½" (88.9mm) | VPVT-PB Series | | | |

| Model | Power Rating | Transformer | Frequency Response | Sensitivity As Microphone | | | |
|---|---|---|---|---|---|---|---|
| WPVT-1SN | 15 watts (8 ) | — | 600Hz – 5.5kHz | -26dBm | | | |
| WPVT-4SN | 15 watts | 25V | 600Hz – 5.5kHz | -26dBm | | | |

| Model | Power Rating | Transformer | Frequency Response | Sensitivity As Microphone | | | |
|---|---|---|---|---|---|---|---|
| WPVT-6SN | 2 watts | 25V | 600Hz – 5.5kHz | -26dBm | | | |
| WPVT-1FN | 15 watts (8 ) | — | 600Hz – 5.5kHz | -26dBm | | | |
| WPVT-4FN | 15 watts | 25V | 600Hz – 5.5kHz | -26dBm | | | |
| WPVT-6FN | 2 watts | 25V | 600Hz – 5.5kHz | -26dBm | | | |

| Model | Description | Power Req. | Power Output | Capacity | Dimensions | | |
|---|---|---|---|---|---|---|---|
| PVP-24 | Plug-in Interface Module | 117VAC | 8VAC @ 2 Amps | Four PVP-6 | 9½" x 13" x 4½" (241mm x 330mm x 114mm) | | |

| Model | Type | Mounts Intercom Station | Width | Height | Depth | | |
|---|---|---|---|---|---|---|---|
| TS302A | Surface | CE-2A | 4¹¹⁄₁₆" (119mm) | 4⅝" (117mm) | 2¹⁵⁄₃₂" (63mm) | | |

| Model | Color | Mounting Plate | Included Options | | | | |
|---|---|---|---|---|---|---|---|
| CE-2A | Neutral | 2 Gang | — | | | | |
| CE-2A-AC | Neutral | 2 Gang | 25" Armored Cable | | | | |
| CE-2A-PT | Neutral | 2 Gang | Push to Talk Switch | | | | |

| Model | Input Impedance | Output Impedance | Frequency Response | Length | Width | Height | |
|---|---|---|---|---|---|---|---|
| LT600-VC | 600 | 600 , 10k , 25k | 60Hz – 12kHz | 4⅞" (124mm) | 3⅛" (80mm) | 1¾" (44mm) | |

| Model | Input | Output (Nom.) | Ripple @ Full Load | Regulation 0 - Full Load | Length | Width | Height |
|---|---|---|---|---|---|---|---|
| TPS24-05 | 117VAC 60Hz, 36 watts | 24VDC ½ Amp Talk Line | 0.5mV | 500mV | 6¾" (172mm) | 3⅝" (92mm) | 2" (51mm) |

| Model | Description |
|---|---|
| CX-EA | Handset mounting noise canceling transmitter, neutral |
| DY-1 | Dynamic transmitter allows the telephone to function as a microphone for high intelligibility paging. Replace carbon transmitter with DY-1 during installation. |
| RU-1 | Replacement handset receiver (150 – 200 ) |
| TU-1 | Replacement handset transmitter (50 ) |

| Model | Computer Interface | Processor | Dynamic Range | Power Supply | Dimensions |
|---|---|---|---|---|---|
| ASP-MG24 | USB & RS-232 | 32-bit (40-bit extended) | 115dB (unweighted) | 115V 20 watts UL External Power Supply | Height: 1RU (1.75" 44mm) Width: 19" (483mm) Depth: 8" (203mm) |
| ASP-MG24TDB | USB, RS-232, & Ethernet | 32-bit (40-bit extended) | 115dB (unweighted) | 115V 20 watts UL External Power Supply | Height: 1RU (1.75" 44mm) Width: 19" (483mm) Depth: 8" (203mm) |

| Model | Speakers | Amplifier | Level Control | Filter Selection | Hi-Cut Control | Height | Width | Depth |
|---|---|---|---|---|---|---|---|---|
| AM1200 | Two 2"x4" | Class D, 2 x 12 Watts @70.7V (416Ω Load) | Internal Speaker, External Amplifier Output | Selectable White, Pink Noise | Variable: 1kHz–7kHz, 6dB per Octave | 2.68" (68mm) | 7¼" (184mm) | 6" (152mm) |

| Model | Transformer Taps | Mounting Tab Holes | Transducer Dimensions | Transformer Housing Dimensions | | | |
|---|---|---|---|---|---|---|---|
| M2000-SM | .25, .5, 1, 2, & 4 watts | 4" On Center | 2.5" Square (64mm) 1" Height (25mm) | 3.5" Square (89mm) 2.25" Height (57mm) | | | |

| Model | Transformer Taps | Sensitivity | Frequency Response | Height | Width | Depth |
|---|---|---|---|---|---|---|
| M2000-LP | .25, .5, 1, 2, & 4 watts & Off | 90dB | 250Hz –3kHz (±5dB) | 2⅝" (67mm) | 7½" (191mm) | 7" (178mm) |

Specifications

| | FMA35-25SA | FMA44-25SA | FMA35-25G | FMA44-25G | FMA44-36G |
|---|---|---|---|---|---|
| Width (Outside) | 24.12" (612.65mm) | 24.12" (612.65mm) | 24.12" (612.65mm) | 24.12" (612.65mm) | 24.12" (612.65mm) |
| Height (Outside) | 69.31" (1760.54mm) | 85.06" (2160.59mm) | 69.31" (1760.54mm) | 85.06" (2160.59mm) | 85.06" (2160.59mm) |
| Depth (Outside) | 25.5" (648mm) | 25.5" (648mm) | 25.5" (648mm) | 25.5" (648mm) | 30" (762mm) |
| Panel Space | 35RU 61.31" (1557.34mm) | 44RU 77.06" (1957.39mm) | 35RU 61.31" (1557.34mm) | 44RU 77.06" (1957.39mm) | 44RU 77.06" (1957.39mm) |
| Usable Depth | 24.125" (612.775mm) | 24.25" (615.95mm) | 24.0625" (611.19mm) | 24.25" (615.95mm) | 34" (863.6mm) |
| Top Panel Opening | 12RU 21.06" (535mm) | 12RU 21.06" (535mm) | 12RU 21.06" (535mm) | 12RU 21.06" (535mm) | 18RU 31.62" (803.285mm) |
| Floor Mounting Hole Location | 23.28" (591.55mm) | 23.28" (591.55mm) | 23.28" (591.55mm) | 23.28" (591.55mm) | 33.78" (858.25mm) |
| **Optional Accessories** | | | | | |
| 1" Plexiglass Front Door | PFD35 | PFD44 | PFD35 | PFD44 | PFD44 |
| 1" Perforated Front Door | MPFD35 | MPFD44 | MPFD35 | MPFD44 | MPFD44 |
| 1" Solid Front Door | SFD35 | SFD44 | SFD35 | SFD44 | SFD44 |
| 3" Perforated Front Door | MPFD35-3 | N/A | MPFD35-3 | N/A | N/A |
| Solid Top Panel | TPS-25 | TPS-25 | TPS-25 | TPS-25 | TPS-36 |
| Perforated Top Panel | TPP-25 | TPP-25 | TPP-25 | TPP-25 | TPP-36 |
| Fan Panel Top | EFT-25 | EFT-25 | EFT-25 | EFT-25 | EFT-36 |
| Caster Kit | FMARTK25 | FMARTK25 | FMARTK25 | FMARTK25 | FMARTK36 |
| Vented Side Panels | FMA35-25LRPV | FMA44-25LRPV | FMA35-25LRPV | FMA44-25LRPV | FMA-44-36LRPV |
| Rear Rack Rails | FMA-RRK35 | FMA-RRK44 | FMA-RRK35 | FMA-RRK44 | FMA-RRK44 |

