

W SERIES

W2-312-94H

12-INCH FULL-RANGE
THREE-WAY 90° x 40° LOUDSPEAKER


APPLICATIONS
MAIN PA

Theme and amusement parks · Stadium fascia
Outdoor entertainment centers · Cruise ships
Music pavilions and musical fountains

DESCRIPTION

The W2-312-94H is a high output, three-way loudspeaker system, with a 90°H x 40°V coverage pattern, designed to provide high quality music and voice reproduction in applications requiring the ultimate in extreme weather-resistance.

The system uses a HF driver with a 1" exit, ketone polymer diaphragm and a 1.7" voice coil, and a Community 2" exit MF driver with an environmentally inert ketone polymer diaphragm. The 12" LF driver utilizes a weather-treated cone, and advanced cooling technology that improve thermal power handling, and reduce power compression. Community's precision passive frequency dividing networks minimize band overlap through the use of high order filters which maintain linear phase response characteristics.

Engineered for use in permanent installations, the loudspeaker enclosure and faceplate are constructed of multilayer fiberglass composite for extreme structural strength. A three-layer Weather-Stop™ grille provides weather-resistance to the internal components, while all exposed hardware is stainless steel or powder-coated aluminum.

The W2-312-94H includes four 1/2-13 mounting points, two on each side of the enclosure, which mate with Community's optional SSY25KIT mounting yoke.

The W2-312-94H can be ordered with or without a built-in 200-watt autoformer (model W2-312-94HT) with selectable taps at 200, 100, 50 and 25 watts.

The W2-312-94H is backed by a five-year product warranty plus a fifteen-year enclosure warranty.

FEATURES

- All-weather, multilayer fiberglass composite enclosure with stainless steel hardware
- Integral mounting points
- High power passive crossover and advanced driver cooling technology
- Available in black or white finishes
- Powder-coated weather-resistant marine grade aluminum grille and stainless steel yoke
- Available with built-in 200W autoformer for 70V/100V applications

TECHNICAL SPECIFICATIONS

Loudspeaker Type:	Three-way, full-range
Operating Range:	50 Hz - 18 kHz
Frequency Response:	70 Hz - 15 kHz (±2 dB)
Max Input Ratings (8 ohm):	200W continuous, 400W program
W2-218T Autoformer Taps	
70V:	200W, 100W, 50W, 25W
100V:	200W, 100W, 50W
Sensitivity (1W/1m):	96 dB SPL (100 Hz to 13 kHz 1/3 octave bands) 97 dB SPL (250 Hz to 4 kHz speech range)
Maximum Output:	119 dB SPL / 125 dB SPL (peak)
Nominal Impedance:	4 ohms
Minimum Impedance:	3.6 ohms @ 490 Hz
Nominal Coverage:	90° H x 40° V
Crossover Frequency:	600 Hz / 3.5 kHz
Drivers:	LF 1 x 12" (305 mm) weather-treated cone MF 1 x 2" (51 mm) Community M200 HF 1 x 1" (25.4 mm) exit

PHYSICAL

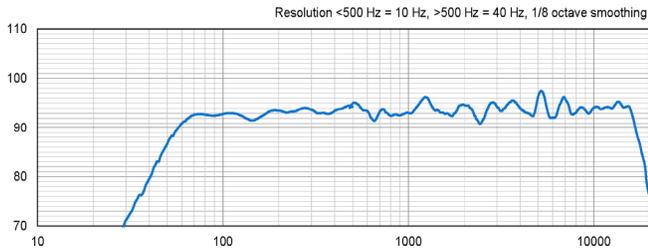
Input Connection:	16-2 SJOW (12 ft / 4m) 18-5 SJOW (T-Version)
Enclosure:	Hand-laminated fiberglass
Finish:	Black or white gelcoat
Mounting / Rigging Provisions:	Four (4) 1/2-13 threaded mounting points; yoke optional
Grille:	Powder-coated, zinc-plated marine grade aluminum (5052 alloy), black or white finish (three-layer Weather-Stop™)
Environmental:	IP 55W rated per IEC 60529
Dimensions—Height:	13.75 inches (349 mm)
Width:	26 inches (660 mm)
Depth:	14.5 inches (368 mm)
Weight (with yoke):	61.5 lbs (27.9 kg)
Shipping Weight:	75 lbs (34 kg)

OPTIONS

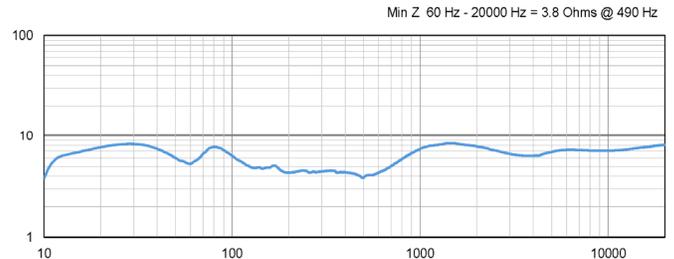
Required Accessories:	Electronic high pass filter (55 Hz, 24dB/octave)
Accessory:	Yoke

Recommended signal processing available at www.communitypro.com.

