DATA SHEET COMMUNITY R SERIES Point Source



R1-94Z-EN

TWO-WAY HORN-LOADED TYPE B, LOUDSPEAKER WITH 90° x 40° COVERAGE



APPLICATIONS

Athletic Fields · Arenas · Stadiums · Racetracks Theme and Amusement Parks · Fairgrounds Convention Centers · Factories and Warehouses Air Shows · Rodeos · Electronic Carillons Multipurpose Outdoor and Indoor Venues

DESCRIPTION

The R1-94Z-EN two-way full-range loudspeaker system is engineered to provide quality full-range sound projection in a variety of outdoor and indoor applications. Its wide range, smooth frequency response and high efficiency ensures both high fidelity music reproduction and superb projection of clear intelligible speech with very low distortion.

The R1-94Z-EN is an all horn-loaded coaxial design using precision waveguides manufactured by Community of handlaminated fiberglass. The outer enclosure forms a double wall construction with the internal bass horn, providing a completely weather-sealed chamber for the LF drivers. The high frequency horn assembly is mounted in the mouth of the bass horn. A high quality passive crossover with dynamic driver protection is included. The result is a loudspeaker system that is extremely strong, non-resonant, weather-resistant, and easy to install.

Biamp strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.

FEATURES

- · High-fidelity, high efficiency, full-range reproduction of music and speech
- Application-specific coverage pattern
- 100% weather-resistant and corrosion-resistant construction
- · Included weather-resistant mounting yoke
- EN54-24 Certified

TECHNICAL SPECIFICATIONS

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Operating Mode	Passive with DSP, Passive with low-impedance operation				
Operating Environment	Indoor/Outdoor				
Operating Range (-10dB)	90 Hz to 16 kHz (100 Hz - 10 kHz for EN54-24 applications)				
Nominal Beamwidth (H x V)	90° x 40°				
Coverage (-6dB)	500Hz: 76 / 78 2 kHz: 43			5/32	
Horiz/Vert per EN54-24	1 kHz: 42 / 38		4 kHz: 73 / 31		
Tuesday	LF: 1 x 12" (305 mm) weather-treated, Ferrofluid-cooled				
Transducers	HF: 1 x 1" exit, titanium diaphragm				
Rated Noise Power		100 hr test, 6 dB crest factor 100 W Cont, 24.5 V RMS		2 hr test, 6 dB crest factor	
				200 W Cont, 800 W peak	
				40 V RMS, 89 V momentary peak	
Broadband Sensitivity (1/3 octave bands)		EN54-24 100 Hz-10kHz		Standard 80 Hz-16 kHz	
	@1m	100.0 dB @ 6 Ω		104 dB @ 8 Ω	
	@ 4 m	87.9 dB @ 6 Ω		n/a	
Maximum Average Output (Broadband Sensitivity)		EN54-24 100 hr rated noise power		Standard 2 hr rated noise power	
	@1m	120.0 dB		127 dB (No EQ)	
	@ 4 m	107.9 dB		n/a	
Maximum Peak Output (Broadband Sensitivity)		EN54-24		Standard	
		100 hr rated no	ise power	2 hr rated noise power	
	@1m	126.0 dB (6dB crest		133 dB (No EQ)	
		momentary pea	-		
Nominal Impedance		EN54-24 crite	ria	Standard	
		6 Ω		8 Ω	
Minimum Impedance	5.2 Ω @ 240 Hz				
Crossover Frequency	1.2 kHz crossover, driver protection circuitry				
Required Accessory	90 Hz electronic high pass filter, EN54-24 installations should utilize EQ curve specified on next page				

PHYSICAL

Input Connection	12 foot (4 m) SJOW #16 gauge		
Controls	None		
Mounting Provisions	(5) 1/2-13 rigging points		
Operation Environment	IEC529 IP55W rating with a minimum 5-degree downward aiming angle		
Dimensions W x D	24.75" x 24.75" x 29.75" (629 x 629 x 756 mm)		
Weight	47.5 lbs (21.5 kg) loudspeaker only, 55.5 lbs (25.2 kg) loudspeaker and yoke		
Grille	3-layer Weather-Stop™ with polyester mesh, foam, zinc-rich epoxy dual-layer powder-coated perforated marine-grade aluminum color-matched to enclosure		
Accessories (included)	Weather-resistant mounting yoke, light grey (RAL 7038)		

NOTES: All measurements made in outdoor half-space free-field conditions. Watts: All wattage figures are calculated using the rated nominal impedance.

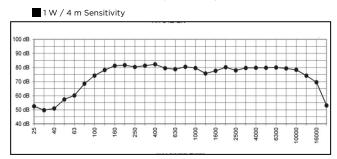


COMMUNITY R SERIES Point Source

R1-94Z-EN

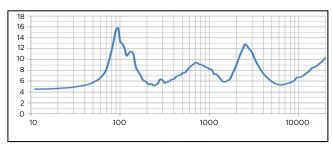
TWO-WAY HORN-LOADED TYPE B, LOUDSPEAKER WITH 90° x 40° COVERAGE

FREQUENCY RESPONSE (dB SPL)



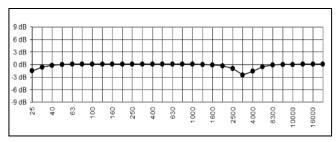
Frequency (Hz)

IMPEDANCE (Ω)



Frequency (Hz)

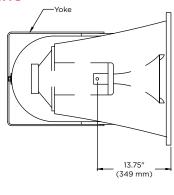
EQUALIZATION CURVE (dB SPL)



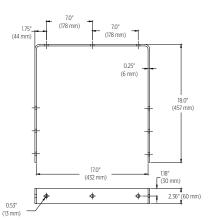
Frequency (Hz)

Settings: 3352 Hz -3 dB Q = 2.87, BW = 0.5 Oct

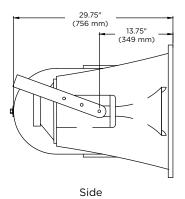
TECHNICAL DRAWING

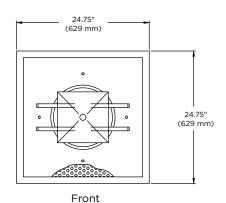


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