

„... the speakers scored with their elegant design and the superb workmanship.“

Magnat Quantum 1009 S

HiFi Test TV·HIFI	Reference class	05/14
	PRICE / PERFORMANCE	Note
	VERY GOOD	1,0



PRICE/PERFORMANCE:
VERY GOOD
NOTE: **1,0**

- + **Excellent** workmanship
- + **Excellent** sound
- + **Very** stable



Magnat

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HiFi Test
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State of the Art

Magnat has been guaranteeing the highest quality music for many years with its extensive range of products. The manufacturer from Pulheim near Cologne has now been put to the sound test with its visually impressive and powerful Quantum 1000 series speakers. How well does the brand new Quantum flagship sound?

The new Quantum 1000 S speakers are replacing the former flagship series produced by Magnat and the chassis used by the Signature series are now responsible for converting the sound. A noble housing design and the excellent workmanship quality also characterise the new system. For a pair price of about 4,500 Euro, with numerous reinforcing struts, double side panels and powerful speaker chassis, you have the model with the finest technology and two loudspeakers that are real heavyweights. The Quantum 1009 S floorstanding speaker, weighs in at around 51 kg – and that's per speaker!

Configuration

If you take a close look at the Quantum series, it is difficult to choose which special features of the loudspeaker we should talk about first. On the one hand there is the excellent design and workmanship of the speakers, which are available in a piano white or piano black finish, that are apparent straight away. All housings are extremely rigid thanks to their internal bracing. In addition, the double-walled configuration of the side panels and the chassis support behind the woofers effectively nip resonance in the bud. All of the drivers, the large bass reflex tubes and the finest terminals have been installed flush with the outer surface of the speakers. The chassis used for the speakers have been optimised using the laser-based Klippel measuring system. Voice coils and aluminium die-cast baskets are vented particularly effectively where undesired compression effects are almost ruled out completely. Engineers have ensured low distortion properties by using double inductance control rings. Finally, there is no eddy current loss due to the use of Kapton voice coil mounts. 24 dB Linkwitz-Riley filters provide the correct allocation of frequencies to the drivers. The 30 mm tweeter consists of a lightweight semi-crystalline polymer (PTFE) cone, which allows pulses to be followed extremely accurately. A wide surround enables an enhanced frequency response that extends well beyond the 30 kHz limit that was impressively confirmed by our laboratory measurements. Those that would prefer to conceal the beautiful aluminium drivers can use fabric grilles that are attached using magnets.

Technology

In the large housing volume, two 200 mm woofers in each floorstanding speaker ensure an adequate deep bass range. Two large bass reflex tubes at the rear extend the linear frequency response of the woofer down significantly. In order to avoid undesired flow noise on the bass reflex tubes, both edges of these are rounded generously. As with the woofer, it is also equipped with the 170 mm mid-range specialist, a membrane made from a ceramic-aluminium composite. All drivers are stabilised by inverse dust caps using the same material. The 30 mm tweeter features a solid aluminium front panel and a sound guide that enhances the dispersion properties of frequencies



above 20 kHz. The crossovers decoupled from the housing mechanically are equipped with high-quality polypropylene capacitors and low distortion transformer core coils. The disconnection of the four single drivers takes place at around about 470 Hz and 3.100 Hz. The gold plated connection terminal permits the bi-amping and bi-wiring operation. When supplied, the Magnat Quantum 1009 S speakers are equipped with stable cable bridges for the single wiring mode. Four inconspicuous metal spikes in the housing base carry the heavy floor-standing speakers. As an alternative, other selective housing feet can be screwed four brass threaded bushes.

Listening test

Screwing the Quantum 1009S slightly onto the listening position proved to be perfectly attired in our listening room. With loads of space to the rear and the sides, the coherent playback of the large floor-standing speakers was impressive. All sound sources could be differentiated exactly, the allocation of the actors was precisely and accurately. Music is graduated nicely throughout the room in terms of its breadth and depth, while precise differentiation between the instruments and excellent localisation is also ensured. The large cone surface area of the four 200 mm drivers generates ample pressure in the bass range, while the deep bass frequencies also leave nothing to be desired. If high volumes are required, the Quantum 1009S remains unfazed and delivers powerful levels with outstanding precision. Listening to live concert recordings is an intoxicating experience – just the way it should be! The fantastic tonal widths and depths of the speaker scored at the lower volumes, including the excellently pinpointed vocal nuances.

Conclusion

With the flagship Quantum 1009S Magnat has an excellent speaker in their range that is particularly suited to the indulgence in music thanks to its fantastic sound quality. On top of that, the speakers scored with their elegant design and the superb workmanship.

Short and sweet:

- + Excellent workmanship
- + Excellent sound
- + Very stable

Sound: 1,0

Laboratory: 1,0

A score of: 1,0