



Atlas Technologies



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Loyd Ivey

**President / CEO
Mitek Corp**

Atlas Moving Forward...



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:



- 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.



Classroom Security & Sound Reinforcement System..... 4



In-Ceiling Cone Loudspeakers, Strategy Series [®] II Systems, & Subwoofers	6
Surface Mount Speakers.....	11
Pendant Mount Speaker Systems	14
PM Series.....	14
Outdoor Garden / Landscape Speakers	15
Strategy One Series [®]	16
Loudspeakers, Grilles, & Enclosures	19
Cone Loudspeakers & Systems	23
1' x 2' Drop-In Ceiling Speaker	24
Constant-Voltage Transformers	25
Cone Loudspeaker Systems.....	26
In-Wall and In-Ceiling Cone Loudspeaker Systems, & Subwoofers.....	28
A-Bus Distribution System	29
Horns & Compression Drivers	38
Transformers and Adapters	39
Baffles, Enclosures, & Mounting Rings.....	49
Baffle & Enclosure Mounting Accessories.....	52
Fire Rated Cone Loudspeaker Systems	53
Attenuators.....	

Speaker Switching Systems	55
Wall Plates.....	55
Microphone Floor Boxes	56
Hardware Accessories.....	57
Replacement Speaker Parts.....	58
IR Repeaters & Flashers.....	59
Priority page Relay Controller	60
Strategy Series [®] Amplifiers	67
Standard & High-Power Sirens	68
Emergency Loudspeakers	69
Emergency Loudspeaker Accessories.....	70
Single and Dual Voice Coil Emergency Loudspeakers ..	71
Vandal-Proof Intercom Stations.....	72
Telephone Intercom System	73
Graphic Equalizer	74
Sound Masking Generator / Digital Signal Processor ..	76
Sound Masking Loudspeakers.....	77
Security Masking Speakers / Generators	78
ControlKom [®]	19
IP Speakers & Zone Controllers	80
Varizone [®]	



Floor Racks	82
Wall Mount Racks	94
Portable Racks	96
Desktop and Stand-Alone Racks.....	97
Tilt-Out Racks & Stackable Utility Frames.....	98

Rack Panels	99
Rack Accessories.....	100
Rack Mount Keyboard / Monitor / Mouse.....	106
MMK Series Accessories.....	107



Power Conditioner & Sequencer	108
Power Conditioner	110
AC Power Panels.....	112

AC Outlet Strips & Sequential Switch Systems	113
Power Supply Units.....	114
Relay Packs.....	115



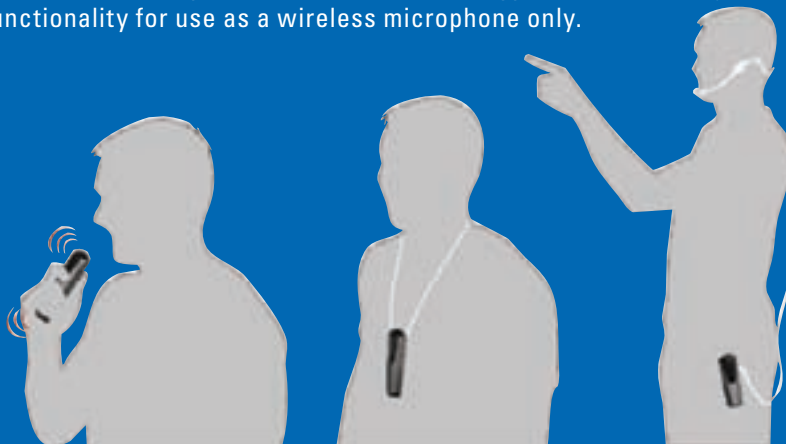
Microphone Stands.....	116
Microphone Stand Accessories	120
Studio Boom Stands	121
Microphone Stands.....	121

Heavy Duty Stand & Accessories	124
Mic Stand Accessories	125
Microphone Stand Accessories	125
Microphone Stand Replacement & Service Parts.....	126

Specifications.....	127
Index.....	158

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.



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.

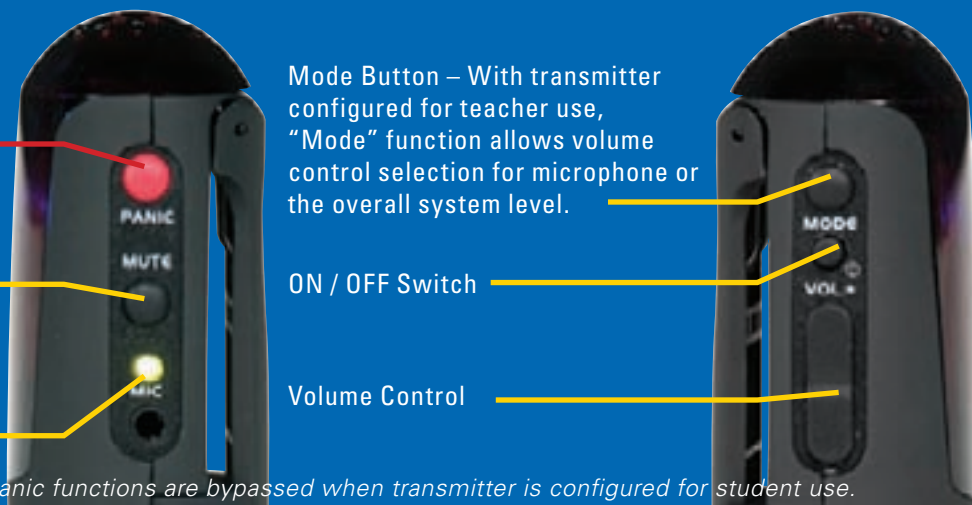
Power Indicator LED
Green = On, Red = Low Battery

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.



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 (8Ω, 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



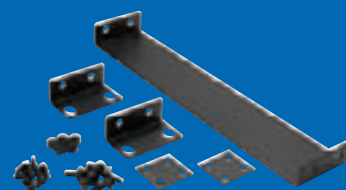
Microphone Charging Station

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.





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 8Ω 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**



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

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.



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 8Ω 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

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.



FAP40T



FAP40T Installed



FAP40T Installed

FAP40T

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 8Ω 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.



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 in³ 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 8Ω 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 933in³, 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 70.7/100V 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 8Ω direct coupling.



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 1/4"-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 & cafeteriums, 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 1/4"-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

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 1/4"-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 1/4"-20 Inserts, Providing Fly Points for a Variety of Mounting Configurations
- Internal High Efficiency 60W 70.7/100V 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

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 Frequency 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.

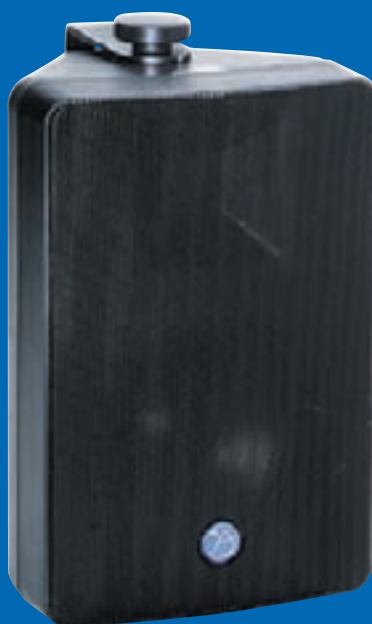


SMBALLMOUNT-W



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 8 ohm 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 5 1/4" 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 8 ohm 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 8 ohm 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 8 ohm 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 8Ω
- 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.



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 8Ω 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 3/4" 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.

Strategy Series® Garden & Landscape Speakers



ATS183GS

- 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).



ATS183GL

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.



ROCKFA62T-BR

Strategy Series® Rock Speaker

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.

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





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® 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

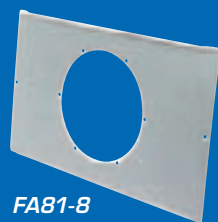
Strategy One Series® Grilles

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 25 $\frac{5}{8}$ " and accommodate $\frac{3}{8}$ "-1 $\frac{1}{4}$ " 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.





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

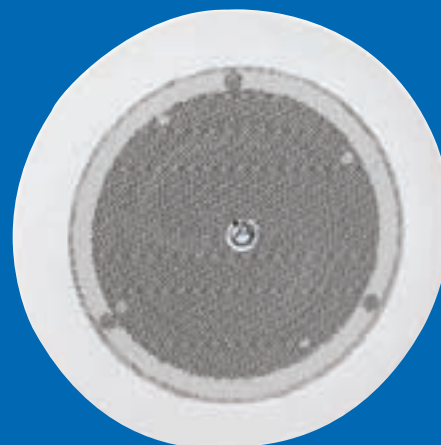
C10A: LT25, LT70, & LT72



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)



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 – 2ft²) 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

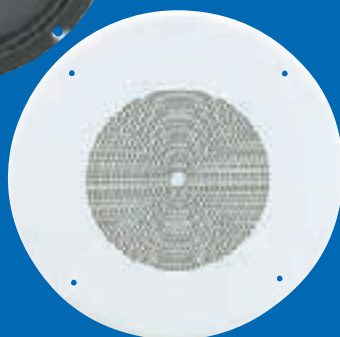
Use Atlas Sound's cost effective, 8" diameter, multi-purpose, loudspeaker packages for quality music reproduction or paging in any commercial, retail, industrial, or institutional application.



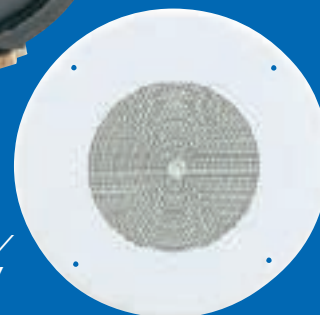
SD72



GD87



SD72WV

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 50Ω 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.

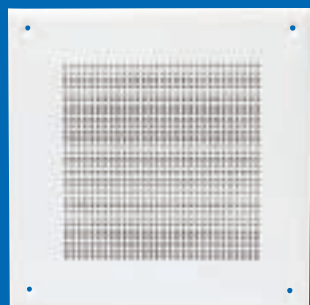
Note: EZ Series will not accept an enclosure. For installations that require a backbox, see EZ Mount enclosure system on page 61.



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

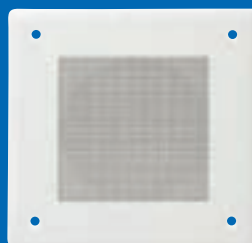
Quality loudspeaker packages for ceiling or wall installation include loudspeaker with 10 oz, D Series, or 5 oz, G Series, magnet and dual-voltage transformer.



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 8Ω.

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.



HT-327



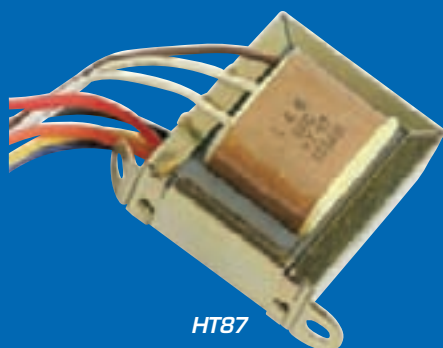
HT167



AF140



HT47



HT87



HT42

Constant-Voltage Transformers

25V, 70.7V, & 100V Transformers

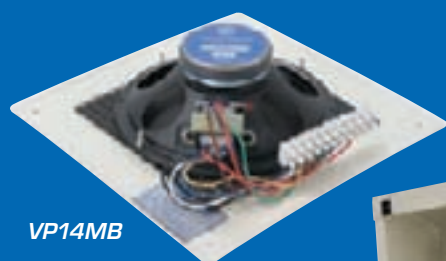
Selection of single voltage or combination use constant-voltage line transformers includes models for professional and commercial sound and for intercom (45Ω) applications. Transformers with 8 or 4Ω impedance mount standard 4" or 8" loudspeakers without additional hardware except Model HT167 which may 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

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.



WD417



SBMS

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. 1/2" thick) common to open-ceiling installations. The square SBMS package includes a 734in³ (.47m²) 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 1/2" and 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.

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

Flat Panel Loudspeakers

MPP4200

The 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."



SW1515

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.



ADZIC



ADZIW

Musica™ "Add-A-Zone" Kits

Designed to allow easy installation of in-wall or in-ceiling distributed 8Ω systems for small office or home systems using standard 8Ω 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.



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.



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.

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 8Ω.



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 6 1/2" system with dome tweeter. Unit is magnetically shielded. Sold as single units.



Assorted New Construction Rough-In Kits

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 $60^\circ \times 40^\circ (\pm 10^\circ)$ 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

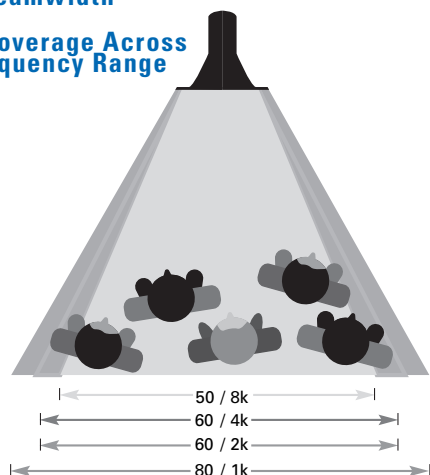
- Universal base mounts 1-gang, 2-gang or 4" sq. E.O. boxes.
- Includes 40 watts tap @ 70.7V/100V.

Predictability

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

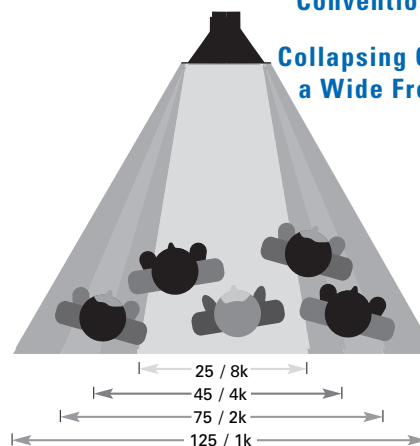
APX Beamwidth

Controlled Coverage Across a Wide Frequency Range



Conventional Beamwidth

Collapsing Coverage Across a Wide Frequency Range



* 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

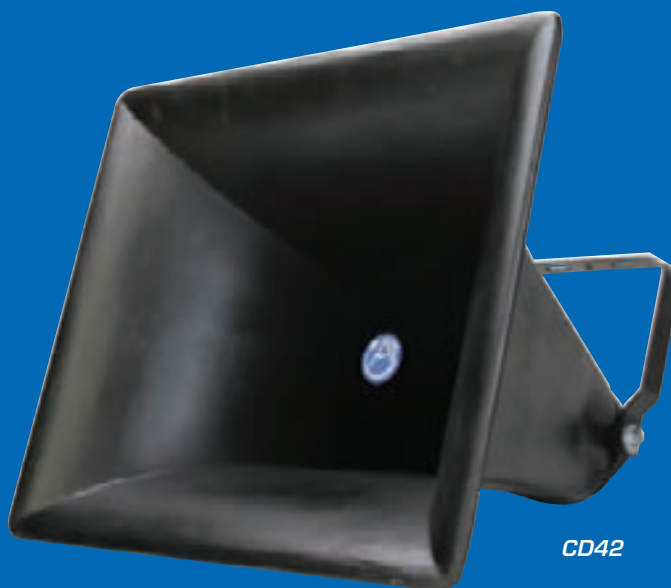
Horizontal Beamwidth: 60°, ±10°, 600Hz – 6 kHz

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

CD94

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

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



CD42



CD64



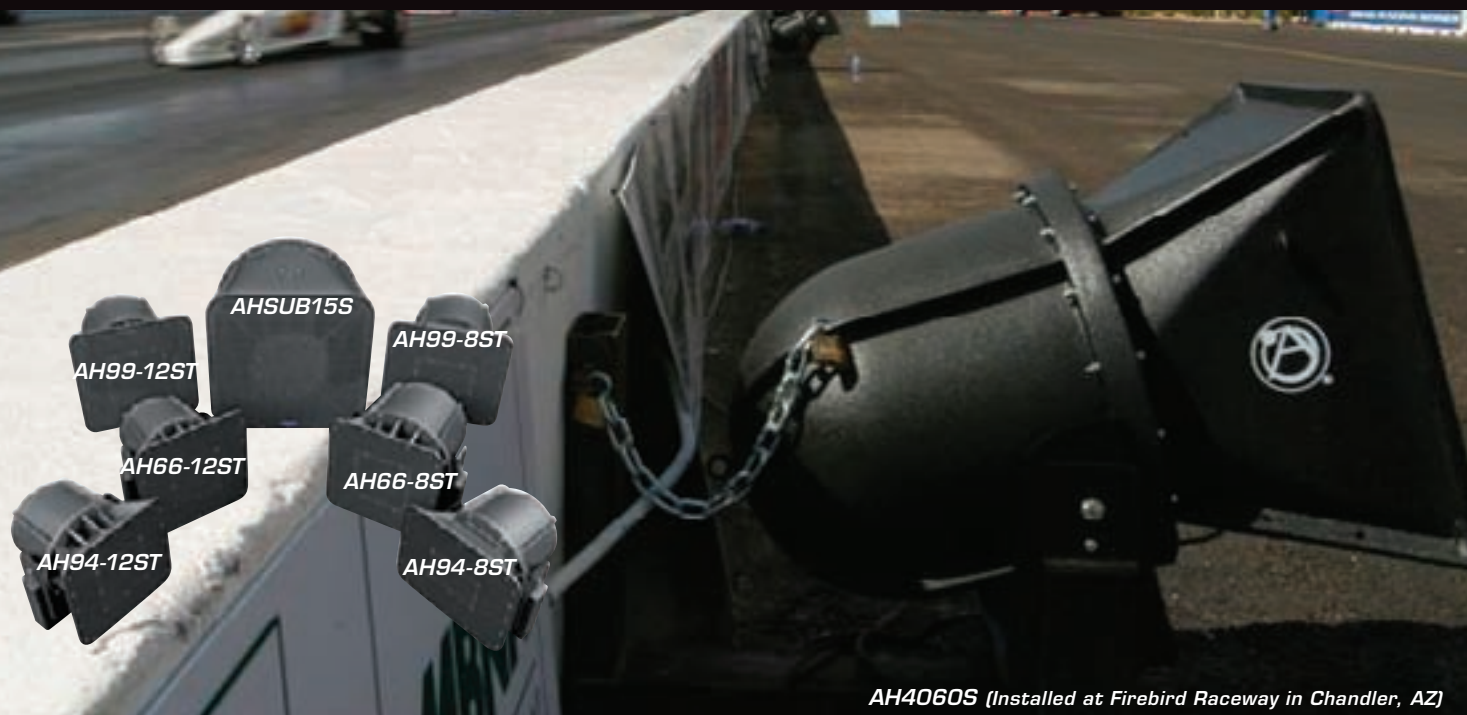
CD94

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.





AH4060S (Installed at Firebird Raceway in Chandler, AZ)

AH Series Stadium 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. (see page 44).

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 (±5 dB).

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 8 Ω 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.

**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. See page xx for specifications.

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 45Ω 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 8Ω 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 45Ω 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 45Ω 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

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-30T

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 (45Ω) 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

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



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 $\frac{1}{2}$ " conduit access and adjustable mounting bracket.

Model HLE/MLE-30 with a mounted driver measures 14" Width x 6" Height x 17 $\frac{1}{2}$ " Depth.

Model HLE/MLE-32 horn with a mounted driver is 16 $\frac{1}{2}$ " Diameter x 21 $\frac{1}{2}$ " 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.



BIA-100

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.



CJ-46

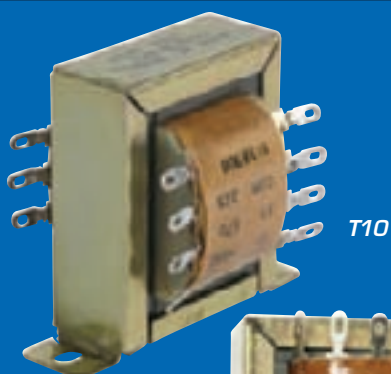
Horns for Uniform Directional Sound Projection

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.



DR-54



T10



T20



T18

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 35).

T10 15 Watt Transformer

Primary: 8K, 4K, 2K, 1K, 670, 325, 180, 90, & 45Ω.
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, & 16Ω.

T20 30 Watt Transformer

Primary: 2500, 1300, 666, 333, 167, 89, & 45Ω.
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: 8Ω.

T18 60 Watt Transformer

Primary: 2K, 1K, 500, 250, 125, 85, and 45Ω.
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, & 16Ω.



BX-3A



BX-2A



BX-1A

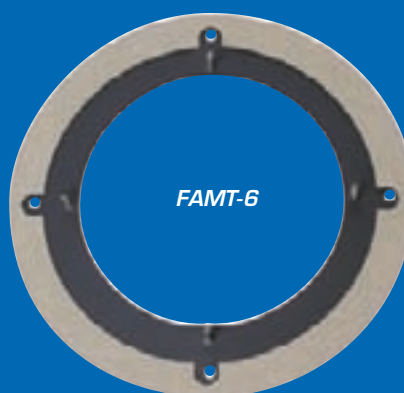
Cable / Conduit Adapters

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/adaptor 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

L20-100

- Round grille
- CRS construction with baked white epoxy finish.
- Mounts APF-15 or APF-15T.
- 11" (279mm) Diameter x $\frac{3}{8}$ " (10mm) Deep.



L20-101

L20-101

- Square grille.
- CRS construction with baked white epoxy finish.
- Mounts APF-15 or APF-15T.
- 10½" Square (267mm) x $\frac{3}{16}$ " (5mm) Deep.



L20-201

L20-201

- Recessed 20-gauge.
- CRS enclosure for L20-100 grille.
- Includes combination conduit knockouts for access.
- Undercoated to prevent resonance.
- 8 $\frac{9}{16}$ " (217mm) Diameter x 6" (152mm) Deep.



L20-213

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.
- 8 $\frac{9}{16}$ " (217mm) Diameter x $\frac{5}{8}$ " (16mm) Deep.



L20-220

L20-222

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



L20-222

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.

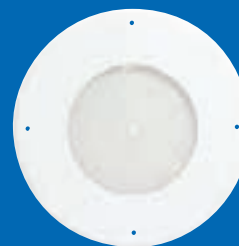


193-8-6

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.

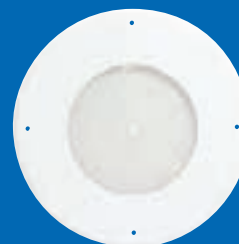


60-8

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 11/16" (27 mm) deep.



T730-4

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

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).

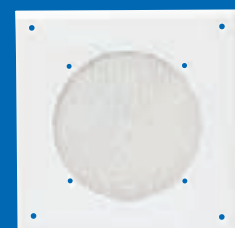


164-8A

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.

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.

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).



410-8



417-8WD



510-8

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.

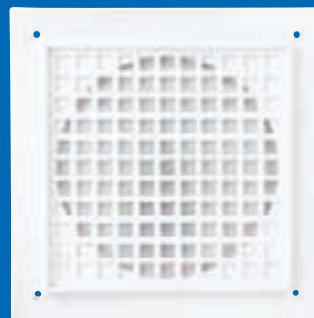


Re-Entrant Horn Adapter Plate

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.)

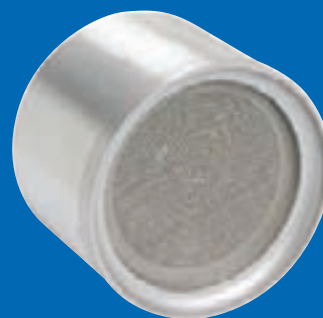


VP161



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.



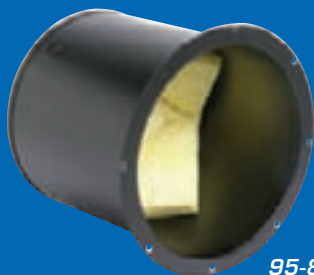
EZ95-8



BMT95-8



BMT95-4-7



95-8-10



95-8-7



191-78-8



96-8



SM191-78-8



198-8-8

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 1¾" (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



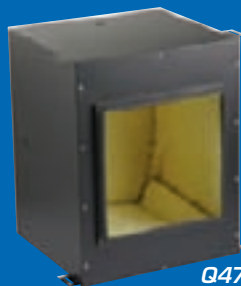
Q408



QS408



Q4915



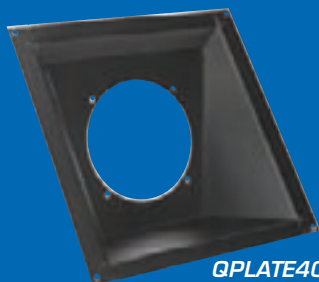
Q4712



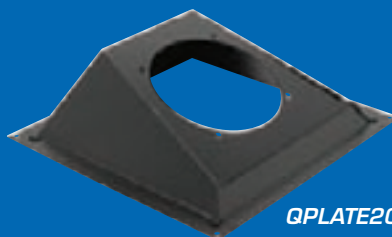
Q4612
(with QPLATE40)



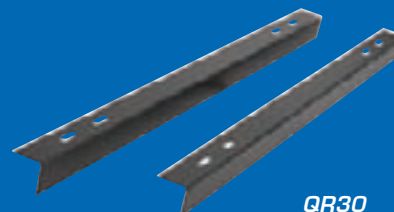
Q428-SA



QPLATE40



QPLATE20



QR30

Q Series assembly matches the acoustical characteristics of $\frac{3}{4}$ " (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 $1\frac{1}{2}$ " (38mm) thick fiberglass having a $1\frac{1}{2}$ lb. / ft³ density to control unwanted resonances in the high end of the frequency spectrum. Compound $\frac{1}{2}$ "- $\frac{3}{4}$ " (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 1 $\frac{1}{2}$ ft³ with $\frac{1}{2}$ " 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.