| | 535-25 | 540-25 | 544-25 | 544-30 |
|---|---|---|---|---|
| Width (Outside) | 22.3125" (567mm) | 22.3125" (567mm) | 22.3125" (567mm) | 22.3125" (567mm) |
| Height (Outside) | 65.5" (1664mm) | 74.25" (1886mm) | 81.25" (2024mm) | 81.25" (2024mm) |
| Depth (Outside) | 25.5" (348mm) | 25.5" (348mm) | 25.5" (348mm) | 30" (762mm) |
| Panel Space | 35RU 61" (1556mm) | 40RU 70⅛" (1778mm) | 44RU 77⅛" (1956mm) | 44RU 77⅛" (1956mm) |
| Usable Depth | 23.81" (605mm) | 23.81" (605mm) | 23.81" (605mm) | 23.81" (605mm) |
| Top Panel Opening | 6RU 10.5" (266.7mm) | 6RU 10.5" (266.7mm) | 6RU 10.5" (266.7mm) | 6RU 10.5" (266.7mm) |
| **Optional Accessories** | | | | |
| 1" Plexiglass Front Door | PFD35 | PFD40 | PFD44 | PFD44 |
| 1" Perforated Front Door | MPFD35 | MPFD40 | MPFD44 | MPFD44 |
| 1" Solid Front Door | SFD35 | SFD40 | SFD44 | SFD44 |
| 3" Perforated Front Door | MPFD35-3 | — | — | — |
| Solid Top Panel | SPR6 | SPR6 | SPR6 | SPR6 |
| Perforated Top Panel | PPR6 | PPR6 | PPR6 | PPR6 |
| Fan Panel Top | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 |
| Caster Kit | RCK-25 | RCK-25 | RCK-25 | RCK-30 |
| Vented Side Panels** | SPS35-25 | SPS40-25 | SPS44-25 | SPS44-30 |
| Rear Rack Rails | RR35 | RR40 | RR44 | RR44* |

| | 735-25 | 740-25 | 744-25 | 744-30 | 744-36 |
|---|---|---|---|---|---|
| **Width (Outside)** | 22⁵⁄₁₆" (567mm) | 22⁵⁄₁₆" (567mm) | 22⁵⁄₁₆" (567mm) | 22⁵⁄₁₆" (567mm) | 22⁵⁄₁₆" (567mm) |
| **Height (Outside)** | 65½" (1664mm) | 74¼" (1886mm) | 81¼" (2024mm) | 81¼" (2024mm) | 81¼" (2024mm) |
| **Depth (Outside)** | 25½" (348mm) | 25½" (348mm) | 25½" (348mm) | 30" (762mm) | 36.02" (916mm) |
| **Panel Space** | 35RU 61" (1556mm) | 40RU 70⅛" (1778mm) | 44RU 77⅛" (1956mm) | 44RU 77⅛" (1956mm) | 44RU 77⅛" (1956mm) |
| **Usable Depth** | 23.81" (605mm) | 23.81" (605mm) | 23.81" (605mm) | 23.81" (605mm) | 34.03" (864mm) |
| **Top Panel Opening** | 12RU 21.06" (535mm) | 12RU 21.06" (535mm) | 12RU 21.06" (535mm) | 14RU 24.5" (622.3mm) | 18RU 31.62" (803.285mm) |
| **Optional Accessories** | | | | | |
| **Flush Rear Door** | FRD35 | FRD40 | FRD44 | FRD44 | FRD44 |
| **1" Plexiglass Front Door** | PFD35 | PFD40 | PFD44 | PFD44 | PFD44 |
| **1" Perforated Front Door** | MPFD35 | MPFD40 | MPFD44 | MPFD44 | MPFD44 |
| **1" Solid Front Door** | SFD35 | SFD40 | SFD44 | SFD44 | SFD44 |
| **3" Perforated Front Door** | MPFD35-3 | — | — | — | — |
| **Solid Top Panel** | TPS-25 | TPS-25 | TPS-25 | TPS-30 | TPS-36 |
| **Perforated Top Panel** | TPP-25 | TPP-25 | TPP-25 | TPP-30 | TPP-36 |
| **Fan Panel Top** | EFT-25 | EFT-25 | EFT-25 | EFT-30 | EFT-36 |
| **Caster Kit** | RCK-700 | RCK-700 | RCK-700 | RCK-700 | RCK-700 |
| **Vented Side Panels** | SPS35-25 | SPS40-25 | SPS44-25 | SPS44-30 | SPS44-36 |
| **Rear Rack Rails** | RR35 | RR40 | RR44 | RR44 | RR44 |

| | 121-18 | 124-18 | 135-18 | 140-18 | 144-18 |
|---|---|---|---|---|---|
| **Width (Outside)** | 22.3125" (567mm) | 22.3125" (567mm) | 22.3125" (567mm) | 22.3125" (567mm) | 22.3125" (567mm) |
| **Height (Outside)** | 41" (1041mm) | 46.25" (1175mm) | 65.5" (1664mm) | 74.25" (1886mm) | 81.25" (2024mm) |
| **Depth (Outside)** | 18.5" (470mm) | 18.5" (470mm) | 18.5" (470mm) | 18.5" (470mm) | 18.5" (470mm) |
| **Panel Space** | 21RU 36.875" | 24RU 42.125" | 35RU 61" | 40RU 70.125" | 44RU 77.125" |
| **Usable Depth** | 17" (432mm) | 17" (432mm) | 17" (432mm) | 17" (432mm) | 17" (432mm) |
| **Optional Accsesories** | | | | | |
| **1" Plexiglass Front Door** | PFD21 | PFD24 | PFD35 | PFD40 | PFD44 |
| **1" Perforated Front Door** | MPFD21 | MPFD24 | MPFD35 | MPFD40 | MPFD44 |
| **1" Solid Front Door** | SFD21 | SFD24 | SFD35 | SFD40 | SFD44 |
| **3" Perforated Front Door** | — | MPFD24-3 | MPFD35-3 | — | — |
| **Solid Top Panel** | SPR6 | SPR6 | SPR6 | SPR6 | SPR6 |
| **Perforated Top Panel** | PPR6 | PPR6 | PPR6 | PPR6 | PPR6 |
| **Fan Panel** | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 |
| **Caster Kit** | CT1020-962 | CT1020-962 | CT1020-962 | CT1020-962 | CT1020-962 |

