

# neat<sup>n</sup> acoustics

## ultimatum XL10

The ULTIMATUM series of high-performance loudspeakers was launched in 1999. The **XL10** is the result of a complete revision of the flagship MF9 model, building upon that model's strengths in order to deliver a world-class full range performance.

The ULTIMATUM XL10 loudspeaker adheres to all the principles that have ensured the ULTIMATUM series such enduring success.

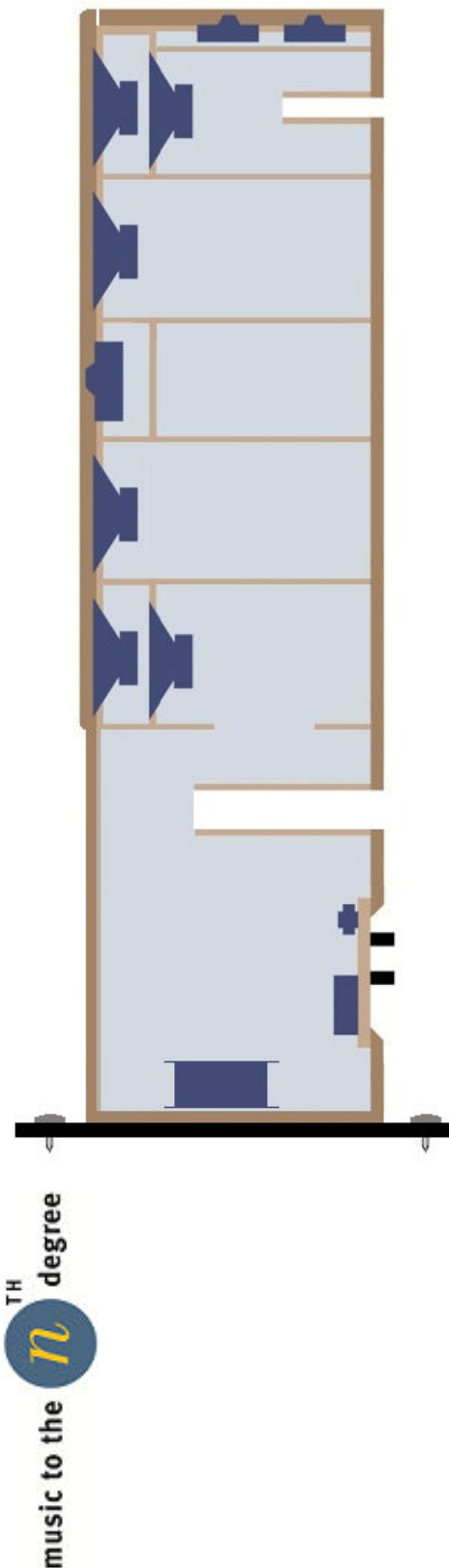
The ultra-rigid birch-plywood enclosure, unique baffle-coupling technology, 'isobaric' bass loading and twin EMIT ribbon-type super-tweeters are just some of the elements of the design that delivers the ULTIMATUM promise of a lifetime of musical enjoyment.

The enclosure comprises eight discrete internal cavities each optimised for purpose and each different. The bass volumes and mid/bass volumes are larger to suit the tuning while the main HF cavity is small to increase rigidity and to stop back pressure from the mid/bass driver adversely affecting the rear chamber of the tweeter. The two EMIT super tweeters are similarly isolated.

The main structure is damped 18mm Birch Plywood sourced from Scandinavian slow-growing forests as this ensures the densest, most consistent material. The drive unit baffles are constructed from a 45mm thick 'sandwich' of Birch Plywood, Polyethylene and MDF. This provides a rigid non-resonant platform, which is ideal for optimal performance of the drive units.

***"The Ultimatum is a labour of love and the end result of painstaking development and refinement. Such quality doesn't come cheap, but Neat's Ultimatum deserves recognition as amongst the very best there is, irrespective of price."***





There are two separate isobaric loaded sub-bass sections, each with its own enclosure volume and tuning. These use the latest version of Neat's 168mm drive unit, which has been developed and refined over a twenty-year period. The two sub-bass sections are critically tuned independently to maximize room location flexibility.

The main mid/bass drivers are special versions of this unit, with an aluminium phase plug to aid dispersion and reduce dynamic compression. Again the volumes are of different sizes to reduce any possible resonant character.

A sealed sub-cavity contains the main HF drive unit. This is a modified SEAS XL SONOMEX domed XL unit with additional damping and support.

A separate sub-cavity at the top of the enclosure contains two EMIT type super-tweeter drive units.

The crossover is a minimalist 5-element type (plus damping & attenuating resistors) employing precise-tolerance, low-loss air-cored inductors and newly developed polypropylene film & foil capacitors. The speaker exploits predominantly first-order crossover slopes and mechanical roll-offs for a natural, uninhibited performance.

#### Specifications

**HF Unit:** 26mm SONOMEX Domed XL

**Super HF Units:** 2\* EMIT 25mm planar/ribbon

**Bass / Midrange Units:** 2\* 168mm NEAT Bass/Mid Unit with Aluminium Phase Plug

**Bass Units:** 4\* 168mm NEAT Bass Units

**Dimensions (hwd):** 150x22x37cm.

**Footprint (wd):** 35x51cm

**Enclosure type:** Multi-chamber, multi-driver array, incorporating isobaric internal cavity, plus upward firing super-tweeters.

**Sensitivity:** 89db/1 watt.

**Recommended amplifier power:** 25 – 300 watts.

**Impedance:** 8 ohms average. Minimum 5 ohms.

**Weight:** 60Kg.

**Shipping weight:** 140Kg. *per pair.*

Standard finishes: figured birch, black ash, natural ash, oak, cherry, walnut, rosenut.  
 Premium high-gloss finishes: piano black, piano white, velvet cloud, red velvet cloud

### Neat Acoustics Ltd.

29B Hamire Enterprise Park Barnard Castle, Co. Durham, DL12 8XT, UK  
 Tel: +44 1833 631021 Fax: +44 1833 630022 [www.neat.co.uk](http://www.neat.co.uk)