



**ACOUSTICS**

Concept 500



Explore the Concept 500

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Founded in 2006, Q Acoustics quickly built a reputation for designing and manufacturing class-leading loudspeakers.

Concept 500 is the culmination of Q Acoustics continual evolution and refinement resulting in what we believe is near sonic perfection.

Evolution Refinement Perfection.

### Crossover

Great care has been taken in both the design of the crossover and the selection of high grade components, to introduce virtually zero noise and distortion. The 4th-order Linkwitz-Riley topology which gives an excellent response both on and off-axis.

### Cabinet Bracing

A method, known as P2P™ (Point to Point) bracing, supports the parts of the cabinet that need to be stiffened to deal with low frequency panel vibrations.

### Cabinet Walls

Constructed in three separate layers and filled under pressure with a non-setting gel, this damps the cabinet walls and converts higher frequency vibrations into heat.

### High Frequency Driver

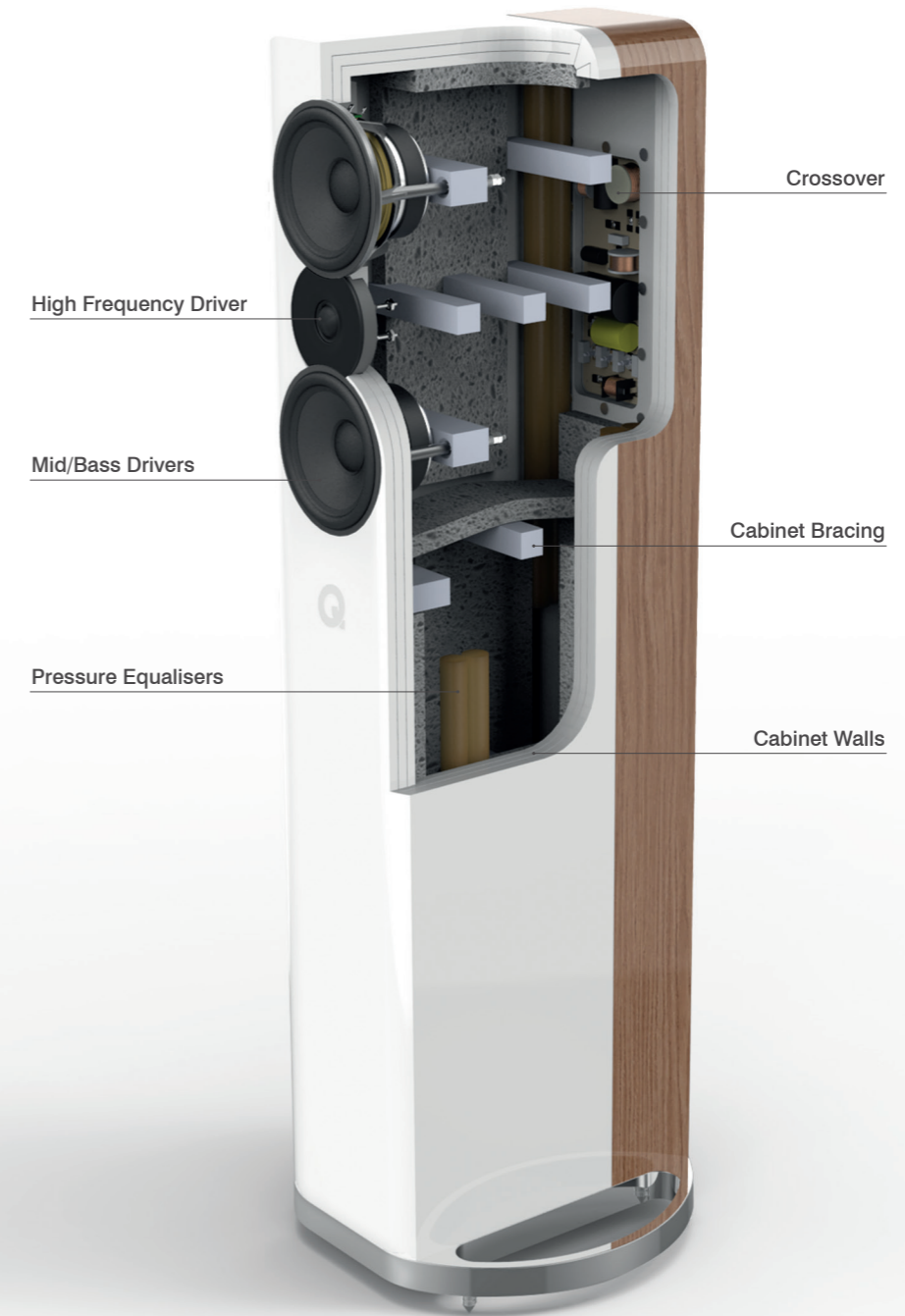
Mechanically decoupled mounting which effectively isolates the HF driver and speaker cabinet from reciprocal vibrations that would otherwise be transmitted between them.

