## Key Features:

- True Line Array Performance
- $120^{\circ}$ Horizontal Coverage Pattern
- $20^{\circ}$ Vertical Coverage Pattern
- 104 dB Sensitivity
- Hidden Suspension Hardware (Included) is Architecturally Pleasing
- 3 Finishes Available - Indoor, PI, and Fiberglass
- EVADA (EVA Design Assistant) Software Tool
- Single Amplifier Channel Drive Configuration for Entire Array
- Advanced $6^{\text {th }}$ Order Crossover Network with HF Protection


## General Description:

The Electro-Voice EVA Series (Expandable Vertical Array) is designed to provide full bandwidth, well defined coverage from easily created line arrays using four different preconfigured 2-way modules. Two vertical coverage angles, $6^{\circ}$ and $20^{\circ}$, can be combined to create line arrays optimized for spaces ranging from 12 m (40ft) to greater than 60 m (200ft) deep. Two horizontal coverage angles, $90^{\circ}$ and $120^{\circ}$, provide the perfect match for any width. Each module consists of two elements, each 2-way element containing an 8 " woofer and two compression drivers mounted on a hydra/waveguide combination. High order passive networks couple the element's transducers, and the array element to additional elements to provide plane wave radiation and response equal to DSP-driven high end systems. Impedance management allows full array drive (up to 4 modules) from a single amplifier channel at 4 ohms. Matching subwoofer module is available when response below 50 Hz is required. EVA systems can be used in a variety of fixed installation applications where high quality sound reinforcement and even coverage are required from a compact , lightweight, unobtrusive array.

EVA-2082 modules utilize four DH2005 high output 1.25" titanium compression drivers, mounted on two Hydra ${ }^{\circledR}$ plane wave generators and two waveguides. The result is smooth response to 20 kHz and excellent pattern control in both planes.

The EVS2008 8" woofer is designed for line array use to provide very low distortion and maximum intelligibility at high SPL levels. The crossover features steep 36 dB /octave slopes with equalization for very smooth response in the vocal range, extended HF, and a protection circuit for long term reliability. It includes a user definable shading capability to finely adjust the line array to the audience area.
(General Description continued on next page.)


Technical Specifications:

| Freq. Response ${ }^{1}(-3 \mathrm{~dB}$ ): | $60 \mathrm{~Hz}-19 \mathrm{kHz}$ |  |
| :---: | :---: | :---: |
| Freq. Range ${ }^{1}(-10 \mathrm{~dB})$ : | $45 \mathrm{~Hz}-20 \mathrm{kHz}$ |  |
| Rec. Hipass Frequency: | 50 Hz |  |
| Axial Sensitivity ${ }^{2}$ : | 104 dB (1W/1m) |  |
| Max. Calculated SPL ${ }^{\text {: }}$ | 129 dB Continuous, 135 dB Peak |  |
| Horizontal Coverage: | $120^{\circ}$ |  |
| Vertical Coverage: | $20^{\circ}$ |  |
| Power Handling: | 350W Continuous, 1400W Peak |  |
| LF Transducer: | (2) EVS2008, 8 in (203mm) Driver |  |
| HF Transducer: | (4) DH2005, 1.25 in ( 32 mm ) <br> Diaphragm Compression Driver |  |
| Crossover Frequency: | 1740 Hz |  |
| Nominal Impedance: | 16 Ohms |  |
| Minimum Impedance: | 12 Ohms |  |
| Connectors: | (2) 4 Contact 10 AWG Phoenix/ EuroBlock Style Screw Terminals | PI Version - <br> Gland Nut with Included Input Panel Cover |
| Enclosure Material: | Plywood with EVCoat ${ }^{\text {TM }}$ |  |
| Grille: | 16 GA Galvanneal, Powdercoated | PI Version - <br> Stainless Steel with Hydrophobic Cloth |
| Suspension: | EVA Grid (Sold Separately) |  |
| Environmental: | IEC 60529 IP55 for PI and FG versions |  |
| Dimensions (Hx W x D) : | $\begin{array}{\|l\|} \hline 20.17^{\prime \prime} \times 23.50^{\prime \prime} \times 14.53^{\prime \prime} \\ (512.2 \mathrm{~mm} \times 596.9 \mathrm{~mm} \times 369.1 \mathrm{~mm}) \\ \hline \end{array}$ |  |
| Net Weight: | 76.2 lbs ( 34.6 kg ) |  |
| Shipping Weight: | $85.5 \mathrm{lbs}(38.8 \mathrm{~kg})$ |  |

[^0]
## EVA-2082S/1220 Line Array Module

## General Description (cont'):

The enclosure is constructed of wood, reinforced with internal steel rigging straps, and coated with EVCoat ${ }^{\text {TM }}$ for durability and professional appearance, or fiberglass for severe exposure. PI and FG versions include gland nut input panel and stainless steel 3-layer grille. Enclosure side panel covers conceal all suspension hardware. The unique acoustic and integrated rigging design allows for an 8 module vertical array to be built using a combination of modules from the entire EVA Series. With multiple vertical and horizontal coverage angles to choose from, you have the tools to maximize flexibility of system design, no matter what the application or budget. The innovative input panel provides a choice of phoenix-style connectors (included in all standard models), optional cover plate with dual NL4 type connectors or a gland nut plate for use with cable. The input panel also includes a provision for adding up to 9 dB of attenuation (in -3 dB steps) to an individual module as a userinstalled option.