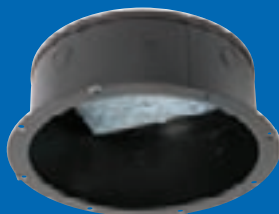
QPLATE20 20° offset plate mounts 8" speakers

QPLATE40 40° offset plate mounts 8" speakers

12T08PLATE adapts 12" enclosure to mount 8" speakers



96-4X



95-8



CS95



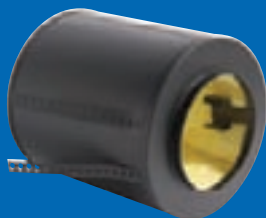
96-8



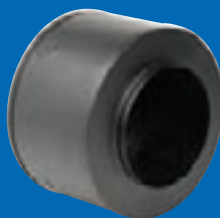
T195-8



95-12



E410-11



E410NT



96-4

Extra-Depth Enclosure for 4" Loudspeakers

96-4X Series. Providing improved low-end performance for 4" loudspeakers. The 96-4X has a volume of $\frac{1}{4}\text{ft}^3$ (.007m³). 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 $\frac{1}{4}\text{ft}^3$ (.007m³) enclosure, E410-11 is an extra-depth [$\frac{1}{2}\text{ft}^3$ (.014m³)] 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.



198-8



198-4



SS198-4



SE161-R



161RES



161-SES



SE198-4



SM191-78-8



191-78-8

Economical Enclosure

Contemporary 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.

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.

Enclosure for 4" and 8" Loudspeakers

Deluxe Enclosure

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.

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 61.

Surface Mount Enclosure for 4" Loudspeakers

Enclosure with Adjustable Mounting Bracket

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

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 61.

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.

Baffle / Enclosure Mounting Accessories

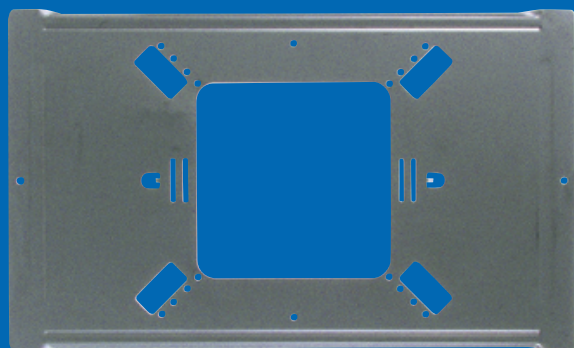
Tile Bridges for 4" & 8" Loudspeakers

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.

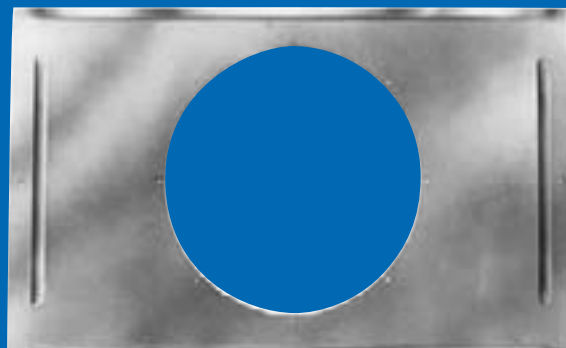
Channel Supports

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.



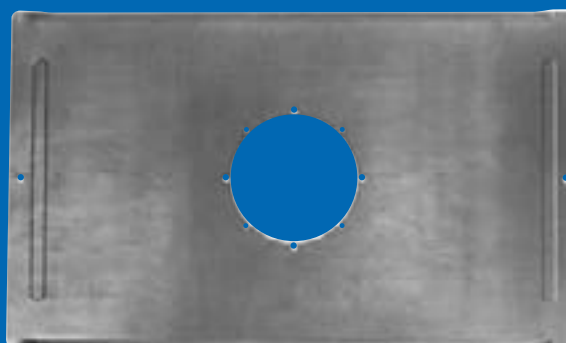
81-8S



81-8R



EQ81



81-4



186-24



186-16



180-4



180-2



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

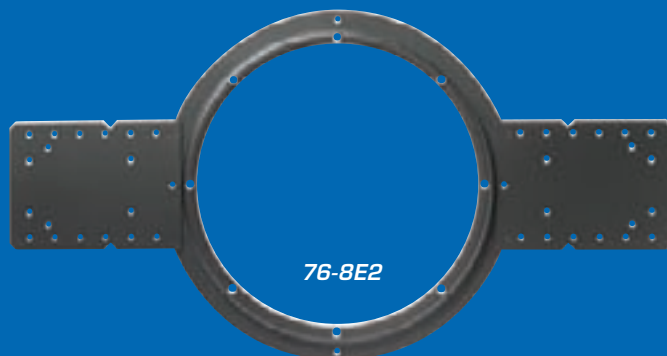
Plastic mounting rings are ideal for retrofit applications with hard-to-access ceilings. Model P77-8 may be conveniently installed from ground level by cutting a 12" (305mm) diameter hole in the ceiling, snapping ring at breakslot, and maneuvering it up through hole to rest above ceiling. Model P78-8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

PR411 / TR411

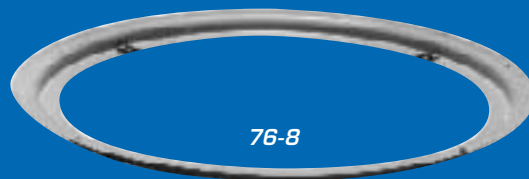
Versatile mounting ring installs to a variety of torsion-spring grilles with 4" (102mm) loudspeakers in drywall, plaster and conventional ceiling construction. Recommended for ease and economy when a protective enclosure is not specified. CRS construction. Finished in black epoxy. Includes torsion tabs.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



T75-8



76-8E2



76-8



P77-8



P78-8



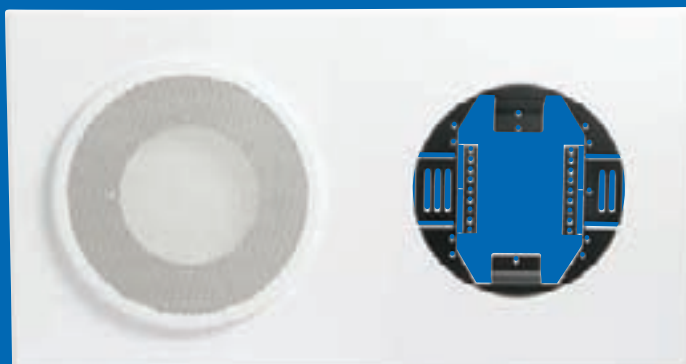
PR411



TR411



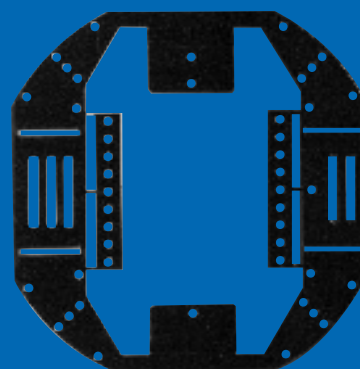
840-89A



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.

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!

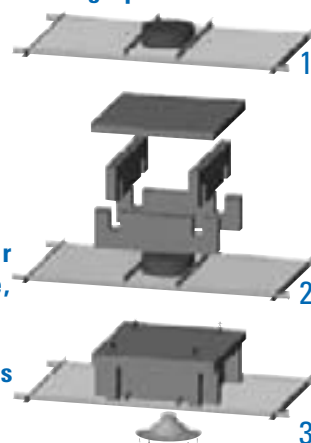
FR Series loudspeaker components are UL Classified versions of proven Atlas Sound models. Installing an FR Series system means no compromise in Atlas Sound's high performance and quality standards.

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 72.



AT10
(In a Standard
Back Box)



AT100-PA



AT35-PA



AT10D



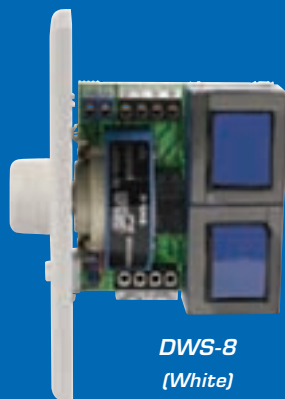
AT10-PARM



ATPLATE-052



DWS-8
(Ivory)



DWS-8
(White)

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 (8Ω 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 (See Page 142) 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 – see page xx for details. 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 1/8" mini-plug for use with up to three Switched WhisperTouch™ volume controls.



DAT-8



DAT8ST

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 8Ω 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.

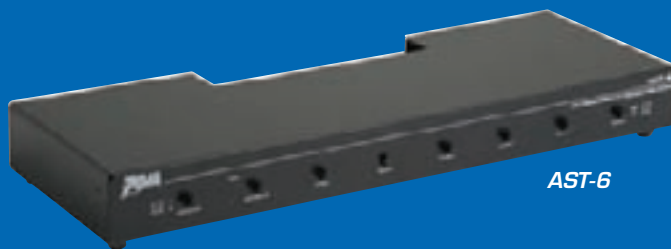
- Choose DAT8ST to Control Speaker Volume when Impedance Matching is Not Necessary Such as Single-pair Installations or when Multi-channel Amplifiers are Used for Individual Zones. Combine DAT8ST with a Separate Impedance-Matching Switching Device (AST Series) to Design a System with Multiple Loudspeaker Pairs.
- Choose DAT35ST70 for Control of Distributed Stereo Zones in 25V / 70.7V Systems.



PS-M12



ASL-6A



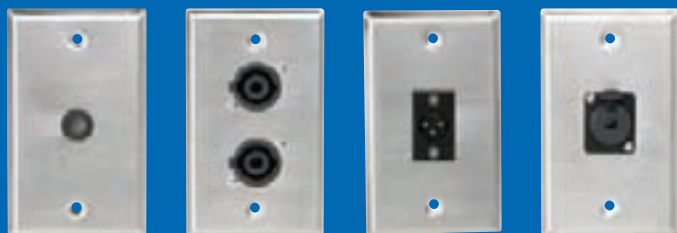
AST-6

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 1½" Height x 5⅞" Depth and can be shelf or 19" rack-mounted (brackets included). Wire capacity is 14-gauge – 24-gauge.



SG-38GH

SG-NL4MP-2

SG-XLR-M1

SG-QTRSL-F1

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 [3⅞" (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

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 1½" Height x 5⅞" Depth and can be shelf or 19" rack-mounted (brackets included). Wire capacity is 14-gauge – 24-gauge.



FBR4XLRF



FB4CPB

Microphone 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.

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; ⅜" Bushing Length; ⅜" 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. ⅜" Center Hole. Black Finish
HX25-2	Double Gang S/S Plate; Dial Scale Stamped and Paint Filled ⅜" 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 45Ω Voice Coil. Magnet Weight 1.47 oz
HX41-50	50Ω Wirewound Potentiometer, 3 watt. Continuous Rotation. 3/8" Bushing Length; ⅜" 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.



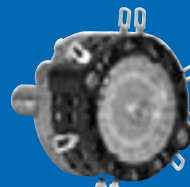
HX31-345



HX41-50



HX11-P



HX12-R



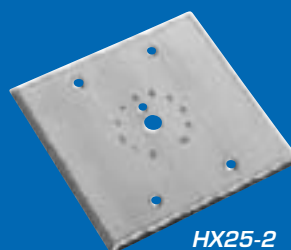
HX21-B



HX23



HX26-2



HX25-2

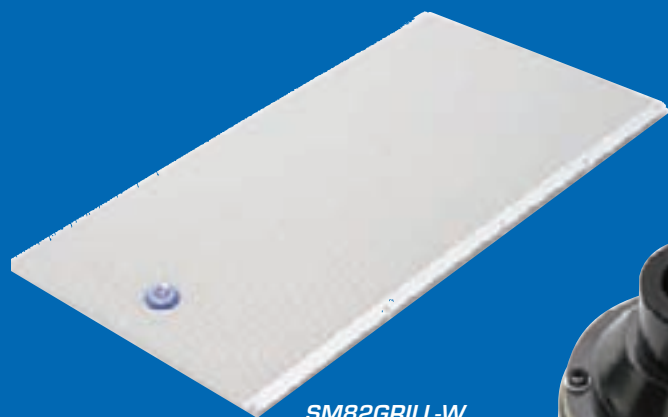


HXLP-3-12



ATPLATE-052

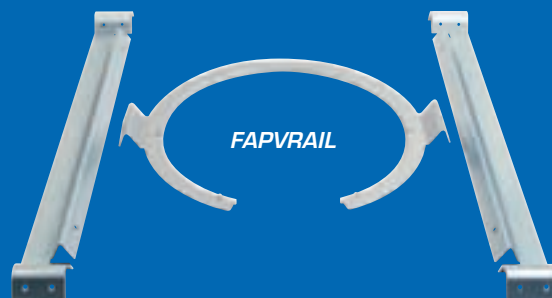
Replacement Speaker Parts



SM82GRILL-W



SM82HFDRV

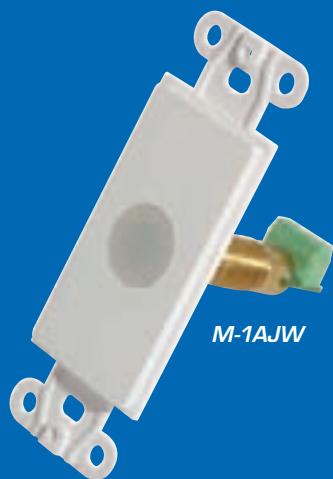


FAPVRAIL



SM52KNOB-B

<i>Model</i>	<i>Description</i>	<i>Model</i>	<i>Description</i>
SM52CBRKT-B	SM52 C-Bracket - Black	SM82WOOFER	SM82 8" Woofer Treated Cone
SM52CBRKT-W	SM52 C-Bracket - White	SMTERMCVR-B	SM Series Terminal Cover - Black
SM52GRILL-B	SM52 Grille w/ Logo - Black	SMTERMCVR-W	SM Series Terminal Cover - White
SM52GRILL-W	SM52 Grille w/ Logo - White	SM52TWEETER	SM42 Tweeter Driver Assembly
SM52KNOB-B	SM52 Knobs - Black - Each	FAP40TDRV	SM42 4" Woofer
SM52KNOB-W	SM52 Knobs - White - Each	SM42CBRKT-B	SM42 C-Bracket - Black
SM52TWEETER	SM52 Tweeter Driver Assembly	SM42CBRKT-W	SM42 C-Bracket - White
SM52WOOFER	SM52 5 1/4" Woofer Poly Cone	FAPVRAIL	V Rail for All FAP Series Models
SM42GRILL-B	SM42 Grille w/ Logo - Black	FAPPHX	Phoenix Connector for All FAP Series Models
SM42GRILL-W	SM42 Grille w/ Logo - White	FAP40TGRILL	FAP40T Grille
SM42KNOB-B	SM42 Knobs - Black - Each	FAP40TDL	FAP40T Dogleg
SM42KNOB-W	SM42 Knobs - White - Each	FAP40TDLS	FAP40T Dogleg Screw
SM82CBRKT-B	SM82 C-Bracket - Black	FAP40TDRV	FAP40T Driver
SM82CBRKT-W	SM82 C-Bracket - White	FAP40TTB	FAP40T Tile Bridge
SM82GRILL-B	SM82 Grille w/ Logo - Black	FAP42TGRILL	FAP42TC / FAP42T Grille
SM82GRILL-W	SM82 Grille w/ Logo - White	FAP42/62TDL	FAP42TC / FAP42T / FAP62T Dogleg
SM82HFDRV	SM82 HF Replacement Driver	FAP42/62TDLS	FAP42TC / FAP42T / FAP62T Dogleg Screw
SM82KNOB-B	SM82 Knobs - Black - Each	369551	FAP42TC / FAP42T Driver
SM82KNOB-W	SM82 Knobs - White - Each		



M-1AJW



F-1



M-1AJW



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 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

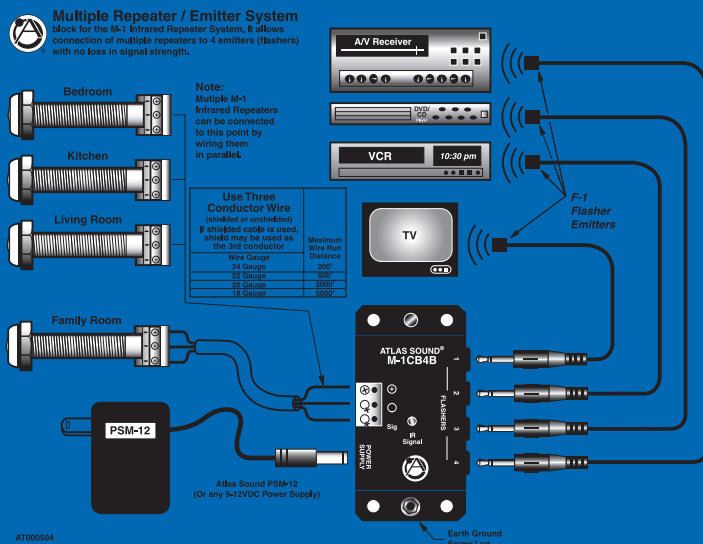
M-1CB4B. For installation flexibility, the M-1CB4B amplified connector block is offered as a plug-in interface device that provides connections for an M-1A Series repeater, four F-1 flashers, and power supply Model PS-M12. This configuration allows IR operation of up to four A/V components from up to four room locations. The M-1CB4B offers 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 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.



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)

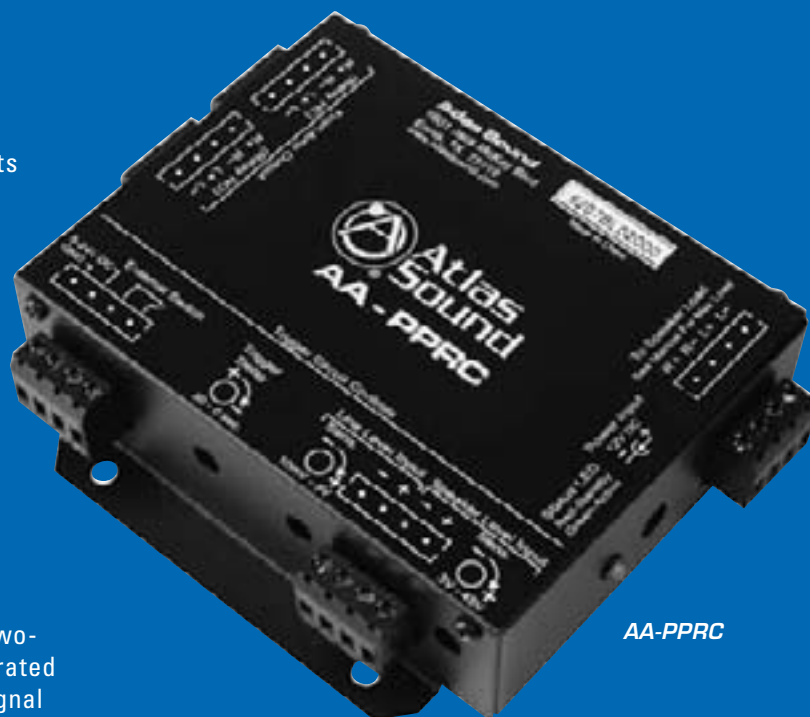
Width: 4" (114mm)

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.

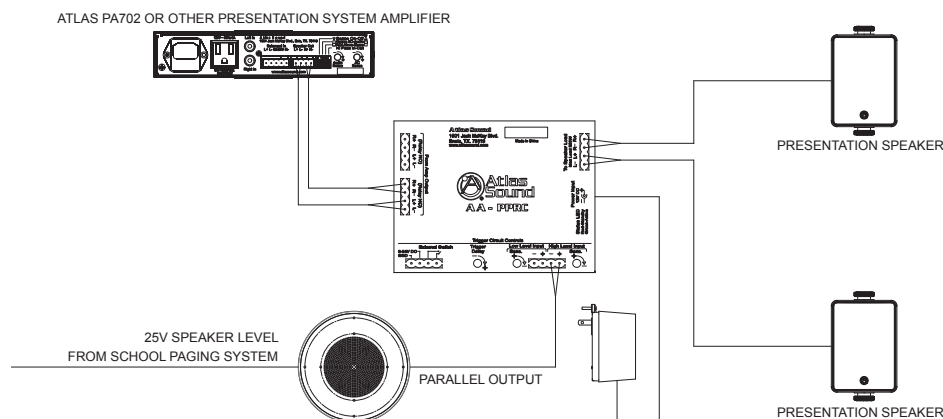


AA-PPRC



AA-PPRC
(Back)

Typical Classroom Installation for the AA-PPRC



AA35 / AA60

- 3 Channel Mixer Amplifier
- 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 8Ω 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!



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)

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 8Ω)
- 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

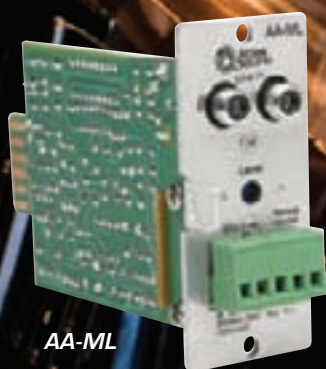
AA-TG	Three Tone Chime Generator Module
AA-ML	Mic / Line Input Module with Remote Volume (VCA)
AA-SMG	Sound Masking Generator Module with EQ and Patch Point for External Processors



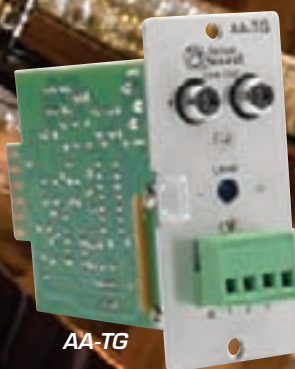
AA120M



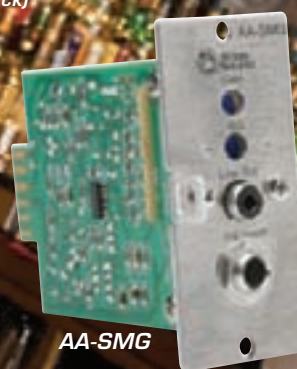
AA120M
(Back)



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 of 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.



CP700

CP400
(Back)

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 @ 8Ω
- AC Current Sense & Audio Sense Turn-On
- Balanced & Unbalanced Inputs
- Available in Black or White
- 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.

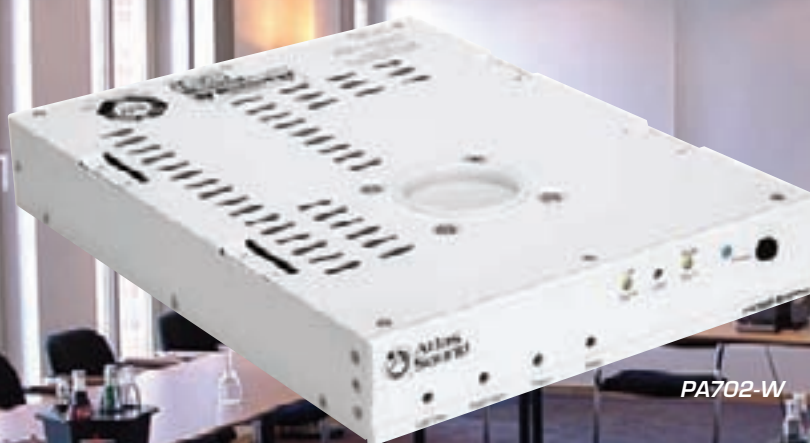
Since the first pole-mount projector, there has been a dilemma about how to best provide local amplification. The PA702 amplifier is a very elegant solution to this issue with its unique, patent pending mounting pole installation process via a sealed hole incorporated into the chassis design. Simply 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



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® amplifier 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.



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 10 kHz)
- 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

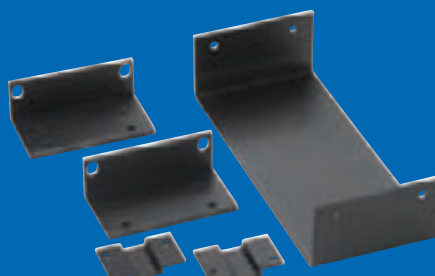
- AAIT-600** 600Ω isolation input transformer for all AA series
- AARMK2-0** Rack Mount Kit for one AA120 / AA240 or one AA120M
- AARMK2-5** Rack Mount Kit for one or two AA35, AA60, or PA601
- PA702-RMK** Rack Mount Kit for one or two PA702 / PA1001G.
- AAVCC-5** 5 piece Security cover kit for all AA Series
- AAVC-10K** 10K Linear pot on Decora plate for VCA use with AA120 / AA240, AA120M (includes white and ivory inserts, knobs and trim ring)



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 11Ω 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 1¾"-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. See page xx for more information.



AS-100N

HPG-100N



YDA-TH



K-100N

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 4 1/4" Square x 3 1/4" Depth. VTF Series are recessed mounting versions measuring 6" Square x 3 1/4" Depth. Both series install to a 2 1/2" 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

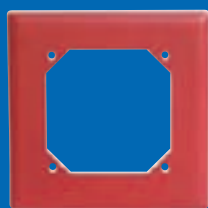
Installation Accessories for Voice / Tone™ Loudspeakers



SE



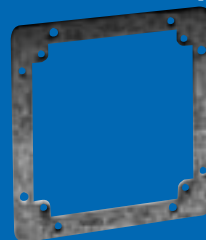
SIN



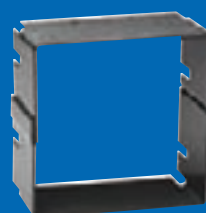
SFP-R



TVTA-R



FP



AR

SE

Surface-mounting outdoor backbox provides weatherproof installation of VT Series / SVT Series loudspeakers. 4 1/4" Square x 2" Depth housing is die-cast zinc with epoxy finish. Unit is tapped for 1/2" 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 1 1/2" Depth CRS unit is finished in baked epoxy and includes 1/2" 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 2 1/8" 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 2 3/4" 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 4 1/16" backboxes or solid exterior and hollow interior wall surfaces where a backbox is not required. CRS stamped construction.

A-R

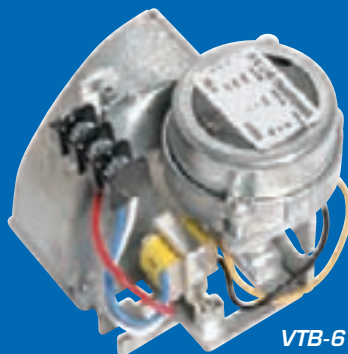
Adapter ring for recessed mounting of VTF Series loudspeakers. Welded steel collar is 2" deep to provide necessary extension to any 4" Square x 2 1/8" Depth E.O. box. Includes four "S" clips. Finished in Neutral Gray.

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 4 1/16" Square x 2 1/8" Depth backbox. Finished in Neutral Gray.



