ACE 1250

Key Features

- **Advanced Composilite™ Carbon Fiber Enclosure**—reduces passive enclosure losses (resulting in greater sonic accuracy), offers reduced weight, and is highly weather resistant.
- **12-inch, 2-Way System**—in a lightweight, multi-purpose enclosure; fully equipped with certified rigging hardware for improved safety margins plus reduced shipping and handling costs.
- **Spherical Waveguide**—mated with 1.5" exit neodymium compression driver, delivers true constant-directivity performance, 75° nominal coverage pattern, and reduced throat distortion.
- **Versatile Shape**—works as a floor wedge, side fill, or in small front-of-house clusters.
- **High Power Handling**—a 4-inch LF voice coil and 4-inch HF voice coil handle 600W continuous AES power. With 96 dB efficiency, peak SPL can reach 130 dB.
- **QSC DSP Downloads**—for QSC-powered systems using the DSP-3 programmable processor, a growing selection of custom tailored downloads offer virtually perfect "dialed-in" performance right out of the box.

The QSC-ACE 1250 Composite Loudspeaker is a full range speaker system that delivers exceptional sound quality and high SPL in a lightweight, all-weather carbon fiber enclosure. It makes an excellent choice for front of house arrays, delay or downfill clusters, high-level dance systems, and low profile stage monitoring systems.

The two-way, ported enclosure comprises a 1.5" exit neodymium compression driver coupled with a high frequency spherical waveguide that has true constant directivity performance. This spherical waveguide minimizes throat loading and distortion issues commonly associated with conventional high frequency horns. A powerful 12" LF transducer handles 600 watts of continuous power and provides smooth response through the crossover point. With a 75° nominal coverage pattern, multiple units can be splayed together to meet expanded coverage and SPL requirements.

The QSC-ACE 1250 WR employs a passive crossover that can be bypassed for bi-amplified use. The QSC-ACE 1250 AWR is designed for bi-amplification only and requires an external crossover.

QSC-ACE enclosures incorporate Composilite™, a patented core composite technology that yields superior acoustic properties, lighter weight, and outstanding weather resistance compared to conventional enclosure materials. Multiple skins of carbon fiber are layered over a phenolic honeycomb core to form a rigid, seamless enclosure. The extreme stiffness of composite construction prevents flexing of the enclosure walls, significantly reducing transmission loss due to wall vibration. The result is reduced cabinet resonance, increased low-frequency output, and greater sonic accuracy. Furthermore, the enclosure's light weight translates to safer rigging and reduced handling costs. Installation accessories and array kits are readily available.

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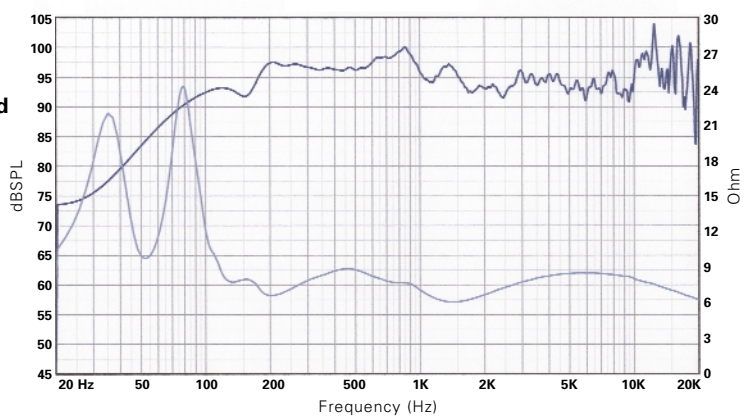
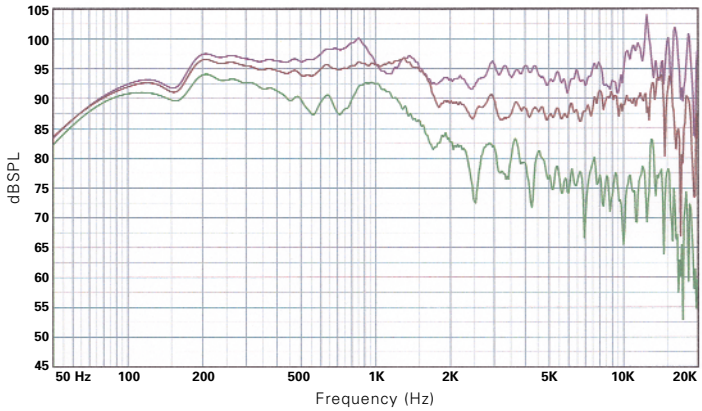
Specifications	1250 WR	1250 AWR
Configuration	Two way, ported enclosure	Two way, ported enclosure
High Frequency Transducer	1.5" exit Neodymium compression driver on conical waveguide	1.5" exit Neodymium compression driver on conical waveguide
Low Frequency Transducer	12" (309 mm)	12" (309 mm)
Crossover Configuration	Passive or Bi-amplified (switchable)	Bi-amplified
Crossover Frequency	1100 Hz	1100 Hz
Frequency Response (Hz)		
±3 dB	60 Hz–18 kHz	60 Hz–18 kHz
-10 dB	40 Hz–22 kHz	40 Hz–22 kHz
Sensitivity (2.83V @ 1 meter)		
Full Range (20 Hz–20 kHz)	96 dB	–
Biamped LF	–	96 dB
Biamped HF	–	112 dB
Nominal Impedance		
Full Range	8 ohms	–
Biamped LF	–	8 ohms
Biamped HF	–	8 ohms
Power Handling (EIA RS-426A)		
Full Range	600W	–
Biamped LF	600W	600W
Biamped HF	75W	75W
Calculated Maximum Output (dB SPL @ 1m)	130 dB	130/137 dB
Nominal Coverage (-6 dB)	75°	75°
Enclosure		
Cabinet Shape	Irregular Pentagon	Irregular Pentagon
Enclosure Materials	Composilite™ Composite Core with Carbon Fiber	Composilite™ Composite Core with Carbon Fiber
Finish	Epoxy Resin	Epoxy Resin
Weather Resistance	Yes	Yes
Grill	Wood frame w/grill cloth	Wood frame w/grill cloth
Connectors	4 x Neutrik NL4 Speakons	4 x Neutrik NL4 Speakons
Suspension Hardware	1200 Series Accessories, Aeroquip, or Forged Closed Loop Eyebolts	1200 Series Accessories, Aeroquip, or Forged Closed Loop Eyebolts
Dimensions and Weight		
Height	29.5" (74.9 cm)	29.5" (74.9 cm)
Width (Front)	19.5" (49.5 cm)	19.5" (49.5 cm)
Depth	12.6" (32.0 cm)	12.6" (32.0 cm)
Trapezoid Angle	45 deg. Prism	45 deg. Prism
Net Weight	49 lb. (22.2 kg)	47 lb. (21.3 kg)
Shipping Weight	61 lb. (27.5 kg)	59 lb. (26.6 kg)