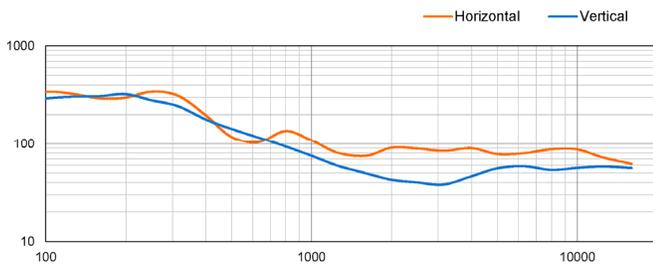
FREQUENCY RESPONSE



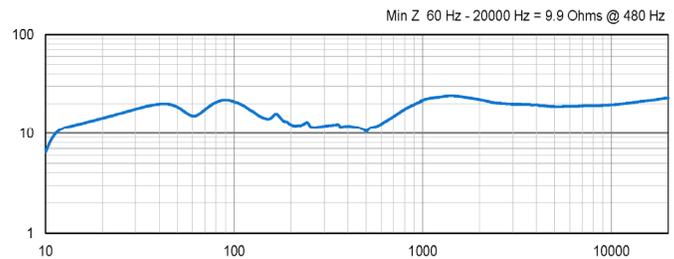
IMPEDANCE



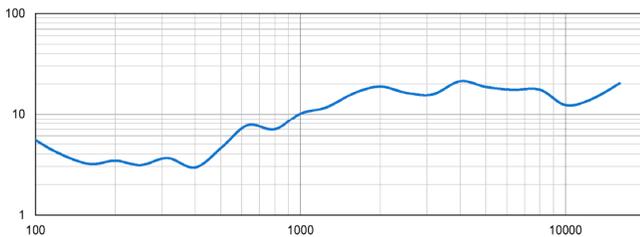
BEAMWIDTH



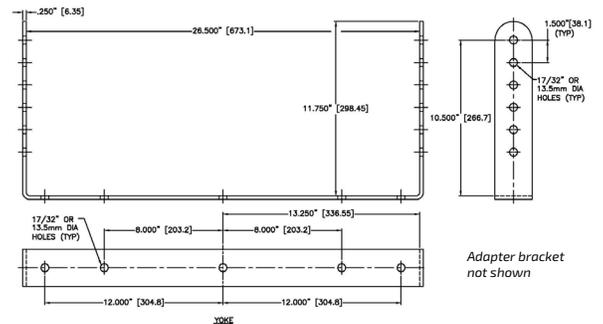
IMPEDANCE (200W AUTOFORMER)



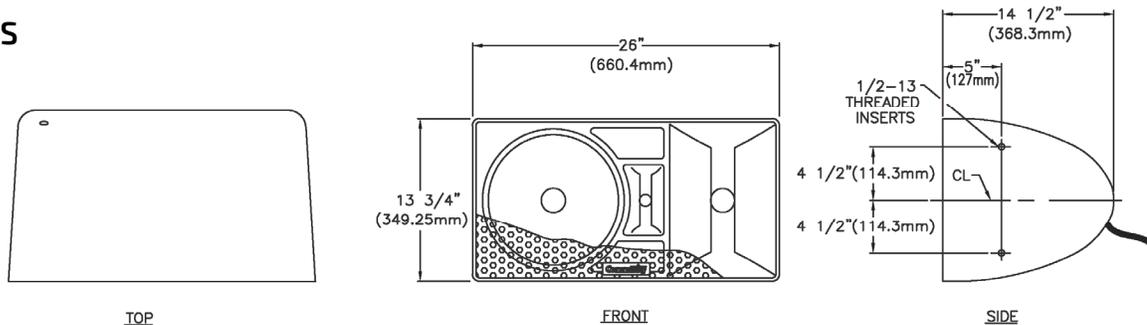
AXIAL Q



SSY25 YOKE (optional)



DIMENSIONS



ARCHITECTURAL SPECIFICATIONS

The loudspeaker shall be a three-way, weather-resistant design with one 12-inch woofer with a weather-treated cone, one M200 mid-frequency driver and a 1-inch high-frequency driver. The drivers shall be mounted on a one-piece fiberglass composite baffle. The crossover frequency shall be 600Hz. The crossover shall use high quality 250V film capacitors and low ESR inductors. The one piece loudspeaker enclosure shall be constructed of hand-laminated fiberglass composite with a powder-coated perforated zinc-plated marine grade aluminum grille backed by weather-resistant material. The enclosure shall have four integral 1/2-13 threaded mounting points. The system shall meet the following performance criteria: amplitude response of 70 Hz - 15 kHz (± 2 dB), 200 watts continuous power handling, 96 dB SPL sensitivity at 1 meter with 1 watt applied. The nominal system impedance shall be 4 ohms. Nominal horn coverage pattern shall be 90°H x 40°V. Dimensions shall be 13.75 in. (349 mm) high, 26 in. (660 mm) wide, 14.5 in. (368 mm) deep with a weight of 61.5 lbs (27.9 kg).