VTB-1



VTB-6



VTB-2

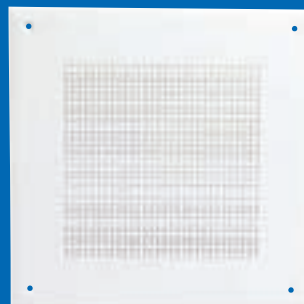
Compression Driver Without Housing or Mounting Plate

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.

8" Loudspeakers with Single Voice Coil

UHT Series

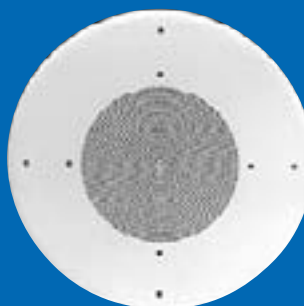
High-quality 8" ceiling or wall-mount loudspeakers for use in fire protective signaling, emergency alarm and audio evacuation systems are available with single voice coil, factory-mounted 5 watts multi-tapped transformer and two baffle styles to accommodate varying code and aesthetic requirements. UHT 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 1/2" x 5/8" (13mm x 16mm) and insertion loss of 1.5 dB. 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.



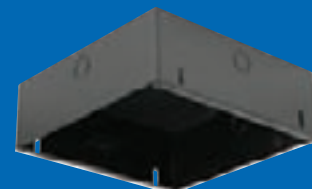
161-8



96-8



51-8



198-8



95-8

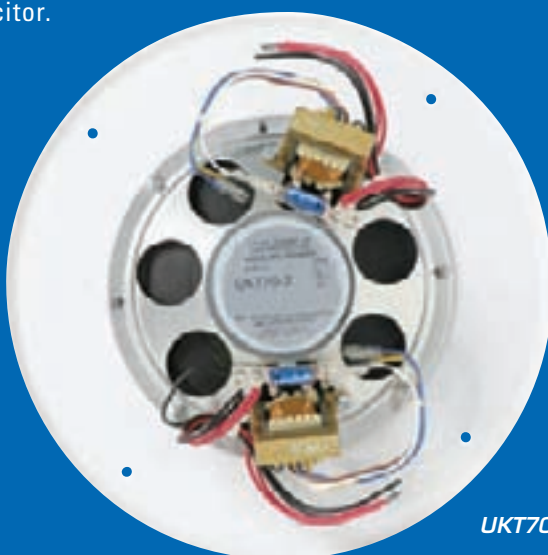
8" Loudspeakers with Dual Voice Coils

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

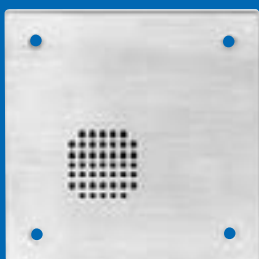


UKT70C-U51-8





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 2½" (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 3⅞" Depth. WPVT-F Series are recess / flush-mounting versions size 6" Square x 3⅞" 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. See Installation Accessories for Voice / Tone Loudspeakers page xx.

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 $\frac{3}{4}$ " 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 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

600Ω Impedance Matching Transformer

LT600-VC Versatile unit for matching telephone-type, 600Ω line circuits with HI-Z circuits. It can also be used as a 600Ω to 600Ω 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 600Ω input may be matched to 600Ω, 10KΩ and 25KΩ 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 (Section 8). Includes 6' power cord and black epoxy finish. For information on common-talk intercoms, see SL8-1433 at AtlasSound.com.



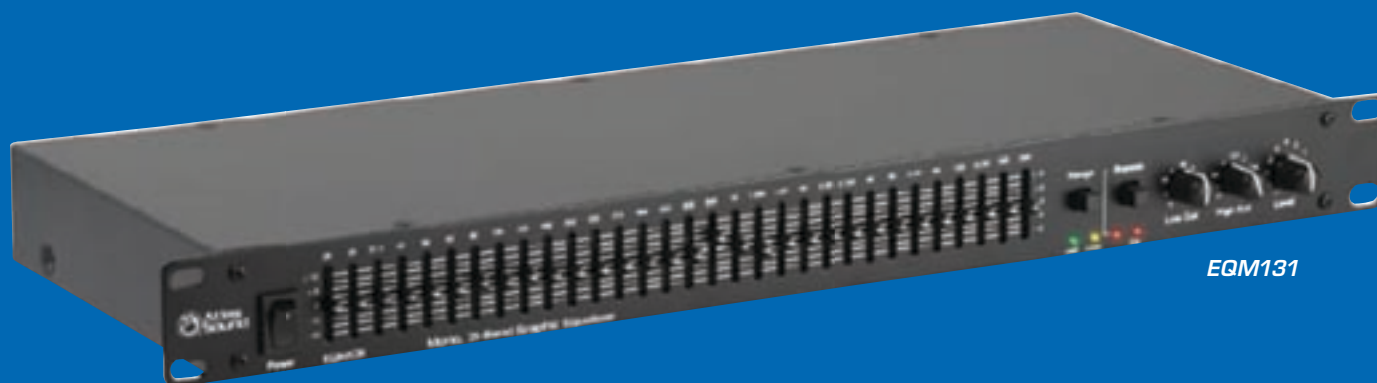
AA-GPN1200

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

1/3 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 ± 12 dB operation and 31 sturdy 20mm filter slide controls. The ISO centered $\frac{1}{3}$ 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 $\frac{1}{3}$ 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.

- Four White / Pink Noise Generators & 2 Mic / Line Inputs with 4-Channel DSP Processor
- Generator Spectral Purity ($\pm 0.1\text{dB}$ @ 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.

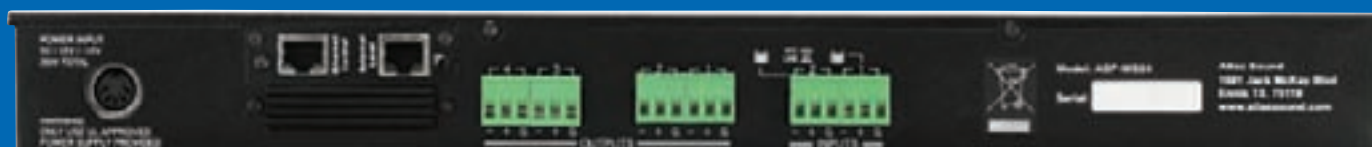
Dr. Chanaud owns a number of patents and has authored many technical articles on office acoustics and masking sound systems. You can find many of these articles at AtlasSound.com



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 $\frac{1}{3}$ 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

Sound Masking Done Right



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



EQ Section

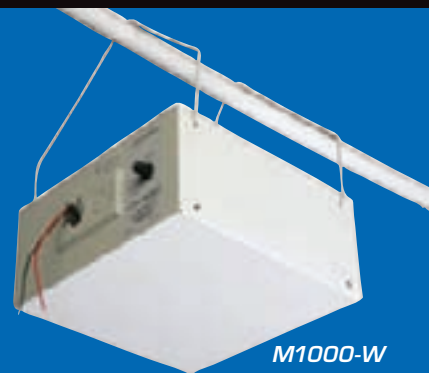
Suspension Mount Sound Masking Loudspeakers

M1000. This masking speaker assembly is designed to accurately reproduce the needed spectrum of masking signal into the plenum space. The innovative 712in³ 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 8Ω 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 1/2" conduit knockouts and all necessary mounting hardware. 529in³ 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

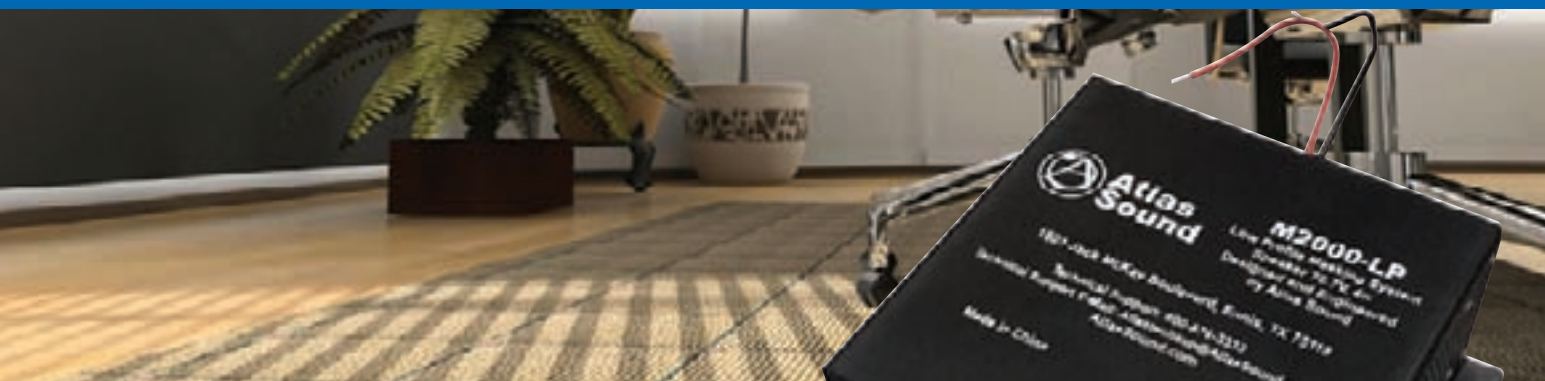
Security Masking

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.

Security Masking Speakers



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

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 privileges, 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 1/2 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 (104 dB 1 W / 1 M) 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.

VARIZONE

DIGITAL PUBLIC ADDRESS SYSTEM

VARIZONE® VAB-Line

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 prestigious institutions including the James S Brady White House Press Breifing Room in Washington D.C.

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

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 include RU height and overall depth for ease of ordering and accuracy.

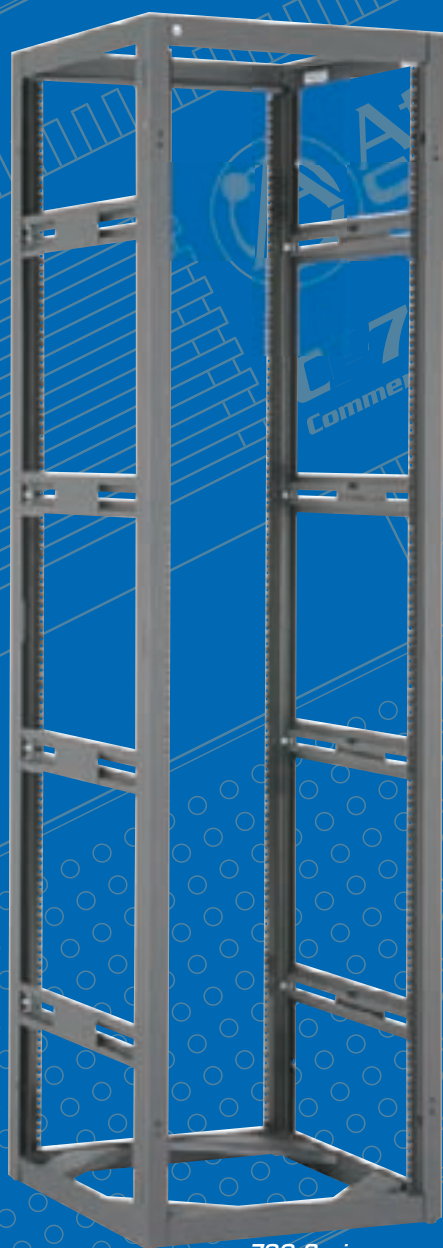
Atlas Racks ensure proper specifications and requirements are met and exceeded every time no matter the style and size. Caster kits, lights, fans, panels, drawers, and even control computers are available accessories furthering your ability to design and facility any system's customized needs.

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)*

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



700 Series



500 Series



200 Series

100 Series



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 competitive racks come with the risk of damage to equipment or injury.

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)

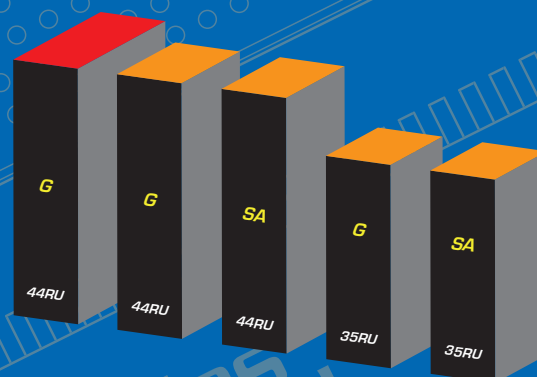


FMA44-25SA

FMA35-25SA	FMA44-25SA	FMA35-25G	FMA44-25G	FMA44-36G	Accessory	Description
◆		◆			PFD35	PFD Series
	◆		◆	◆	PFD44	1" Deep Plexiglas Steel Front Door
◆		◆			SFD35	SFD Series
	◆		◆	◆	SFD44	1" Deep Solid Steel Front Door
◆		◆			MPFD35	MPFD Series
	◆		◆	◆	MPFD44	1" Deep Perforated Steel Front Door
◆		◆			MPFD35-3	MPFD-3 Series
						3" Deep Perforated Steel Front Door
◆	◆	◆	◆		TPS-25	Top Opening Solutions
				◆	TPS-36	TPS Series - Solid Panels
◆	◆	◆	◆		TPP-25	TPP Series - Perforated Panels
				◆	TPP-36	EFT Series - Top Opening Fan Panels
◆	◆	◆	◆		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
	◆		◆	◆	FMA-RR44	Additional Rack Rails

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.



36" Depth 25 1/2" Depth
SA = Stand Alone G = Gangable

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 ¾"-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.

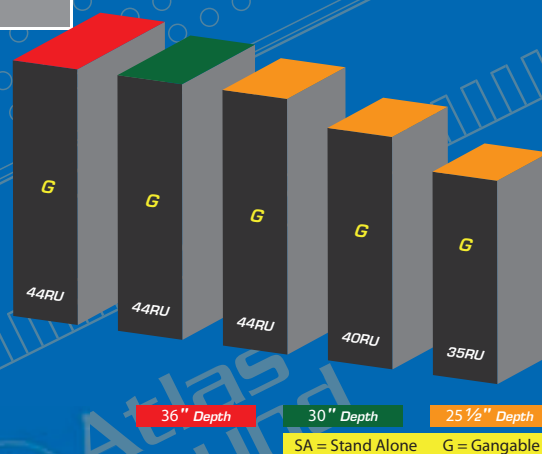
Wire management and ventilation features include maximum cabling and cooling opportunities via a standard panel width opening in the cabinet top and bottom. The panel opening may be covered with standard panels, the ISOPANEL (a non-conductive polymer panel to facilitate isolation of the rack from the 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 1" Deep Plexiglas Steel Front Door
	◆				PFD40	
		◆	◆	◆	PFD44	
◆					SFD35	SFD Series 1" Deep Solid Steel Front Door
	◆				SFD40	
		◆	◆	◆	SFD44	
◆					MPFD35	MPFD Series 1" Deep Perforated Steel Front Door
	◆				MPFD40	
		◆	◆	◆	MPFD44	
◆					MPFD35-3	MPFD-3 Series 3" Deep Perforated Steel Front Door
◆					FRD35	
	◆				FRD40	FRD Series Optional Flush Rear Doors
		◆	◆	◆	FRD44	
◆	◆	◆			TPS-25	Top Opening Solutions TPS Series - Solid Panels TPP Series - Perforated Panels EFT Series - Top Opening Fan Panels
			◆		TPS-30	
				◆	TPS-36	
◆	◆	◆			TPP-25	
			◆		TPP-30	
				◆	TPP-36	
◆	◆	◆			EFT-25	
			◆		EFT-30	
				◆	EFT-36	Optional Vented Side Panels
◆					SPS35-25	
	◆				SPS40-25	
		◆			SPS44-25	
			◆		SPS44-30	
				◆	SPS44-36	Roller Cart / Caster Kits
◆	◆	◆	◆	◆	RCK-700	
◆					RR35	FMA-RR Series Additional Rack Rails
	◆				RR40	
		◆			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!



500 Series

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)

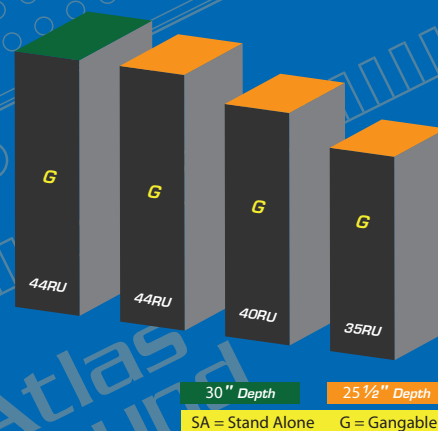
Sturdy welded racks feature 16-gauge CRS welded frames in 25½" or 30" depths, standard panel space heights and 19" widths. **Designed with open sides for easy wiring access in single or multi-bay configurations. Racks offer sturdy construction, quality wire management, ventilation, and styling.** 25" depth series provides 24¼" of usable depth, and 30" depth series has 28¾" of usable depth. The 500 Series is UL-listed and ships 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

535-25	540-25	544-25	544-30	Accessory	Description
◆				PFD35	PFD Series 1" Deep Plexiglas Steel Front Door
	◆			PDF40	
		◆	◆	PFD44	
◆				SFD35	SFD Series 1" Deep Solid Steel Front Door
	◆			SFD40	
		◆	◆	SFD44	
◆				MPFD35	MPFD Series 1" Deep Perforated Steel Front Door
	◆			MPFD40	
		◆	◆	MPFD44	
◆				MPFD35-3	MPFD-3 Series 3" Deep Perforated Steel Front Door
◆	◆	◆	◆	SPR6	Top Opening Solutions SPR6 - 6RU Solid Panel PPR6 - 6RU Perforated Panel 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 Additional Rack Rails
	◆			RR40	
		◆	◆	RR44	



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 22⅞" 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.

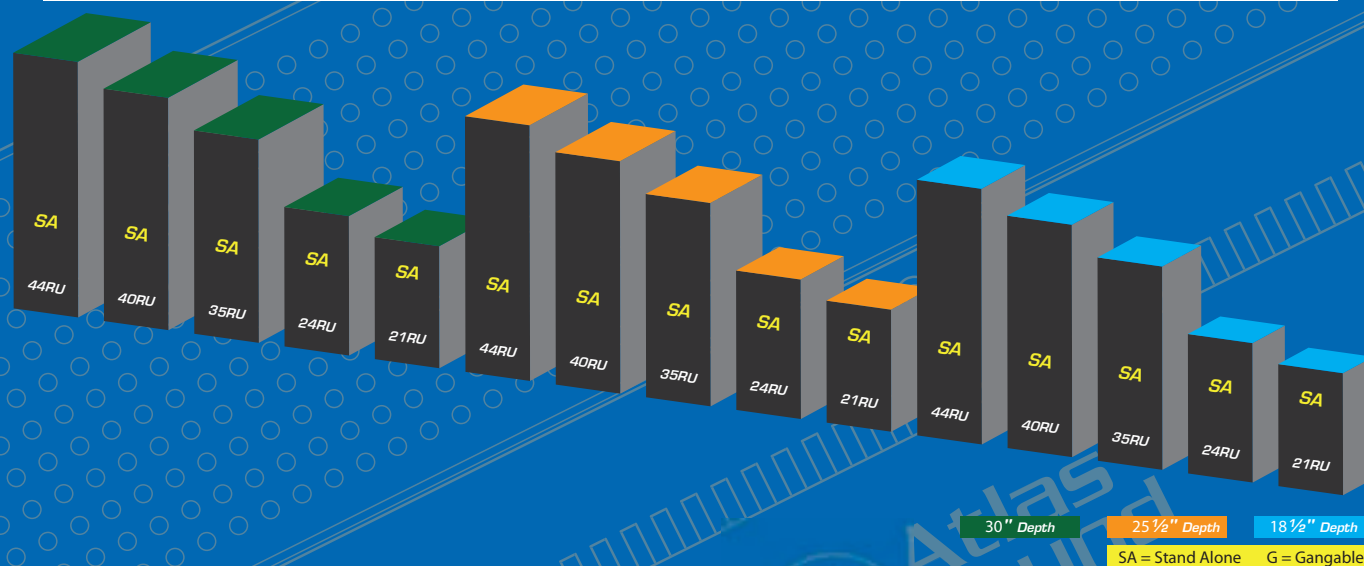
Conduit arrays are located on the top and bottom surface panels, as well as the top and bottom back flanges.

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

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 1" Deep Plexiglas Steel Front Door
	◆					◆					◆				PFD24	
		◆					◆					◆			PFD35	
			◆					◆					◆		PFD40	
				◆					◆					◆	PFD44	
◆					◆					◆					SFD21	SFD Series 1" Deep Solid Steel Front Door
	◆					◆					◆				SFD24	
		◆					◆					◆			SFD35	
			◆					◆					◆		SFD40	
				◆					◆					◆	SFD44	
◆					◆					◆					MPFD21	MPFD Series 1" Deep Perforated Steel Front Door
	◆					◆					◆				MPFD24	
		◆					◆					◆			MPFD35	
			◆					◆					◆		MPFD40	
				◆					◆					◆	MPFD44	
	◆					◆					◆				MPFD24-3	MPFD-3 Series 3" Deep Perforated Steel Front Door
		◆					◆					◆			MPFD35-3	
◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	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 Additional Rack Rails
	◆					◆					◆				RR24	
		◆					◆					◆			RR35	
			◆					◆					◆		RR40	
				◆					◆					◆	RR44	



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.

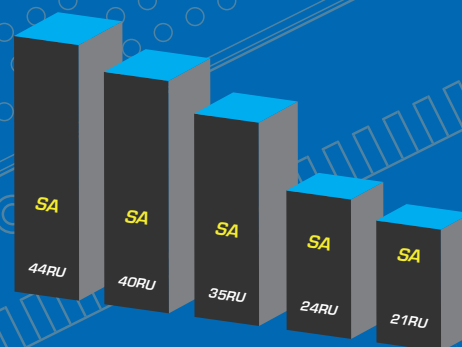


144-18





121-18	124-18	135-18	140-18	144-18	Accessory	Description
◆					PFD21	PFD Series 1" Deep Plexiglas Steel Front Door
	◆				PFD24	
		◆			PFD35	
			◆		PFD40	
				◆	PFD44	
◆					SFD21	SFD Series 1" Deep Solid Steel Front Door
	◆				SFD24	
		◆			SFD35	
			◆		SFD40	
				◆	SFD44	
◆					MPFD21	MPFD Series 1" Deep Perforated Steel Front Door
	◆				MPFD24	
		◆			MPFD35	
			◆		MPFD40	
				◆	MPFD44	
	◆				MPFD24-3	MPFD-3 Series 3" Deep Perforated Steel Front Door
		◆			MPFD35-3	
◆	◆	◆	◆	◆	SPR6	Top Opening Solutions SPR6 - 6RU Solid Panel PPR6 - 6RU Perforated Panel EFT6-4 - 6RU Fan Panel
◆	◆	◆	◆	◆	PPR6	
◆	◆	◆	◆	◆	EFT6-4	
◆	◆	◆	◆	◆	CT1020-962	Roller Cart



18 1/2" 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 1" Deep Plexiglas Steel Front Door
	◆				PFD12	
		◆			PFD16	
			◆		PFD24	
				◆	PFD35	
◆					SFD10	SFD Series 1" Deep Solid Steel Front Door
	◆				SFD12	
		◆			SFD16	
			◆		SFD24	
				◆	SFD35	
◆					MPFD10	MPFD Series 1" Deep Perforated Steel Front Door
	◆				MPFD12	
		◆			MPFD16	
			◆		MPFD24	
				◆	MPFD35	
◆					MPFD10-3	MPFD-3 Series 3" Deep Perforated Steel Front Door
	◆				MPFD12-3	
		◆			MPFD16-3	
			◆		MPFD24-3	
				◆	MPFD35-3	
◆	◆	◆	◆	◆	SPR3	Top Opening Solutions SPR6 - 6RU Solid Panel PPR6 - 6RU Perforated Panel EFP3-1 - 3RU, 1 Fan Panel EFP3-2 - 3RU, 2 Fan Panel
◆	◆	◆	◆	◆	PPR3	
◆	◆	◆	◆	◆	EFP3-1	
◆	◆	◆	◆	◆	EFP3-2	
◆					WMA-RR10	WMA-RR Series Additional Rack Rails
	◆				WMA-RR12	
		◆			WMA-RR16	
			◆		WMA-RR24	
				◆	WMA-RR35	



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.

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

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 17 $\frac{3}{4}$ " Width x 14 $\frac{1}{8}$ " Depth (451mm x 359mm).



607-15

Wall-Mount Enclosure For 19" Equipment

607-15. Compact 16-gauge CRS assembly with 7RU (12 $\frac{3}{8}$ ") 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

- $\frac{5}{8}$ " 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.

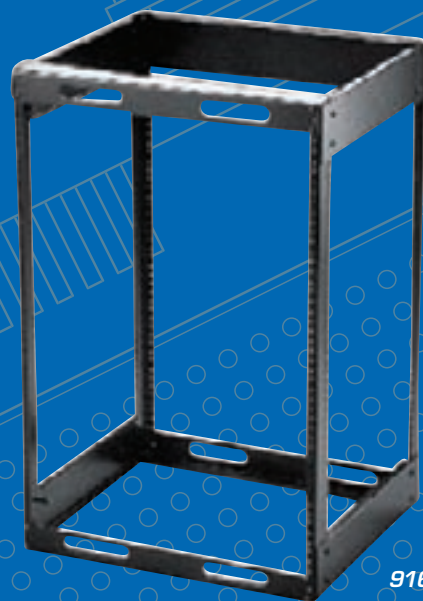


AWR3W

Tilt-Out Wall Cabinets for 19" Equipment

AWR Series

Convenient access and lock-in security highlights Atlas Sound's re-designed 2RU ($3\frac{1}{2}$ " / AWR2W and 3RU ($5\frac{1}{4}$ " / 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 $5\frac{3}{4}$ " 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 $\frac{1}{2}$ " and $\frac{3}{4}$ ". **AWR Series is shipped complete and ready for installation.** Panel mounting holes accept 10-32 hardware. The Top mostRU useable depth is 20" (50.8cm), the bottomRU useable depth is $17\frac{1}{4}$ " (43.81cm).