1250 Frequency Response and Impedance / Enclosure Dimensions

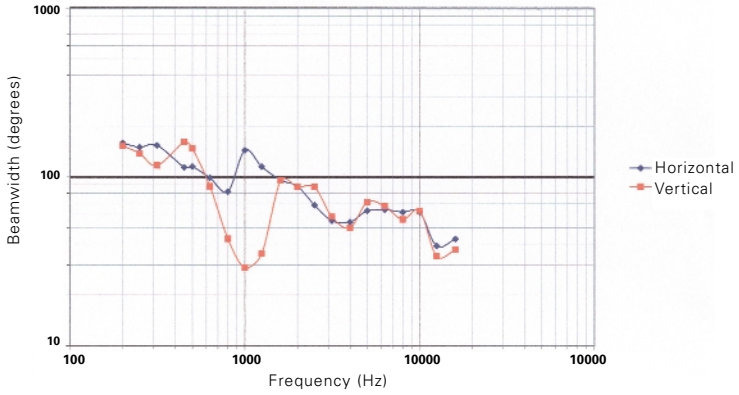
Frequency Response and Impedance (Passive Mode)



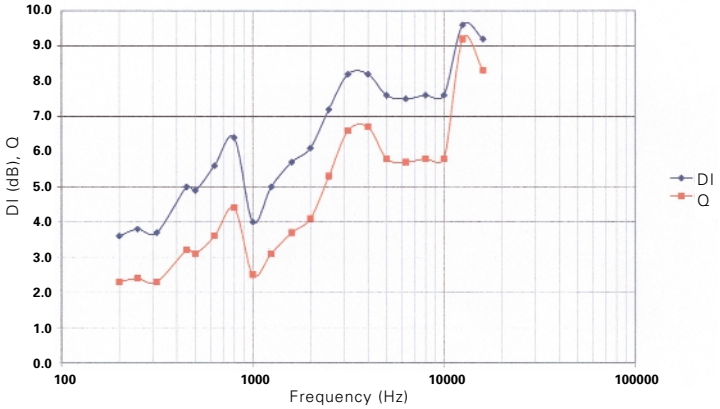
Horizontal Frequency Response (O°, 30°, 60°)



Beamwidth vs Frequency



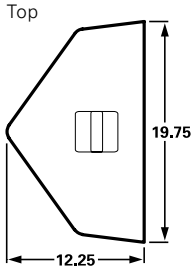
Directivity Index and Q



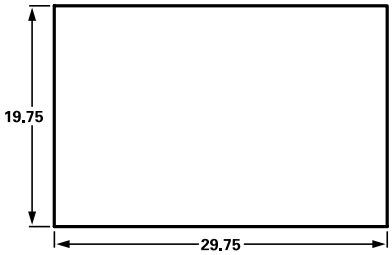
Physical Dimensions

All units in inches

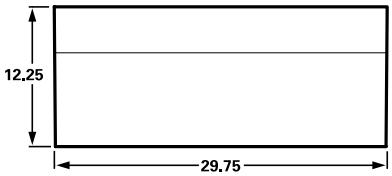
Top



Front



Side



For more information about QSC professional loudspeakers, contact your local QSC sales representative, or call us toll-free at: **(800) 854-4079**

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