



autohifi Issue:
April/May 2007

MB QUART
German Engineering

MB QUART PVF 216 under test

With a new inverted dome MB QUART opens the way to new acoustic dimensions –and this at an incredible price-point.

Already on Santa Claus' day 2006 the Autohifi editorial staff had had the opportunity to listen to a prototype of the new MB QUART Premium system. Especially the sound of the tweeter elated such lasting enthusiasm among us that we chose this system for the car (Polo by Volkswagen) we used for the magazine installation course (you can see the car at the Sinsheim Show on the "Autohifi " booth).

The serial version is now available under the name PVF 216 (450 Euro). Already the 1 inch tweeter PTF 40 on its own let you prick up your ears: The dome of this new development is assembled inverted, a flat ring made of micro-foam is used as surround. But with regard to the cone, the MB QUART's engineers have kept their tradition and continued with using titanium.

Thanks to the aluminium formers and the copper-plated aluminium wire for the voice coil, the moving mass is limited (to a very low weight). The aluminium housing supports also the voice coils cooling down. The result of these efforts provides a high performance in electrical power handling.

But the major purpose of this development was to achieve very wide radiation characteristics. So, the frequency response had to loose as less SPL as possible, in order to secure that the system also sounds good, if it is installed in unfavourable positions. MB QUART calls this "Widesphere™ Technology". In our test lab the tweeter proved, that this target really was met (see chart at the bottom of this page).

Furthermore the tweeter provides already a foretaste of the new Q-System which is developed on a similarly base, as the Premium Line but using a nano-ceramic coating.

The woofer of the PVF 216 is not quite so spectacular, but offers a reasonable technical basis. The basket is made of carbon-fibre-reinforced plastic composite and the cone of polypropylene. The metal cover on the ferrite magnet provides additional down-cooling support; the holes behind the spider provide an additional ventilation support for the 25 mm coil.. The double terminals with gold-plated flat screws and pins are Quart classics.

The universal crossover mounting system is using insertable clips at various positions, the so-called FlexMount system, has been launched for the first time 2006 with the Reference Series and has proved itself. The crossover is bi-wiring and bi-amping enabled and it is equipped with high-quality components. The level of the tweeter can be selected by means of a three-level rotary switch.

Then the frequency response ran almost linear, with a powerful bass and a slight rise in the very high frequencies. The waterfall diagram, you can see on our homepage www.autohifi-magazin.de, was nearly completely free of resonances.

Also the SPL measurements were graduated with bravura by the PVF and it "shot out" fat 107 dB with 90 Hz. to the test-microphone. At the end of the day 16 points were scored on the SPL counter.

The great "sound-listening-impression" of the prototype is now confirmed by the serial product: In the tonality very well-balanced any music style is authentically, interpreted.

The "coronation" (of the listener session) was definitely the tweeter which was absolutely brilliant with its phenomenal "space illumination" as well as great dynamic behaviour. Despite of lots of clear cut details it never sounded harsh and stayed also perfectly with high sound pressure levels.



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In a real rush the PVF speaker left the (the "autohifi") reference systems behind and was only confronted with a coequal rival by the Audio System HX 165 SQ (600 Euro). The HX 165 SQ sounded a little more plucky and somewhat more firmly, but the MB QUART system counterattacked with an even more consistent overall impression and more spatial depth. Stalemate!

Conclusion: The MB QUART PVF is acoustically the absolute high-achiever. Reference Class for 500,- Euro – that was never achieved before! Old Swedish* (* Old Swedish... = German saying for something like: incredibly amazing) ...!

Distribution:

Maxxsonics Europe GmbH,
 Neckarstrasse 20, D-74847 Obrigheim,
 www.mbquart.de

Top and Flop:

- + first-class sound performance
- + very solid tweeter
- + high maximum sound pressure levels
- + usable also as a coaxial speaker system

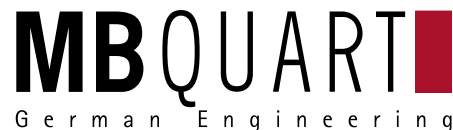
Autohifi evaluation (max. 100 points)

Sound performance (from 50) -----	achieved 40
Max. acoustic pressure (from 20) -----	achieved 16
Equipment (from 20) -----	achieved 16
Workmanship (from 10) -----	achieved 9

Autohifi test result

Reference class	81 points
Price-performance ratio (from 6 stars max)	*****

Additional remarks from Maxxsonics Europe for better explanation purposes



MB QUART

PVF 216 **450 Euro**

Vertrieb: Maxxsonics Europe www.mbquart.de
 Neckarstraße 20, 74847 Obrigheim

Top & Flop

- + **erstklassiger Klang**
- + **massiver Hochtöner**
- + **hoher Maximalpegel**
- + **auch als Koax verwendbar**

Ausstattung

Tieftöner: Kunststoffkorb, Ferrit-Antrieb, Polypropylen-Membran, Gummisicke, 25-mm-Spule, hinterlüftete Spule, abnehmbarer Phase-Plug, Abdeckgitter, doppelte Schraubterminals
Hochtöner: 25-mm-Invers-Titankalotte, Softschaumring, Streben, Gitter, koaxial montierbar
Frequenzweiche: Flexible Montage, Metalldeckel, Bi-Wiring, Pegel-Drehschalter

autohifi-Messergebnisse

Nennimpedanz	4 Ohm
Resonanzfrequenz	50 Hz
Minimale Impedanz	3,2 Ω bei 182 Hz
Wirkungsgrad gesamt (2 V, 1 m)	86,0 dB
Schalldruckpegel 90/50 Hz (2 V, 1 m)	90/85 dB
Max. Schalldruck 90/50 Hz (2 V, 1 m)	107/94 dB
Empf. Verstärkerleistung	80-160 Watt

Frequenzgang autohifi-Testlabor

Sehr ausgewogener Verlauf mit minimalen Welligkeiten, kräftiger Bass, Peak im Superhochton.

autohifi-Bewertung (max. 100 Punkte)

Klang (50)	Punkte 40
Maximaler Schalldruck (20)	16
Ausstattung (20)	16
Verarbeitung (10)	9

autohifi TESTURTEIL

Refrenzklasse **81** Punkte

Preis/Leistung ★★★★★