R.5-V2200

Dual Driver, PC Horn-loaded, Weather-Resistant Loudspeaker

PROFESSIONAL LOUDSPEAKERS

Specifications (See notes 1 and 2)

Loudspeaker Type: Dual Driver, PC Horn-loaded, Weather-Resistant Loudspeaker for High Level Paging

Operating Range: 450 Hz - 8 kHz

Usable LF Limit: 400

Max Input Ratings: 150W continuous, 400W Program

30 volts RMS, 69 volts momentary peak

Recommended Power Amplifier:

330W to 480W @ 6 Ohms

Flare Rate: 360 Hz

Throat Entrance Diameter: 2 x 2”

Axial Sensitivity 1W/1m: 114 dB SPL

(400 Hz - 4 kHz 1/3 octave bands with 2 x M200 driver)

Maximum Output:

136 dB SPL / 143 dB SPL peak (with 2 x M200 driver)

Nominal Impedance: 6 Ohms

Min Impedance: 4.8 Ohms @ 400 Hz

Nominal -6 dB Beamwidth:

Horizontal: 80° (+5° / -17°, 1600 Hz - 4000 Hz)

Vertical: 40° (+9° / -17°, 1600 Hz - 4000 Hz)

Axial Q: 20.5

Axial DI: 13.1

Recommended Signal Processing:

400 Hz high pass filter (for 2 x M200 driver standalone)

8 kHz low pass filter (for 2 x M200 driver standalone)

Construction: Hand-laminated, multi layer glass composite within a rotomolded polyethelene enclosure

Supplied Accessories: SSYR5 Yoke bracket, dual layer powder coated steel

Required Accessories:

Bandpass filtering

Optional Accessories: TRC400 Transformer

Dimensions:

Height: 16 in. / 406.4 mm

Width: 16 in. / 406.4 mm

Depth: 16.2 in. / 413 mm

Weight: 36.1 1bs / 16.4 kg **/ With Yoke:** 39.3 lbs / 17.8 kg

Shipping Weight: 44 lbs / 20 kg

1. Sensitivity: Free field pink noise measurement at 40 ft / 12.2 m at 40% power; extrapolated to 1 meter and an input of 2.45 volts RMS.
2. Watts: All wattage figures are calculated using the rated nominal driver impedance.

APPLICATIONS:

- Industrial Paging
- Large Public Gatherings
- Voice Alert Systems
- Tone Signaling

FEATURES:

- 2 in. (51 mm) Throat Exit x Two
- High Efficiency
- High Power Output
- Non-metallic Diaphragms
- Highly Resistant to Harsh Environments

DESCRIPTION:

The R.5-V2200 is a complete horn/driver system designed for use in voice-range sound reinforcement and announcement / signaling applications.

The R.5-V2200 provides focused, very high output sound projection, with predictable performance and exceptional long-term durability.

The horn portion of the assembly is a hand crafted one piece patented focused Array ™ waveguide, precision molded in hand laminated reinforced fiberglass for optimum performance.The fiberglass horn is enclosed in a roto-molded polyethylene enclosure providing weather and UV resistance and incorporating a Weather-Stop grille. The inherent strength and rigidity of the systems construction enhances sonic efficiency by preventing sound energy loss as well as providing a highly weather-resistant installed loudspeaker system.

The compression drivers are high output, high sensitivity loudspeakers configured with the diaphragm facing forward, isolating the voice coil and magnetic structure of each driver from the environment. The one-piece, non-metallic diaphragm/suspension offers exceptional resistance to the effects of humidity, dust, and corrosive atmospheres. A fiberglass rear cover protects the drivers from the effects of weather and corrosion.

There is a five-year warranty against manufacturing defects on all components of the system.

