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„WONDER CHILD“

**Magnat**

**Quantum 1009 S**



**Magnat Quantum 1009 S  
very good**

**SOUND: VERY GOOD**

**CONFIGURATION: VERY GOOD**

**WORKMANSHIP: VERY GOOD**

**CLASS: TOP CLASS**

**OVERALL: VERY GOOD**



**Magnat**

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Magnat, the audio specialist based in the Rhine region, periodically reworks its successful Quantum series. The speaker series are divided into various price ranges. Magnat offers the right solution for every taste and budget. The new 1000 series currently includes the 1009 S floorstanding speaker being tested here, the 1003 compact speaker and the Center 1000 S. Anyone who wants to put together a home cinema surround set can choose between the two Quantum 731A and 6725 A subwoofers as a deep bass extension. The tall 1009 S floorstanding speaker is the flagship model of the new series and costs € 2,250\* each. AV-Magazin intends to find out how much quality material and sound the customers gets in the following report.

#### Scope of delivery and startup

The Magnat Quantum 1009 S includes a sound-permeable fabric grille. Thanks to the invisible magnetic mount, there are no unsightly mounting holes in the baffle to the benefit of the visual appearance. When unpacking the heavyweight speakers, the intuitive operating instructions make a positive impression leaving no question unanswered. Magnat includes a pair of white fabric gloves to prevent annoying fingerprints during setup. Four pre-assembled rubber feet suitable for hard floor coverings such as tile, parquet or vinyl ensure a secure footing. The included metal spikes are recommended if setting up Quantum 1009 S floorstanding speakers on a soft surface such as carpet. Recessed M8 threaded inserts for housing feet also allow use of optional floor connections from the accessories market. The speakers are connected by a solidly designed terminal. Thanks to a quadruple pole terminal, this even allows a bi-wiring or bi-amping connection to the connected amplifier. Anyone wishing to effectively use separate routing for the bass and midrange must first remove the short-circuit cable bridges between the upper and lower gold-plated screw terminals.

#### Design and material quality

With a height of 1.25 m and a depth of about 40 cm, the Magnat box is not just a visual heavyweight. A 1009 S weighs an impressive 51.4 kg. This speaks to the demanding requirements of Magnat on the value of a speaker.

The thick wooden walls, the acoustically effective lamination of the side walls and reinforcing elements inside the housing are responsible for the high mass. A special feature is the resonance-absorbing support behind the midrange speaker that should capture the structural vibrations between the chassis and housing. To ensure the best possible bass response without distracting ventilation noises, Magnat uses two large bass reflex tubes with flow-optimized openings in the rear panel. The body itself is covered with a high-gloss lacquer that accurately wraps around the sharp corners. The speakers, bass reflex tubes and terminal area are embedded flush in the baffle or rear panel. Not only does this look stylish, but also offers acoustic advantages.

#### Technical configuration

At the heart of the Magnat 1009 S is a crossover filter tuned according to the Linkwitz-Riley calculation method. In contrast to Butterworth filters of the first or second order that are often used, the slope of the 1009 S is 24 decibels per octave. Moreover, the plus three-decibel increase in amplitude typical for Butterworth filters at the transition frequency between two crossover network branches does not apply. High-quality cooper coils and plastic capacitors made of polypropylene ensure optimum signal processing. The components for the midrange and bass are distributed on two separate circuit boards to achieve optimal signal separation. The internal wiring consists of high-quality cables from Oehlbach. A 30 mm dome tweeter with a wide edge mount is used in the treble range. Together with the generous magnet ventilation and the low natural resonance, the lightweight polymer membrane promises low-distortion reproduction even at high volume. A solid aluminum front panel with computer-calculated sound guidance ensures optimum sound propagation and in the crossover to the midrange in particular. The cut-off frequency for this is around 3,100 hertz. Such ranges are transmitted over a 17 cm midrange with a cone membrane of ceramic and aluminum. Two 20 cm woofers work up to a pitch of 470 hertz. An aerodynamically-designed aluminum die-cast basket and a distortion-optimized magnet system with stray field optimization minimize air turbulence and compression effects.

A Kapton voice coil mount reduces eddy current loss in both woofers. Finally, efficient drive ventilation is used to ensure sufficient cooling of the voice coil cooper wiring at high loads. The result of all these measures is an imposing peak load of ... wait for it ... 620 watts.

#### Sound quality

To evaluate the sound, we first put the album *Hobo* by Sara K. in the CD player. The Magnat 1009 S speakers immediately impress with first-class vocal reproduction characterized by perfect tonality. Thanks to the high resolution sound of the mid/treble range, the performance by the American singer is outstanding with many facets and wonderful brilliance. The tweeter enriches the sound with delicate fine detail that best accentuates the guitar sounds. The midrange features an authentic virtual stage, realistically depicting the recording studio before us. To evaluate the low-frequency qualities, we now insert a well-mastered sampler in the CD player. But again, the tall floorstanding speaker stands up for itself. Thanks to the appropriately sized cone surface of two 20 cm woofers, the well-rounded bass of the Magnat 1009 S is very contoured and extremely dynamic. The Rhineland speaker always maintains control of the acoustic experience. Thanks to the powerful drives and meticulous reflex coordination, both woofers enrich the sound with a clean, defined bass response that is impressive at all volumes with impressive pressure levels and a playful temperament.

#### Clear text

With the new Quantum 1009 S, Magnat shows how accurate and detailed a tall floorstanding speaker can sound. It invites all listeners to experience completely new musical horizons. Thanks to the generous technical configuration and resulting sound quality, it guarantees impressive and sustained listening experiences.