The innovative EVA Series has been designed to be used with a single amplifier channel per array (up to 8 elements/4 modules per array at 4 ohm load impedance), giving you the ability to have a powerful, compact and extremely efficient vertical array system.

## Beamwidth:



Frequency Response \& Impedance:


## Horizontal Off Axis Frequency

 Response:

## Block Diagram:



## Polar Plots (1/3 Octave):



## Dimension Drawings:



## EVA-2082S/1220 Part Numbers

- PRD000197-001 EVA-2082S/1220-BLK, $120^{\circ} \times 20^{\circ}$, Black Finish
- PRD000197-002 EVA-2082S/1220-WHT, $120^{\circ} \times 20^{\circ}$, White Finish
- PRD000197-003 EVA-2082S/1220-PIB, $120^{\circ} \times 20^{\circ}$, Black Finish, Weather Resistant
- PRD000197-004 EVA-2082S/1220-PIW, $120^{\circ} \times 20^{\circ}$, White Finish, Weather Resistant
- PRD000197-005 EVA-2082S/1220-FGB, $120^{\circ} \times 20^{\circ}$, Black Finish, Weather Resistant Fiberglass
- PRD000197-006 EVA-2082S/1220-FGW, $120^{\circ} \times 20^{\circ}$, White Finish, Weather Resistant Fiberglass


## $\triangle$ CAUTION $\downarrow$

This EVA Loudspeaker should be suspended overhead only in accordance with the procedures and limitations specified in the EVA User Manual and possible manual update notices. This system should be suspended with certified rigging hardware by an authorized rigging professional and in compliance with local, state, and federal overhead suspension ordinances.

| Performance | Match |
| :--- | :--- |
| - PRD000194 | EVA-2082S/906, $90^{\circ} \times 6^{\circ}$ Coverage |
| - PRD00195 | EVA-2082S/920, $90^{\circ} \times 20^{\circ}$ Coverage |
| - PRD000196 | EVA-2082S/126, $120^{\circ} \times 6^{\circ}$ Coverage |
| - F.01U.076.843 | CPS2.9,120V Power Amplifier, $2 \times 900 \mathrm{~W}$ |
| - F.01U.076.844 | CPS2.12, 120V Power Amplifier, $2 \times 1200 \mathrm{~W}$ |
| - D170466 | CPS4.10, 120V Power Amplifier, $4 \times 1000 \mathrm{~W}$ |
|  |  |
| Accessories |  |
| - ACC000082-001 | EVA-SG-BLK, EVA Standard Grid (Black) |
| - ACC000082-002 | EVA-SG-WHT, EVA Standard Grid (White) |
| - ACC000083-001 | EVA-EG-BLK, EVA Extended Grid (Black) |
| - ACC000083-002 | EVA-EG-WHT, EVA Extended Grid (White) |
| - ACC000079-001 | EVA-GXB-BLK, Grid Extra Spreader Bar (Black) |
| - ACC000080-002 | EVA-GXB-WHT, Grid Extra Spreader Bar (White) |
| - ACC000081-000 | EVA-AM, EVA Attenuation Module |
| - ACC00084-000 | CDNL4, Cover Plate, Dual NL4 |
| - ACC000085-000 | CSG, Cover Plate, Single Gland Nut |
| - ACC000086-000 | CDG, Cover Plate, Dual Gland Nut |

Performance Match

RD000194
-
-

- Fol
- D170466


## Accessories

- ACC000085-000
- ACC000086-000

EVA-2082S/906, $90^{\circ} \times 6^{\circ}$ Coverage
 VVA-2082S/126, $120^{\circ}$ x $6^{\circ}$ Coverage

CPS2.12, 120V Power Amplifier, $2 \times 1200 \mathrm{~W}$
2.12, 120 V Power Amplifier, $2 \times 1200 \mathrm{~W}$

EVA-SG-BLK, EVA Standard Grid (Black)
EVA-SG-WHT, EVA Standard Grid (White)
EVA-EG-BLK, EVA Extended Grid (Black)

EVA-GXB-BLK, Grid Extra Spreader Bar (Black)
EVA-GXB-WHT, Grid Extra Spreader Bar (White)
EVA-AM, EVA Attenuation Module

CSG, Cover Plate, Single Gland Nut
CDG, Cover Plate, Dual Gland Nut

## Electro-Voice

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Other Internatonal locations. For customer orders, Contact Customer Service at: + 1952 884-4051 Fax: + 1952 887-9212
For warranty repair or service information, contact the Service Repair department at: 800/685-2606


[^0]:    Full Space Measurement
    ${ }^{2}$ Full Space Measurement of 3 Elements. SPL Adjusted for 1m Distance.