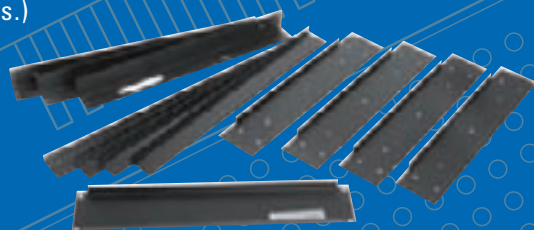


916-18

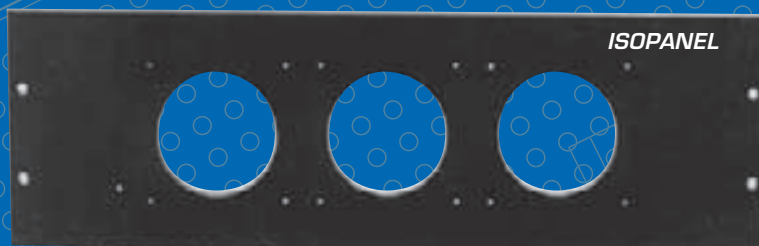
Easy-to-Assemble, Stackable Utility Frames

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 $19\frac{1}{4}$ " and $26\frac{1}{4}$ " panel space heights. Model 912-18 is $23\frac{3}{16}$ " 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 in the combinations outlined on page xx. 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.)

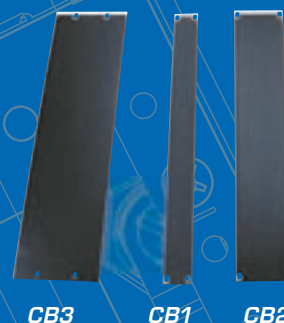


900 Series Unassembled



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 2½" 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).



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 EIA 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.

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)

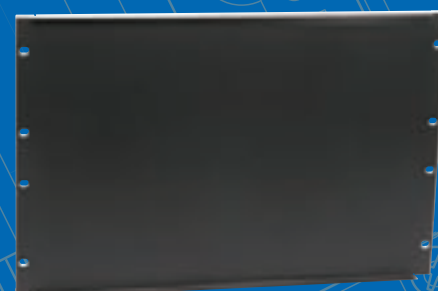
Solid 16-gauge CRS blank panels are available in a selection of recessed and flush mounting models. SPR Series has formed returns on panel top and bottom for recessed installation. SPF Series are formed on all four sides to exhibit a flush-to-frame appearance. Recessed available in 1RU to 8RU heights.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

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, respectively.

PPR / PPF Series (UL 1678)

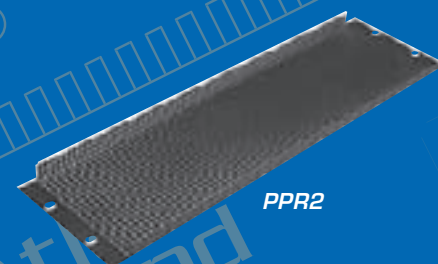
Perforated 22-gauge CRS vent panels provide for natural air circulation and dissipation of equipment generated heat. PPR Series is formed on panel top and bottom for recessed installation. PPF Series is formed on four sides to achieve a flush-to-frame appearance. Recessed available in 1RU to 8RU heights.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



SPR7



TPS25



PPR2



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 14 $\frac{3}{4}$ ". Models available in 2, 3, 4, & 6RU heights.



CD4

CD4 - Media Storage Shelves

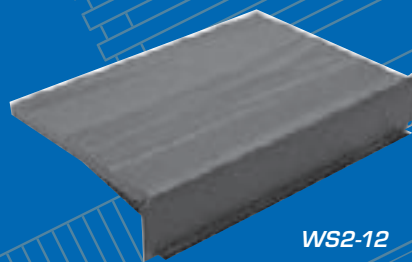
Convenient CD media storage shelf features slot dividers for increased strength. Construction is of 16-gauge cold rolled steel finished in black textured electrostatic powder coat (-052). Unit holds 40 standard CD jewel cases.



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.

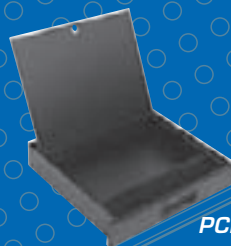


WS2-12

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).

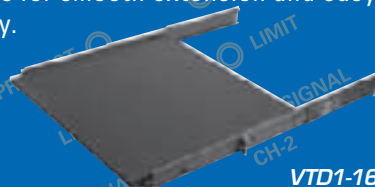


PCD3-16-052

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.

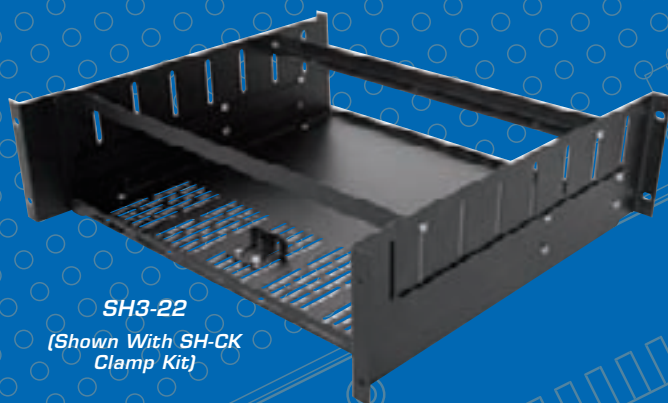


VTD1-16

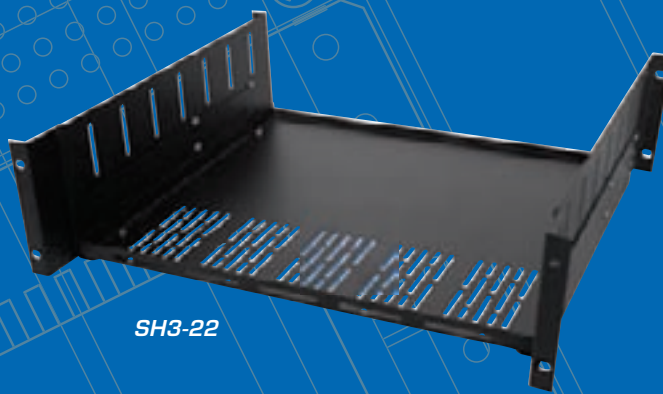
Sliding Shelf / Tray for Cabinets with Front & Rear Rails

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

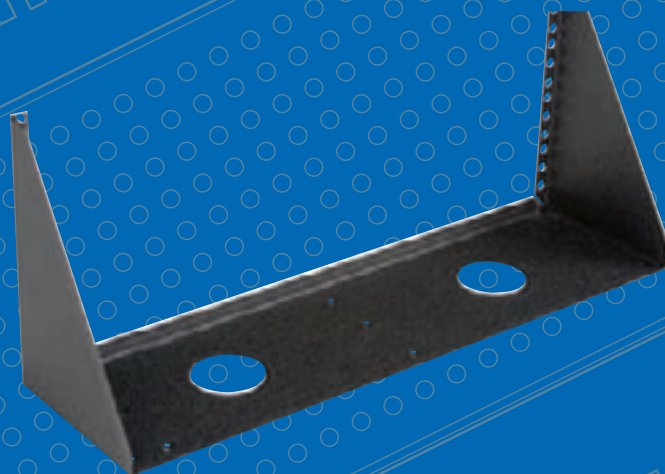
SH Series - Clamping Shelves

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.



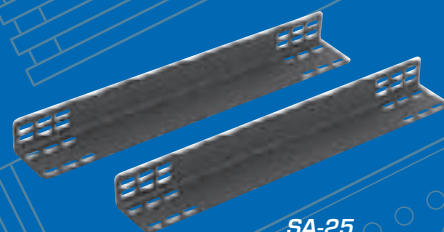
Wall Mount System

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.



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



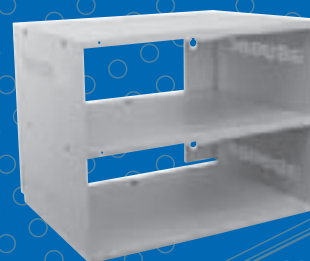
BBG44

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

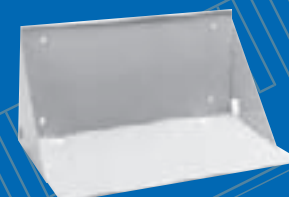
(With Locking Front Door)

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



AS-120-592

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)

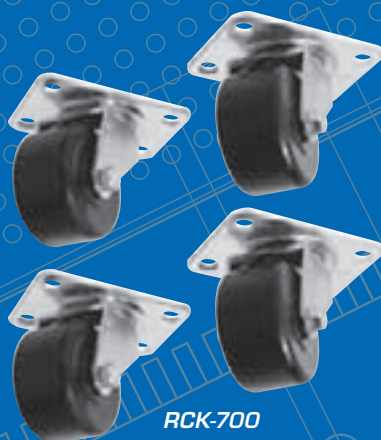


Roller Truck & Caster Kit Accessories

RCK-700

Heavy-duty, 2½" diameter non-locking swivel casters have a load-bearing capacity of 255lbs each. Units are zinc-plated and include black, hard-tread wheels.

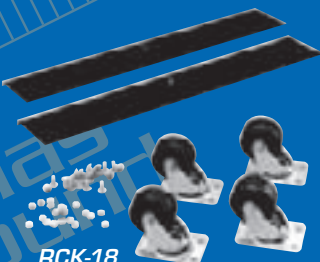
Model accommodates 700 Series Cabinets only. Sold in groups of four.



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

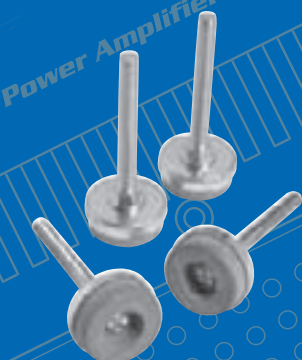
Caster kit provides for caster installation onto 19" width x 18½" depth cabinets in single or multi-bay installations. Kit includes four, non-locking, 2½" diameter casters and two, easy-to-install, 18½" length mounting / supporting brackets. Model accommodates the 18½" depth 100 Series & 200 Series cabinets.

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, 2½" diameter casters and two, easy-to-install, 25" length mounting / supporting brackets. Model accommodates the 25½" depth 200 Series and 500 Series cabinets.

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, 2½" diameter casters and two, easy-to-install, 30" length mounting / supporting brackets. Model accommodates the 30" depth 200 and 500 Series cabinets.



LL2



LR4

LRS

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

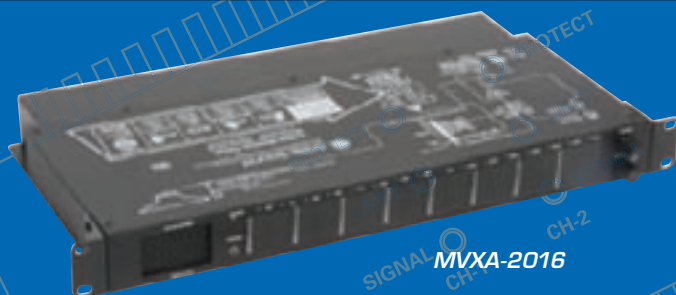
Vertical lace bar provides a vertical lace path inside the rack to assure clean wire management. 44RU (77") unit may be cut for use in shorter Atlas Sound racks. Mounting points are provided for attachment to internal rack hat sections. Unit is 2" wide x 15/16" thick (50.8mm x 24mm).

Additional Rails

Mounting rails are comprised of 11-gauge CRS and are tapped 10-32 on E.I.A. spacing - 5/8" - 1/2" 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



MVXA-2016



MVXA-2016 (Back)



MVX-195



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.

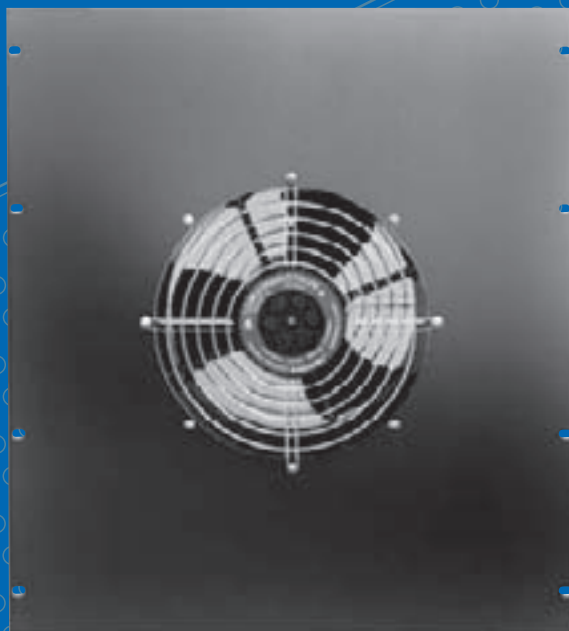
Fan Thermostat

CFT-125

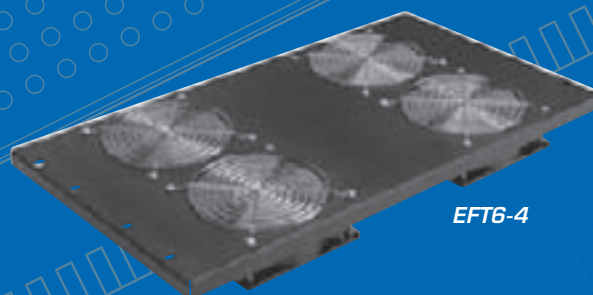
Unit provides ventilation control of fans and other cooling equipment. Thermostat includes an automatic shut-off feature and a special 3-wire extension cord with series plug for automatic operation. Use the thermostat knob to make temperature adjustments at dial settings from 50°F to 100°F. The CFT-125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



CFT-125



EFT-25



EFT6-4



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

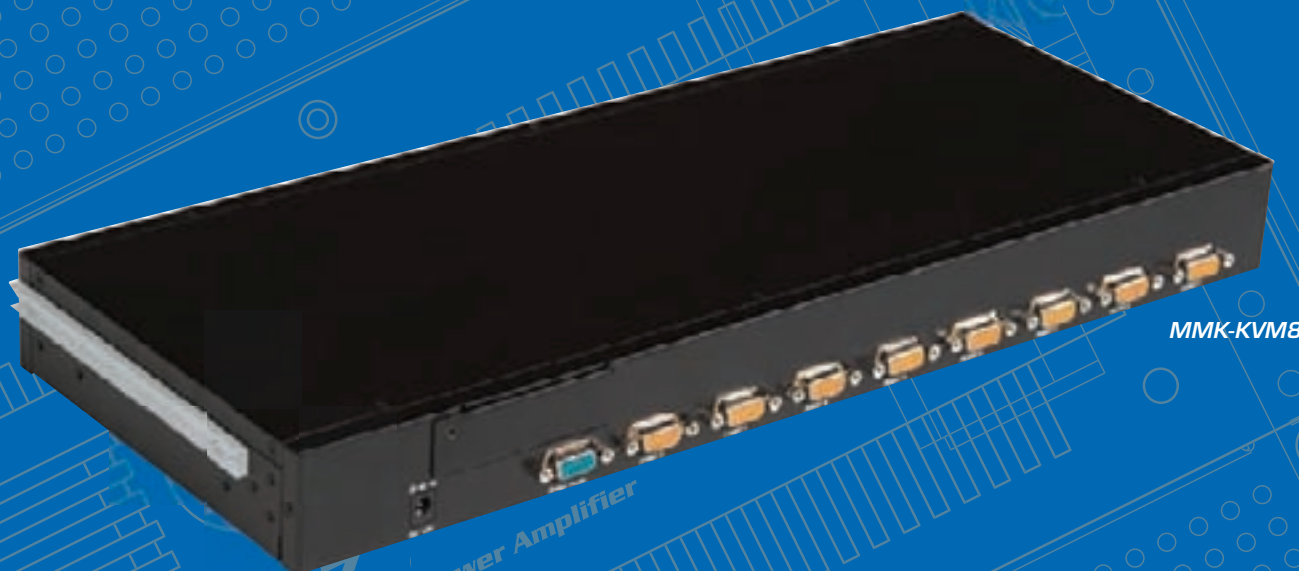
With rack space becoming more and more precious, network administrators are always looking for solutions that will save them any additional RUs. The MMK17-RM is a 1RU drawer design with an integrated 17" LCD monitor, keyboard, and mouse. Features include flip-up design, adjustable brackets and built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

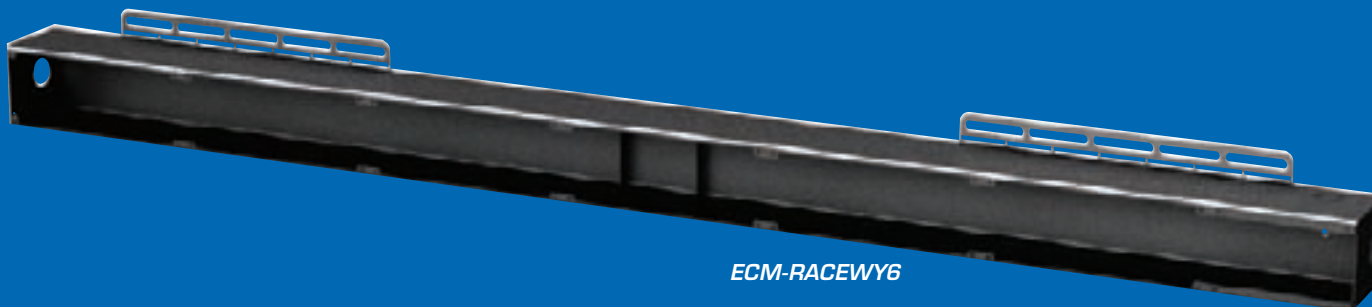


ECS-KSW6

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

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)

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)

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.



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 18" 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.

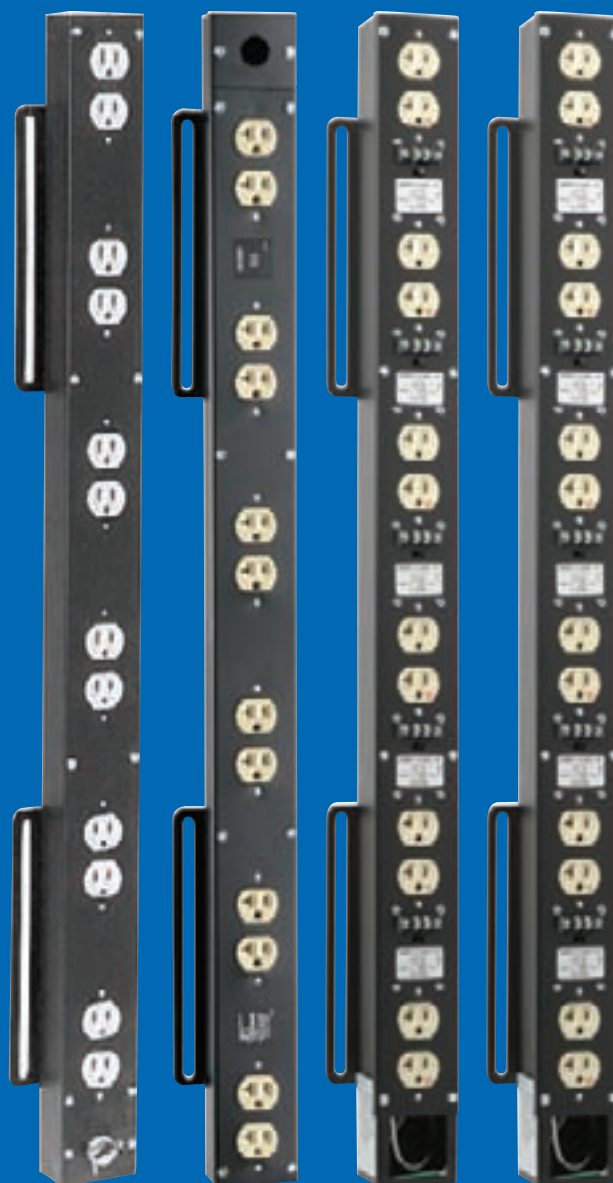
AC Outlet Strips

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 (36 $\frac{3}{4}$ "). 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 36 $\frac{3}{4}$ " length x 2 $\frac{1}{2}$ " width x 1 $\frac{5}{8}$ " 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 16 $\frac{1}{8}$ " length x 1 $\frac{1}{2}$ " width x 2" height. RAC-9 models measure 24 $\frac{1}{4}$ " length x 1 $\frac{1}{2}$ " width x 2" height.

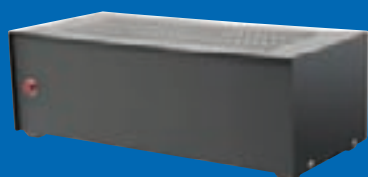


ACS-1

ACS-2A

SACS-5

SACS-5F



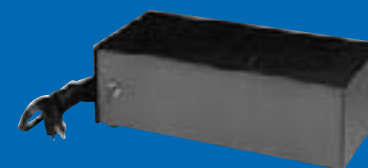
PS24-50A



PS24-075



PS24-20



PS24-2R

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

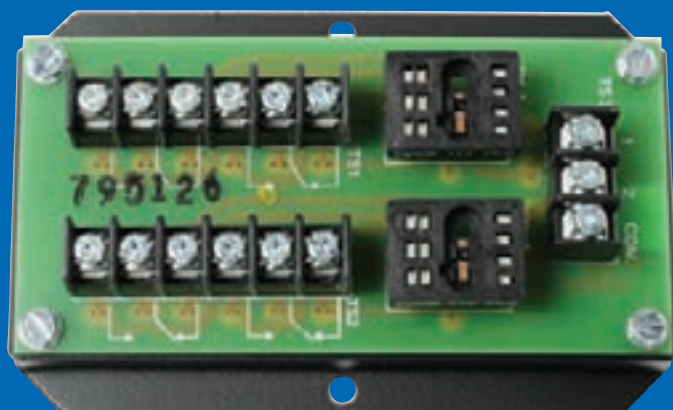
PS24-075. Compact supply is designed to power the RPM/RLM Series DC relays and may also be used in a variety of annunciator applications. Includes positive, negative, and ground terminals with the negative terminal isolated from the ground. Complete with 6' power cord and black epoxy finish.

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

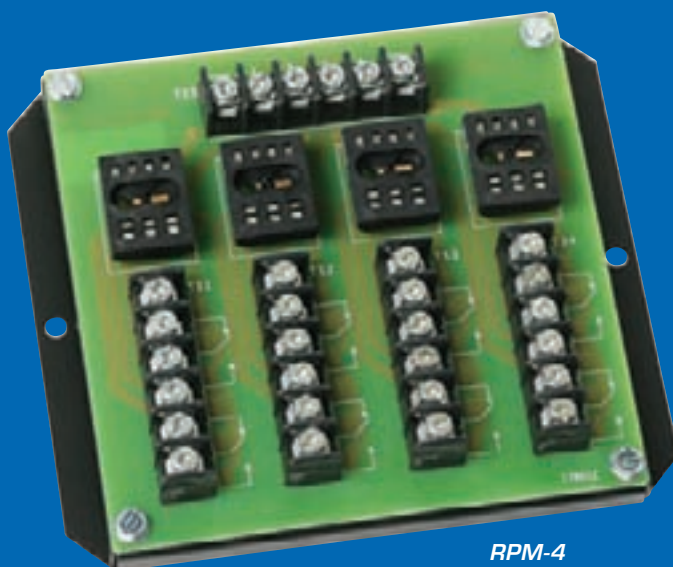
PS-RK. Accessory shelf provides convenient installation of Atlas Sound power supplies in 19" cabinets. Shelf supports up to four 6¾" L supplies or one 13¼" L unit. CRS assembly is finished in black textured epoxy and includes knockouts for line cords, front viewing hole for power indicator, and viewing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



RPM-2



RLM-24



RPM-4



PSR-206



PSR-212

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.



"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.

*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.



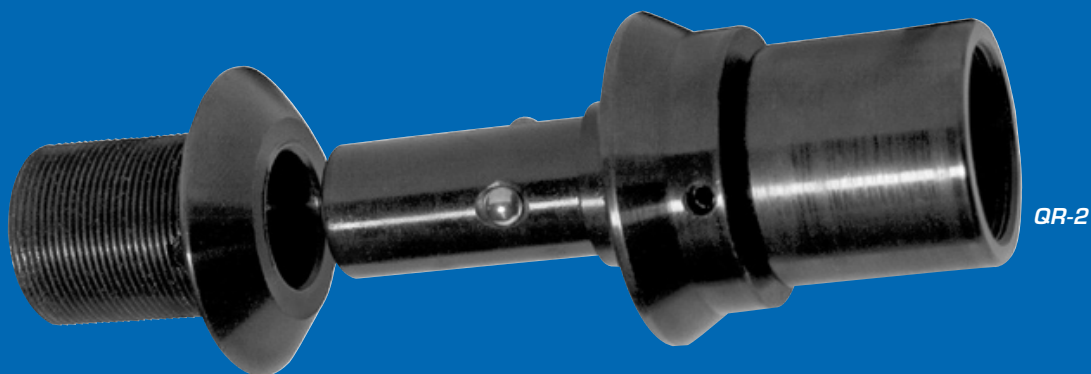
Step 1



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 $\frac{7}{8}$ " 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

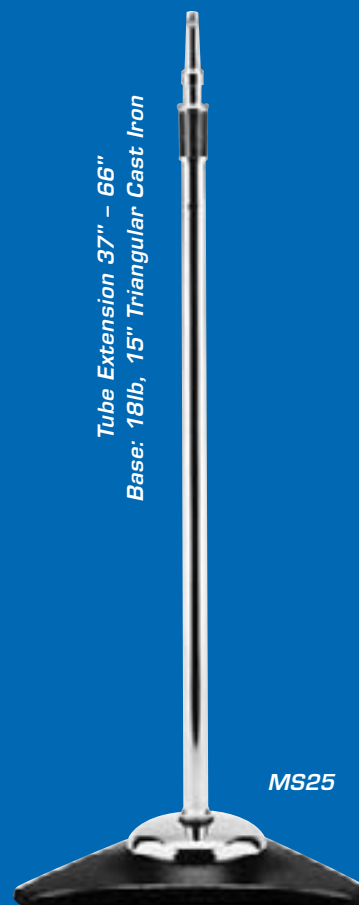
- Steel tubing is finished in a choice of mirrored chrome or non-reflective ebony
- Anti-vibration cap absorbs incidental vibrations and sounds
- Lock-nut ring securely positions tubing to base
- Atlas Sound stands are threaded $\frac{5}{8}$ "-27 and include a lock-nut ring for versatile positioning 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.



