

MB 115/B

Art. No. 5932

Characteristics and sound properties

The [MB 115/B](#) building suggestion is a bass speaker for professional musicians. If fullrange musicians' speakers need boosting the bass department, you need bass speakers with a comparatively high level of efficiency. Bass reflex speakers have the advantage of a low limiting frequency, but this also means they need a large cone area with the large cabinet that this entails, in order to produce sufficient sound pressure. A completely uncompromising bass speaker should really be enormous. However, the [MB 115/B](#) makes use of a cleverly designed flare geometry, perfectly matched to the [BGS 40 8 Ohm](#) driver, to produce a relatively compact horn. A limiting frequency of 50 Hz is a perfectly respectable level for a musician coupled with an output level of 96 dB above 60 Hz under open-field conditions (no walls, no floor) at just 1 watt is an excellent starting point for extreme bass pressure. It must be taken into account that, positioned on the floor away from walls, this figure increases by 3 dB and near a corner by as much as 9 dB. We measured peak output levels of as much as 125 dB (above 60 Hz) under favourable conditions. And all that with the typical horn-like, bone-dry sound characteristics an experience for aficionados of solid-level, dynamic sound!

The horn sound develops in a vortex beginning in front of the diaphragm and moving outwards towards the opening. At the rear, the woofer acts on a small, enclosed compartment. This prevents the stroke in the low bass and subsonic ranges from becoming too extreme which prevents mechanical damage to the driver. The impedance curve retains a pleasingly high level throughout. This means that the booster is not overloaded and the voice coil does not overheat. Crucial points in the tough daily life of professional musicians.

Active separation is recommended. This allows the optimal position between separating frequency and slope rate to be found. As a cost-saving alternative, we have also developed a passive crossover. This system separates at 150 Hz and goes well with the top-of-the-range [MB 208/H](#), if the recommended high-pass section is used (refer to [MB 208/H](#)).

Accessories



Extract from HobbyHiFi

"Verdict: This combination of 208/H and 115/B provides excellent sound properties at hi-fi level, and with masses of dynamic power in reserve. Thanks to the high efficiency level, even a 100-watt amplifier will provide the enough power - calculations show that this would produce a maximum output of 113 db, even if a more powerful booster will make even more sense of both the satellites and the bass."

Technical Data:

Rated power	500 W (passiv/ passive) 200 W (aktiv/ active)
Nominal impedance Z	8 Ohm
Frequency response	50–400 Hz
Mean sound pressure level	96 dB (1 W/1 m)
Principle of Housing	Horn
Outer dimension height	800 mm
Outer dimension width	480 mm
Outer dimension depth	720 mm

[Crossover](#) for passive mode:

Universal circuit board UP 35/3 1 piece

Coil LR 6,8 mH 2 pieces

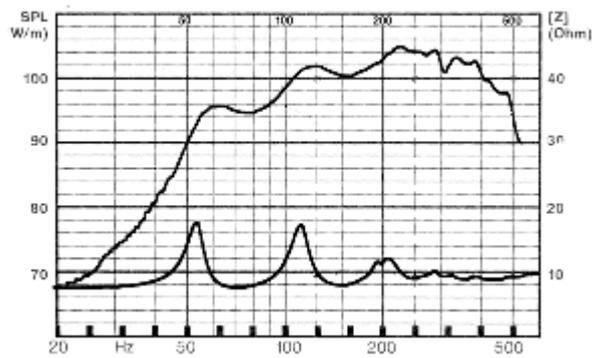
[Capacitor](#)\Electrolytic [capacitor](#) 82 μ F 4 pieces

Similar Products

[MB 115/H](#)

[MB 156/3](#)

[MB 208/H](#)



[Frequency response](#)

Construction