Specifications

| | 18½" Depth | | | | | 25½" Depth | | | | | 30" Depth | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 221-18 | 224-18 | 235-18 | 240-18 | 244-18 | 221-25 | 224-25 | 235-25 | 240-25 | 244-25 | 221-30 | 224-30 | 235-30 | 240-30 | 244-30 |
| Width (Outside) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) | 22⁵/₁₆" (567mm) |
| Height (Outside) | 41" (1041mm) | 46¼" (1175mm) | 65½" (1664mm) | 74¼" (1886mm) | 81¼" (2024mm) | 41" (1041mm) | 46¼" (1175mm) | 65½" (1664mm) | 74¼" (1886mm) | 81¼" (2024mm) | 41" (1041mm) | 46¼" (1175mm) | 65½" (1664mm) | 74¼" (1886mm) | 81¼" (2024mm) |
| Depth (Outside) | 18½" (470mm) | 18½" (470mm) | 18½" (470mm) | 18½" (470mm) | 18½" (470mm) | 25½" (348mm) | 25½" (348mm) | 25½" (348mm) | 25½" (348mm) | 25½" (348mm) | 30" (762mm) | 30" (762mm) | 30" (762mm) | 30" (762mm) | 30" (762mm) |
| Panel Space | 21RU 36.875" | 24RU 42.125" | 35RU 61" | 40RU 70.125" | 44RU 77.125" | 21RU 36.875" | 24RU 42.125" | 35RU 61" | 40RU 70.125" | 44RU 77.125" | 21RU 36.875" | 24RU 42.125" | 35RU 61" | 40RU 70.125" | 44RU 77.12 5" |
| Usable Depth | 17" (432mm) | 17" (432mm) | 17" (432mm) | 17" (432mm) | 17" (432mm) | 24" (610mm) | 24" (610mm) | 24" (610mm) | 24" (610mm) | 24" (610mm) | 28⁹/₁₆" (725mm) | 28⁹/₁₆" (725mm) | 28⁹/₁₆" (725mm) | 28⁹/₁₆" (725mm) | 28⁹/₁₆" (725mm) |
| Top Panel Opening | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm | 6RU 10.5" 266mm |
| **Optional Accessories** | | | | | | | | | | | | | | | |
| 1" Plexiglass Front Door | PFD21 | PFD24 | PFD35 | PFD40 | PFD44 | PFD21 | PFD24 | PFD35 | PFD40 | PFD44 | PFD21 | PFD24 | PFD35 | PFD40 | PFD44 |
| 1" Perforated Front Door | MPFD21 | MPFD24 | MPFD35 | MPFD40 | MPFD44 | MPFD21 | MPFD24 | MPFD35 | MPFD40 | MPFD44 | MPFD21 | MPFD24 | MPFD35 | MPFD40 | MPFD44 |
| 1" Solid Front Door | SFD21 | SFD24 | SFD35 | SFD40 | SFD44 | SFD21 | SFD24 | SFD35 | SFD40 | SFD44 | SFD21 | SFD24 | SFD35 | SFD40 | SFD44 |
| 3" Perforated Front Door | — | MPFD24-3 | MPFD35-3 | — | — | — | MPFD24-3 | MPFD35-3 | — | — | — | MPFD24-3 | MPFD35-3 | — | — |
| Solid Top Panel | SPR6 | SPR6 | SPR6 | SPR6 | SPR6 | SPR6 | SPR6 | SPR6 | SPR6 | SPR6 | SPR6 | SPR6 | SPR6 | SPR6 | SPR6 |
| Perforated Top Panel | PPR6 | PPR6 | PPR6 | PPR6 | PPR6 | PPR6 | PPR6 | PPR6 | PPR6 | PPR6 | PPR6 | PPR6 | PPR6 | PPR6 | PPR6 |
| Fan Panel | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 | EFT6-4 |
| Caster Kit | CT1020-962 | CT1020-962 | CT1020-962 | CT1020-962 | CT1020-962 | RCK-25 | RCK-25 | RCK-25 | RCK-25 | RCK-25 | RCK-30 | RCK-30 | RCK-30 | RCK-30 | RCK-30 |
| Rack Rails | RR21 | RR24 | RR35 | RR40 | RR44 | RR21 | RR24 | RR35 | RR40 | RR44 | RR21 | RR24 | RR35 | RR40 | RR44 |

| | 307-12 | 310-12 | 312-12 | 316-12 | 324-12 | 310-15 | 312-15 | 316-15 | 324-15 | 335-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| Width (Outside) | 20.625" (524mm) | 20.625" (524mm) | 20.625" (524mm) | 20.625" (524mm) | 20.625" (524mm) | 20.625" (524mm) | 20.625" (524mm) | 20.625" (524mm) | 20.625" (524mm) | 20.625" (524mm) |
| Height (Outside) | 15.5" (393mm) | 20.5" (521mm) | 24" (610mm) | 31" (787mm) | 45" (1143mm) | 20.5" (521mm) | 24" (610mm) | 31" (787mm) | 45 (1143mm) | 64.5 (1638mm) |
| Depth (Outside) | 18.5" (470mm) | 18.5" (470mm) | 18.5" (470mm) | 18.5" (470mm) | 18.5" (470mm) | 21.5" (546mm) | 21.5" (546mm) | 21.5" (546mm) | 21.5" (546mm) | 21.5" (546mm) |
| Panel Space | 12.25" (7RU) | 17.5" (10RU) | 21" (12RU) | 28.125" (16RU) | 42.125" (24RU) | 17.5" (10RU) | 21" (12RU) | 28.125" (16RU) | 42.125" (24RU) | 61" (35RU) |
| Usable Depth | 12" (305mm) | 12" (305mm) | 12" (305mm) | 12" (305mm) | 12" (305mm) | 15" (381mm) | 15" (381mm) | 15" (381mm) | 15" (381mm) | 15" (381mm) |
| **Optional Accessories** | | | | | | | | | | |
| Support Wheel | CT31A | CT31A | CT31A | CT31A | CT31A | CT31A | CT31A | CT31A | CT31A | CT31A |
| Rear Rack Rails | — | RR310 | RR312 | RR316 | RR324 | RR310 | RR312 | RR316 | RR324 | RR335 |