Extra-Stability Stands with Oversized Base

MS20 / MS20E. Heavy-duty stands for studio, recording, church, and school application include an extra-height 1½" 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 1½" 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 $\frac{5}{8}$ " - 27 thread pattern.

Mini Adjustable Boom

PB11XCH / PB11XEB. Compact booms extend from 16 $\frac{1}{4}$ " to 24 $\frac{1}{2}$ " with a single motion—perfect for drum/piano/guitar amp and short distance miking. Units include a threaded end cap and a fixed $\frac{3}{4}$ lb counterweight for stability. Finish is chrome (CH) or ebony epoxy (EB) where noted.

Fixed-Length Booms

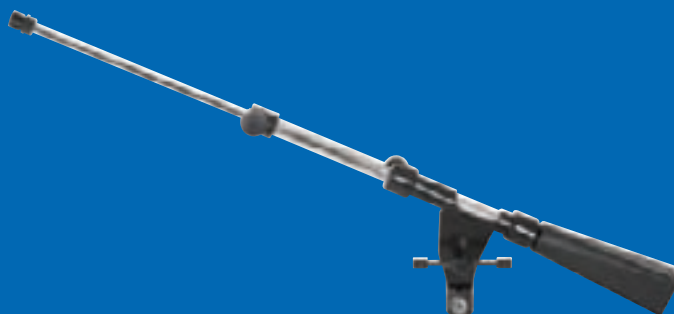
PB15CH / PB15EB. All-purpose, high-quality booms are 34" long and include fixed $\frac{3}{4}$ lb counterweights for stability. Select from chrome (CH) or ebony epoxy (EB) finish as noted.

Extendable-Length Booms

PB21XCH / PB21XEB. Booms extend from 25 $\frac{1}{4}$ " to 38 $\frac{1}{2}$ " with a single motion and are suitable for a wide variety of miking applications. Units contain a fixed $\frac{3}{4}$ lb counterweight and threaded end cap. Finish is chrome (CH) or ebony epoxy (EB) as noted.

General Purpose Boom

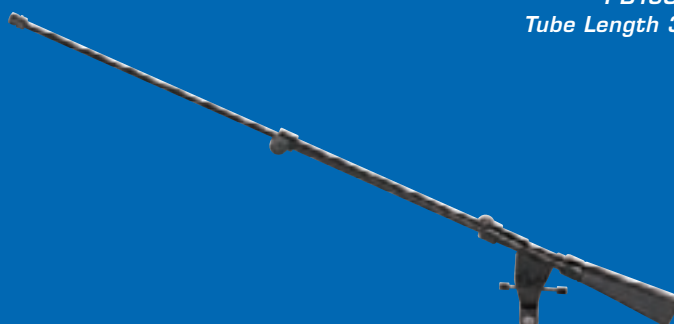
BE-E. This versatile, low-cost boom features adjustable-length positioning for extended mic range applications. The two-piece boom extends 24" - 39" and includes a molded plastic handle, metal swivel clamp with protective rubber insert, and an easy-grip knob for vertical alignment. Adjustment for the 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 $\frac{5}{8}$ " - 27 thread pattern. Satin ebony (E) finish. 2 lbs.



PB11XCH
Tube Extension 16 $\frac{1}{4}$ " - 24 $\frac{1}{2}$ "



PB15CH
Tube Length 34"



PB21XEB
Tube Extension 25 $\frac{1}{4}$ " - 38 $\frac{1}{2}$ "



BE-E
Tube Extension 24" - 39"



SB11WE

Tube Extension 43" - 68"
Base: 11lb, xx" Stackable Cast Iron

SB36W

Tube Extension 49" - 73"
Base: 11lb, xx" Stackable Cast Iron

Studio Boom Stands

Economical Studio Boom

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 $\frac{5}{8}$ " - 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.

Professional Studio Boom with Air Suspension

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 $\frac{5}{8}$ " - 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.



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.



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" - 1 1/2".



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 $\frac{5}{8}$ " - 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 $\frac{5}{8}$ " - 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 $\frac{5}{8}$ " 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 8" - 13"

Base: 6lbs, 10" Round Cast Iron

Tube Extension 14½" - 26¼"

Base: 6lb, 10" Round Cast Iron



Tube Extension 37" - 65"
Base: Tripod

Tube Extension 24" - 39"
Base: Tripod

TEB-E

TE-E

Microphone Stands



Atlas



*Speaker Not
Included*

SS500E

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.

Top Adapters for Steel & Lightweight Stands

SSA7 Adapter for stand Model SS500E. It features a platform base with two ¾" x 2" equipment mounting slots and 4 holes to meet a variety of support applications.



SSA7

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 $\frac{5}{8}$ " - 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 $\frac{5}{8}$ " - 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 $8\frac{3}{4}$ " wide and fits mic clamps with $\frac{5}{8}$ " 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 $\frac{5}{8}$ " - 27 threads to any floor or desk stand with $\frac{5}{8}$ " or $\frac{7}{8}$ " diameter tubing. Ebony finish.

MAC-1

Multi-use adapter/clamp holds mics, booms, or accessories having $\frac{5}{8}$ " - 27 threads in vertical or horizontal orientation. Versatile unit also clamp mounts to $\frac{5}{8}$ ", $\frac{7}{8}$ ", and $1\frac{1}{8}$ " diameter tubing or to freestanding instruments, keyboards and drums. Made of high-strength extruded aluminum. Ebony finish. Weight: 1 $\frac{1}{2}$ lbs

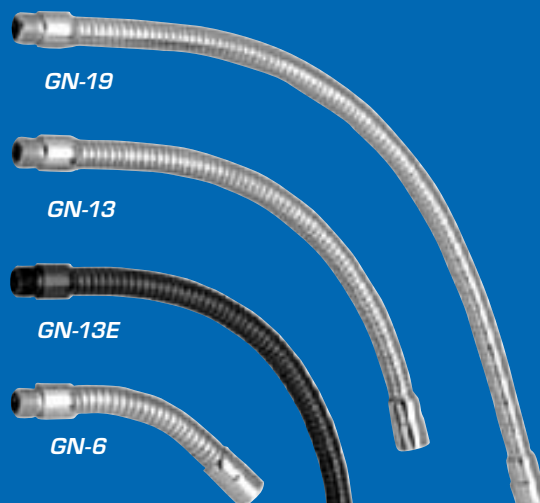
Cable / Tambourine Hangers & Cable Feed-Thru Adapter

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 $\frac{5}{8}$ " male and female threads.



GN-19

GN-13

GN-13E

GN-6



LO-2B



TM-1



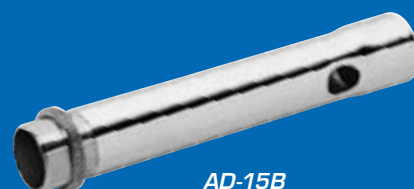
CO-1B



MAC-1



CH-1B



AD-15B



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 1¼" base diameter; chrome or ebony (E)
AD-12B(E)	⅝" long, ⅝" -27 male flange with 1¼" 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



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 Ω Bypass	25 watts	88dB	75Hz – 20kHz (± 5 dB)	FAP42-TR	10 $\frac{1}{2}$ " (267 mm)	8 $\frac{1}{4}$ " (225 mm)	9" (229mm)
FAP42T-B	1480	70.7V: 1, 2, 4, 8, & 16 watts / 8 Ω Bypass	25 watts	88dB	75Hz – 20kHz (± 5 dB)	FAP42-TR	10 $\frac{1}{2}$ " (267 mm)	8 $\frac{1}{4}$ " (225 mm)	9" (229mm)
FAP42T-UL2043	1480 / 2043	70.7V: 1, 2, 4, 8, & 16 watts / 8 Ω Bypass	25 watts	88dB	75Hz – 20kHz (± 5 dB)	FAP42-TR	10 $\frac{1}{2}$ " (267 mm)	8 $\frac{1}{4}$ " (225 mm)	9" (229mm)
FAP62T	1480	70.7V: 2, 4, 8, 16, & 32 watts / 8 Ω Bypass	50 watts	88dB	63Hz – 20kHz (± 5 dB)	FAP62-TR	12 $\frac{1}{2}$ " (318mm)	8 $\frac{1}{2}$ " (215mm)	11" (279mm)
FAP62T-2043	1480 / 2043	70.7V: 2, 4, 8, 16, & 32 watts / 8 Ω Bypass	50 watts	88dB	63Hz – 20kHz (± 5 dB)	FAP62-TR	12 $\frac{1}{2}$ " (318mm)	8 $\frac{1}{2}$ " (215mm)	11" (279mm)
Model	UL Listing	Transformer Taps	Power Handling	Sensitivity	Frequency Response	Woofers Size	Woofers Material	Matches Enclosure	
FA42T-6MB	1480	70.7V: 1, 2, 4, 8, & 16 watts	25 watts	88dB	75Hz – 20kHz (± 5 dB) (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 (± 5 dB) (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 Ω Bypass	25 watts	88dB	75Hz – 20kHz (± 7 dB)	FAP42-TR	Diameter: 10 $\frac{1}{2}$ " (267mm)	4 $\frac{1}{4}$ " (108mm)	9" (229mm)
FAP42TC-UL2043	1480	70.7V: 1, 2, 4, 8, & 16 watts / 8 Ω Bypass	25 watts	88dB	75Hz – 20kHz (± 7 dB)	FAP42-TR	10 $\frac{1}{2}$ " (267mm)	4 $\frac{1}{4}$ " (108mm)	9" (229mm)
FAP40T	1480	70.7V: 1, 2, 4, 8, & 16 watts / 8 Ω Bypass	16 watts	87dB	80Hz – 15kHz (± 5 dB)	FA-TR4	7 $\frac{1}{2}$ " (187mm)	7 $\frac{1}{2}$ " (181mm)	
FAP82T	1480	70.7V: 1.9, 3.8, 7.5, 15, 30, & 60 watts / 8 Ω Bypass	70 watts	90dB	55Hz – 20kHz (± 5 dB)	FAP82-TR	15 $\frac{1}{2}$ " (400mm)	12 $\frac{3}{4}$ " (324mm)	14" (356mm)
FAP8CXT		70.7V: 1.9, 3.8, 7.5, 15, 30, & 60 watts / 8 Ω Bypass	150 watts	92dB	60Hz – 15kHz (± 5 dB)	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 Ω Bypass	100 watts	89dB	55Hz – 100Hz (± 6 dB)	FAP82-TR	14" (356mm)	12 $\frac{1}{4}$ " (323mm)	13 $\frac{1}{4}$ " (337mm)
Model	Transformer Taps	Power Handling	Sensitivity	Frequency Response	Height	Width	Depth		
SM42T	2, 4, 8, & 16 watts / 8 Ω Bypass	30 watts	88dB	115Hz – 16kHz (± 5 dB)	7" (17.78CM)	5" (12.7CM)	5 $\frac{1}{16}$ " (15.03 CM)		
SM52	N/A	100 watts	90dB	85Hz – 20kHz (± 5 dB)	10 $\frac{1}{16}$ " (25.8CM)	6 $\frac{1}{8}$ " (17.5CM)	5 $\frac{1}{8}$ " (14.85CM)		

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)	10 $\frac{1}{16}$ " (25.8CM)	6 $\frac{1}{8}$ " (17.5CM)	5 $\frac{1}{8}$ " (14.85CM)		
SM82	N/A	150 watts	92dB	65Hz – 20kHz (±5dB)	16 $\frac{1}{2}$ " (41.9CM)	9 $\frac{1}{16}$ " (23.0CM)	8 $\frac{1}{16}$ " (21.49CM)		
SM82T	1.9, 3.8, 7.5, 15, 30, & 60 watts	150 watts	92dB	65Hz – 20kHz (±5dB)	16 $\frac{1}{2}$ " (41.9CM)	9 $\frac{1}{16}$ " (23.0CM)	8 $\frac{1}{16}$ " (21.49CM)		
SM8CXT	7.5, 15, 30, & 60 watts / 8 Ω Bypass	150 watts	92dB	60Hz – 15kHz (±3dB)	15.5" (394mm)	10.625" (270mm)	10.375" (264mm)		
SM12CXT	7.5, 15, 30, & 60 watts / 8 Ω Bypass	250 watts	99dB	55Hz – 15kHz (±3dB)	19" (483mm)	14.5" (368mm)	14.0625" (357mm)		
SM8SUB70	7.5, 15, 30, & 60 watts / 8 Ω Bypass	100 watts	89dB	55Hz – 100Hz (±6dB)	15 $\frac{1}{2}$ " (356mm)	10 $\frac{1}{8}$ " (270mm)	10 $\frac{1}{8}$ " (264mm)		
SM12SUB70					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 / 8 Ω Bypass	25 watts	88dB	75Hz – 20kHz (±7dB)	13.87" (352mm)	9.25" (235mm)			
PM8FA	70.7V: 1, 2, 4, 8, & 16 watts / 8 Ω 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 / 8 Ω Bypass	100 watts	90dB	55Hz – 20kHz (±5dB)	16.62" (422mm)	12.25" (311mm)			
PM8CXT	70.7V: 7.5, 15, 30, & 60 watts / 8 Ω 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 – 8 Ω	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 – 8 Ω	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 / 8 Ω 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)	3" (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)	6⅞" (166.7mm)	3" (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)	6⅞" (166.7mm)	5¼" (130.2mm)		
FA136T87	1480	1, 2, 4, & 8	35 watts	88dB	80Hz – 20kHz (±5dB)	6⅞" (166.7mm)	5¼" (133.4mm)		
FA138	1480	N/A	70 watts	89.5dB	75Hz – 20kHz (±5dB)	8¼" (209.6mm)	3" (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	5" (137mm)	6" (156mm)	7" (192mm)	.08 ft³ (74.3CM²)				
FA95-6FA95NK-6	1480 2043	7" (178mm)	6" (156mm)	9" (238mm)	.14 ft³ (130.1CM²)				
FA95-8FA95NK-8	1480 2043	8½" (216mm)	6" (156mm)	10⅞" (276mm)	.20 ft³ (185.8CM²)				
FA97-4FA97NK-4	1480 2043	5" (137mm)	7" (194mm)	7" (192mm)	.10 ft³ (92.9CM²)				
FA97-6FA97NK-6	1480 2043	7" (178mm)	7" (194mm)	9" (238mm)	.17 ft³ (157.9CM²)				
FA97-8FA97NK-8	1480 2043	8½" (216mm)	7" (194mm)	10⅞" (276mm)	.25 ft³ (232.3CM²)				
Model	UL	Diameter	Projects						
FA51-4	1480	7" (216mm)	⅝" (8mm)						
FA51-6	1480	9" (245mm)	⅝" (8mm)						
FA51-8	1480	11½" (283mm)	⅝" (8mm)						
FA720-4	1480	7" (216mm)	⅝" (8mm)						
FA720-6	1480	9" (245mm)	⅝" (8mm)						
FA720-8	1480	11½" (283mm)	⅝" (8mm)						
Model	UL	Diameter	Projects						
FA730-4	1480	7" (216mm)	⅝" (8mm)						
FA730-6	1480	9" (245mm)	⅝" (8mm)						
FA730-8	1480	11½" (283mm)	⅝" (8mm)						
Model	UL	Length/Width (Square)	Enclosure						
FA170-4	1480	9¼" (248mm)	⅝" (8mm)						
FA170-6	1480	10⅞" (257mm)	⅝" (8mm)						
FA170-8	1480	11¼" (286mm)	⅝" (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)	23¾" (600mm)	14¼" (359mm)	¼" (6mm)					
Model	Cut-Out Diameter	Length	Width	Depth					
FA81-6	8½" (206mm)	23¾" (600mm)	14¼" (359mm)	¼" (6mm)					
FA81-8	9¾" (248mm)	23¾" (600mm)	14¼" (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 Ω	10 watts	94dB	150Hz – 17kHz	4" (102mm)	2¼" (57.2mm)		
C803A	1480	N/A – 8 Ω	16 watts	96dB	70Hz – 15.5kHz	8" (203.2mm)	2¼" (73mm)		
C10A	1480	N/A – 8 Ω	25 watts	97dB	65Hz – 19kHz	8" (203.2mm)	2¼" (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)			
GD87	1480 2043	70.7V: 1, 2, 4, & 8	16 watts	99dB	55Hz – 15kHz (±7dB)	8" (203.2mm)			
DLS4	1480 2043	70.7V: .25, .5, 1, 2, & 5	16 watts @ 8 Ω	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	Compatible Enclosures	Compatible 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)	2 1/2" (73mm)			
	UL	Transformer Taps	Power Handling	Sensitivity	Frequency Response	Height	Width	Length	
DT12	1480	.25, .5, 1, 2, & 4 watts / 8 Ω Bypass	25 watts	97dB	85Hz – 8kHz (±5dB)	4 1/2" (114mm)	12 1/2" (327mm)	23 3/4" (606mm)	
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 (Ω)	Insertion Loss	Primary Term	Secondary Term	Core Size	Power Rating (Watts)
AF140	—	30Hz – 15kHz ±1dB	Auto Transformer		.3dB	6" (152mm) Color Coded		1 1/8" x 3/8" (35mm x 35mm)	150 watts
HT42	25V	60Hz – 12kHz ±1dB	.5, 1, 2, & 4 watts	8 Ω	1.0dB	6" (152mm) Color Coded	6" (152mm) Color Coded	3/8" x 3/8" (16mm x 16mm)	4 watts
HT47	70.7V	60Hz – 12kHz ±1dB	.5, 1, 2, & 4 watts	8 Ω	1.0dB	6" (152mm) Color Coded	6" (152mm) Color Coded	3/8" x 3/8" (16mm x 16mm)	4 watts
HT87	70.7V	30Hz – 15kHz ±1dB	1, 2, 4, & 8 watts	4 Ω & 8 Ω	.6dB	6" (152mm) Color Coded	6" (152mm) Color Coded	3/4" x 3/4" (19mm x 19mm)	8 watts
HT167	70.7V	30Hz – 15kHz ±1dB	4, 8, & 16 watts	4 Ω & 8 Ω	.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 Ω & 8 Ω	.6dB	6" (152mm) Color Coded	6" (152mm) Color Coded	1 1/4" x 1 1/4" (25mm x 25mm)	32 watts
T18	70.7V	60Hz – 20kHz ±1dB	2.5, 5, 10, 20, 40, & 60 watts	4 Ω, 8 Ω, & 16 Ω	.5dB	Solder Lugs	Solder Lugs	7/8" x 7/8" (16mm x 16mm)	60 watts
LT70	70.7V	100Hz – 10kHz ±1.5dB	.5, 1, 2, & 5 watts	8 Ω	1.5dB	6" (152mm) Color Coded	3" (76mm) Self Leads	1/2" x 3/8" (13mm x 16mm)	5 watts
LT72	25V / 70.7V	100Hz – 10kHz ±1.5dB	.5, 1, 2, & 4 watts	8 Ω	1.5dB	6" (152mm) Color Coded	Common Lead + Terminals	1/2" x 3/8" (13mm x 16mm)	4 watts

	Transformer Taps	Power Handling	Sensitivity	Dispersion	Frequency Response	Dimensions			
VP14MB	.5, 1, 2, & 4 watts	25 watts	97dB	105°	50Hz - 15kHz (±5dB)	Square: 11 ¹ / ₁₆ " (290.5mm) 3 ³ / ₄ " (82.6mm)			
	Height	Width	Depth	Internal Volume					
VP14ENC	11 ¹ / ₁₆ " (290.5mm)	11 ¹ / ₄ " (298.5mm)	5 ⁵ / ₁₆ " (134.9mm)	.10 ft ³ (92.9CM ³)					
	Baffle / Enclosure	Dispersion	Transformer Taps	Height	Width	Depth - Top	Depth - Bottom	Trans-former	Volume Control (50 Ω 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)	11 ¹ / ₂ " (292.1mm)	5 ¹ / ₂ " (139.7mm)	
	Woofer	Tweeter	Frequency Response (±3dB)	Power RMS	Sensitivity @2.83V / 1M	Cut-out Size	Const-ruccion Kits		
HT8253W	8" Glass Fiber	20mm Cloth Pivoting	40Hz - 20kHz	125 watts	88dB	10 ¹ / ₂ " x 16 ¹ / ₈ "	RIK11W		
HT625W	6 ¹ / ₂ " Glass Fiber	30mm Cloth Pivoting	45Hz - 20kHz	60 watts	86dB	8 ¹ / ₄ " x 12 ¹ / ₄ "	HP8WA/ RIK8W		
HT825W	8" Glass Fiber	30mm Cloth Pivoting	40Hz - 20kHz	80 watts	87dB	10 ¹ / ₂ " x 14 ¹ / ₄ "	RIK10W		
CD520W	5 ¹ / ₄ " Poly	20mm Cloth Pivoting	50Hz - 20kHz	50 watts	83.8dB	6 ¹ / ₄ " x 9 ¹ / ₁₆ "	RIK5W + HP5W		
CD620W	6 ¹ / ₂ " Poly	20mm Cloth Pivoting	55Hz - 20kHz	60 watts	85.2dB	7 ¹ / ₁₆ " x 10 ¹ / ₈ "	HP6WA/ RIK6W		
HT2625W	Two 6 ¹ / ₂ " Glass Fiber	30mm Cloth Pivoting	45Hz - 20kHz	100 watts	89dB	14 ¹ / ₈ " x 8 ¹ / ₈ "	RIK26W		
HS28W	Two 8" Glass Fiber	-	30Hz - 100Hz	200 watts	90dB	10 ¹ / ₂ " x 18 ¹ / ₂ "	RIK28W		
	Woofer	Tweeter	Frequency Response (±3dB)	Power RMS	Sensitivity @2.83V / 1M	Cut-out Size	Const-ruccion Kits		
CD520C	5 ¹ / ₄ " Poly	20mm Cloth Pivoting	55Hz - 20kHz	50 watts	85.1dB	6 ¹ / ₈ " Diameter	HP5CA/RIK5C		
CD620C	6 ¹ / ₂ " Poly	20mm Cloth Dome	58Hz - 20kHz	60 watts	85.9dB	7 ¹ / ₁₆ " Diameter	HP6CA/RIK6C		
CD820C	8" Poly	20mm Cloth Pivoting	35Hz - 20kHz	75 watts	85.4dB	9 ¹ / ₈ " 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)	5 ¹ / ₄ " (133mm)	3 ³ / ₄ " (95mm)	
MPP4200-B	4" Glass Fiber	30mm Teteron Dome	105Hz - 20kHz	100 watts	88dB	25" (635mm)	5 ¹ / ₄ " (133mm)	3 ³ / ₄ " (95mm)	
MPP4200-S	4" Glass Fiber	30mm Teteron Dome	105Hz - 20kHz	100 watts	88dB	25" (635mm)	5 ¹ / ₄ " (133mm)	3 ³ / ₄ " (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	17 ¹ / ₄ "	14"	17 ¹ / ₂ "

	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	17 1/4"	15"	19"
SW1515	15"	250 watts	27Hz – 120Hz	Passive Radiator	Speaker Level / Unbalanced Stereo Summing RCA Line	18dB @ 25Hz	17 1/4"	15"	19"
	Woofer	Tweeter	Frequency Response (±3dB)	Power Rating	Sensitivity	Cut-out Size			
ADZIW	5 1/4"	1/2" Balanced Dome	53Hz – 20kHz	45 watts	84dB	9 5/8" x 7 1/2"			
ADZIC	6 1/2"	1/2" Balanced Dome	50Hz – 20kHz	35 watts	85dB	7 11/16" diameter			
TP212									
TP2									
TP2									
	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	14 1/2" (368mm)	10 1/4" (260mm)	13 3/4" (337mm)
	Power Handling	Impedance	Sensitivity	Frequency Response	Dispersion	Width	Height	Depth	
AH5040S	250 watts	8 Ω nominal 5.6 Ω @ 9kHz minimum	104dB	75Hz – 14.5kHz	50° Horizontal x 40° Vertical	20.5" (521mm)	20.5" (521mm)	32" (813mm)	
AH6565S	250 watts	8 Ω nominal 5.6 Ω @ 9kHz minimum	102dB	75Hz – 14.5kHz	65° Horizontal x 65° Vertical	20.5" (521mm)	20.5" (521mm)	32" (813mm)	
AH9040S	250 watts	8 Ω nominal 5.6 Ω @ 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								

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°	8Ω	Height: 8 3/4" Width: 7 1/8" Depth: 9 1/8"
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: 8 3/4" Width: 7 1/8" Depth: 9 1/8"
APF-15	1480	15 watts	600Hz – 14kHz	114dB	104dB 700Hz – 5.5kHz ±5dB	95°	8Ω	7" Diameter x 3 1/8" Height 7" Diameter x 5 1/8" 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 3 1/8" Height 7" Diameter x 5 1/8" Height
AP-30		30 watts	300Hz – 12kHz	121dB	108dB 500Hz – 4.5kHz ±5dB	60°	8Ω	Height: 10" Width: 10" Depth: 10 1/2"
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: 10 1/2"
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: 8 3/4" Width: 14 3/8" Depth: 12 3/4"
	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 V	Height: 10 1/2" Diameter: 9 1/4"
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: 16 1/2" Diameter: 9 3/4"

	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"	4"	
	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"	9"	
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"	12"	
SC-15	15 watts	600Hz – 6kHz	114dB	103dB 600Hz – 6kHz ±5dB	95°	8 Ω	6¼"	6½"	
RCMR-15	15 watts	350Hz – 13kHz	106dB	105dB 700Hz – 5.8kHz ±5dB	120°	8 Ω	7½"	7½"	
	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 Ω	8"	6½"	4¾"
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	8¼"	7½"	9½"
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	8¼"	7½"	9½"
	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°		7"	5½"	
	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		
	Dispersion	Low End Cutoff	Bell Size	Length	With PD-30T	With PD-VH / PD-SVT	With PD-60 / PD-60T		
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 Ω (Nom.)				
PD-30-16	30 watts	300Hz – 3.9kHz ±5dB	500Hz	113.6 (avg) 300Hz – 3.9kHz	16 Ω (Nom.)				
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				

