DYNAMAX MODULAR SUPER SPEAKER SOUND CONCEPT

MAX Power Handling MAX Linearity
MAX Sound Quality MAX Cone Area

MAX Sound Level MAX Versatility

= MAX Listening Pleasure at MIN Cost !

Today's increasing demand for high power listening levels can barely be achieved with bookshelf speakers and amplifiers of modest power. Such operation can result in poor fidelity or gross distortion and may quite likely damage the speakers, and even the amplifier. The recognized advantages of high power amplifiers point up the need for speaker systems of complementary capabilities.

Dynaco offers a lower cost, building - block solution to the problems of present high performance speaker designs. The sonic excellence of the standard Dynaco bookshelf speakers has been so clear, that multiples of these provide performance which is directly comparable to far more expensive loudspeaker systems.

The Dynamax building-block approach enables you to step up to a maximum-performance speaker system, utilize the full capabilities of the finest amplifiers, and still retain absolute flexibility and a minimum floor space requirement. Two, four or six speakers per channel provide commensurate benefits at high listening room levels. Two speakers in parallel are a logical combination with the Dynaco Stereo 150 amplifier, for example, at 100 watts per channel into 4 ohms.

The Dynamax concept works effectively with the A-10s, A-25s, A-35s, A25XLs and A-40XLs. For home listening, the simple stack provides a large sound source with excellent imaging and focus. Close spacing of the woofers achieves additional bass output efficiency over the straight additive woofer radiating area of 47 square inches each (true effective area). Six speakers per channel employs a total area of 565 square inches - nearly 4 square feet!

Personal taste may dictate alternative speaker arrangements for special sonic characteristics. A curved array could provide even broader high frequency dispersion if desired. Reflecting some of the speakers off adjacent walls can provide an even larger, less focused sound image. Spacing the speakers around the room is effective for some sound distribution applications. The Dynamax system also easily converts to a quadraphonic sound system, or as remote speakers in the other rooms.

Dynaco aperiodic systems offer advantages over other speakers when applied to the multiple speaker concept. Their basic design characteristics of smoothness of frequency response, low distortion, minimal impedance variation, and simplified crossover networks in a two-way system, become more significant when used in multiples. Intermixing of different models is not recommended in stacked arrangements, although, the marked similarity of impedance and response characteristics of the various Dynaco models permits some interchangeability in flexible systems.

The tight impedance control in Dynaco aperiodic designs is a decided benefit with series-parallel connections, and assures that even two speakers connected in parallel (which is the lowest impedance connection that is recommended) affords a safe and easily driven load for any amplifier.

Multiple woofers in separate enclosures provide more accurate bass output with superior transient response to larger woofer systems. There is no back coupling interaction, and greater linearity results from divided power handling. In banks of 4 or 6 speakers per channel, the A-25XL or A-40XL are nearly blowout-proof with 200 or 300 watt per channel amplifier ratings, respectively.

Why does a Dynamax speaker system perform so well? In large part because the inherent sonics of the basic design are so accurate, and power handling is its only real limitation. They provide a nearly ideal (largely resistive) amplifier load, and do not suffer from artificial boosts sometimes incorporated in a smaller speaker system to make it sound impressive. Too, the large, expensive, and frequently higher efficiency systems are often specifically engineered for intelligibility at very high levels, rather than being designed primarily for high fidelity listening.

The famous A-25 offers the maximum performance-value capability, and is most successful with an octave equalizer. The A-35 has a more refined low end than the A-25, and provides a subtly smoother mid-range response. The A-25XL and A-40XL both offer higher efficiency, together with higher power handling capability and an extended high end response. The A-40XL has a sonic balance closer to the A-35, with a more prominent mid-range and the same dual spectrum woofer damping.

An octave equalizer can be included in this chain to provide a further increment of sonic accuracy. Most of the advantage in using the equalizer lies in overcoming the sonic limitations of the listening environment. It should be noted that a quality octave equalizer may be used with any Dynamax speaker system to fullest advantage, as the enormous power handling capability of the load is maintained across virtually the entire frequency range.