| | WMA10-23 | WMA12-23 | WMA16-23 | WMA24-23 | WMA35-23 |
|---|---|---|---|---|---|
| **Width (Outside)** | 21.875" (555.63mm) | 21.875" (555.63mm) | 21.875" (555.63mm) | 21.875" (555.63mm) | 21.875" (555.63mm) |
| **Height (Outside)** | 23.125" (587.38mm) | 26.625" (676.28mm) | 33.75" (857.25mm) | 47.75" (1212.85mm) | 67" (1701.8mm) |
| **Depth (Outside)** | 23.53"(597.66mm) | 23.53"(597.66mm) | 23.53"(597.66mm) | 23.53"(597.66mm) | 23.53"(597.66mm) |
| **Panel Space** | 17.5" (10RU) | 21" (12RU) | 28.125" (16RU) | 42.125" (24RU) | 61" (35RU) |
| **Usable Depth** | 18" (457.2mm) | 18" (457.2mm) | 18" (457.2mm) | 18" (457.2mm) | 18" (457.2mm) |
| **Top Panel Opening** | 3RU 5.25" (89mm) | 3RU 5.25" (89mm) | 3RU 5.25" (89mm) | 3RU 5.25" (89mm) | 3RU 5.25" (89mm) |
| **Optional Accessories** | | | | | |
| **1" Plexiglass Front Door** | PFD10 | PFD12 | PFD16 | PFD24 | PFD35 |
| **1" Perforated Front Door** | MPFD10 | MPFD12 | MPFD16 | MPFD24 | MPFD35 |
| **1" Solid Front Door** | SFD10 | SFD12 | SFD16 | SFD24 | SFD35 |
| **3" Perforated Door** | MPFD10-3 | MPFD12-3 | MPFD16-3 | MPFD24-3 | MPFD35-3 |
| **Solid Top Panel** | SPR3 | SPR3 | SPR3 | SPR3 | SPR3 |
| **Perforated Top Panel** | PPR3 | PPR3 | PPR3 | PPR3 | PPR3 |
| **Fan Panel** | EFP3-1, EFP3-2 | EFP3-1, EFP3-2 | EFP3-1, EFP3-2 | EFP3-1, EFP3-2 | EFP3-1, EFP3-2 |
| **Rear Rack Rails** | WMA-RR10 | WMA-RR12 | WMA-RR14 | WMA-RR24 | WMA-RR35 |

| Model | Rack Unit | Panel Opening | Height with Casters | Width | Depth | Optional Rear Rails | Optional Front Doors |
|---|---|---|---|---|---|---|---|
| **RX14-25** | 14RU | 24⅝"(622.3mm) | 33⁹⁄₁₆" (853mm) | 22⁵⁄₁₆" (567mm) | 25½" (648mm) | RR14 | SFD14, PFD14, MPFD14 |
| **RX14-30** | 14RU | 24⅝"(622.3mm) | 33⁹⁄₁₆" (853mm) | 22⁵⁄₁₆" (567mm) | 30" (762mm) | RR14 | SFD14, PFD14, MPFD14 |
| **RX21-25** | 21RU | 30⅞"(933.5mm) | 45¹³⁄₁₆" (1164mm) | 22⁵⁄₁₆" (567mm) | 25½" (648mm) | RR21 | SFD21, PFD21, MPFD21 |
| **RX21-30** | 21RU | 30⅞"(933.5mm) | | 22⁵⁄₁₆" (567mm) | 30" (762mm) | RR21 | SFD21, PFD21, MPFD21 |
| **RX14-25-SFD** | 14RU | 24⅝"(622.3mm) | 33⁹⁄₁₆"(853mm) | 22⁵⁄₁₆" (567mm) | 25½" (648mm) | RR14 | SFD14 Included |
| **RX14-30-SFD** | 14RU | 24⅝"(622.3mm) | 33⁹⁄₁₆"(853mm) | 22⁵⁄₁₆" (567mm) | 30" (762mm) | RR14 | SFD14 Included |
| **RX21-25-SFD** | 21RU | 30⅞"(933.5mm) | | 22⁵⁄₁₆" (567mm) | 25½" (648mm) | RR21 | SFD21 Included |
| **RX21-30-SFD** | 21RU | 30⅞"(933.5mm) | | 22⁵⁄₁₆" (567mm) | 30" (762mm) | RR21 | SFD21 Included |

| Model | Rack Unit | Panel Opening | Cabinet Width | Height | Depth | Optional Front Door |
|---|---|---|---|---|---|---|
| **407-15** | 7RU | 12⅜" | 22⅛" | 15½" | 15⅜" | SFD407 |
| **410-15** | 10RU | 17⅝" | 22⅛" | 20¾" | 15⅜" | SFD410 |
| **412-15** | 12RU | 21⅝" | 22⅛" | 24¼" | 15⅜" | SFD412 |
| **414-15** | 14RU | 24⅝" | 22⅛" | 27¾" | 15⅜" | SFD414 |
| **418-15** | 18RU | 31⅝" | 22⅛" | 27¾" | 15⅜" | SFD416 |

| Model | Overall Height | Racking Height | Overall Depth | Overall Width |
|---|---|---|---|---|
| **RKW12-18** | 22.5" (572mm) | 12RU (21" 533mm) | 18" (457mm) | 20.46" (520mm) |
| **RKW16-18** | 29.5" (749mm) | 16RU (28" 711mm) | 18" (457mm) | 20.46" (520mm) |

Specifications

| Basic Frame | As Offered | | With Member Removed | | Height | Depth | Width | | |
|---|---|---|---|---|---|---|---|---|---|
| | RU | Panel Space | RU | Panel Space | | | | | |
| 912-18 | 11RU | 19.25" (489mm) | 12RU | 21" (533mm) | 23³⁄₁₆" (589mm) | 18" (457mm) | 19¼" (489mm) | | |
| 916-18 | 15RU | 26¼" (667mm) | 16RU | 28" (711mm) | 30" (762mm) | 18" (457mm) | 19¼" (489mm) | | |

| Stacked Frame Combinations | Total RU | Total Panel Space | Overall Height | Depth | Width | | | | |
|---|---|---|---|---|---|---|---|---|---|
| (2) 912-18 | 24RU | 42" (1067mm) | 46⅜" (1178mm) | 18" (457mm) | 19¼" (489mm) | | | | |
| (1) 912-18, (1) 916-18 | 28RU | 49" (1245mm) | 53³⁄₁₆" (1351mm) | 18" (457mm) | 19¼" (489mm) | | | | |
| (2) 916-18 | 32RU | 56" (1422mm) | 59¾" (1518mm) | 18" (457mm) | 19¼" (489mm) | | | | |
| (3) 912-18 | 36RU | 63" (1600mm) | 69⁹⁄₁₆" (1767mm) | 18" (457mm) | 19¼" (489mm) | | | | |
| (2) 912-18, (1) 916-18 | 40RU | 70" (1778mm) | 76⅜" (1940mm) | 18" (457mm) | 19¼" (489mm) | | | | |
| (1) 912-18, (2) 916-18 | 44RU | 77" (1956mm) | 83³⁄₁₆" (2113mm) | 18" (457mm) | 19¼" (489mm) | | | | |

| Model | RU | Useable Depth | Height | Width | Depth | | | | |
|---|---|---|---|---|---|---|---|---|---|
| AWR2W | 2RU | Top RU: 20" (508mm) Bottom RU: 17.25" (438.1mm) | 34" (863.6mm) | 27" (685.8mm) | 4.8" (121.2mm) | | | | |
| AWR3W | 3RU | Top Two RU: 20" (508mm) Bottom RU: 17.25" (438.1mm) | 34" (863.6mm) | 27" (685.8mm) | 6.55" 166.9mm) | | | | |