	Power Rating	Plane Wave Frequency Response	Low Freq. Limit @ Full Power	Sound Level (±5db)	Impedance				
PD-5VH	40 watts	110Hz – 4.1kHz ±5dB	250Hz	110.7 (avg) 110Hz – 4.1kHz	16 Ω (Nom.)				
PD-5VT	40 watts	190Hz – 4.2kHz ±5dB	300Hz	111.2 (avg) 190Hz – 4.2kHz	70.7V: 2.5, 5, 10, 20, & 40				
PD60T	60 watts	300Hz – 3.7kHz ±5dB	300Hz	112.7 (avg) 100Hz – 3.7kHz	16 Ω (Nom.)				
PD60AT	60 watts	300Hz – 3.7kHz ±5dB	300Hz	112.7 (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	Disper-sion	Imped-ance	Internal Transformer
HLE-3(T)	HLE/MLE-30	913, 1604, 2279	60 watts Continuous	250Hz – 12kHz	108dB	-18dBm	120° x 60°	16 Ω	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 Ω	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 Ω	30 watts (Model T-20)
HLE-1(T)	HLE/MLE-32	913, 1604, 2279	60 watts Continuous	190Hz – 12kHz	112dB	-18dBm	95°	16 Ω	60 watts (Model T-18)
HLE-3(T)	HLE/MLE-32	913, 1604, 2279	60 watts Continuous	190Hz – 12kHz	111dB	-18dBm	95°	16 Ω	60 watts (Model T-18)
MLE-1(T)	HLE/MLE-32	913, 1604, 2279	30 watts Continuous	200Hz – 10kHz	110dB	-20dBm	95°	8 Ω	30 watts (Model T-20)
MLE-3(T)	HLE/MLE-32	913, 1604, 2279	30 watts Continuous	200Hz – 10kHz	110dB	-20dBm	95°	8 Ω	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)	7⅞" (187mm)	¼" (6mm)	(EZ)96-4 Series (EZ)96-4x Series	81-4			
T51-4		4" (102mm)	7⅞" (187mm)	¼" (6mm)	(EZ)E410 Series	PR411			
T51-84		4" (102mm)	8½" (216mm)	⅜" (5mm)	BMT95-4(-7)	—			
51-8	1480 2043	8" (203mm)	12¼" (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)	12¼" (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)	12¼" (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)	12¼" (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			

	UL	Speaker	Diameter	Projects	Enclosure	Mounting Rings / Tile Bridges		
T61-8W	1480 2043	8" (203mm)	12¼" (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)	12¼" (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)	12¼" (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)	12¼" (324mm)	¾" (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)	12¼" (324mm)	¾" (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)	7⅞" (187mm)	⅝" (14mm)	410-4	PR411		
T720-4BT		4" (102mm)	8½" (216mm)	⅝" (14mm)	410-4, BMT95-8(7)	PR411		
T720-8A		8" (203mm)	12" (305mm)	⅝" (14mm)	T95-8 Series, EZ95-8, BMT95-8(-7)	T75-8(E1)(E2), 81-8S		
T730-4B		4" (102mm)	7⅞" (187mm)	⅝" (3mm)	BMT95-4(-7) PR-411			
T730-4W		4" (102mm)	7⅞" (187mm)	⅝" (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)	⅝" (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)	20⅞" (510mm)	½" (13mm)	Q4915	—		
169-8	1480 2043	8" (203mm)	10½" Square (267mm)	⅝" (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)	⅝" (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)	⅝" (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)	9⅞" (237mm)	4⅞" (122mm)	N/A	N/A		
	Speaker	Width	Height	Top Depth	Bottom Depth	Finish		
417-8WD	8" (203mm)	9½" (242mm)	10½" (267mm)	5½" (140mm)	3¼" (95mm)	Walnut Grain Vinyl		

	Speaker	Diameter	Depth	Projects					
510-8(W)	8" (203mm)	9 ⁷ / ₈ " (237mm)	5 ¹ / ₂ " (133mm)	10" (254mm)					
	UL	Speaker	Diameter	Projects	Enclosure		Mounting Rings / Tile Bridges		
VP60-R	1480 2043	8" (203mm) APF-15(T), APF-15TU(C)	12 ³ / ₄ " (324mm)	1" (25mm)	(T)95-8 Series, 96-8 Series, CS95-8, Q408		75-8(E2), 76- 8(E2)		
VP161A-R4		4" (102mm)	10 ¹ / ₄ " Square (273mm)	³ / ₄ " (19mm)	161-SES, 161-RES				
VP161A-R8		8" (203mm)	10 ¹ / ₄ " Square (273mm)	³ / ₄ " (19mm)	161-SES, 161-RES				
VP161A-APF		APF-15(T) APF-15TU(C)	10 ¹ / ₄ " Square (273mm)	³ / ₄ " (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	6 ¹ / ₄ " (159mm)	5 ¹ / ₈ " (130mm)	4 ¹ / ₄ " (108mm)	¹ / ₂ " (13mm)	7 ¹ / ₈ " (181mm)	51-4, 60-4			
EZ96-4X	10 ¹ / ₈ " (257mm)	5 ¹ / ₈ " (130mm)	6" (152mm)	¹ / ₂ " (13mm)	6 ¹ / ₄ " (159mm)	51-4, 60-4			
EZE410	10 ¹ / ₈ " (257mm)	6 ³ / ₈ " (162mm)	6" (152mm)	¹ / ₂ " (13mm)	—	T51-4			
Dimensions						Mounts Baffle Model			
	A	B	C	D	E				
EZ95-8	10 ¹ / ₈ " (257mm)	9 ¹ / ₄ " (251mm)	4 ¹ / ₄ " (108mm)	11 ¹ / ₄ " (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)	10 ¹ / ₄ " (257mm)	5 ¹ / ₂ " (140mm)	11 ¹ / ₄ " (298mm)	1 ¹ / ₈ " (18mm)	T730-8B			
Mounting Rail Length									
EZ95-8	23 ³ / ₄ " (603mm)								
All EZ Models Except EZ95-8	26" (660mm)								
	Diameter	Opening	Height	Mounts Baffle Model					
BMT95-8	11 ¹ / ₄ " (298mm)	10 ¹ / ₈ " (257mm)	4 ¹ / ₄ " (108mm)	60-8W,(T)61-8W, (T)62-8, T720-8A, M222W, P900, VP60-R, 170-8A					
BMT95-8-7	11 ¹ / ₄ " (298mm)	10 ¹ / ₈ " (257mm)	7" (178mm)	60-8W,(T)61-8W, (T)62-8, T720-8A, M222W, P900, VP60-R, 170-8A					
BMT95-4	7 ¹ / ₈ " (200mm)	6 ¹ / ₂ " (165mm)	5" (127mm)	T51-84, T720-4BT					
BMT95-4-7	7 ¹ / ₈ " (200mm)	6 ¹ / ₂ " (165mm)	7" (178mm)	T51-84, T720-4BT					
	UL	Depth	Diameter	Style	Volume				
(T)95-8-7	1480 2043	7" x (178mm)	11 ¹ / ₄ " (298mm)	Recessed	.306 ft. ³ (.008 m ³)				
(T)95-8-10	1480 2043	7" (178mm)	11 ¹ / ₄ " (298mm)	Recessed	.438 ft. ³ (.012 m ³)				
96-8-7	1480 2043	7" (178mm)	11 ¹ / ₈ " (302mm)	Recessed	.449 ft. ³ (.013 m ³)				

	UL	Depth	Diameter	Style	Volume				
96-8-10	1480 2043	10" (254mm)	11 $\frac{1}{8}$ " (302mm)	Recessed	.641 ft. ³ (.018 m ³)				
198-8-8		8" (203mm)	10 $\frac{3}{8}$ " Square (270mm)	Recessed	.492 ft. ³ (.014 m ³)				
191-78-8		8" (203mm)	11 $\frac{1}{16}$ " Square (297mm)	Recessed	.632 ft. ³ (.018 m ³)				
SM191-78-8	1480 2043	8" (203mm)	12 $\frac{3}{4}$ " Square (324mm)	Surface	.753 ft. ³ (.021 m ³)				
	UL	Speaker	Volume	Diameter	Opening	Height	Flange Height	Mounts To	
Q408	1480 2043	8" (203mm)	1 ft ³ (0.28 m ³)	14 $\frac{3}{8}$ " (365mm)	12" (305mm)	10 $\frac{1}{2}$ " (267mm)	$\frac{3}{8}$ " (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 m ³)	15" (381mm)	15" (381mm)	8" (203mm)	164-8A		
Q418	1480 2043	8" (203mm)	1 $\frac{1}{2}$ (0.28 m ³)	18" (457mm)	18" (457mm)	8" (203mm)	164-8A		
Q4412		12" (305mm)	2 (0.56 m ³)	23" (584mm)	18" (457mm)	8" (203mm)	164-12A		
Q4612		12" (305mm)	3 (0.84 m ³)	23" (584mm)	18" (457mm)	12" (305mm)	164-12A		
	Speaker	Volume	Length	Width	Depth	Mounts To			
Q4712	12" (305mm)	4 (0.113 m ³)	23" (584mm)	18" (457mm)	16 $\frac{1}{2}$ " (203mm)	164-12A			
Q4812	12" (305mm)	6 (0.169 m ³)	29 $\frac{1}{2}$ " (749mm)	23" (584mm)	15" (381mm)	164-12A			
Q4915	15" (381mm)	6 (0.169 m ³)	29 $\frac{1}{2}$ " (749mm)	23" (584mm)	15" (381mm)	164-15A			
Q428-SA	8" (203mm)	1 $\frac{1}{2}$ ft ³ (0.42 m ³)	18" (457mm)	18" (457mm)	8 $\frac{1}{2}$ " (216mm)				
	UL	Speaker	Volume	Diameter	Opening	Height	Flange Height		
96-4X	1480 2043	8" (203mm)	$\frac{1}{4}$ " (.007 m ³)	10" (254mm)	6 $\frac{1}{4}$ " (159mm)	6" (152mm)	$\frac{1}{2}$ " (13mm)		
	UL	Diameter	Opening	Bolt Circle	Height	Flange Diameter			
(T)95-8	1480 2043	10 $\frac{1}{4}$ " (257mm)	9 $\frac{1}{4}$ " (251mm)	11 $\frac{1}{4}$ " (286mm)	4 $\frac{1}{4}$ " (108mm)	11 $\frac{1}{4}$ " (2998mm)			
	UL	Diameter	Opening	Bolt Circle	Height	Flange Diameter			
95-12		14 $\frac{1}{8}$ " (360mm)	14 $\frac{1}{2}$ " (361mm)	15 $\frac{1}{8}$ " (392mm)	7" (178mm)	16 $\frac{1}{2}$ " (419mm)			
95-12-12		14 $\frac{1}{8}$ " (360mm)	14 $\frac{1}{2}$ " (361mm)	15 $\frac{1}{8}$ " (392mm)	12" (305mm)	16 $\frac{1}{2}$ " (419mm)			
	UL	Diameter / Opening	Bolt Circle	Height	Flange Diameter				
CS95-8	1480 2043	9 $\frac{1}{4}$ " (249mm)	11 $\frac{1}{4}$ " (286mm)	4 $\frac{1}{4}$ " (108mm)	11 $\frac{1}{4}$ " (298mm)				
	UL	Diameter	Opening	Height	Plaster Flange Diameter	Flange Diameter			
96-8	1480 2043	11 $\frac{1}{8}$ " (302mm)	10 $\frac{3}{4}$ " (273mm)	4 $\frac{1}{4}$ " (298mm)	11 $\frac{1}{8}$ " (298mm)	13 $\frac{1}{2}$ " (343mm)			
	Diameter	Opening	Plaster Flange Height	Height					
E410	10 $\frac{1}{8}$ " (257mm)	6 $\frac{1}{8}$ " (162mm)	$\frac{1}{2}$ " (13mm)	6 $\frac{1}{2}$ " (165mm)					
E410-11	10 $\frac{1}{8}$ " (257mm)	6 $\frac{1}{8}$ " (162mm)	$\frac{1}{2}$ " (13mm)	11" (279mm)					
	UL	Diameter	Opening	Height	Plaster Flange Height	Flange Diameter			
96-4	1480 2043	6 $\frac{1}{4}$ " (159mm)	5" (127mm)	4 $\frac{1}{4}$ " (111mm)	$\frac{1}{2}$ " (13mm)	7 $\frac{1}{8}$ " (181mm)			
	UL	Length	Width	Depth					
193-8	1480 2043	9 $\frac{1}{8}$ " (243mm)	9 $\frac{1}{8}$ " (243mm)	3 $\frac{3}{4}$ " (95mm)					
193-8-6	1480 2043	9 $\frac{1}{8}$ " (244mm)	9 $\frac{1}{8}$ " (244mm)	6" (152mm)					
198-4	1480 2043	6 $\frac{1}{4}$ " (159mm)	6 $\frac{1}{4}$ " (159mm)	4 $\frac{1}{4}$ " (105mm)					
(T)198-8	1480	10 $\frac{1}{16}$ " (271mm)	10 $\frac{1}{16}$ " (271mm)	3 $\frac{3}{4}$ " (95mm)					
	Dimensions	Depth	Mounts						
SE198-4	7 $\frac{1}{2}$ " Square (181mm)	4 $\frac{1}{4}$ " (111mm)	161-4						
161SES	11" Square (279mm)	6" (152mm)	VP161 Series						
161RES	11" Square (279mm)	6" (152mm)	VP161 Series						

	Speaker	Dimensions	Depth	Mounts					
SE175-4	8" (203mm)	11 $\frac{1}{8}$ " square (295mm)	4" (102mm)	161-8, T620-8					
SM191-78	8" (203mm)	12 $\frac{1}{4}$ " Square (324mm)	4" (102mm)	164-8A					
	UL	Dimensions	Depth	Bracket Adjustment	Mounts				
191-78	1480 2043	11 $\frac{1}{8}$ " square (297mm)	4" (102mm)	$\frac{1}{16}$ " - $\frac{3}{4}$ " (2-19mm)	164-8A				
	Cut-Out	Length	Width	Depth	Mounts Baffle Models				
81-8S	8" Square (203mm)	23 $\frac{3}{8}$ " (600mm)	14 $\frac{1}{8}$ " (359mm)	$\frac{1}{4}$ " (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	10 $\frac{3}{4}$ " Diameter (273mm)	23 $\frac{3}{8}$ " (600mm)	14 $\frac{1}{8}$ " (359mm)	$\frac{1}{4}$ " (6mm)	51-8, 60-8(W), 61-8W, 62-8, 63-8, 170-8A, M222W, P900				
81-4	5 $\frac{1}{8}$ " Diameter (132mm)	23 $\frac{3}{8}$ " (600mm)	14 $\frac{1}{8}$ " (359mm)	$\frac{1}{4}$ " (6mm)	51-4, 60-4				
EO81	12 $\frac{1}{8}$ " Diameter (306mm)	23 $\frac{1}{8}$ " (602mm)	13 $\frac{3}{4}$ " (349mm)	$\frac{1}{2}$ " (13mm)	—				
Length									
180-2	23 $\frac{3}{8}$ " (603mm)								
180-4	47 $\frac{3}{8}$ " (1213mm)								
186-16	18" (457mm)								
186-24	26" (660mm)								
	Ring Outer Diameter	Flange Lip Outer Diameter	Mounting Ear Width	Overall Depth					
(T)75-8	11 $\frac{1}{4}$ " (298mm)	8 $\frac{3}{4}$ " (251mm)	—	$\frac{3}{8}$ " (16mm)					
T75-8E1	11 $\frac{1}{4}$ " (298mm)	8 $\frac{3}{4}$ " (251mm)	17" (432mm)	$\frac{3}{8}$ " (16mm)					
T75-8E2	11 $\frac{1}{4}$ " (298mm)	8 $\frac{3}{4}$ " (251mm)	23 $\frac{3}{8}$ " (597mm)	$\frac{3}{8}$ " (16mm)					
76-8	7 $\frac{1}{2}$ " (343mm)	11 $\frac{1}{8}$ " (302mm)	—	$\frac{1}{8}$ " (11mm)					
76-8E2	7 $\frac{1}{2}$ " (343mm)	11 $\frac{1}{4}$ " (302mm)	24" (610mm)	$\frac{1}{8}$ " (11mm)					
P77-8	13 $\frac{3}{8}$ " (346mm)	11 $\frac{1}{8}$ " (303mm)	—	$\frac{3}{8}$ " (10mm)					
P78-8	13 $\frac{3}{8}$ " (346mm)	11 $\frac{1}{8}$ " (303mm)	18" (457mm)	$\frac{3}{8}$ " (10mm)					
	Ring Outer Diameter	Flange Outer Diameter	Overall Depth	Flange Lip Depth	Mounting Ear Width				
PR411	7 $\frac{1}{8}$ " (200mm)	6 $\frac{3}{8}$ " (162mm)	3 $\frac{1}{4}$ " (83mm)	$\frac{1}{2}$ " (13mm)	—				
TR-411	25 $\frac{1}{8}$ " (675mm)	6 $\frac{3}{8}$ " (162mm)	3 $\frac{1}{8}$ " (81mm)	$\frac{1}{2}$ " (13mm)	24" (610mm)				
	Width	Height	Clock / Hole Clearance Diameter	Mounts (Order Separately)					
				Speaker	Clock	Enclosure			
830-89A	26 $\frac{1}{2}$ " (673mm)	14" (356mm)	8 $\frac{3}{4}$ " (222mm)	8" (203mm)	9" (229mm) 10" (254mm)	194-89			
830-812A	33 $\frac{3}{8}$ " (860mm)	17 $\frac{1}{4}$ " (454mm)	10 $\frac{1}{2}$ " (267mm)	8" (203mm)	12" (305mm)	SM194-89, 194-812			
840-89A	26 $\frac{1}{4}$ " (679mm)	13 $\frac{1}{8}$ " (348mm)	8 $\frac{3}{4}$ " (222mm)	8" (203mm)	9" (229mm) 10" (254mm)	SM194-812, 195-89, SM195-89			
840-812A	33 $\frac{3}{8}$ " (862mm)	18 $\frac{1}{4}$ " (459mm)	10 $\frac{1}{2}$ " (267mm)	8" (203mm)	12" (305mm)	195-812, SM195-812			
	Type	Width	Height	Depth	Mounts				
194-89	Recessed	24 $\frac{1}{2}$ " (622mm)	12 $\frac{1}{8}$ " (306mm)	3" (76mm)	830-89A				
194-812	Recessed	31 $\frac{1}{8}$ " (803mm)	15 $\frac{1}{8}$ " (403mm)	3" (76mm)	830-812A				
195-89	Recessed	23 $\frac{3}{8}$ " (606mm)	11 $\frac{1}{4}$ " (302mm)	3" (76mm)	840-89A				
195-812	Recessed	31 $\frac{1}{4}$ " (794mm)	16" (406mm)	3" (76mm)	840-812A				
SM194-89	Surface	26 $\frac{1}{8}$ " (676mm)	14 $\frac{1}{8}$ " (359mm)	3" (76mm)	830-89A				
SM194-812		34" (864mm)	18" (457mm)	3" (76mm)	830-812A				
SM195-89		26 $\frac{1}{8}$ " (683mm)	13 $\frac{3}{8}$ " (351mm)	3" (76mm)	840-89A				
SM195-812		34 $\frac{1}{8}$ " (865mm)	18 $\frac{3}{8}$ " (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)	2½" (54mm)	2¼" (70mm)	2¼" (70mm)	1¾" (44mm)				
AT10-PA	4½" (114mm)	2½" (54mm)	2¼" (70mm)	2¼" (70mm)	1¾" (44mm)				
AT35	4½" (114mm)	2½" (54mm)	2¼" (70mm)	2¼" (70mm)	1¾" (44mm)				
AT35-PA	4½" (114mm)	2½" (54mm)	2¼" (70mm)	2¼" (70mm)	1¾" (44mm)				
AT100	4½" (114mm)	2½" (54mm)	2¼" (70mm)	2¼" (70mm)	1¾" (44mm)				
AT100-PA	4½" (114mm)	2½" (54mm)	2¼" (70mm)	2¼" (70mm)	1¾" (44mm)				
E408-100	4½" (114mm)	2½" (67mm)	2¼" (52mm)	2¼" (70mm)	2½" (59mm)				
Model Series	Impedance	Voltage	Power Rating	Plate Style	Type	Requires		Attenuation	
DWS-8(I/W)	8 Ω	—	50 watts	Decora	Stereo, Switched	20 in³ E.O. Box & Power Supply		10 Steps, 22.5dB Total	
SWS-8I	8 Ω	—	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 Ω	—	25 watts	Decora	Left, Right, Summing Switched	20 in³ E.O. Box & Power Supply		10 Steps, 22.5dB Total	
SSUMS-8I	8 Ω	—	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 Ω	—	3dB	30dB	.5dB	1 gang		
DAT35ST70 (I/W)	35 watts	—	25V or 70.7V	3dB	27dB	.5dB	1 gang		

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 3/8" 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 3/8" 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 5 1/4" 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							
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							

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 Ω	Input 1 Mic .316 ~ 3.16 mV (-50 ~ -70dBV) Input 1 Telephone / Line 316mV (-10dBV) 10k Ω (optional 600 Ω transformer available) Input 2/3 316 mV (10dBV) 10k Ω	50Hz – 20kHz	.5% or less, at 1kHz, rated output .1% or less, at 1kHz, 5 watts output	Main: Transformer coupled, balanced, 8 Ω, 25V, and 70.7V Zone 2- 8 Ω Unbalanced 1 watt, Zone 2- 600 Ω 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 Ω	Input 1 Mic .316 ~ 3.16 mV (-50 ~ -70dBV) Input 1 Telephone / Line 316mV (-10dBV) 10k Ω (optional 600 Ω transformer available) Input 2/3 316 mV (10dBV) 10k Ω	50Hz – 20kHz	.5% or less, at 1kHz, rated output .1% or less, at 1kHz, 5 watts output	Main: Transformer coupled, balanced, 8 Ω, 25V, and 70.7V Zone 2- 8 Ω Unbalanced 1 watt, Zone 2- 600 Ω 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 Ω	Input 1 Line/Tel 316mV (-10dBV) 10k Ω (600 Ω w optional/transformer) Mic .316mV~3.16mV (-50dBV~ -70dBV) Inputs 2-5 Line 316mV (-10dBV) 10k Ω 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 Ω, 25V, and 70.7V Zone 2 8 Ω Unbalanced 1 watt, Zone 2 600 Ω Balanced 1.5V	300 watts	Width: 16.54" (420mm) Height: 2RU, 3.66" (94mm) Depth: 14.06" (357mm)

Model	Power Rating	Output	Inputs	Frequency Response	Distortion	Outputs	Power Consumption	Dimensions
AA240	240 watts RMS	25V / 70.7V / 100V & 8 Ω	Input 1 Line/Tel 316mV (-10dBV) 10k Ω (600 Ω w optional/transformer) Mic 6mV~3.16mV (-50dBV~-70dBV) Inputs 2-5 Line 316mV (-10dBV) 10k Ω 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 Ω, 25V, and 70.7V Zone 2 8 Ω Unbalanced 1 watt, Zone 2 600 Ω 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 Ω	Input 1 Line 316mV (-10dBV) 10k Ω / Mic .316mV~3.16mV (-50dBV~-70dBV) Inputs 2-4 Line 100mV (-20dBV) 10k Ω / 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 Ω, 25V, and 70.7V Zone 2 8 Ω Unbalanced 1 watt, Zone 2 600 Ω 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 Ω Unbalanced (RCA) 500mV (-6dBV) 20k Ω	50Hz – 20kHz ±3dB	.5% or less, at 1kHz, rated output .1% or less, at 1kHz, 5 watts output	Main Transformer coupled, balanced, 4 Ω, 70.7V, and 100V Line Out Unbalanced 600 Ω	120VAC / 240VAC (Switchable)	Width: 8.27" (210mm) Height: 2RU, 3.66" (94mm) Depth: 14" (357mm)	AARMK2-5
	Power Rating	Inputs	Frequency Response	Power Consumption	Dimensions			
PA702	70 watts RMS per channel @ 8 Ω	Unbalanced (RCA) 10k Balanced ("Phoenix") 20k	30Hz – 20kHz (±3dB)	16 watts sleep mode	Width: 8.5" (216mm) Height: 1RU, 1.75" (45mm) Depth: 13.5" (343mm)			
PA1001G								
	Output Setting	Power Rating	Inputs	Frequency Response	Distortion	Signal To Noise	Dimensions	
CP400	25V Stereo 70.7V Stereo 100V Stereo 140V Bridged Mono 200V Bridged Mono 8 Ω Stereo 4 Ω Stereo 2 Ω Stereo 8 Ω Bridged Mono 4 Ω Bridged Mono	175 watts x2 200 watts x2 200 watts x2 400 watts 400 watts 160 watts x2 240 watts x2 270 watts x2 500 watts 600 watts	Balanced/ Unbalanced 20k / 10k Ω	Direct Outputs (±3dB) 30Hz – 50kHz Transformer Outputs (±3dB) 30Hz – 16kHz	8Ω, 1kHz, 240 watts per channel < .05%	8 Ω per Channel @ 240 watts > 100dB	3RU, Height: 5.19" (132mm) Width: 18.9" (480mm) Depth: 16.85" (428mm)	
CP700	25V Stereo 70.7V Stereo 100V Stereo 140V Bridged Mono 200V Bridged Mono 8 Ω Stereo 4 Ω Stereo 2 Ω Stereo 8 Ω Bridged Mono 4 Ω Bridged Mono	280 watts x2 350 watts x2 350 watts x2 700 watts 700 watts 240 watts x2 400 watts x2 550 watts x2 850 watts 1100 watts	Balanced/ Unbalanced 20k / 10k Ω	Direct Outputs (±3dB) 30Hz – 50kHz Transformer Outputs (±3dB) 30Hz – 16kHz	8Ω, 1kHz, 240 watts per channel < .05%	8 Ω 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	6¼" (171mm)	3¼" (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)	2¼" (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 (Nom.)	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)	
UL	Model	Input	Output (Nom.)	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	6¼" (171mm)	3¾" (92mm)	4" (102mm)
2017	TS242	105 - 125VAC 60Hz, 74 watts	24VDC 2 Amp	Less Than 0.5%	28-22.4V	3¾" (98mm)	10¾" (276mm)	6" (152mm)
Model	Input	Output (Nom.)	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	6¼" (171mm)	3¾" (92mm)	2" (51mm)	
Model	Input	Output (Nom.)	Ripple @ Full Load	Regulation 0 - Full Load	Length	Width	Height	
TPS24-05	117VAC 60Hz, 26 watts	24VDC ½ Amp Talk Line	0.5mV	500mV	6¼" (171mm)	3¾" (92mm)	2" (51mm)	
Relay Pack Chassis Modules (Without Relays)								
Model	Relay Socket Quantity	Length	Width	Height				
RPM-2	2	4¾"	3¾"	1½"				
RPM-4	4	5½"	4¾"	1½"				
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 (1 W / 1 M) UL: 90dB (1 W / 1 M)			
VT-157UCR	1480	70.7V: 2, 4, 8, & 15 watts	600Hz - 5.5kHz (±5dB)	>190° (-6dB point, 1 and 2kHz octave bands)	96.9dB (1 W / 1 M) UL: 90dB (1 W / 1 M)			
VTF-157UCN	1480	70.7V: 2, 4, 8, & 15 watts	600Hz - 5.5kHz (±5dB)	>190° (-6dB point, 1 and 2kHz octave bands)	96.9dB (1 W / 1 M) UL: 90dB (1 W / 1 M)			
VTF-157UCR	1480	70.7V: 2, 4, 8, & 15 watts	600Hz - 5.5kHz (±5dB)	>190° (-6dB point, 1 and 2kHz octave bands)	96.9dB (1 W / 1 M) UL: 90dB (1 W / 1 M)			
VT-152UCN	1480	25V: 2, 4, 8, & 15 watts	600Hz - 5.5kHz (±5dB)	>190° (-6dB point, 1 and 2kHz octave bands)	96.9dB (1 W / 1 M) UL: 90dB (1 W / 1 M)			
VT-152UCR	1480	25V: 2, 4, 8, & 15 watts	600Hz - 5.5kHz (±5dB)	>190° (-6dB point, 1 and 2kHz octave bands)	96.9dB (1 W / 1 M) UL: 90dB (1 W / 1 M)			
VTF-152UCN	1480	25V: 2, 4, 8, & 15 watts	600Hz - 5.5kHz (±5dB)	>190° (-6dB point, 1 and 2kHz octave bands)	96.9dB (1 W / 1 M) UL: 90dB (1 W / 1 M)			
VTF-152UCR	1480	25V: 2, 4, 8, & 15 watts	600Hz - 5.5kHz (±5dB)	>190° (-6dB point, 1 and 2kHz octave bands)	96.9dB (1 W / 1 M) UL: 90dB (1 W / 1 M)			

