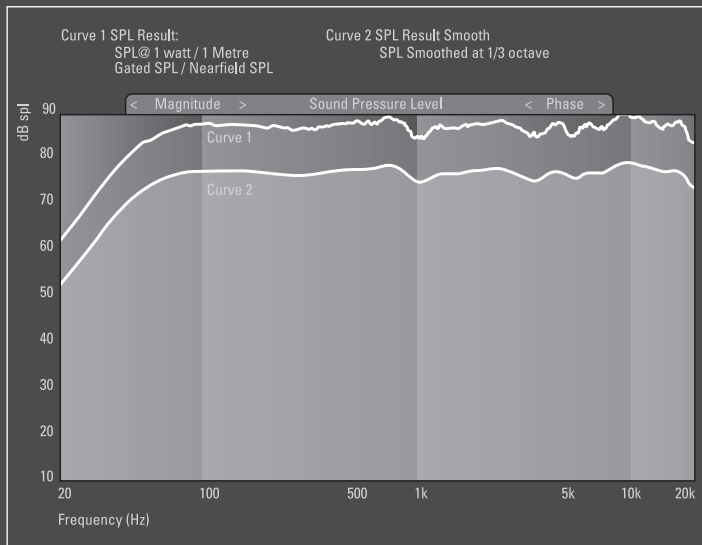




XL-01 Specification Sheet

The XL-01 is a two way, two driver speaker. The bass driver feature Hexatech voice coil for prodigious power handling. The design is suitable for Home Theatre but was primarily designed for general listening.



Above: Results from Loudspeaker measurement System (V3.72 LinearX Systems Inc) 18 May 2004.



Drivers.

165mm Woofer DAW168
28mm Tweeter DAT20

Speaker Dimensions.

Height. 1018mm
Width. 195mm
Depth. 240mm

Enclosure Material

18mm medium density fibre board
Enclosure is Tuned Ported.

Damping

Random long fibre, high density, non-allergenic fill

Crossover Description.

Second Order (12dB Slopes)

Frequency Response

50Hz to 20KHz (@ -3dB points)
55Hz to 18KHz +/- 2.5 dB.

Impedance.

Nominal 8 Ohms
Minimum 4.5 Ohms at 3kHz
Sensitivity 87dB 1W1M

Rated Power Handling

100 Watts

Recommended Amplifier Power

20 - 100 Watt



State of the Art Audio Technology

This Loudspeaker features MOREL Drivers. MOREL drivers are manufactured in Israel to world class standards.

The woofer voice coil is 75mm and is manufactured by the Hexatech process that eliminates the small pockets of air trapped in other voice coils. These factors allow the voice coil to heat and cool evenly. In fact, thermally the voice coil acts as a solid ring rather than individual wires. The heavy duty steel basket actually forms part of the drivers magnet circuit. Combined with double magnets the driver is able to deliver a pure sonic performance rare even by today's standards. The cone and dust cap are manufactured from one piece Damped Polymer Composite material in a shallow profile. This avoids the usual cone break-up problems encountered when the cone and dust-cap are made from dissimilar material glued together. This provides for tighter, cleaner bass and transparent midrange response.



The tweeter uses a standard voice coil in a double cavity design. It has a low resonance and is equipped with ferro-fluid. The larger than normal coated 28mm textile dome provides for a surface area 25% greater than a conventional 25mm tweeter giving greater control over the lower portion of the tweeters range for a more natural sound.

The sealed version has the benefit of a very small enclosure, ideal when augmented by a subwoofer. These speakers were designed to be used as satellite speakers in a Home Theatre System and provide brilliant clarity.

All loudspeaker enclosures require a stuffing material to dampen sound energy inside the enclosure. Some manufacturers use fibreglass insulation – a potentially dangerous (carcinogenic) substance especially when you consider that particles will be blown out through the port into your listening room! These speakers use a long fibre non- allergenic material that is also of a much higher density than is commonly used. In fact the material used is 25mm thick and weighs 32Kg per cubic metre.

The enclosure is available either as a tower design with a lower cavity designed to be filled with kiln dried sand for all the sonic improvements this added mass can give or as a small bookshelf design for unobtrusive placement. It is manufactured from 18mm MDF and considering the small panel sizes required, make for a solid non-resonant enclosure. It is finished to the highest possible standard.

For More Information

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