| Model | RU | Useable Depth | Height | Width | Depth | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 607-15 | 7RU | 14¾" (375mm) | 15½" (394mm) | 22⁵⁄₁₆" (563mm) | 15⅜" (391mm) | | | | |

| Model | Material | Dimensions | Mounts (Top or Bottom Opening) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ISOPANEL | Polymer | 19" Width x 6" Height | 100, 200, & 500 Series | | | | | | |

| Series Description | 1RU 1.75" | 2RU 3.5" | 3RU 5.25" | 4RU 7" | 5RU 8.75" | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Security Panels | SEC1 | SEC2 | SEC3 | — | — | | | | |
| Solid Economy | CB1 | CB2 | CB3 | CB4 | — | | | | |
| Solid - Recessed | SPR1 | SPR2 | SPR3 | SPR4 | SPR5 | | | | |
| Solid - Flush | — | SPF2 | — | — | — | | | | |
| Perforated - Recessed | PPR1 | PPR2 | PPR3 | PPR4 | PPR5 | | | | |
| Perforated - Flush | — | PPF2 | — | — | — | | | | |

| Series Description | 6RU 10.5" | 7RU 12.25" | 8RU 14" | 12RU 21" | 14RU 24.5" | 18RU 31.5 | | | |
|---|---|---|---|---|---|---|---|---|---|
| Security Panels | — | — | — | — | — | — | | | |
| Solid Economy | — | — | — | — | — | — | | | |
| Solid - Recessed | SPR6 | SPR7 | SPR8 | — | — | — | | | |
| Solid - Flush | — | — | — | TPS-25 | TPS-30 | TPS-36 | | | |
| Perforated - Recessed | PPR6 | PPR7 | — | — | — | — | | | |
| Perforated - Flush | — | — | — | TPP-25 | TPP-30 | TPP-36 | | | |

| Model | Rack Unit | Panel Space | Installation Depth | Drawer Extension | Optional Rear Support Bracket | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SD2-14 | 2RU | 3½" (89mm) | 14¹³⁄₃₂" (376mm) | 14" (356mm) | SHRSB2 | | | | |
| SD3-14 | 3RU | 5¼" (133mm) | 14¹³⁄₃₂" (376mm) | 14" (356mm) | SHRSB3 | | | | |
| SD4-14 | 4RU | 7" (177.8mm) | 14¹³⁄₃₂" (376mm) | 14" (356mm) | SHRSB4 | | | | |
| SD6-14 | 6RU | 10½" (267mm) | 14¹³⁄₃₂" (376mm) | 14" (356mm) | — | | | | |

| Model | Rack Unit | Panel Space | Width | Depth | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CD4 | 3RU | 5¼" (133mm) | 17½" (444.5mm) | 5⁵⁄₁₆" (134.9mm) | | | | | |

| Model | Description |
|---|---|
| SH2-15 | 2RU 15" Deep Rack Shelf |
| SH3-15 | 3RU 15" Deep Rack Shelf |
| SH4-15 | 4RU 15" Deep Rack Shelf |
| SH2-22 | 2RU 22" Deep Rack Shelf |
| SH3-22 | 3RU 22" Deep Rack Shelf |
| SH4-22 | 4RU 22" Deep Rack Shelf |
| SHRSB2 | Optional 2RU Rear Support Bracket For SH2-15 & SH2-22 |
| SHRSB3 | Optional 3RU Rear Support Bracket For SH3-15 & SH3-22 |
| SHRSB4 | Optional 4RU Rear Support Bracket For SH4-15 & SH4-22 |
| SH-CK | Optional Clamping Kit For All Models |

| Model | Rack Unit | Panel Space | Width | Depth |
|---|---|---|---|---|
| SH1-10 | 1RU | 1¾" (44mm) | 17½" (445mm) | 10" (254mm) |

| Model | Rack Unit | Panel Space | Height | Width | Depth |
|---|---|---|---|---|---|
| WS2-12 | 2RU | 3½" (88.9mm) | 3⁷⁄₁₆" (80mm) | 12" (305mm) | 17½" (445mm) |

| Model | Rack Unit | Panel Space | Width | Depth | Drawer Extension | Mounts | | |
|---|---|---|---|---|---|---|---|---|
| PCD3-16-052 | 2RU | 3½" (88.9mm) | 16⁵⁄₁₆"(414mm) | 16¹³⁄₃₂" (419mm) | 16" (406mm) | 19" Width (Panel Space) Cabinets Except 300, 400, & 600 Series | | |

| Model | UL | Rack Unit | Panel Space | Width | Depth | Mounts | |
|---|---|---|---|---|---|---|---|
| VTD1-16 | 1678 | 1RU | 1¾" (44mm) | Tray: 16½" (419mm) Shelf: 16¾" (425mm) | 16" (406mm) | 19" Width (Panel Space) Cabinets (18½" to 25½" Depth) | |

| Model | Shelves | Width | Depth |
|---|---|---|---|
| WME150-592 | 2 | 21" (533mm) | 16.45" (418mm) |

| Model | Height | Width | Depth | Mounts |
|---|---|---|---|---|
| AS-120-592 | 10" (254mm) | 20" (508mm) | 12½" (318mm) | Wall Surface |
| AS-140-592 | 12⅜" (314mm) | 20" (508mm) | 17" (432mm) | Wall Surface |

| Model | Description | Mounts |
|---|---|---|
| RSCW100 | 100 Piece Black Rack Screw Bag 10-32 x ¾" w/ Captive Plastic Washer | All Cabinets |
| RSCW500 | 500 Piece Black Rack Screw "Bag In A Box" 10-32 x ¾" w/ Captive Plastic Washer | All Cabinets |
| HK-40 | 40 Chrome Rack Screw Bag 10-32 x 1" w/ Captive Washer | All Cabinets |
| HK-40CN | 40 Piece Clip-On Cage Nuts | FMA Series Top Sections Only |

| Model | Length |
|---|---|
| BBG13 | 13RU (22¾", 577mm) |
| BBG21 | 21RU (36¾", 933mm) |
| BBG24 | 24RU (42", 1067mm) |
| BBG35 | 35RU (61¼", 1557mm) |
| BBG40 | 40RU (70", 1778mm) |
| BBG44 | 44RU (77", 1957mm)) |

| Model | Color |
|---|---|
| SP962 | Midnight Black |
| SP052 | Ebony Black |

Specifications

| Model | Dimensions | | | Load Capacity | Mounts | | |
|---|---|---|---|---|---|---|---|
| | H (Add To Rack) | Length | Width | | | | |
| RCK-700 | 3¾" (92.25mm) | — | — | 1020 lbs total (462.7 kg) | 700 Series | | |
| CT1020-962 | 4" (102mm) | 24⁹⁄₁₆" (624mm) | 20¹³⁄₁₆" (529mm) | 400 lbs total (181 kg) | 18½' Depth 100 & 200 Series | | |
| RCK-18 | 3¾" (92.25mm) | 18½" (470mm) | 4" (101.6mm) | 1020 lbs total (462.7 kg) | 18½" Deep 100 & 200 Series | | |
| RCK-25 | 3¾" (92.25mm) | 25½" (648mm) | 4" (101.6mm) | 1020 lbs total (462.7 kg) | 25½" Deep 200 & 500 Series | | |
| RCK-30 | 3¾" (92.25mm) | 30" (762mm) | 4" (101.6mm) | 1020 lbs total (462.7 kg) | 30" Deep 200 & 500 Series | | |