Model	Frequency Response	Dispersion	Sensitivity					
SVT-27UCS	500Hz - 5000Hz (±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 Ω			
VTB-2	15 watts	400Hz - 4kHz	107dB	150°	4 Ω			
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 Ω	10,600 Gauss	97dB (1 W / 1 M)
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 Ω (nominal)	100Hz - 2.5kHz (±5dB)	400Hz	117dBa			
Model	Description	Size	Mounts					
EST-510	Tip Assembly-Gray	3¼" Length	AS-100N					
EST-527	Tip Assembly-Gray	5¼" Length	AS-100N					
ESB-974	Loudspeaker Bell-Gray	5½" Diameter x 3" Depth	AS-100N					
K-100N	Replacement Head Assembly	—	HPG100N AS100N					
YDA-TH	Dual Driver Adapter 1½"-18F, 1½"-18M thread	—	HPG100N AS100N					
Model	Description	Dimensions						
VPCS-2G-2	25V; 2-Gang	4¼" Square (121mm) 2½" Depth (54mm)						
VPCS-2GPB-2	25V; 2-Gang w/ Call Switch	4¼" Square (121mm) 2½" Depth (54mm)						
VPCS-3GPB-245	25V; 3-Gang w/ Call Switch	Width 6¼" (162mm) Height: 4¼" (121mm) Depth: 2¼" (54mm)						
Model	Description	Width	Height	Depth				
VPB-1A	Plated Mounted 1-gang Call Switch	2¼" (70mm)	4¼" (114mm)	1¾" (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" (158.75mm)	3½" (88.9mm)	VPVT-PB Series				
Model	Power Rating	Transformer	Frequency Response	Sensitivity As Microphone				
WPVT-1SN	15 watts (8 Ω)	—	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 Ω)	—	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	4⅞" (119mm)	4½" (117mm)	2⅝" (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	Dimensions				
LT600-VC	600 Ω	600 Ω, 10k Ω, 25k Ω	60Hz – 12kHz	Length: 4¾" (124mm) Width: 3¾" (80mm) Height: 1¼" (44mm)				
Model	Input	Output (Nom.)	Ripple @ Full Load	Regulation 0 - Full Load	Dimensions			
TPS24-05	117VAC 60Hz, 36 watts	24VDC ½ Amp Talk Line	0.5mV	500mV	Length: 6¾" (172mm) Width: 3¾" (92mm) Height: 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 Ω – 200 Ω)							
TU-1	Replacement handset transmitter (50 Ω)							
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								
AM1200								
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)	25/8" (67mm)	7.5" (191mm)	7" (178mm)		

	FMA35-25SA	FMA44-25SA	FMA35-25G	FMA44-25G	FMA44-36G
Width (Outside)	24.12" (612.65 mm)	24.12" (612.65 mm)	24.12" (612.65 mm)	24.12" (612.65 mm)	24.12" (612.65 mm)
Height (Outside)	69.31" (1760.54 mm)	85.06" (2160.59 mm)	69.31" (1760.54 mm)	85.06" (2160.59 mm)	85.06" (2160.59 mm)
Depth (Outside)	25.5" (648 mm)	25.5" (648 mm)	25.5" (648 mm)	25.5" (648 mm)	30" (762 mm)
Panel Space	35 RU 61.31" (1557.34 mm)	44 RU 77.06" (1957.39 mm)	35 RU 61.31" (1557.34 mm)	44 RU 77.06" (1957.39 mm)	44 RU 77.06" (1957.39 mm)
Usable Depth	24.125" (612.775 mm)	24.25" (615.95 mm)	24.0625" (611.19 mm)	24.25" (615.95 mm)	34" (863.6 mm)
Top Panel Opening	12 RU 21.06" (535 mm)	12 RU 21.06" (535 mm)	12 RU 21.06" (535 mm)	12 RU 21.06" (535 mm)	18 RU 31.62" (803.285 mm)
Floor Mounting Hole Location	23.28" (591.55 mm)	23.28" (591.55 mm)	23.28" (591.55 mm)	23.28" (591.55 mm)	33.78" (858.25 mm)
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" (567 mm)	22.3125" (567 mm)	22.3125" (567 mm)	22.3125" (567 mm)
Height (Outside)	65.5" (1664 mm)	74.25" (1886 mm)	81.25" (2024 mm)	81.25" (2024 mm)
Depth (Outside)	25.5" (348 mm)	25.5" (348 mm)	25.5" (348 mm)	30" (762 mm)
Panel Space	35 RU 61" (1556 mm)	40 RU 70 $\frac{1}{8}$ " (1778 mm)	44 RU 77 $\frac{1}{8}$ " (1956 mm)	44 RU 77 $\frac{1}{8}$ " (1956 mm)
Usable Depth	23.81" (605 mm)	23.81" (605 mm)	23.81" (605 mm)	23.81" (605 mm)
Top Panel Opening	6 RU 10.5" (266.7 mm)	6 RU 10.5" (266.7 mm)	6 RU 10.5" (266.7 mm)	6 RU 10.5" (266.7 mm)
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)	22 $\frac{7}{8}$ " (567 mm)	22 $\frac{7}{8}$ " (567 mm)	22 $\frac{7}{8}$ " (567 mm)	22 $\frac{7}{8}$ " (567 mm)	22 $\frac{7}{8}$ " (567 mm)
Height (Outside)	65 $\frac{1}{2}$ " (1664 mm)	74 $\frac{1}{4}$ " (1886 mm)	81 $\frac{1}{2}$ " (2024 mm)	81 $\frac{1}{2}$ " (2024 mm)	81 $\frac{1}{4}$ " (2024 mm)
Depth (Outside)	25 $\frac{1}{2}$ " (348 mm)	25 $\frac{1}{2}$ " (348 mm)	25 $\frac{1}{2}$ " (348 mm)	30" (762 mm)	36.02" (916 mm)
Panel Space	35 RU 61" (1556 mm)	40 RU 70 $\frac{1}{4}$ " (1778 mm)	44 RU 77 $\frac{1}{2}$ " (1956 mm)	44 RU 77 $\frac{1}{2}$ " (1956 mm)	44 RU 77 $\frac{1}{2}$ " (1956 mm)
Usable Depth	23.81" (605 mm)	23.81" (605 mm)	23.81" (605 mm)	23.81" (605 mm)	34.03" (864 mm)
Top Panel Opening	12 RU 21.06" (535 mm)	12 RU 21.06" (535 mm)	12 RU 21.06" (535 mm)	14 RU 24.5" (622.3 mm)	18 RU 31.62" (803.285 mm)
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" (567 mm)	22.3125" (567 mm)	22.3125" (567 mm)	22.3125" (567 mm)	22.3125" (567 mm)
Height (Outside)	41" (1041 mm)	46.25" (1175 mm)	65.5" (1664 mm)	74.25" (1886 mm)	81.25" (2024 mm)
Depth (Outside)	18.5" (470 mm)	18.5" (470 mm)	18.5" (470 mm)	18.5" (470 mm)	18.5" (470 mm)
Panel Space	21 RU 36.875"	24 RU 42.125"	35 RU 61"	40 RU 70.125"	44 RU 77.125"
Usable Depth	17" (432 mm)	17" (432 mm)	17" (432 mm)	17" (432 mm)	17" (432 mm)
Top Panel Opening					
Optional Accessories					
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

	18 1/2" Depth					25 1/2" 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)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)	22 1/2" (567 mm)
Height (Outside)	41" (1041 mm)	46 1/2" (1175 mm)	65 1/2" (1664 mm)	74 1/2" (1886 mm)	81 1/2" (2024 mm)	41" (1041 mm)	46 1/2" (1175 mm)	65 1/2" (1664 mm)	74 1/2" (1886 mm)	81 1/2" (2024 mm)	41" (1041 mm)	46 1/2" (1175 mm)	65 1/2" (1664 mm)	74 1/2" (1886 mm)	81 1/2" (2024 mm)
Depth (Outside)	18 1/2" (470 mm)	18 1/2" (470 mm)	18 1/2" (470 mm)	18 1/2" (470 mm)	18 1/2" (470 mm)	25 1/2" (348 mm)	25 1/2" (348 mm)	25 1/2" (348 mm)	25 1/2" (348 mm)	25 1/2" (348 mm)	30" (762 mm)	30" (762 mm)	30" (762 mm)	30" (762 mm)	30" (762 mm)
Panel Space	21 RU 36.875"	24 RU 42.125"	35 RU 61"	40 RU 70.125"	44 RU 77.125"	21 RU 36.875"	24 RU 42.125"	35 RU 61"	40 RU 70.125"	44 RU 77.125"	21 RU 36.875"	24 RU 42.125"	35 RU 61"	40 RU 70.125"	44 RU 77.125"
Usable Depth	17" (432 mm)	17" (432 mm)	17" (432 mm)	17" (432 mm)	17" (432 mm)	24" (610 mm)	24" (610 mm)	24" (610 mm)	24" (610 mm)	24" (610 mm)	28 1/2" (725 mm)	28 1/2" (725 mm)	28 1/2" (725 mm)	28 1/2" (725 mm)	28 1/2" (725 mm)
Top Panel Opening	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm	6 RU 10.5" 266 mm
Optional Accessories															
1" Plexi-glass Front Door	PFD21	PFD24	PFD35	PFD40	PFD44	PFD21	PFD24	PFD35	PFD40	PFD44	PFD21	PFD24	PFD35	PFD40	PFD44
1" Perforated Front Door	MPFD 21	MPFD 24	MPFD 35	MPFD 40	MPFD 44	MPFD 21	MPFD 24	MPFD 35	MPFD 40	MPFD 44	MPFD 21	MPFD 24	MPFD 35	MPFD 40	MPFD 44
1" Solid Front Door	SFD21	SFD24	SFD35	SFD40	SFD44	SFD21	SFD24	SFD35	SFD40	SFD44	SFD21	SFD24	SFD35	SFD40	SFD44
3" Perforated Front Door	—	MPFD 24-3	MPFD 35-3	—	—	—	MPFD 24-3	MPFD 35-3	—	—	—	MPFD 24-3	MPFD 35-3	—	—
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" (524 mm)	20.625" (524 mm)	20.625" (524 mm)	20.625" (524 mm)	20.625" (524 mm)	20.625" (524 mm)	20.625" (524 mm)	20.625" (524 mm)	20.625" (524 mm)	20.625" (524 mm)
Height (Outside)	15.5" (393 mm)	20.5" (521 mm)	24" (610 mm)	31" (787 mm)	45" (1143 mm)	20.5" (521 mm)	24" (610 mm)	31" (787 mm)	45" (1143 mm)	64.5" (1638 mm)
Depth (Outside)	18.5" (470 mm)	18.5" (470 mm)	18.5" (470 mm)	18.5" (470 mm)	18.5" (470 mm)	21.5" (546 mm)	21.5" (546 mm)	21.5" (546 mm)	21.5" (546 mm)	21.5" (546 mm)
Panel Space	12.25" (7 RU)	17.5" (10 RU)	21" (12 RU)	28.125" (16 RU)	42.125" (24 RU)	17.5" (10 RU)	21" (12 RU)	28.125" (16 RU)	42.125" (24 RU)	61" (35 RU)
Usable Depth	12" (305 mm)	12" (305 mm)	12" (305 mm)	12" (305 mm)	12" (305 mm)	15" (381 mm)	15" (381 mm)	15" (381 mm)	15" (381 mm)	15" (381 mm)
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" (555.63 mm)	21.875" (555.63 mm)	21.875" (555.63 mm)	21.875" (555.63 mm)	21.875" (555.63 mm)
Height (Outside)	23.125" (587.38 mm)	26.625" (676.28 mm)	33.75" (857.25 mm)	47.75" (1212.85 mm)	67" (1701.8 mm)
Depth (Outside)	23.53" (597.66 mm)	23.53" (597.66 mm)	23.53" (597.66 mm)	23.53" (597.66 mm)	23.53" (597.66 mm)
Panel Space	17.5" (10 RU)	21" (12 RU)	28.125" (16 RU)	42.125" (24 RU)	61" (35 RU)
Usable Depth	18" (457.2 mm)	18" (457.2 mm)	18" (457.2 mm)	18" (457.2 mm)	18" (457.2 mm)
Top Panel Opening	3 RU 5.25" (89 mm)	3 RU 5.25" (89 mm)	3 RU 5.25" (89 mm)	3 RU 5.25" (89 mm)	3 RU 5.25" (89 mm)
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	24 $\frac{1}{2}$ " (622.3mm)	33 $\frac{1}{16}$ " (853mm)	22 $\frac{3}{16}$ " (567mm)	25 $\frac{1}{2}$ " (648mm)	RR14	SFD14, PFD14, MPFD14		
RX14-30	14RU	24 $\frac{1}{2}$ " (622.3mm)	33 $\frac{1}{16}$ " (853mm)	22 $\frac{3}{16}$ " (567mm)	30" (762mm)	RR14	SFD14, PFD14, MPFD14		
RX21-25	21RU	30 $\frac{1}{2}$ " (933.5mm)	45 $\frac{1}{16}$ " (1164mm)	22 $\frac{3}{16}$ " (567mm)	25 $\frac{1}{2}$ " (648mm)	RR21	SFD21, PFD21, MPFD21		
RX21-30	21RU	30 $\frac{1}{2}$ " (933.5mm)	45 $\frac{1}{16}$ " (1164mm)	22 $\frac{3}{16}$ " (567mm)	30" (762mm)	RR21	SFD21, PFD21, MPFD21		
RX14-25-SFD	14RU	24 $\frac{1}{2}$ " (622.3mm)	33 $\frac{1}{16}$ " (853mm)	22 $\frac{3}{16}$ " (567mm)	25 $\frac{1}{2}$ " (648mm)	RR14	SFD14 Included		
RX14-30-SFD	14RU	24 $\frac{1}{2}$ " (622.3mm)	33 $\frac{1}{16}$ " (853mm)	22 $\frac{3}{16}$ " (567mm)	30" (762mm)	RR14	SFD14 Included		
RX21-25-SFD	21RU	30 $\frac{1}{2}$ " (933.5mm)	45 $\frac{1}{16}$ " (1164mm)	22 $\frac{3}{16}$ " (567mm)	25 $\frac{1}{2}$ " (648mm)	RR21	SFD21 Included		
RX21-30-SFD	21RU	30 $\frac{1}{2}$ " (933.5mm)	45 $\frac{1}{16}$ " (1164mm)	22 $\frac{3}{16}$ " (567mm)	30" (762mm)	RR21	SFD21 Included		
Model	Rack Unit	Panel Opening	Cabinet Width	Height	Depth	Optional Front Door			
407-15	7RU	12 $\frac{1}{8}$ "	22 $\frac{1}{8}$ "	15 $\frac{1}{2}$ "	15 $\frac{1}{8}$ "	SFD407			
410-15	10RU	17 $\frac{1}{8}$ "	22 $\frac{1}{8}$ "	20 $\frac{1}{4}$ "	15 $\frac{1}{8}$ "	SFD410			
412-15	12RU	21 $\frac{1}{4}$ "	22 $\frac{1}{8}$ "	24 $\frac{1}{4}$ "	15 $\frac{1}{8}$ "	SFD412			
414-15	14RU	24 $\frac{1}{8}$ "	22 $\frac{1}{8}$ "	27 $\frac{1}{4}$ "	15 $\frac{1}{8}$ "	SFD414			
418-15	18RU	31 $\frac{1}{8}$ "	22 $\frac{1}{8}$ "	27 $\frac{1}{4}$ "	15 $\frac{1}{8}$ "	SFD416			
Model	Overall Height	Racking Height	Overall Depth		Overall Width				
RKW12-18	22.5" (572mm)	21" (12RU) (533mm)	18" (457mm)		20.46" (520mm)				
RKW16-18	29.5" (749mm)	28" (16RU) (711mm)	18" (457mm)		20.46" (520mm)				

Basic Frame	As Offered		With Member Removed		Height	Depth	Width		
	RU	Panel Space	RU	Panel Space					
912-18	11RU	19.25" (489mm)	12RU	21" (533 mm)	23 $\frac{3}{8}$ " (589 mm)	18" (457 mm)	19 $\frac{1}{4}$ " (489 mm)		
916-18	15RU	26 $\frac{1}{4}$ " (667mm)	16RU	28" (711mm)	30" (762mm)	18" (457mm)	19 $\frac{1}{4}$ " (489mm)		
Stacked Frame Combinations	Total RU	Total Panel Space	Overall Height	Depth	Width				
(2) 912-18	24RU	42" (1067mm)	46 $\frac{1}{2}$ " (1178mm)	18" (457mm)	19 $\frac{1}{4}$ " (489mm)				
(1) 912-18, (1) 916-18	28RU	49" (1245mm)	53 $\frac{3}{8}$ " (1351mm)	18" (457mm)	19 $\frac{1}{4}$ " (489mm)				
(2) 916-18	32RU	56" (1422mm)	59 $\frac{1}{4}$ " (1518mm)	18" (457mm)	19 $\frac{1}{4}$ " (489mm)				
(3) 912-18	36RU	63" (1600mm)	69 $\frac{1}{8}$ " (1767mm)	18" (457mm)	19 $\frac{1}{4}$ " (489mm)				
(2) 912-18, (1) 916-18	40RU	70" (1778mm)	76 $\frac{1}{2}$ " (1940mm)	18" (457mm)	19 $\frac{1}{4}$ " (489mm)				
(1) 912-18, (2) 916-18	44RU	77" (1956mm)	83 $\frac{1}{8}$ " (2113mm)	18" (457mm)	19 $\frac{1}{4}$ " (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 RUs: 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	14 $\frac{1}{4}$ " (375mm)	15 $\frac{1}{2}$ " (394mm)	22 $\frac{3}{8}$ " (563mm)	15 $\frac{1}{8}$ " (391mm)				
Model	Material	Dimensions		Mounts (Top or Bottom Opening)					
ISOPANEL	Polymer	19" Width x 6" Height		100, 200, & 500 Series					
Series Description	1RU	2RU	3RU	4RU	5RU				
	1.75"	3.5"	5.25"	7"	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	7RU	8RU	12RU	14RU	18RU			
	10.5"	12.25"	14"	21"	24.5"	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	3 $\frac{1}{2}$ " (89mm)	14 $\frac{1}{32}$ " (376mm)	14" (356mm)	SHRSB2				
SD3-14	3RU	5 $\frac{1}{4}$ " (133mm)	14 $\frac{1}{32}$ " (376mm)	14" (356mm)	SHRSB3				
SD4-14	4RU	7" (177.8mm)	14 $\frac{1}{32}$ " (376mm)	14" (356mm)	SHRSB4				
SD6-14	6RU	10 $\frac{1}{2}$ " (266.7mm)	14 $\frac{1}{32}$ " (376mm)	14" (356mm)	—				

Model	Rack Unit	Panel Space	Width	Depth					
CD3	3RU	5¼" (133mm)	17½" (444.5mm)	5⅝" (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)	3⅞" (80mm)	12" (305mm)	17½" (445mm)				
Model	Rack Unit	Panel Space	Width	Depth	Drawer Extension	Mounts			
PCD3-16-052	2RU	3½" (88.9mm)	16⅞"(414mm)	16⅜½" (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: 16⅞" (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	12¾" (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								

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)	24¾" (624mm)	20¾" (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	¾"-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)	3¾" (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	6¾" (158mm)	4½" (114mm)	2½" (64mm)
SACS-1F	2 switched	20 amps	30 amps	24VDC nominal, 18VDC minimum		1 switch	6¾" (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)	2¾" (67mm)	1¾" (41mm)	With P.O. greater than 21RU	
ACS-1A	5	12 (6 Duplex)	15 Amps	6" Pigtails	36¾" (933mm)	2¾" (67mm)	1¾" (41mm)	With P.O. greater than 21RU	
ACS-2A	5	12 (6 Duplex)	20 Amps	6" Pigtails	36¾" (933mm)	2¾" (67mm)	1¾" (41mm)	With P.O. greater than 21RU	
RAC-5		5	15 Amps	6' Power Cord	16¾" (410mm)	1½" (38mm)	2" (51mm)	24RU – 44RU: RX, 200, 500, 700, & FMA Series	
RAC-5B	5	5	15 Amps	6' Power Cord	16¾" (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	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		
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" (53.3CM)		
SB36W(E)	Two-section (E/C)	49" - 73" (124.5CM – 185.4CM)		62" (157.5CM)	Adj., 6 lbs		21" (53.3CM)		
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	Length	Tube Finish	Swivel	Counterweight		
PB11XCH	16 1/4" – 24 1/2" (413mm – 622mm)	Chrome Plated	Threaded 3/4" -27 Female Mount	Adjustable 2 lbs		
PB11XEB	16 1/4" – 24 1/2" (413mm – 622mm)	Ebony Epoxy	Threaded 3/4" -27 Female Mount	Adjustable 2 lbs		
PB15CH	34" (864mm)	Chrome Plated	Threaded 3/4" -27 Female Mount	Adjustable 2 lbs		
PB15EB	34" (864mm)	Ebony Epoxy	Threaded 3/4" -27 Female Mount	Adjustable 2 lbs		
PB21XCH	25 1/4" – 38 1/2" (641mm – 978mm)	Chrome Plated	Threaded 3/4" -27 Female Mount	Adjustable 2 lbs		
PB21XEB	25 1/4" – 38 1/2" (641mm – 978mm)	Ebony Epoxy	Threaded 3/4" -27 Female Mount	Adjustable 2 lbs		
Model	Length	Tube Finish	Swivel	Counterweight		
BE-E	24" - 39" (61CM – 99.1CM)	Satin Ebony	Threaded 3/4" -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	1 1/2" Diameter (3.4CM)	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	3/4" long, 3/4" -27 male Running thread; brass, no plating					
AD-5B	3/4" -27 female to 3/4" -27 female coupling; chrome plated					
AD-6B	3/4" female to 3/4" -27 female coupling; chrome plated					
Model	Description					
AD-11B(E)	3/4" long, 3/4" -27 female flange with 1 1/2" base diameter; chrome or ebony (E)					
AD-12B(E)	3/4" long, 3/4" -27 male flange with 1 1/2" base diameter; chrome or ebony (E)					
AD-5B	3/4" -27 male flange with base holes on 1 1/2" centers; chrome or ebony (E)					
Model	Description					
AD-7B	3" (76mm) long tube with 3/4" - 27 male at each end; chrome plated					
AD-8B	6" (152mm) long tube with 3/4" - 27 male at each end; chrome plated					
AD14B(E)	Right angle tube with 3/4" - 27 male and female end; chrome plated; 4" (102mm) Height x 4" (102mm) Extension					
AD19B(E)	45° angle tube with 3/4" - 27 male and female end; chrome plated; 6" (152mm) Height x 3" (76mm) Extension					
Model	Description					
MSC-K	Replacement Clutch Kit for 3/4" MS & DS Series – Chrome					
MSCE-K	Replacement Clutch Kit for 3/4" 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 3/4" - 3/4" Top Adapter for MS20 / MS25 – Chrome					
MS2XTAE	Replacement 3/4" - 3/4" 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 ½" Lock Rings – Ebony –25 Piece Bag						
LR58C-25	Replacement ½" Lock Rings – Chrome –25 Piece Bag						
MS1012RF-24	Replacement Feet MS10 / MS12 – Pre 2003 – 24 Piece Bag						
MS12BASE	Replacement Base for MS12						
XX8625000	Replacement ½" Phenolic Clutch Rings						
Model	Speaker Size / Type	Sensitivity	Frequency Response	Dispersion	Height	Width	Depth
I8S	8" (C10A) (20.3CM)	94dB	86Hz – 9kHz	52.5°	11½" (292.1mm)	11½" (292.1mm)	4¼" (106.9mm)
I8SM	8" (C10A) (20.3CM)	94dB	86Hz – 9kHz	52.5°	11½" (292.1mm)	11½" (292.1mm)	4¼" (106.9mm)
I8SC	8" (C10A) (20.3CM)	94dB	86Hz – 9kHz	52.5°	14¾" (365.3mm)	12¾" (327.2mm)	2.99" (75.6mm)
I8SCM	8" (C10A) (20.3CM)	94dB	86Hz – 9kHz	52.5°	11½" (292.1mm)	11½" (292.1mm)	4¼" (106.9mm)
I128SYS	8" (C10A) (20.3CM)	94dB	86Hz – 9kHz	52.5°	11½" (292.1mm)	11½" (292.1mm)	4¼" (106.9mm)
IHVP	7" (APF-15)(17.78CM)	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	—	—	—				
IHVP	—	SEST-IH	FEST-IH				