### Mid/Bass Drivers

The Mid/Bass voice coil has an uncommonly large diameter of 35mm which allows increased 'shove' and higher power handling - as well as reducing compression.

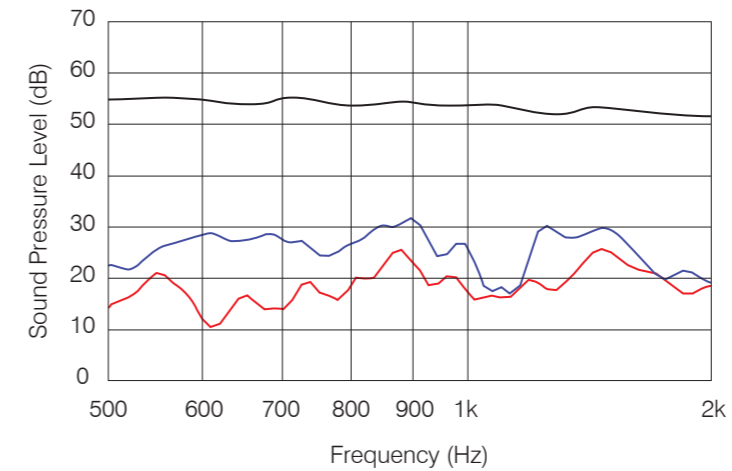
### Pressure Equalisers

Tall loudspeakers tend to suffer from resonances caused by unwanted pressure gradients. Specially designed Helmholtz Pressure Equalisers (HPE™) balance out these pressure irregularities.





**SPL v Frequency for Gelcore™  
treated / untreated cabinet wall**



Input (—), Conventional Cabinet (—), Dual Gelcore™ (—)

### Dual Gelcore™

The speaker cabinet is constructed in three separate layers. The gaps between the layers are completely filled under pressure with a compliant form of non-setting gel. The two constrained layers effectively damp the walls of the speaker cabinet by converting higher frequency vibrations into heat, which is then dissipated harmlessly within the damping gel.

The graph (left) shows how the cabinet performs in the mid-band frequency area from 500Hz to 2kHz. The blue line shows the amount of unwanted sound energy produced by the wall of a conventional loudspeaker cabinet.

Any erroneous boost or cut in level at this frequency can affect the perception of musical timbre and contribute to listener fatigue. You can see from the trace of the red line how the addition of Dual Gelcore™ technology significantly reduces the ability of the speaker cabinet to interfere with the accurate reproduction of the source material.

The objective of any good Hi-Fi system is to reproduce a convincing live performance in the comfort of your home.

The Concept 500 adopts some of the most advanced and innovative technologies to deliver pure audio excellence and a sensational sound stage.

Neutral, powerful and dynamic.



Frequency Response	41 Hz – 30 kHz +3/-6 dB
Average Impedance	6 $\Omega$
Minimum Impedance	3.7 $\Omega$
Recommended Power	25 - 200 W
Sensitivity	90 dB for 2.83 Volts
Distortion	<0.2 % (120 Hz – 20 kHz)
Crossover Frequency	2.5 kHz
Mid Bass / Driver	2 x 165 mm (2 x 6.5")
High Frequency Unit	28 mm (1.10")
Overall Size (W x H x D)	400 x 1150 x 350 mm (15.74" x 45.27" x 13.77")
Cabinet Width	200 mm (7.90")
Weight	42 kg per cabinet (92 lbs)
High Frequency Level	+ or - 0.5 dB above crossover

