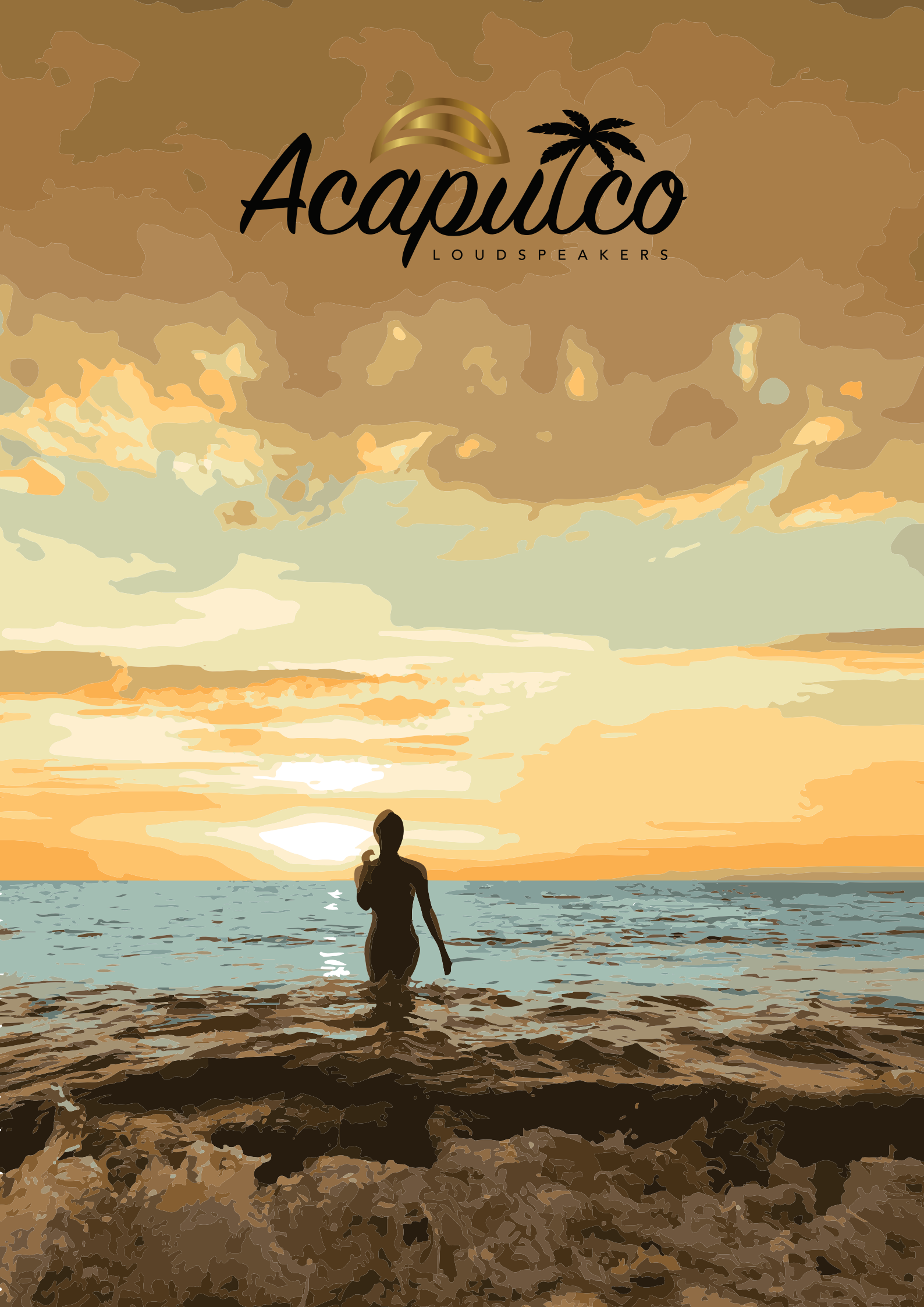




# Acapulco

LOUDSPEAKERS







**Troy Audio's Acapulco** loudspeakers are the new interpretation of the famous 60's classic **Altec Santana** speaker. The only difference is that we've improved the design using a new concept to create a highly musical system that will fit the discriminating taste of present-day Audiophiles.



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We redesigned the baffle and used high-quality wood and premium veneer to re-create true-to-life sound in a two-way configuration. Thanks to the superb Biflex 415-8C driver manufactured by our sister company Great Plains Audio LLC, and a modified state-of-the-art Fostex tweeter. Using premium components, we designed the crossover as simply as possible to avoid interfering with the audio signal.

We use Cardas connectors for the binding post and brushed metal spikes<sup>1</sup> carefully designed into a teardrop shape according to Fibonacci's curve to minimize vibration. In addition, Acapulco includes a base that raises them off the floor and provides a 5-degree listening angle, something very comfortable for the audiophile and music enthusiast because this generates a more homogeneous time response between the woofer and the tweeter.

The heart of the Acapulco is the full range 415-8C mentioned above driver. Biflex drivers provide high efficiency, a wide range, and smooth response over a more extensive distribution area.

With the introduction of the Biflex principle, the problem of obtaining full-frequency reproduction from a single-cone loudspeaker is now solved. Whereas, in the past, it was necessary to provide a compromise between the smaller cone with minimum weight and diameter, best for HF reproduction, and the more oversized heavier cone for optimum bass response. Bi-flex loudspeakers use the principle of a damped mid-cone, wherein the entire area of the speaker cone propagates the low frequencies and the smaller central cone for the high frequencies.



1. Optional with extra cost



## SPECIFICATIONS

### Nominal impedance

8 ohms

### Sensitivity

97 dB SPL 1 watt 1 meter

### Frequency response

26 Hz -22 kHz

### Dimensions

#### Loudspeaker

Height: 675 mm

Width: 545 mm

Depth: 489 mm

#### Dimensions Base

Height: 146 mm

Width: 500 mm

### Total weight

60 kg each cabinet



Below 1000 cycles, the stiffness of the mid-cone conforms so that it couples the inner and outer sections into a single moving element. Above 1000 cycles, the balanced mass of the cone's outer portion permits the inner area to operate independently. The Biflex design, coupled with the famed GPA Quality precision standards, produces a loudspeaker whose performance exceeds other competitors in the market.

The 415C employs AlNiCo V magnets for maximum efficiency; the voice coil is of edge-wound aluminum in a deep magnetic gap to maintain proper cone control and linearity, resulting in extremely low distortion, even during excessive cone excursion. In addition, the 415-8C driver basket has been redesigned to provide increased strength and stiffness.

We are using a modified Fostex super tweeter with an AlNiCo magnet. Something has well calculated the coupling between the super tweeter and the Biflex horn in impedance and sensitivity. In addition, we are allowing the complete response of the Biflex driver - which naturally has a soft roll-off from 14 KHz; the super tweeter functions only as a subtle reinforcement at extremely high frequencies. The tweeter is surrounded by a plate that doubles and serves as a waveguide that expands high-frequency coverage, thus unveiling a wide soundstage.







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