121-18.....	93, 149	544-30.....	89, 148	AD-6B.....	126, 156
124-18.....	93, 149	60-4.....	40, 47, 138, 140	AD-7B.....	126, 156
12CX.....	20, 128	607-15.....	97, 152	AD-8B.....	126, 156
12CXT60.....	11, 20, 128	60-8A.....	136	ADZIC.....	26, 133
12TO8PLATE.....	46	60-8W.....	138-139	ADZIW.....	26, 133
135-18.....	93, 149	61-12W.....	40, 137	AF140.....	24, 31, 131
140-18.....	93, 149	61-8W.....	40, 136, 138-140	AH5040S.....	31, 133
144-18.....	92-93, 149	62-8.....	21, 40, 137-140	AH6565S.....	31, 133
161-4.....	22, 42, 137, 139	72-8E1.....	137	AH66-12ST.....	31, 133
161-8.....	42, 70, 131, 137, 140, 146	735-25.....	87, 149	AH66-8ST.....	31, 133
161RES.....	48, 139	740-25.....	87, 149	AH9040S.....	31, 133
161SES.....	48, 139	744-25.....	87, 149	AH94-12ST.....	31, 133
164-12A.....	42, 137, 139	744-30.....	87, 149	AH94-8ST.....	31, 133
164-15A.....	42, 137, 139	744-36.....	86-87, 149	AH99-12ST.....	31, 133
164-8A.....	42, 137, 139-140	75-8.....	40-42, 130, 136-138, 140	AH99-8ST.....	31, 133
169-8.....	42, 137, 140	76-8E2.....	50, 130, 136-137, 140	AH-CC-096-S.....	134
170-8A.....	42, 137-140	81-4.....	19, 40, 49, 131, 136, 140	AH-PM-DA-24.....	133
180-2.....	49, 140	81-8R.....	49, 136-137, 140	AH-PM-DA-36.....	134
180-4.....	49, 140	81-8S.....	41-42, 49, 130, 136-137, 140	AH-PM-DA-48.....	134
186-16.....	49, 140	830-812A.....	51, 140	AH-PM-MOUNT-6DOWN.....	134
186-24.....	49, 140	830-89A.....	140	AH-PM-MOUNT-6UP.....	134
191-78.....	42, 45, 48, 137, 139-140	840-812A.....	140	AH-PM-SA-12.....	134
191-78-8.....	45, 48, 139	840-89A.....	51, 140	AH-PM-SA-18.....	134
193-8.....	39, 42, 137, 139	8CXT60.....	10-11, 14, 20, 128	AH-PM-SAFETY-6DOWN.....	134
193-8-6.....	39, 137, 139	912-18.....	98, 152	AHSUB15S.....	31-32
194-812.....	140	916-18.....	98, 152	AHSUBSTAND.....	32
194-89.....	140	95-12-12.....	40, 137, 139	AL2430-2PH.....	4
195-812.....	140	95-12.....	20, 40, 47, 137, 139	AL2430-2PH-SD4.....	4
195-89.....	140	95-8-10.....	45, 138	AL-HSM.....	2
198-4.....	42, 48, 131, 137, 139	95-8.....	40-42, 45, 47, 70, 136-139, 146	AL-PH.....	2
198-8.....	42, 45, 48, 70, 137, 139, 146	95-8-7.....	45, 138	AM1200.....	76, 147
198-8-8.....	45, 48, 139	96-4.....	40, 47, 131, 136, 139	AP-15.....	33, 134, 136
221-18.....	91, 150	96-4X.....	40, 47, 131, 139	AP-15T.....	60, 134, 136
221-25.....	91, 150	96-8-10.....	139	AP-15TC.....	^^^
221-30.....	91, 150	96-8.....	40-42, 45, 47, 70, 136-139, 146	AP-15TU.....	35
224-18.....	91, 150	96-8-7.....	138	AP-15TUC.....	35, 135
224-25.....	91, 150	AA120.....	61-62, 66, 143	AP-15TUCR.....	35, 135
224-30.....	91, 150	AA120M.....	62, 66, 73, 144	AP-30.....	33, 134
235-18.....	91, 150	AA240.....	61-62, 66, 144	AP-30T.....	134
235-25.....	91, 150	AA35.....	60, 66, 143	AP-30TC.....	33
235-30.....	91, 150	AA60.....	60, 66, 143	APBK.....	38
240-18.....	91, 150	AA-GPN1200.....	73	AP-C15D.....	110
240-25.....	91, 150	AAIT-600.....	66	APC-30T.....	33, 134, 136
240-30.....	91, 150	AA-ML.....	62	APF-15.....	33, 39, 134, 136, 138, 157
244-18.....	90-91, 150	AA-PPRC.....	59	APF-15T.....	33, 39, 134, 136
244-25.....	91, 150	AARMK2-0.....	61-62, 66	APF-15TU.....	35, 135, 138
244-30.....	91, 150	AARMK2-5.....	60, 66, 144	APF-15TUC.....	138
307-12.....	95, 150	AA-SMG.....	62, 73	AP-GNL.....	^^^
310-12.....	95, 150	AA-TG.....	62	APR-30AT.....	33, 134
310-15.....	95, 150	AAVC-10K.....	66	AP-S15.....	111
312-12.....	95, 150	AAVCC-5.....	66	AP-S15L.....	111
312-15.....	95, 150	AA-YSUM.....	^^^	APS-40.....	^^^
316-12.....	95, 150	ABUS-HUB1X2.....	28	APT-34AT.....	33, 134
316-15.....	95, 150	ABUS-HUB1X4.....	28	APX40TN.....	29, 60-61, 133
324-12.....	95, 150	ABUS-HUB4X8.....	28	APXBK-N.....	29
324-15.....	95, 150	ABUS-LS1.....	28	A-R.....	68-69
335-15.....	95, 150	ABUS-MS1.....	28	AS100N.....	146
407-15.....	97, 151	ABUS-VC2.....	28	AS-120-592.....	102, 153
410-15.....	151	ABUS-VC3.....	28	AS-140-592.....	102, 153
410-4.....	43, 137	ACRL-191B.....	112, 154	AS250.....	^^^
410-8.....	43, 137	ACRL-291.....	112, 154	ASL-6A.....	55, 142
412-15.....	151	ACS-1.....	113, 154	ASP-MG24.....	74-75, 147
414-15.....	151	ACS-1A.....	113, 154	ASP-MG24TDB.....	74-75, 147
417-8WD.....	25, 43, 132, 137	ACS-2A.....	113, 154	AST-6.....	55, 142
418-15.....	97, 151	AD-11.....	126	AST-6A.....	^^^
510-4.....	43	AD-11B.....	126, 156	AT100.....	53, 141
510-8.....	43, 138	AD-12B.....	126, 156	AT100D.....	141
51-4.....	22, 40, 47, 131, 136, 138, 140	AD14B.....	126, 156	AT100-PA.....	53, 141
51-8.....	40, 70, 130, 136, 138-140, 146	AD-15B.....	125	AT100-PARM.....	^^^
535-25.....	89, 148	AD19B.....	126, 156	AT100-RM.....	^^^
540-25.....	89, 148	AD-4B.....	126, 156	AT10.....	53, 141
544-25.....	88-89, 148	AD-5B.....	126, 156	AT10D.....	53, 141

AT10-PA	141	DMS10	123	FA730-6	129
AT10-PARM	53	DMS10E	123, 155	FA730-8	129
AT10-RM	53	DMS7	123	FA81-4	16, 19, 41, 47, 130
AT35	53, 141	DMS7E	123, 155	FA81-6	16, 18, 129-130
AT35D	141	DR-32	135	FA81-8	16, 18, 130
AT35-PA	53, 141	DR-42	135	FA95-4	17
ATPLATE-052	53, 56	DR-54	37, 135	FA95-6	127
ATS183GL	15, 128	DR-72	135	FA95-8	127
ATS183GL8	15, 128	DS14	122, 156	FA97-4	16-17
ATS183GS	15, 128	DS2	122, 156	FA97-6	16, 18, 127, 129
ATS183GS8	15, 128	DS5	122, 156	FA97-8	16, 127
AWR2W	98, 152	DS5E	122, 156	FAMT-6	18, 33, 38, 44, 138
AWR3W	98, 152	DS7	122, 156	FAP136T87-720	18, 129
B161-4	22, 131	DS7E	122, 156	FAP40T	6, 9, 57, 127, 143
B51-4	22, 131	DSUMS-8W	141	FAP42-RR	8
BBG13	153	DT12	23, 131	FAP42T	6-8, 57, 127, 143
BBG21	153	DY-1	147	FAP42TC	6, 8, 57, 127, 143
BBG24	153	E408-100	53, 141	FAP42TC-UL2043	8, 127
BBG35	153	E410-11	47, 139	FAP42-TR	8, 127
BBG40	153	E410	41, 47, 131, 136, 139	FAP42T-UL2043	7, 127
BBG44	102, 153	E410NK	41	FAP62T	6-8, 57, 127, 143
BE-E	120, 123, 156	E410NT	47	FAP62-TR	127
BIA-100	37, 135	ECM-15SH	109	FAP62T-UL2043	7
BMT95-4	41, 45, 131, 136-138	ECM-20	108-109	FAP82T	6, 10, 127
BMT95-4-7	45, 138	ECM-20M	108-109	FAP82-TR	127
BMT95-8	40-42, 45, 130, 136-138	ECM-20SH	109	FAP8CXT	6, 10, 127
BMT95-8-7	45, 138	ECM-RACEWY6	108-109	FAPR-4	18
BT720-4	22, 131	ECS-3	112	FAPR-8	^^^
BT720-4-T47	22, 131	ECS-6RM	108, 112	FAPSUB	6, 9-10, 127
BX-1A	38, 136	ECS-KSW6	108	FA-TR4	9, 127
BX-2A	38, 136	EFP3-1	94, 105, 151, 155	FA-TR6	^^^
BX-3A	38, 136	EFP3-2	94, 105, 151, 155	FB4CPB	55
C10A	19, 52, 130, 157	EFT-25	85, 87, 105, 148-149, 155	FC104	19, 22, 52, 130-131, 154
C10AT72	21	EFT-30	87, 149, 155	FC104T	19, 130
C10AT72FRK	141	EFT-36	85, 87, 148-149, 155	FC104T72FRK	141
C12BT60	20, 128	EFT6-4	89, 91-93, 105, 148-150, 155	FD25W	22
C803A	19, 21, 52, 130	EQ81	40-42, 49, 136-137, 140	FKT-1	155
C803AT87	21	EQM131	73	FLT195-320	155
C803AT87FRK	141	ESB-974	146	FMA35-25G	85, 148
CB1	99, 152	EZ195-8	138	FMA35-25LRPV	85, 148
CB2	99, 152	EZ95-8	41, 45, 130, 136-138	FMA35-25SA	85, 148
CB3	99, 152	EZ96-4	138	FMA44-25G	85, 148
CB4	152	EZ96-4X	138	FMA44-25LRPV	85, 148
CD4	100	EZB161-4	22, 131	FMA44-25SA	84-85, 148
CD42	30, 135	EZE410	41, 138	FMA44-36G	85, 148
CD520C	27, 132	EZHD72W	22	FMA44-36LRPV	85
CD520W	27, 132	F-1	58, 143	FMA-RRK35	148
CD620C	27, 132	FA114T72	17, 129	FMA-RRK44	148
CD620W	27, 132	FA116T72	17, 129	FMARTK25	85, 148
CD64	30, 135	FA134T87	16-17, 129	FMARTK36	85, 148
CD820C	27, 132	FA136	7, 15, 17, 52, 129	F-P	69
CD94	30, 135	FA136T47	129	FRD35	87, 149
CE-2A	72, 147	FA136T87	16, 18, 129	FRD40	87, 149
CE-2A-AC	72, 147	FA136T87FRK	141	FRD44	87, 149
CE-2A-PT	147	FA138	14-15, 17, 52, 129	G161-8	22, 131
CFT-125	105	FA138T167	129	GA-15T	34, 135
CH-1B	125	FA138T327	17, 129	GA-30T	34, 135
CJ-46	37, 135	FA138T87	16, 129	GD87	14, 21, 130
CO-1B	125	FA170-4	129	GD87W	21
CP400	63, 144	FA170-6	129	GN-13	125
CP700	31, 63, 144	FA170-8	129	GN-13E	125
CS95-8	4, 19, 40-42, 130, 136-139	FA42T-6MB	8, 127	GN-19	125
CT1020-962	91, 93, 103, 149-150, 154	FA51-4	129	GN-6	125
CT31A	95, 150	FA51-6	129	H620AW	26
CX188329	24	FA51-8	129	H625CE	27
CX-EA	147	FA62T-8MB	8, 127	H625WE	27
D161-8	22, 131	FA720-4	16, 129	HK-40	102, 153
DAT35ST70	54, 141	FA720-6	16, 18, 129	HK-40CN	102, 153
DAT8ST	54-55, 141	FA720-8	16, 129	HLE-1	36, 136
DLS4	19, 130	FA730-4	129	HLE-3	136

HLE/MLE-30	36, 136	MPFD24	91, 93-94, 149, 151	PPR6	89, 91, 93-94, 148-150, 152
HLE/MLE-32	36, 136	MPFD35-3	85-94, 148-149, 151	PPR7	152
HP5CA	132	MPFD35	85-94, 148-149, 151	PR411	41, 50, 131, 136-137, 140
HP6CA	132	MPFD40	87-93, 148-149	PS16-40AC	^^^
HP6WA	132	MPFD44	85-93, 148-149	PS24-075	114, 145
HP8CA	132	MPP4200	26, 132	PS24-20	54, 114, 145
HPG-100N	67, 146	M-R	69	PS24-2R	114, 144
HT167	19, 24, 131	MS1012RF-24	126, 157	PS24-4R	114, 145
HT2625W	27, 132	MS-10C	117, 126, 155-156	PS24-50A	114, 145
HT327	15, 131	MS-10CE	117, 126, 155-156	PS-M12	54, 58, 141
HT42	24, 131	MS12BASE	126, 157	PSR-206	115, 145
HT47	19, 24, 131	MS-12C	117, 126, 155-156	PSR-212	115, 145
HT625W	27, 132	MS-12CE	117, 126, 155-156	PS-RK	114
HT8253W	27, 132	MS20	119, 126, 155-156	PVP-24	72, 147
HT825W	27, 132	MS2025T	126, 156	PVP-6	72, 147
HT87	18-19, 24, 26, 129, 131	MS2025TE	126, 156	Q408	40-42, 46, 130, 136-139
HTS28W	27	MS20E	119, 126, 155-156	Q418	42, 137, 139
HX11-P	56	MS20E-K	126, 156	Q428-SA	46, 139
HX12-R	56	MS20-K	126, 156	Q4412	20, 42, 137, 139
HX21	56	MS25	119, 126, 155-156	Q44-46-47-LID	^^^
HX22	56	MS25E	119, 126, 155-156	Q4612	42, 46, 137, 139
HX23	53, 56	MS2XTA	126, 156	Q4712	42, 46, 139
HX25-2	56	MS2XTAE	126, 156	Q4812	42, 46, 139
HX26-2	56	MS43E	117, 155	Q4915	42, 46, 137, 139
HX31-345	56	MSC	126, 156	QPLATE20	46
HX41-50	56	MSCE	126, 156	QPLATE40	46
HXLP-3-11	56	MSCE-K	126, 156	QR-2	118
HXLP-3-12	56	MSC-K	126, 156	QR30	46
ISOPANEL	86, 88, 92, 99, 152	MUSICAVC-50Z	^^^	QS408	42, 46, 137, 139
K-100N	67, 146	MVX-193	104, 154	RAC-5	113, 154
L20-100	39	MVX-195	104, 154	RAC-5B	154
L20-101	39	MVXA-2016	104, 154	RAC-9	113, 155
L20-201	39	P77-8	40-42, 50, 130, 136-137, 140	RAC-9B	155
L20-213	39	P78-8	40-42, 50, 130, 136-137, 140	RCK-18	103, 154
L20-220	39	P900	41, 137-140	RCK-25	89, 91, 103, 148, 150, 154
L20-222	39	PA1001G	65-66, 144	RCK-30	89, 91, 103, 148, 150, 154
L20-400-7	22, 131	PA601	66, 144	RCK-700	86-87, 103, 149, 154
LL-2	154	PA702	64-66, 144	RCMR-15	34, 135
LO-2B	125	PA702-RMK	64-66	RIK10W	132
LR4	103	PB11XCH	120, 156	RIK11W	132
LR58C-25	126, 157	PB11XEB	120, 156	RIK26W	132
LR58E-25	126, 157	PB15CH	120, 156	RIK28W	132
LRS	103	PB15EB	120, 156	RIK5C	132
LT600-VC	72, 147	PB21XCH	120, 156	RIK5W	132
LT70	19, 131	PB21XEB	120, 156	RIK6C	132
LT72	19, 131	PB25WGHT	126, 157	RIK6W	132
M1000	76-77	PBB-K	126, 156	RIK8C	132
M-1A	27, 58, 143	PCD3-16-052	100, 153	RIK8W	132
M-1AJW	58, 143	PD-30	135	RKW12-18	151
M-1CB4B	58	PD-30T	36, 135	RKW16-18	151
M2000-LP	77, 147	PD-5VH	136	RLM-24	115, 145
M2000-SM	76-77, 147	PD-5VT	36, 136	RLM-24-5	145
M222W	41, 130, 137-140	PD60A	^^^	ROCKFA62T-BR	15, 128
MAC-1	125	PD60AT	136	RPM-2	115, 145
MCHAIN72	76	PFD10	94, 151	RPM-4	115, 145
MICCLIP	122	PFD12	94, 151	RPS24-05	114, 144
MLE-1	36, 136	PFD14	151	RR14	151, 154
MLE-3	136	PFD16	94, 151	RR21	91, 150-151, 154
MMK15-RM	106-107	PFD21	91, 93, 149-151	RR24	91, 94, 150-151, 154
MMK17-RM	106-107	PFD24	91, 93, 149-151	RR310	95, 150
MMK-DB10	107	PFD35	85, 87, 89, 91, 93-94, 148-151	RR312	95, 150
MMK-DD10	107	PFD40	91, 148-150	RR316	95, 150
MMK-IPM	107	PFD44	85, 87, 89, 91, 93, 148-150	RR324	95, 150
MO-2	34, 135	PM4FA	14, 128	RR335	95, 150
MPFD10-3	94, 151	PM8CX	14	RR35	85, 87, 89, 91, 94, 148-151, 154
MPFD10	94, 151	PM8FA	14, 128	RR40	87, 89, 91, 148-150, 154
MPFD12-3	94, 151	PM8GD	14, 128	RR44	85, 87, 89, 91, 103, 148-150, 154
MPFD12	94, 151	PPF2	152	RSCW100	102, 153
MPFD14	151	PPR1	152	RSCW500	102, 153
MPFD16-3	94, 151	PPR2	99, 152	RU-1	147
MPFD16	94, 151	PPR3	94, 151-152	RWL2	104
MPFD21	91, 93, 149, 151	PPR4	152	RX14-25	151
MPFD24-3	91, 93-94, 149, 151	PPR5	152	RX14-25SFD	96

RX14-30.....	151	SM194-89.....	140	TPP-36.....	85, 87, 148-149, 152
RX21-25.....	151	SM195-812.....	140	TPS24-05.....	72, 114, 145, 147
RX21-25SFD.....	96	SM195-89.....	140	TPS-25.....	85, 87, 148-149, 152
RX21-30.....	151	SM42T.....	12-13, 127	TPS-30.....	87, 149, 152
SACR-191.....	113, 154	SM52.....	13, 57, 127, 142	TPS-36.....	85, 87, 148-149, 152
SACS-1.....	113, 154	SM52CBRKT.....	57, 142	TR411.....	50
SACS-1F.....	113, 154	SM52GRILL.....	57, 142	TS242.....	114, 145
SACS-5.....	113, 154	SM52KNOB.....	57, 142	TS302A.....	72, 147
SACS-5F.....	113, 154	SM52T.....	12-13, 128	TU-1.....	147
SB11WE.....	121, 126, 155, 157	SM52TWEETER.....	57, 142	TVTA-R.....	69
SB36CSTR.....	126, 157	SM52WOOFER.....	57, 142	UHT25C-U161-8.....	146
SB36W.....	121, 126, 155, 157	SM82.....	57, 128, 142	UHT25C-U51-8.....	146
SB36WE.....	121	SM82CBRKT.....	57, 142	UHT70C-U161-8.....	146
SB36WGHT.....	126, 157	SM82GRILL.....	57, 142	UHT70C-U51-8.....	70, 146
SBK-700.....	83, 87	SM82HFDRV.....	57, 142	VLS44.....	103
SBMS.....	25, 132	SM82KNOB.....	57, 142	VP14ENC.....	25, 132
SC-15.....	34, 135	SM82T.....	13, 128	VP14MB.....	25, 132
SC-15-45.....	34	SM82WOOFER.....	57, 142	VP161A-APF.....	138
SD2-14.....	100, 152	SM8CXT.....	11, 128	VP161A-R4.....	138
SD3-14.....	152	SM8SUB70.....	11, 128	VP161A-R8.....	138
SD4-14.....	152	SMBALLMOUNT.....	12	VP410-S.....	44, 138
SD6-14.....	152	SMS5B.....	122	VP510.....	44, 138
SD72.....	21, 130	SMTERMCVR.....	57, 142	VP60-R.....	44, 138-139
SD72W.....	4, 21, 60	SP052.....	102, 153	VP-77.....	71, 146
SD72WV.....	21	SP962.....	102, 153	VPB-1A.....	71, 146
SD-LOCK.....	100	SPF2.....	152	VPCS-2G-2.....	71, 146
SE175-4.....	42, 48, 131, 137, 140, 146	SPR1.....	152	VPCS-2GPB-2.....	146
SE198-4.....	48, 131, 137, 139	SPR2.....	152	VPCS-3GPB-245.....	71, 146
SEC1.....	152	SPR3.....	94, 151-152	VPVT-4PB.....	71, 146
SEC2.....	152	SPR4.....	152	VT-152UCN.....	68, 145
SEC3.....	152	SPR5.....	152	VT-152UCR.....	145
SFD10.....	94, 151	SPR6.....	89, 91, 93-94, 148-150, 152	VT-157UCN.....	145
SFD12.....	94, 151	SPR7.....	99, 152	VT-157UCR.....	145
SFD14.....	151	SPR8.....	152	VTB-1.....	69, 146
SFD16.....	94, 151	SPS35-25.....	87, 89, 148-149	VTB-2.....	69, 146
SFD21.....	91, 93, 149-151	SPS40-25.....	87, 89, 148-149	VTB-4.....	146
SFD24.....	91, 93-94, 149-151	SPS44-25.....	87, 89, 148-149	VTB-6.....	69, 146
SFD35.....	85, 87, 89, 91, 93-94, 148-151	SPS44-30.....	87, 89, 148-149	VTD1-16.....	100, 153
SFD407.....	151	SPS44-36.....	87, 149	VTF-152UCN.....	145
SFD40.....	87, 89, 91, 93, 148-150	SS500E.....	124, 156	VTF-152UCR.....	68, 145
SFD410.....	151	SSA7.....	124, 156	VTF-157UCN.....	145
SFD412.....	151	SVT-27UCS.....	146	VTF-157UCR.....	145
SFD414.....	151	SW1010.....	26, 132	VTF-22UCR.....	^^^
SFD44.....	85, 87, 89, 91, 93, 148-150	SW1212.....	26, 133	WD417-25.....	132
SFP-R.....	69	SW1515.....	26, 133	WD417-72.....	132
SG-38GH.....	55, 142	SWS-15W.....	141	WD417-72V.....	132
SG-NL4MP-1.....	55, 142	SWS-8I.....	141	WMA10-23.....	94, 151
SG-NL4MP-2.....	55, 142	T10.....	38	WMA12-23.....	94, 151
SG-QTRSL-F1.....	55, 142	T18.....	38, 131	WMA16-23.....	94, 151
SG-QTRSL-F2.....	55, 142	T198-8.....	137	WMA24-23.....	94, 151
SG-XLR-F1.....	55, 142	T20.....	38	WMA35-23.....	94, 151
SG-XLR-F2.....	55, 142	T51-4.....	136, 138	WMA-RR10.....	94, 151
SG-XLR-M1.....	55, 142	T51-8.....	136, 138	WMA-RR12.....	94, 151
SG-XLR-M2.....	55, 142	T51-84.....	136, 138	WMA-RR16.....	94
SH1-10.....	100, 153	T61-8W.....	137-138	WMA-RR24.....	94, 151
SH2-15.....	153	T620-8.....	137, 140	WMA-RR35.....	94, 151
SH2-22.....	153	T62-8.....	40, 130, 137	WME150-592.....	102, 153
SH3-15.....	153	T720-4.....	22, 41, 131, 137	WPVT-1FN.....	147
SH3-22.....	101, 153	T720-4BT.....	137-138	WPVT-1SN.....	146
SH4-15.....	153	T720-8A.....	41, 137-138, 140	WPVT-4FN.....	71, 147
SH4-22.....	153	T730-4B.....	137	WPVT-4SN.....	146
SHRSB2.....	152-153	T75-8.....	41, 50, 130, 136-137	WPVT-6FN.....	147
SHRSB3.....	152-153	T75-8E1.....	140	WPVT-6SN.....	147
SHRSB4.....	152-153	T75-8E2.....	140	WR-5AT.....	34, 135
SIN.....	69	T95-8.....	40-42, 130, 136-137	WS2-12.....	100, 153
SM12CXT.....	11, 128	TEB-E.....	123, 155	XX4707700.....	126, 157
SM12SUB70.....	11, 128	TE-E.....	123, 155	XX8625000.....	126, 157
SM191-78.....	45, 48, 137, 139-140	TM-1.....	125	YDA-TH.....	36, 67, 146
SM191-78-8.....	45, 48, 139	TPP-25.....	85, 87, 148-149, 152		
SM194-812.....	51, 140	TPP-30.....	87, 149, 152		



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