| Model | Thread Type | Thread Length | Mounts | | | |
|---|---|---|---|---|---|---|
| LL-2 | ⅜"-16 | 3" (76.2mm) | FMA, 700, 500 | | | |

| Model | Mounts Cabinet Series |
|---|---|
| RR14 | RX14 |
| RR21 | 200, 500 Series, & RX21 |
| RR24 | 200 & 500 Series |
| RR35 | 200 & 500 Series |
| RR40 | 200 & 500 Series |
| RR44 | 200 & 500 Series |

| Model | Pullout Lights | Panel & SwitchRating | Outlets Switched | Outlets Unswitched | RU | Width | Height | Depth |
|---|---|---|---|---|---|---|---|---|
| ACRL-191B | None | 15 amps each | 6 | 3 | 1RU | 19" (483mm) | 1.75" (44mm) | 3.75" (95mm) |
| ACRL-291 | 1 Front / 1 Rear | 15 amps each | 8 | 1 | 1RU | 19" (483mm) | 1.75" (44mm) | 6.25" (157mm) |

| Model | Height | Width | Depth | | | | |
|---|---|---|---|---|---|---|---|
| RWL-2 | 4¾" (121mm) | 3³⁄₁₆" (81mm) | 2¾" (70mm) | | | | |

| Model | Rack Unit | Channels | Input Types | Meter Sensitivity | Power Requirements | Height | Width | Depth |
|---|---|---|---|---|---|---|---|---|
| MVXA-2016 | 1RU | 16 | Line Level (1V RMS), 25 V RMS, 70.7V RMS, 100V RMS | ±30dB | 6 watts 15VAC Power Supply Included | 1¾" (44mm) | 19" (483mm) | 9½" (241mm) |

| Model | Rack Unit | Channels | Speaker Size | V.U. Meter | Meter Adjust | Width | Height |
|---|---|---|---|---|---|---|---|
| MVX-193 | 2RU | 5 | 3" (76mm) | YES | YES | 19" (483mm) | 3½" (89mm) |
| MVX-195 | 3RU | 5 | 4" (FC104, 102mm)) | YES | YES | 19" (483mm) | 5¼" (133mm) |

| Model | Output Channels | Channel Time Delay | Output Power | Spdt Contact | Height | Width | Depth |
|---|---|---|---|---|---|---|---|
| SACR-191 | 6 | Adjustable 1-10 seconds | 24VDC (70 mA / ch) | 2 amps @ 28VDC 0.5 amp @ 120VAC | 1¾" (44mm) | 19" (483mm) | 4¾" (121mm) |

| Model | Duplex Outlets | Outlet Ranking | Relay Rating | Relay Coil Voltage | Manual Override | Height | Width | Depth |
|---|---|---|---|---|---|---|---|---|
| SACS-5 | 5 switched, 1 unswitched | 20 amps | 30 amps | 24VDC nominal 18VDC minimum | 5 switches | 37" (940mm) | 2¾" (70mm) | 2½" (64mm) |
| SACS-5F | 5 switched, 1 unswitched | 20 amps | 30 amps | 24VDC nominal 18VDC minimum | 5 switches | 37" (940mm) | 2¾" (70mm) | 2½" (64mm) |
| SACS-1 | 2 switched | 20 amps | 30 amps | 24VDC nominal, 18VDC minimum | 1 switch | 6⅜" (158mm) | 4½" (114mm) | 2½" (64mm) |
| SACS-1F | 2 switched | 20 amps | 30 amps | 24VDC nominal, 18VDC minimum | 1 switch | 6⅜" (158mm) | 4½" (114mm) | 2½" (64mm) |

| Model | UL | Outlets | Outlet Rating | Power Connection | Length | Width | Depth | Mounts Cabinets |
|---|---|---|---|---|---|---|---|---|
| ACS-1 | | 12 (6 Duplex) | 15 Amps | 6' Power Cord | 36¾" (933mm) | 2⅝" (67mm) | 1⅝" (41mm) | With P.O. greater than 21RU |
| ACS-1A | 5 | 12 (6 Duplex) | 15 Amps | 6" Pigtails | 36¾" (933mm) | 2⅝" (67mm) | 1⅝" (41mm) | With P.O. greater than 21RU |
| ACS-2A | 5 | 12 (6 Duplex) | 20 Amps | 6" Pigtails | 36¾" (933mm) | 2⅝" (67mm) | 1⅝" (41mm) | With P.O. greater than 21RU |
| RAC-5 | | 5 | 15 Amps | 6' Power Cord | 16⅛" (410mm) | 1½" (38mm) | 2" (51mm) | 24RU – 44RU: RX, 200, 500, 700, & FMA Series |
| RAC-5B | 5 | 5 | 15 Amps | 6' Power Cord | 16⅛" (410mm) | 1½" (38mm) | 2" (51mm) | 24RU – 44RU: RX, 200, 500, 700, & FMA Series |

| Model | UL | Outlets | Outlet Rating | Power Connection | Length | Width | Depth | Mounts Cabinets |
|---|---|---|---|---|---|---|---|---|
| RAC-9 | | 9 | 15 Amps | 6' Power Cord | 24¼" (615mm) | 1½" (38mm) | 2" (51mm) | 24RU – 44RU: RX, 200, 500, 700, & FMA Series |
| RAC-9B | | 9 | 15 Amps | 6' Power Cord | 24¼" (615mm) | 1½" (38mm) | 2" (51mm) | 24RU – 44RU: RX, 200, 500, 700, & FMA Series |

| Model | Type | Lights | Outlets | RU | Height | Width | | |
|---|---|---|---|---|---|---|---|---|
| ECS-6RM | Sequencer / Distribution | Front/Rear plug for AP-GNL18 | — | 1 | 1¾" (44mm) | 19" (483mm) | | |
| ECS3 | Sequencer / Conditioner | Rear plug for AP-GNL18 | 9 Total | 1 | 1¾" (44mm) | 19" (483mm) | | |
| AP-C15D | Power Conditioner | Built in pull-out LED on front, Plug for AP-GNL18 on rear | 10 Total | 1 | 1¾" (44mm) | 19" (483mm) | | |
| AP-S15 | Conditioner / Distribution | N/A | 9 Total | 1 | 1¾" (44mm) | 19" (483mm) | | |
| AP-S15L | Conditioner / Distribution | Built in pull-out LED on front, Plug for AP-GNL18 on rear | 9 Total | 1 | 1¾" (44mm) | 19" (483mm) | | |

