

■ | QUANTUM 1000



revolution technologies

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QUANTUM 1000 |

- 1 | **The large, screw-fastened AIRFLEX bass reflex tube ensures the smooth circulation of air.**
- 2 | **Very visible – the advanced dynamics driver with ceramic / aluminium dome in the new controlled flexing cone.**
- 3 | **The high-gloss varnished side reinforcements don't only look good. They stiffen the case and thus minimize unwanted cabinet resonance.**

The Quantum label is only awarded to such loudspeakers that absolutely satisfy the highest demands of the engineers at Magnat. The legendary Quantum 900 series and its radical drive unit developments has already set new performance standards.

Now, the Quantum 1000 series is preparing to push those reference points even higher. Almost all of the component parts have been completely re-designed using methods based on the latest technological developments. For instance, absolutely state-of-the-art diaphragms have been developed for the mid-range and woofer speaker units. Primarily "controlled flexing cones", formed from aluminium, have been used in the mid-range speakers. This radical new cone geometry permits the controlled projection of wave fronts in the frequency band relevant to mid-range speakers and with it comes the ability to handle a greater bandwidth.

However, for the woofers, the engineers came up with a flatter cone profile that improves the all round dispersion allowing a better, more seamless marriage to the mid drivers. The modified dust cap also confers additional stability. The magnetic circuits on both drivers have been further optimised with regard to the stray fields generated. Twin induction rings also allow the voice coil to move more symmetrically. This gives a clearer sound and reduces distortion to levels that are almost immeasurable. A more effective increased force has also been achieved thus enhancing efficiency.

CVS*

BI-WIRING
BI-AMPLING

ADVANCED
Dynamics
Driver

CFC

fmax
SPEAKERS

APOC

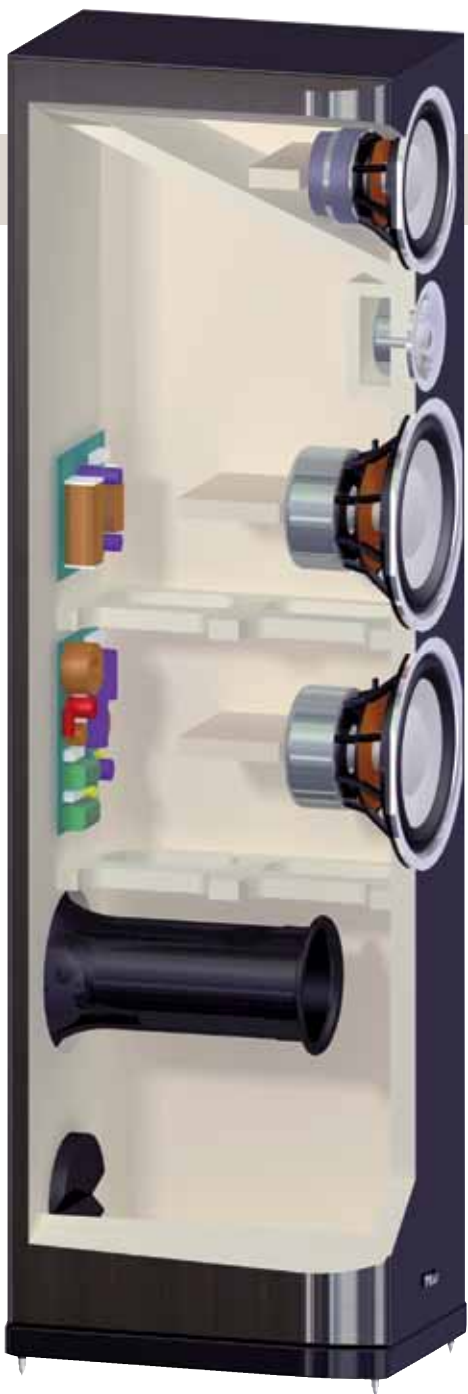
ferrofluid
COOLED

airflexport

CERAMIC ALU
CONE

{ Superaudio-Hochtöner }
{ super audio tweeter }

{ Echtholzfunier }
{ real-wood veneer }



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The die-cast aluminium chassis is anti-magnetic and features extensive ventilation openings to minimise turbulence and compression effects around the moving diaphragm.

Solid metal rings hold the loudspeaker chassis in position. Up to eight screws have been used to secure these drive units rigidly to the baffle.

Magnat's engineers chose a 25 millimetre "F-Max Signature" dome for the high frequency range and elected to coat the fine fabric with ceramic particles. The tweeter possesses a particularly wide surround that ensures improved dispersion well beyond 20KHz. A copper cap in the magnet system reduces distortion while extensive ventilation allows the necessary cooling. The dome is also double ventilated at the front to prevent voice-coil symmetry from being negatively impacted when playing at high levels. The dome itself is secured by a solid aluminium front panel guaranteeing optimum coupling to the front baffle and minimising the potential for unwanted resonance.

Crossover filters constitute the heart of loudspeakers and have a profound effect on their sound. For this reason only the very finest components have been employed to produce the Quantum 1000 series. The crossover filters with their transformer core coils and audiophile polypropylene capacitors built to 24dB LKR topology standards are assembled on two separate circuit boards with the aim of allowing optimum performance of the drivers when they are used in bi-wired applications. Both circuit boards are also mechanically insulated from the cabinet structure and fitted in separate chambers in the loudspeaker bases. From there the signal is distributed to the respective drivers via sophisticated Oehlbach interior cabling.



- 1 | The twice ventilated Fmax Signature tweeter with its ceramic coated, precision-fabric dome is a technical and visual masterpiece.
- 2 | The bi-wiring/bi-amping connector terminal with gold-plated connectors encapsulated in acrylic and Oehlbach cable.
- 3 | The beautifully built cabinets may be separated from the floor by height-adjustable full-metal spikes.

The speakers' connection terminals also reflect this attention to detail, being gold plated to ensure a good quality connection over time and encapsulated in acrylic insulation. They allow very secure connections to be made even when attaching very heavy gauge loudspeaker cable.

Every aspect of the Quantum 1000 series has been considered. The double-sectioned side reinforcements with varying material thickness have been designed to reduce vibrations in the cabinet. Additional bracing supports the chassis units and minimizes reflections. Even the tweeter has been housed in its own separate enclosure.

Even the world's best sound needs to be usefully and attractively packaged. As such, the Quantum 1005 and 1009 loudspeakers in their high-gloss varnish black or white finishes with real wood side panels constitute a design highlight in their own right!

- 1 | **The fmax Signature tweeter is held in place by a solid aluminium front panel, which ensures optimum coupling to the cabinet.**
- 2 | **The chassis units' solid design is apparent when they're dismantled. The aluminium die-cast baskets for the woofer and mid-range speakers are anti-magnetic and possess large ventilation openings to minimise compression effects.**



Quantum 1009

Principle 3-way bass reflex,
double bass

Power handling RMS/max. 320/600 watts

W x H x D 1250 x 275 x 390 mm

Cabinet surface High glossy black/side
reinforcement black-stained
walnut with high gloss finish,
high glossy white/side
reinforcement natural walnut
with high glossy finish

Quantum 1005

2-way bass reflex,
double bass

200/350 watts

1100 x 240 x 330 mm

High glossy black/side
reinforcement black-stained
walnut with high gloss finish,
high glossy white/side
reinforcement natural walnut
with high glossy finish

high glossy black/side
reinforcement black-
stained walnut with
high glossy finish



high glossy white/side
reinforcement natural
walnut with high glossy
finish



QUANTUM 1009



QUANTUM 1005

