

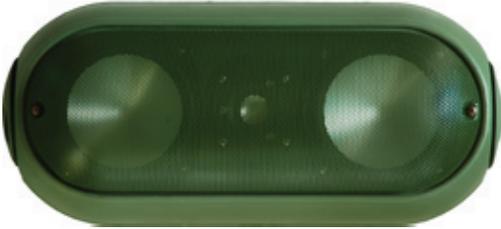


AC SERIES ALL CLIMATE LOUDSPEAKERS

OWNER'S GUIDE FOR ALL AC.15e, AC.16e, AC.17e AND AC.WF16 SPEAKER MODELS

Visit www.terraspeakers.com for additional technical information and new product announcements.

AC.17e



AC.16e



AC.15e



AC.WF16



TERRA TECHNOLOGY & DESIGN

ALL CLIMATE DESIGN

The Terra ACAD™ driver design is immune to harsh environments • Terra's MFCSTM system eliminates spider degradation and improves driver linearity • The rigid UniCavity™ enclosure is weather tight • Optional watertight connectors available • Aluminum/stainless steel hardware • Non-corroding plastic grille • UV resistant design

ACAD: Anodized-Ceramic Aluminum Diaphragm

One of Terra's founding principles is that metal is an ideal choice for speaker cones. Terra's proprietary ceramic anodizing method stiffens and weather proofs the aluminum cone. The result is a cone that's as light and rigid as possible – two qualities essential for producing great sound. And unlike ordinary cone materials, ACAD is immune to harsh outdoor environments and won't degrade over time. Other benefits of the ACAD driver design include:

- Greater Clarity** - unmasks the details that distinguish truly musical sound
- Purer Sound** - rigid, lightweight cone minimizes distortion, plays loud without harshness
- Better Dynamics** - reproduces musical dynamics without strain
- More Listenable** - smooth, non-strident sound eliminates listener fatigue
- More Reliable** - seamless, one-piece cones will not deteriorate or change characteristics with age

MFCs: Magnetic Fluid Centering System

In a conventional loudspeaker the typical pleated fabric "spider" acts like a spring to return the voice coil (and the cone) back to the "neutral" position, centered within the magnet's gap. Terra bass/midrange drivers eliminate spiders, using instead a special magnetic fluid in the gap. This fluid provides the restoring force - in the form of magnetic attraction - needed to guide the voice coil and keep it centered within the gap. At higher output levels, the enhanced precision of MFCs reduces driver nonlinearities and permits longer cone excursion for greater output. And unlike a traditional spider, Terra's MFCs design is immune to harsh outdoor environments and won't degrade over time. In addition, the magnetic fluid acts as a heat sink for the voice coil, which increases the driver's power handling capability by cooling the voice coil. Other benefits of the MFCs systems include:

- Extended Bass** - longer cone excursion maximizes bass output
- Less Distortion** - voice coil is constantly centered, even at the loudest levels
- Better Dynamics** - absence of mechanical resistance speeds transient response
- Greater Linearity** - linear damping forces ensure consistent response
- More Reliable** - no mechanical parts to deteriorate or fail with age

UniCavity™ Enclosure

The best way to keep the elements out is to give them no way in. Terra's UniCavity enclosure is rotationally molded as a single piece with uniform wall thickness and a seamless aesthetic. The threaded end caps that secure the multi-angle aluminum bracket attach to a screw post that is part of the mold (thus, no screw hole). The cabinet's thickness and rigidity minimize vibrations that would color the sound. The rounded baffle minimizes second-order harmonic distortion typical of conventional angular baffles. The result? Clearer, more accurate sound. Other benefits of the UniCavity enclosure include:

- All Climate** - sealed enclosure keeps out moisture and corrosive particles
- Less Distortion** - thick, rigid cabinet minimizes vibration
- Purer Sound** - curved baffle minimizes refraction distortion

ADVISORY

The Terra AC Series loudspeakers can be used in a variety of applications, outdoors or indoors. If you are not completely comfortable with speaker wiring, amplifier connections, or other aspects of the physical installation, we encourage you to hire a professional audio/video contractor. For safety's sake the supplied mounting brackets must be secured properly with the appropriate fastening hardware. As an added precaution, a user-supplied safety strap can be affixed to the back of the speaker using a 1/4x20 screw, and then attached to the mounting surface. Please follow all applicable local codes and laws.



