

LINEA CLASSICA

Quinta 2006 (second series)



In the new Quinta have been replaced with the medium and tweeter speakers in class, category and grade.

The new tweeter is the D2009 Scanspeak already present in mouse models of gamma (Tebaldi, Malibran and Caruso). The two aluminum woofer, great for playing the bass, were maintained. Even the crossover, preserving the cascade topology has already been adopted for Tebaldi, was adapted to the new class of new modell.

The new midrange has annealed polypropylene membrane that ensures excellent rigidity above the diaphragm in the midrange. The most interesting about this particular speaker's voice coil in whose support is plated with copper. This solution has reduced from 0.63 to 0.25 Hm inductance of the coil. The change in inductance of the coil, and changes in flow caused by it, are primarily responsible for the distortion in the midrange speakers in the dynamic.

Reducing the value of the inductance is reduced and the primary cause of distortion is unnecessary to reiterate the importance of reducing the distortion in the midrange.

Even the cabinet, which has the same external dimensions as the previous model, has been enhanced in particular adotttando a more effective soundproofing material made from open cell melamine surfaces shaped like a pyramid, often 10 cm. This is effective soundproofing from 125 Hz to ensure damping of normal modes and the complete demolition of the back radiation produced by significantly improving midrange clarity (definition, detail).

The new Quinta, although part of the original series, takes a leap important quality that distinguishes the absolute qualità reproduction and for value for money that becomes even more competitive. Opera Quinta is a final speaker: Full extension of low frequency, capable of reproducing sound important volumes, dynamic, with a clear and defined midrange and high range typical of our speakers gamma.

With four Opera Quinta you compose a home theater system that requires no center channel or sub-woofer.

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System

The Opera Quinta differs from the previous model of the same name by having a new cabinet, new components and new crossover. The cabinet is slightly larger than before, with an internal volume of around 60 litres and is divided into two chambers; the lower chamber, of roughly 40 litres houses two bass drivers. The upper chamber, of roughly 20 litres houses the upper bass driver. The three reflex ports are mounted on the loudspeaker's rear panel. There are 4 gold plated terminal connectors and the speaker is bi-wirable if required.

Cabinet

All the new models have their cabinets in shaped MDF with sides veneered and lacquered using real wood, and the remaining sides are finished in leather. The size of the front panel, following Opera's tradition, is large enough to hold the loudspeakers. The inside of the cabinet is divided into two separate chambers, which not only reinforces the structure but also raises the frequency of the first normal resonance mode. The inside of the cabinet is filled with a good quantity of acrylic wadding which helps to eliminate internal reflections and resonance and aids bass frequency damping.

Components

All the models of the Classic Series use the same drive units; the one inch tweeter (the same used in the Callas SP) is a silk dome unit, ferrofluid filled and having an ample rear decompression chamber. The qualities of this SEAS tweeter are well known and appreciated. The woofer, also made by SEAS, was developed specially for this line of loudspeakers. It is a 6.5 inch unit with 18cm chassis, 38mm voice coil, aluminium diaphragm and rubber outer suspension. It has a dynamic mass appreciably higher than the norm, and an impedance of 4 ohm. Two copper rings are fitted above and below the T-shaped pole piece, which both reduce distortion and stabilize the magnetic flux. Finally, the bullet-shaped phase plug in ABS overcomes compression effects associated with normal dust-caps. It also improves emission at the high-frequency end of the unit's range. The cast chassis, of aerodynamic design, is fully open even beneath the inner suspension.

Crossover

In designing the new Classic Series, particular attention has been paid to electrical impedance. This is to ensure that the loudspeaker will present a load compatible with every type of amplifier. The minimum impedance for a nominally 4 Ohm loudspeaker under DIN regulations is not less than 3.2 Ohms at the lowest point of the impedance curve. Opera Quinta adhere to this norm. The electrical impedance curve of the Opera Quinta is in fact always above 3.2 Ohm and although not completely resistive it is extremely regular with phase rotations close to zero over a wide range of frequencies from 200Hz upwards. This ease of drive makes the Opera Quinta very rare and contrary to the prevailing tendency of the vast majority of loudspeakers currently produced.

Sensitivity is 89dB (2.83V/1 metre). At Opera we believe that the cost of a loudspeaker should be considered together with the cost of a suitable amplifier to drive it; it is of little use to have an attractive price for the loudspeaker if a very expensive amplifier is then required to give good results.

The Opera Quinta is a very easy loudspeaker to drive, and optimum results can be achieved with any type of amplifier whether valve or solid-state.

The crossover of the Opera Quinta is a three-way, with two bass units connected in parallel. In this way high power handling is obtained together with associated high dynamics and low distortion.

This configuration has proved to be the most suitable to obtain the desired impedance curve. The overall acoustic roll-off applied to the top bass unit is in the order of 12Db per octave.

The high-pass filter for the treble unit, apart from a couple of resistors, is a second order which enables the acoustic frequency of the cross-over to be lifted to a little over 2kHz. The wave length at the acoustic crossover frequency is therefore equivalent to the distance between the centres of emission of the top bass unit and the tweeter, which makes the emission very similar to that of a small two-way loudspeaker.

Room placement

Opera Quinta is a floor standing loudspeaker. It is inadvisable to place the loudspeaker in a corner, and the recommended distance from side walls is at least 30cm. As always, the best position within the room will be found by some experimentation. Even though the reflex ports are rear-mounted, it is sufficient to maintain a distance of just a few inches between the rear of the loudspeaker and the rear wall.

Because of the impedance module allows – assuming a good amplifier is used – two pairs of Opera Quinta in serie (two for the right channel and two for the left).

Technical Specifications: Opera Quinta

System	Floor standing column – Bass Reflex in 2 separate chambers, rear-firing reflex ports Finish: wood and leather
Drive units	2 bass and 1 midrange drive units 6.5" aluminium cone 1 tweeter, dome 1" – silk dome, ferrofluid, decompression chamber
Number of ways	3
Frequency response	32 -20000 Hz
Cross-over:	On pcb 12 dB/octave Crossover frequency 500-2000 Hz circa
Max power handling	200 watt RMS
Recommended amplifier	Minimum 15 Watt RMS
Sensitivity	89 dB/2.83 Volt/1 metro
Nominal Impedance	4 ohm (3.2 minimum)
Room Positioning	At least 20 cm from rear wall At least 30 cm from side wall
Dimensions	117.5 x 24 x 39,5 cm (HxLxP)
Weight unpacked	34 Kg each
Packed weight	35 Kg each