| Model | Type | Style | Panel & Switch Rating | Outlets | Height | Width | Depth | |
|---|---|---|---|---|---|---|---|---|
| ECM-20SH | Sequencer Module | Stand-Alone | 20 amps | 2 | 3" (76mm) | 8.5" (216mm) | 3.5" (89mm) | |
| ECM-15SH | Sequencer Module | Stand-Alone | 15 amps | 2 | 1¾"(45mm) | 8.5" (216mm) | 5" (127mm) | |
| ECM-20M | Conditioner / Suppressor Module | Raceway Module | 20 amps | 2 | 3" (76mm) | 8.5" (216mm) | 3.5" (89mm) | |
| ECM-20 | Conditioner / Suppressor Module | Raceway Module | 20 amps | 2 | 3" (76mm) | 8.5" (216mm) | 3.5" (89mm) | |

| Model | RU | Panel Style | Number Of Fans | CFM | SPL dBa @ 3' | Volts | Hz | Power Amps | Watts |
|---|---|---|---|---|---|---|---|---|---|
| EFP3-1 | 3RU | Flush | 1 | 115 | 37dB | 115VAC | 60 | .125 | 15 |
| EFP3-2 | 3RU | Flush | 2 | 230 | 40dB | 115VAC | 60 | .125 | 15 |
| FKT-1 | Snap-On Re-Usable Fan Filter Kit | | | | | | | | |

| Model | Panel Space | Panel Style | Height | Width | Projection | CFM | SPL dBa @ 3' | Volts AC | Power |
|---|---|---|---|---|---|---|---|---|---|
| EFT6-4 | 6RU | Top Mounting | 19" (483mm) | 10½"(254mm) | 3½"(89mm) | 460 CFM | 43dB | 115VAC, 60Hz | .5 Amps @ 60 Watts |
| EFT-25 | 12RU | Top Mounting | 19" (483mm) | 21" (533mm) | 3½"(89mm) | 550 CFM | 50.8dB | 115VAC, 60Hz | .53 Amps @ 61 Watts |
| EFT-30 | 14RU | Top Mounting | 19" (483mm) | 24½" (622mm) | 3½"(89mm) | 550 CFM | 50.8dB | 115VAC, 60Hz | .53 Amps @ 61 Watts |
| EFT-36 | 16RU | Top Mounting | 19" (483mm) | 28" (711mm) | 3½"(89mm) | 550 CFM | 50.8dB | 115VAC, 60Hz | .53 Amps @ 61 Watts |

| Model | RU | Panel Space | Panel Style | Number of Fans | CFM Total | SPL dBa @ 3' | Volts | Power |
|---|---|---|---|---|---|---|---|---|
| BP3 | 3RU | 5¼" (133mm) | Flush | 2 | 320 CFM | 59.5dB | 115VAC, 60Hz | .40 Amps @ 44 Watts |
| FLT195-320 | Replacement Filter | | | | | | | |

| Model | Height Span | Base Size | Tube Finish | Base Finish |
|---|---|---|---|---|
| MS-10C | 35"-63" (889mm – 1600mm) | 10" (254mm) Diameter | Chrome | Ebony |
| MS-10CE | 35"-63" (889mm – 1600mm) | 10" (254mm) Diameter | Ebony | Ebony |
| MS-12C | 34"-62" (864mm – 1675mm) | 10" (254mm) Diameter | Chrome | Ebony |
| MS-12CE | 34"-62" (864mm – 1675mm) | 10" (254mm) Diameter | Ebony | Ebony |

Specifications

Atlas

| Model | | | | | | | |
|---|---|---|---|---|---|---|---|
| MS43E | 25"-65" (635mm – 1651mm) | 12" (305mm) Diameter | Ebony | Ebony | | | |
| MS20 | 37"-62½" (939mm – 1588mm) | 12" (305mm) Diameter | Chrome | Ebony | | | |
| MS20E | 37"-62½" (939mm – 1588mm) | 12" (305mm) Diameter | Ebony | Ebony | | | |
| MS25 | 37"-62½" (939mm – 1588mm) | 15" (381mm) Triangular | Chrome | Ebony w/Chrome Cover | | | |
| MS25E | 37"-62½" (939mm – 1588mm) | 15" (381mm) Triangular | Ebony | Ebony w/Chrome Cover | | | |

| Model | Tube Style | Tube Color | Stand Height | Boom Length | Storage Size | Base Spread |
|---|---|---|---|---|---|---|
| TE-E | Tripod Only | Satin Ebony | 37" - 65" (939mm – 1651mm) | — | 33¼" (845mm) | 28" (711mm) |
| TEB-E | Tripod w// Tele Boom | Satin Ebony | 37" - 65" (939mm – 1651mm) | 24" - 39" (609mm – 991mm) | 33¼" (845mm) | 28" (711mm) |

| Model | Tube Style | Stand Height | Boom Length | Boom Counterweight | Base Spread |
|---|---|---|---|---|---|
| SB11WE | Two-section (E) | 43" - 68" (109.2CM – 172.7CM) | 60" (152.4CM) | Adj., 2 lbs | 21" (533mm) |
| SB36W(E) | Two-section (E/C) | 49" - 73" (124.5CM – 185.4CM) | 62" (157.5CM) | Adj., 6 lbs | 21" (533mm) |

| Model | Height Span | Base Size | Tube Finish | Base Finish | |
|---|---|---|---|---|---|
| DMS7E | 8" - 13" (203mm – 330mm) | 10" Diameter (254mm) | Ebony | Ebony | |
| DMS7C | 8" - 13" (203mm – 330mm) | 10" Diameter (254mm) | Chrome | Ebony | |
| DMS10E | 14½" - 26¼" (362mm – 667mm) | 10" Diameter (254mm) | Ebony | Ebony | |
| DMS10C | 14½" - 26¼" (362mm – 667mm) | 10" Diameter (254mm) | Chrome | Ebony | |

| Model | Height Span | Base Size | Tube Finish | Base Finish | Base Style |
|---|---|---|---|---|---|
| SMS5B | 33" - 60½" (838mm – 1538mm) | 10" Diameter (254mm) | Ebony | Ebony | Stackable |

| Model | Length | Tube Finish | Swivel | Counterweight |
|---|---|---|---|---|
| PB11XCH | 16¼" – 24½" (413mm – 622mm) | Chrome Plated | Threaded ⅝" -27 Female Mount | Adjustable 2 lbs |
| PB11XEB | 16¼" – 24½" (413mm – 622mm) | Ebony Epoxy | Threaded ⅝" -27 Female Mount | Adjustable 2 lbs |
| PB15CH | 34" (864mm) | Chrome Plated | Threaded ⅝" -27 Female Mount | Adjustable 2 lbs |
| PB15EB | 34" (864mm) | Ebony Epoxy | Threaded ⅝" -27 Female Mount | Adjustable 2 lbs |
| PB21XCH | 25¼" – 38½" (641mm – 978mm) | Chrome Plated | Threaded ⅝" -27 Female Mount | Adjustable 2 lbs |
| PB21XEB | 25¼" – 38½" (641mm – 978mm) | Ebony Epoxy | Threaded ⅝" -27 Female Mount | Adjustable 2 lbs |