COMMUNITY PROFESSIONAL LOUDSPEAKERS
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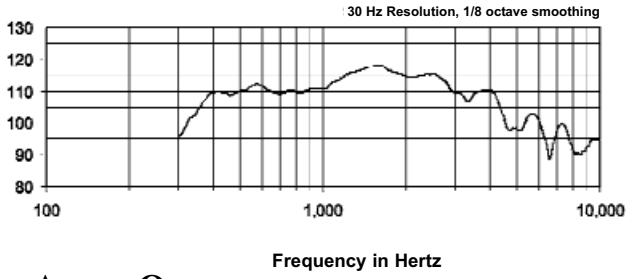
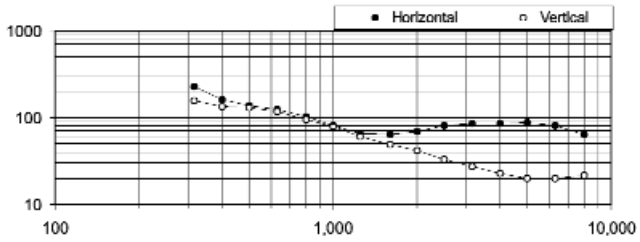
Frequency Response



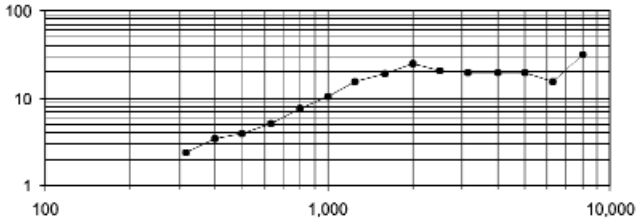
Frequency in Hertz

Beamwidth



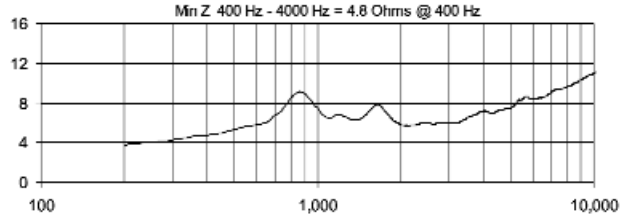
Frequency in Hertz

Axial Q



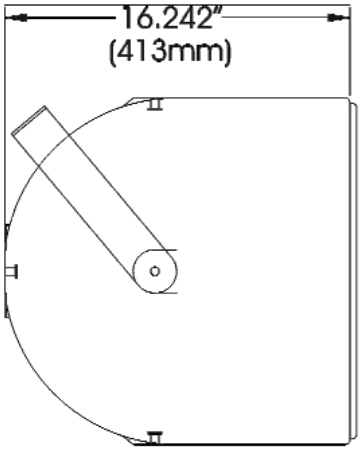
Frequency in Hertz

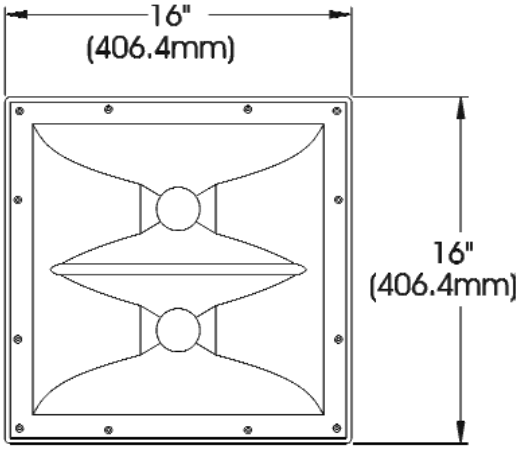
Impedance



Frequency in Hertz

Measurements





Architects and Engineers Specifications

The system shall incorporate two 2-inch (51mm) exit compression type drivers , specifically designed for midrange frequency reproduction. Both 2 inch (51mm) drivers shall be mounted to a pattern control horn encased in a roto-molded polyethylene enclosure incorporating a gland nut cable ingress. Input capability of 30v RMS, 114dB sensitivity at 1 meter / 2.45V between 500 Hz - 4 kHz, and a nominal impedance of 6 Ohms. Each driver shall incorporate a large magnet structure, a one-piece, non-metallic diaphragm / suspension, and a copper-clad aluminum edgewound voice coil on a Kapton former immersed in Ferrofluid. The compression ratio shall be 1.84 to 1. Each diaphragm assembly shall be field replaceable. Each driver shall be 6 in. (152 mm) diameter, 2 in. (51 mm) depth plus 1 in. (25 mm) mounting stud projection, and weigh 8 lb (3.6 kg). The horn/driver system shall weigh 36.1 lbs./16.4 kg.

Specifications subject to change without notice.

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