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### **HV/S Subwoofers New!**

HV/S (High Velocity/Signature) subwoofers deliver knockout bass performance and have significant advantages over industry standard sealed and vented designs. They are faster, tighter; more faithful to the input signal, and play louder with greater impact. Canons, depth charges, gunshots and explosions have increased power and authority. Typically there is a 3-4 db overall increase in dynamic headroom, providing a new level of involvement, awareness and power.

- 1) Tuned air load, on both front and back of the woofer cone: Conventional subwoofers have only (1) tuned air system. The air load inside the box tunes only the backside of the woofer cone while the front of woofer fires randomly into the listening room. Our new HV/S system encloses the entire woofer, using (2) highly tuned air systems that are synchronized to one another, for significant improvements in distortion, resolution and power handling.
- 2) Lower Distortion: Less excursion means less distortion. The moderating influence of a tuned air load, on both sides of the woofer cone, limits excess movement, optimizes “travel area” and minimizes excursion. All forms of listening distortion are reduced by almost 50%.
- 3) Amplifier efficiency and dynamic range: For any given bass frequency, the excursion now required to produce it is reduced, resulting in less Back EMF (return energy sent back to the amplifier). This decreases reactive loading and the amount of amplifier “effort”, providing more useable power and cooler operation.

4) High acceleration, low mass, and port air as a medium to produce bass: Conventional subwoofers use an exposed driver, with high moving mass (200- 400 grams), to develop bass. Inertia, as a function of mass, restricts a woofer's ability to change directions or "stop and start". This has an adverse affect on transient response and the ability to follow the leading edge of the input signal. With an HV/S subwoofer system a mere 5-gram, vent air load creates a high velocity low frequency pressure wave. This air "piston" has extremely low inertia and therefore, high acceleration. Stop and start are instantaneous. Bass notes attack rather than lag.

5) Increased power handling with no compression: Power handling is determined by wattage, excursion, mechanical stresses and heat centered at the voice coil. High power or sound pressure creates added heat. Resistance to current flow across the voice coil increases as the voice coil gets hotter. Less current flow means diminished loudness, dynamics and impact.

HV/S subwoofers employ cutting edge heat transfer technology. Our woofer motors use oversized voice coils with extra heavy wire and an aluminum former. The assembly is then fused to an aluminum cone. This acts as an enormous heat sink, providing cool operation at the highest sound pressure levels, for unrestricted power when needed.

**Description:** *An aluminum cone driver, with oversized magnet and voice coil, is mounted into a (2) chamber enclosure. Similar to a bandpass design, the rear of the driver sees a sealed air load and the front of driver drives a tuned Aerovent™ reflex system. Air, driven into the tuned Aerovent™, creates bass, via dynamic pressure waves, that emanate into the listening area.*

### Specifications

<u>Model</u>	<u>Freq. Response</u>	<u>Amplifier</u>	<u>Driver</u>	<u>Vents</u>	<u>Size/ Weight</u>	<u>Max Output</u>	<u>Room Size</u>
<b>HV/S-12/400</b>	27 Hz –120 Hz	400 W/RMS	12" Aluminum	(2) 4"	23"h x 17"w x 17" d 105 lbs,	128 db	300 – 500 sq.ft.



**Retail \$2295.00 ea**

**HV/S-10/400**



29 Hz – 120 Hz 400 W/RMS 10" Aluminum (1) 4", 19" h x 14" w x 15.5" d 70 lbs, 124 db 200-300 sq ft.

**Retail \$1695.00 ea**

**HV/S-8/400**



32 Hz 120 Hz 300 W/RMS 8" Aluminum (1) 3", 17" h x 10" w x 14" d 49 lbs 115 db 150-200 sq.ft.

**Retail \$1195.00**