| Model | Length | Tube Finish | Swivel | Counterweight |
|---|---|---|---|---|
| BE-E | 24" - 39" (610mm – 991mm) | Satin Ebony | Threaded ⅝" -27 | None |

| Model | Base Size | Height Span | Base Style | Tube Finish | Base Finish |
|---|---|---|---|---|---|
| SS500E | 50" Diameter (127CM) | 54" -85" (137.2CM – 215.9CM) | Tripod | Satin Ebony | Satin Ebony |

| Model | Base Style | Mounts Tube Size | Mounts Stand Model |
|---|---|---|---|
| SSA7 | Universal Platform Mount | 1⅜" Diameter (34mm) | SS500E |

| Model | Height Span | Base Size | Base Style | Tube Finish | Base Finish |
|---|---|---|---|---|---|
| DS2 | 4" (102mm) | 4" Square (102mm) | Cast Zinc | Chrome | Ebony |
| DS5 | 5" (127mm) | 6" Diameter (152mm) | Cast Iron | Chrome | Ebony |
| DS5E | 5" (127mm) | 6" Diameter (152mm) | Cast Iron | Ebony | Ebony |
| DS7 | 8" - 13" (203mm–330mm) | 6" Diameter (152mm) | Cast Iron | Chrome | Ebony |
| DS7E | 8" - 13" (203mm–330mm) | 6" Diameter (152mm) | Cast Iron | Ebony | Ebony |
| DS14 | 3" (76mm) | Wishbone | Cast Iron | Chrome | Ebony |

| Model | Description |
|---|---|
| AD-4B | ¾" long, ⅝" -27 male running thread; brass, no plating |
| AD-5B | ⅝" -27 female to ⅝" -27 female coupling; chrome plated |
| AD-6B | ⅞" female to ⅞" -27 female coupling; chrome plated |

| Model | Description |
|---|---|
| AD-11B(E) | ⅝" long, ⅝" -27 female flange with 1¾ base diameter; chrome or ebony (E) |
| AD-12B(E) | ⅝" long, ⅝" -27 male flange with 1¾ base diameter; chrome or ebony (E) |

| Model | Description |
|---|---|
| AD-5B | ⅝" -27 male flange with base holes on 1¼" centers; chrome or ebony (E) |

| Model | Description |
|---|---|
| AD-7B | 3" (76mm) long tube with ⅝" - 27 male at each end; chrome plated |
| AD-8B | 6" (152mm) long tube with ⅝" - 27 male at each end; chrome plated |
| AD14B(E) | Right angle tube with ⅝" - 27 male and female end; chrome plated; 4" (102mm) Height x 4" (102mm) Extension |
| AD19B(E) | 45˚ angle tube with ⅝" - 27 male and female end; chrome plated; 6" (152mm) Height x 3" (76mm) Extension |

| Model | Description |
|---|---|
| MSC-K | Replacement Clutch Kit for ⅞" MS & DS Series – Chrome |
| MSCE-K | Replacement Clutch Kit for ⅞" MS & DS Series – Ebony |
| MSC | Complete Replacement Tube for MS-10C / MS-12C – Chrome |
| MSCE | Complete Replacement Tube for MS-10CE / MS-12CE – Ebony |
| MS2025T | Complete Replacement Tube For MS20 / MS25 – Chrome |
| MS2025TE | Complete Replacement Tube for MS20E / MS25E — Ebony |
| MS-20 B | Replacement base for MS20 |
| MS20-K | Replacement Clutch Kit for MS20 / MS25 Series – Chrome |
| MS20E-K | Replacement Clutch Kit for MS20E / MS25E Series – Ebony |
| MS2XTA | Replacement ⅞" - ⅝" Top Adapter for MS20 / MS25 – Chrome |
| MS2XTAE | Replacement ⅞" - ⅝" Top Adapter for MS20E / MS25E – Ebony |
| PBB-K | Replacement Boom Swivel Assembly for SB36 – Ebony |

| Model | Description |
|---|---|
| SB36CSTR | Replacement Caster Kit for SB36W (E) – Post 2004 |
| SB36WGHT | Replacement Counterweight for SB36W (E) |
| PB25WGHT | Replacement Counterweight for PB11, PB15, PB21, & SB11WE |
| XX4707700 | Replacement Mic Swivel for SB36W (E) |
| LR58E-25 | Replacement ⅝" Lock Rings – Ebony –25 Piece Bag |
| LR58C-25 | Replacement ⅝" Lock Rings – Chrome –25 Piece Bag |
| MS1012RF-24 | Replacement Feet MS10 / MS12 – Pre 2003 – 24 Piece Bag |
| MS12BASE | Replacement Base for MS12 |
| XX8625000 | Replacement ⅝" Phenolic Clutch Rings |

| Model | Speaker Size / Type | Sensitivity | Frequency Response | Dispersion | Height | Width | Depth | |
|---|---|---|---|---|---|---|---|---|
| I8S | 8" (C10A) (203mm) | 94dB | 86Hz – 9kHz | 52.5° | 11½" (292.1mm) | 11½" (292.1mm) | 4¼" (106.9mm) | |
| I8SM | 8" (C10A) (203mm) | 94dB | 86Hz – 9kHz | 52.5° | 11½" (292.1mm) | 11½" (292.1mm) | 4¼" (106.9mm) | |
| I8SC | 8" (C10A) (203mm) | 94dB | 86Hz – 9kHz | 52.5° | 14⅜" (365.3mm) | 12⅞" (327.2mm) | 2.99" ( 75.6mm) | |
| I8SCM | 8" (C10A) (203mm) | 94dB | 86Hz – 9kHz | 52.5° | 11½" (292.1mm) | 11½" (292.1mm) | 4¼" (106.9mm) | |
| I128SYS | 8" (C10A) (203mm) | 94dB | 86Hz – 9kHz | 52.5° | 11½" (292.1mm) | 11½" (292.1mm) | 4¼" (106.9mm) | |
| IHVP | 7" (APF-15)(178mm) | 104dB | 600Hz – 14kHz | 90° | 11½" (292.1mm) | 11½" (292.1mm) | 4¼" (106.9mm) | |

| Model | Surface Mount Enclosure – Angled | Surface Mount Enclosure – Straight | Flush Mount Enclosure – Straight | | | |
|---|---|---|---|---|---|---|
| I8S | SEA-I8S | SEST-I8S | FEST-I8S | | | |
| I8SM | SEA-I8S | SEST-I8S | FEST-I8S | | | |
| I8SC | SEA-I8SC | SEST-I8SC | FEST-I8SC | | | |
| I8SCM | SEA-I8SC | SEST-I8SC | FEST-I8SC | | | |
| I128SYS | — | — | — | | | |

Index

Index

# Atlas Technologies ®

## Atlas Sound

1601 Jack McKay Blvd.
Ennis, Texas 75119 U.S.A.

Telephone: 800.876.3333
Fax: 800.765.3435

AtlasSound.com