

MC AUDIOTECH

Forty-10 Loudspeaker Overview

First – the name. The loudspeaker **Forty-10** is so named because the WBLs* transducers employed in it are the result of over 40 years of continuous development by the designer. The numeric designation indicates the number of these transducers employed in each loudspeaker. Simple.

The loudspeaker is composed of two primary parts per side: The **ARRAY** which houses the 10 WBLs drivers and The **FOLDED CUBE** woofer which plays low and holds the **ARRAY**. The system is a two-way with the **ARRAY** handling all frequencies from 100Hz on up and the woofer handling everything from 100Hz on down. This makes the **ARRAY** truly broad band in terms of its coverage of the audio frequencies. From this comes sound that is cut from a single cloth with no crossover compromises in the normal audio band. That coupled with the **ARRAY's** large, precise horizontal dispersion, make for a truly musical sound. Further, the **ARRAY** is curved vertically and horizontally to gain the maximum sonic coupling benefit from the 10 WBLs drivers!

Below the **ARRAY** is the **FOLDED CUBE** woofer. It contains 2 – 18" diameter pro sound woofers specifically chosen for, believe it or not, speed and natural tone. The cube itself is effectively an open baffle, folded to the smallest possible size to contain the two drivers. A unique twist is the fact that these woofers are under slight compression to provide a more stable environment and prevent hysteresis.

Further notes are in order. The Forty-10 loudspeaker is a dipole from top to bottom. It utilizes a simple hybrid passive/active analogue crossover to feed the amplifiers driving the **ARRAY** and **WOOFER**. And yes, it must be bi-amped. Any reasonable quality solid state amp of 100 watt up can easily drive the bass. Regarding the **ARRAY**, I am reminded of what Oscar Wilde said – "I am easily satisfied. The best (amp) will always do.

The specific design and execution of the Forty-10 loudspeaker create a unique product with a unique sound and a unique look. But more than that, this loudspeaker is robust, easy to set up, room friendly and listener friendly! Moreover, we believe it re-defines what a truly world class loudspeaker should be! But we will defer to your ears to answer that question.

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*See WBLs Transducer White Paper (www.mcaudiotech.com)