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# Magnat

## Quantum 753

Compact and complete - the Quantum 753 is a pure joy thanks to its excellent acoustics and elegant workmanship



## Introduction

The Quantum 750 series recently introduced by Magnat also includes the Quantum 753 two-way shelf speaker. The cost of this attractive speaker varies between €349 and €399 depending on the colour selected. The 2-way sound transducer exhibits a power rating of 120 watts (RMS). Short-term continuous power output is 180 watts, while efficiency is specified as 91 dB (2.81 V @ 1 m). Thanks to its frequency range, which covers a spectrum from 30 Hz to 50 kHz, the Quantum 753 is also able to handle high-resolution audio files. The setup includes a 170 mm woofer/midrange driver and a 25 mm tweeter. Measuring just 190 mm (width) x 362 mm (height) x 335 mm (depth) the Quantum 753 can definitely be described as compact and is designed for an impedance range of 4 to 8 ohms.

## Workmanship and technology

Like the previously tested Quantum 755, the Quantum 753 also delighted us with numerous visual and technical stimuli. The woofer/midrange setup reveals a structural finesse thanks to its flow-optimised, non-magnetic die-cast aluminium baskets: Air turbulence and resonance which can interfere with the purity of the sound are effectively reduced. The cones consist of a ceramic/aluminium composite, while the so-called "fmax" tweeter ensures a high degree of brilliance at the upper end of the frequency spectrum. The chassis, which are incorporated wonderfully in the baffle, are equipped with a stylish surrounding metal ring.

The crossover consists of high quality components which are superior to those that are usually found in this price range. The quality of the internal wiring is not always a figurehead, even for relatively expensive speakers, however, this is impressive in the Quantum 753, as a reasonable cable cross-section has been used instead of simply enhanced "telephone wire".

At the rear is a cleanly processed bass reflex port, which alludes to the fact that the speakers shouldn't be set up directly next to the wall. In fact this clearance should be around 30 cm. A connection panel with high quality bi-amping screw terminals can also be found at the rear. This panel, however, has not been manufactured from aluminium but plastic - a tribute to the price range and not really worthy of criticism.

The housing consists of MDF panels, while special struts have been provided for high rigidity. The baffle has been constructed in two layers and measures 45 mm thick. The baffle is provided with a high gloss finish, as is the base. The side panels are matt white and the quality of the material is also impeccable here. The baffle stands out somewhat as there is a wider, uniform gap between the baffle and body, which makes for a distinctive visual appearance. We find the angular construction in a simple Bauhaus style very appealing. This design is not only reserved for Magnat's 2.5-way Quantum 755 floorstanding speaker, as it is also used for the smaller shelf speaker, which looks pleasing, elegant and timeless.

Overall, the quality of workmanship for this price range creates a very elegant impression. You would be forgiven for initially thinking that the 753 is significantly more expensive than it really is. Generally speaking, all gaps are very small and the speaker grilles themselves are covered seamlessly with fabric. The aluminium bezels around the chassis create an elegant affect.

## Sound

The Quantum delivers a pleasing performance with "You Only Live Twice", the theme song to the 007 film of the same name. The Quantum 753 generates this purely instrumental recording (James Bond Themes - The Royal Philharmonic Orchestra) with a detailed, spatially sensitive, exquisitely balanced reproduction and a plastic, multi-faceted separation of the various acoustic levels. The shelf speaker delivers a cultured and mature performance here in a tonally fresh and neutral manner.

"L'Attesa" by Andrea Bocelli also ensures genuine listening pleasure. Andrea's voice is expressed with charisma and the instruments accompanying him are skillfully reproduced by Magnat's speaker. While the vocals still remain the focus here, the instruments are not lost in the background. They appear surprisingly detailed while you are left listening to the fascinating voice. You can crank up the volume when listening, but be careful when doing this, as the amplifier used must be capable of producing a sufficient level of power in order to prevent clipping. The threshold of the Quantum unit is rather low - the treble range suddenly becomes slightly distorted and no longer appears as clear and precise as before. However, not many users will experience this range - there are no unpleasant side effects to worry about even at levels well above the much-quoted tolerable volume.

The Quantum sounds lively and fresh with ATB's "Talismanic". The bass range is clear and never too forceful, yet it always remains perceptible. The structure of the track is reproduced perfectly in terms of fine dynamics. The spatial effect is excellent and we were surprised at how well the sound emanates from the speaker. Magnat's unit needs to be angled slightly towards the listening area - but not too markedly. The sound disperses evenly throughout the listening room with a good level of atmospheric density. Given the fact that this is a relatively compact shelf speaker, its degree of efficiency can be described as excellent. As Magnat's Quantum 753 speaker is capable of delivering tremendous acoustic quality, we recommend you do not use a cheap entry-level stereo amplifier. What would be extremely suitable, for example, is the Pioneer A-30K (costing 299 €) or even Magnat's own complete package, namely the Magnat Music System 400 (consisting of amp MA 400, CDP MCD 450 and tuner MT 420). The cost of the CD player, tuner and amplifier in this set is approx. 1000 €.

Tiësto's remix of the Goldfrapp hit "Rocket" is reproduced dynamically from the very outset. The bass line, which kicks in after a while, exhibits a level of power that is excellent for such small speakers. Although the bass range has a lot of space in which to develop, the vocal presence does not suffer at all - an excellent mix. Its authentic, fresh overall characteristics make the Quantum 753 a powerful, rousing speaker which also generates a huge performance in a small space.

In "Full Focus" by Dutch DJ Armin van Buuren the Quantum 753 sets about its task without beating around the bush and is compelling with a high degree of spontaneity. The bass range has an amazing foundation, acoustic effects are constructed rapidly with high pulse fidelity and level stability is enormous. The rhythm of the track is reproduced extremely well and the compact speaker is able to create a real "club atmosphere". In a 20 square metre listening room the Quantum 753 sounds surprisingly powerful and, if used predominantly for playing music, it does not necessarily need to be accompanied by an active subwoofer.