



GEOMETRY SERIES
THE FUTURE IS CARBON





GEOMETRY SERIES
THE FUTURE IS CARBON

// *The Wilson Benesch Vector is an outstanding loudspeaker... it tells you the truth, the whole truth and nothing but the truth - Alan Sircom, HIFI+, Issue 94.*



The mathematical nomenclature afforded the Vector and its standmount sibling the Vertex, are direct homage to the fundamental importance of organic, geometrically optimised forms that have been exploited in pursuit of the ultimate performance within the company's new Reference Loudspeaker line, the Geometry Series.

Through significant investment in the latest 3D CAD/CAM software and tooling, Wilson Benesch has created a highly optimised product line that surpasses the company's previous reference line, the Odyssey Range, and celebrates the importance of music within our life.

DRIVER TECHNOLOGY

In the development of the Geometry Series, Wilson Benesch built upon the extensive knowledge gained through the development of the Wide Bandwidth Collection and the preceding Odyssey Range, to realise the Tactic II drive unit and Semisphere Tweeter.

Like the Cardinal flagship from the same Series, the Vector is equipped with the pinnacle of Wilson Benesch's drive unit technologies.

The Vector features the new Semisphere tweeter, a dedicated mid-range Tactic II drive unit and a dedicated bass Tactic II drive unit, wired in a 2.5-way design.

SEMISPHERE TWEETER

The Semisphere Tweeter is a revolutionary wide bandwidth, hybrid soft-dome design which functions with the most simple crossover to ensure the lowest possible level of distortion. At the core of the Semisphere are six-axially mounted Nd.Fe.B magnets sandwiched between a precision CNC machined front and back plates. A metallic chassis holds captive a silk-carbon hybrid dome, which produces a beautifully open and natural sound. Of particular note, is the absence of the sibilant, fatiguing characteristics of hard dome technologies. Designed in parallel with the Wilson Benesch Tactic II drive unit, the integration is seamless.

TACTIC II DRIVE UNIT

The original Tactic multirole drive unit was born from a £130,000 R&D project. The Tactic introduced NdFeB rare earth magnets and Isotactic Polypropylene cones to the audio industry for the first time.

Courtesy of Sheffield University, the new Tactic II drive unit has built on the the foundations of its predecessor. Application of the very latest finite element analysis tools has optimised magnetic flux across the motor geometry and gas flow of the low profile basket. The Tactic II drive unit therefore attains greater efficiency and power, improving output by around 2dB.

The crossover design and drive unit topology has been a key area in which the design of the Geometry Series has made advances over its predecessors. In the Vector the mid-range drive unit is wired directly to the amplifier, with a single inductor on the bass Tactic II drive unit and a simple single high quality polypropylene capacitor and a single inductor on the Semisphere tweeter to filter frequencies sub 5kHz. As a result, impeccable temporal coherence is achieved, with impressive soundstaging and lifelike presentation. These characteristics extend throughout the Geometry Series to create a family sound.

The optimisation of the crossover to this degree has been afforded by the Wilson Benesch's complete control over the drive unit design, affording the company 25+ iterations of its Tactic drive technology which are optimised according to function.

GEOMETRY AND FORM

Despite a relatively compact form, the Vector creates a formidable presentation of high-end audio. The sound is rich with all the nuances and timbre of the musical performance. Fitted with cutting edge Wilson Benesch drive technologies, this presentation is delivered with ultimate poise and power.

Unrivalled finish quality pertains to all components, from the aerospace grade anodised alloys through to the high-gloss carbon fibre monocoque and the custom wood veneer finishes. This affords the compact Vector design an appearance befitting its Reference Line status.

VECTOR LOUDSPEAKER SPECIFICATIONS & AWARDS

Drivers

1 x 25mm (1") Wilson Benesch Semisphere Tweeter
1 x 170mm (7") Wilson Benesch Tactic II Mid Drive Unit
1 x 170mm (7") Wilson Benesch Tactic II Bass Drive Unit

Crossover Arrangement

1st-Order Bass Roll-off
Midrange Drive Unit Directly Amplifier Coupled
1st-Order High Pass Tweeter Filter
Crossover Frequencies: 500Hz / 5KHz

Low Frequency Loading

Bessel Alignment of Fourth Order Reflex
Double Chamber Differential Tuning

Cabinet Construction

Poly-alloy hybrid construction
A.C.T. Carbon Fibre Composite Monocoque
Alloy Baffle with machined bevel finishing

Measurements

2.5-way
Nominal Impedance: 6 Ohms Nominal / 4 Ohms Minimal
Sensitivity: 89dB @ 1-Meter on axis, 2.83V Input
Frequency Response: 35Hz - 30KHz +/- 3dB

Dimensions

// Height: 910mm (36")
// Width: 230mm (9")
// Depth: 370mm (14.5")
// Air Volume: 44L
// Weight: 31kg (68.3 lbs)

Finishes

Standard: Black, Regal Silver, Titanium
Wood Satin: Natural Cherry, Maple, Oak
Wood Gloss: White Gloss, Birds Eye Maple, Red Birds Eye, Burr Walnut, Ebonised Walnut, Walnut, Red Tulip, Zebrano



VECTOR LOUDSPEAKER
DIAPASON D'OR
PALMARES HI-FI 2012
DIAPASON - FRANCE

THE FUTURE IS CARBON