

General



The goal in developing WEBERN was to combine the technical benefits, functionality, and beauty of BERG with the maximum output capabilities possible at WEBERN's larger, yet compact, size. The prescribed transmission function was specially designed to support the task with its "outside the driver parts" in the form of crossover filter components, and the use of dual fully shielded midrange drivers operating in parallel to provide for a breathtaking dynamic performance to delight every listener. They are accompanied by the handcoated silk dome tweeter, found throughout the line, of a totally new three-neodymium magnet construction, center drilled and chambered, utilizing a unique one-point decoupled mounting system. The combination of all these essential elements leads to maximum output with natural ease and clarity.

WEBERN's cabinet also combines the finest in technique with the best in function. In addition to the synergy of the aluminum panels and damping materials to control exterior resonance, the benefit of the speaker's shape is the lack of parallel walls, which avoids internal standing waves. The surface of WEBERN is treated in the highest grade of aluminium processing: after precisely machined and CNC milled, all aluminum parts are bead blasted and transparently anodized.

To offer you the choice how to integrate WEBERN in your home, two possibilities were developed. Either use the heavy aluminium stand for shelf placement, or choose the wall-mounting device, which allows for three angled vertical positions, as well as horizontal orientation for use of WEBERN as a center speaker, particularly attractive with the latest plasma video monitors.

With our Aluminum flatspeakers, we created a new development process to realize a sonically and functionally elegant solution to integrating great sound into the home. With their breathtaking realism and lovely musicality they will amaze, no matter if chosen for a theater or stereo system.

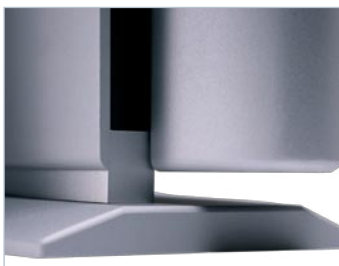
Features



During the development of the cabinet for WEBERN, extensive research into ideal conditions for near-wall speaker application led to a thorough solution that results in a number of positioning options.

One option is an ingenious aluminum wall-mounting device, unrivalled in its ability to provide the best environment for superior sound quality. Three positions are afforded by this device, enabling it to be angled toward the listening positioning for best performance. The spike which fixes the angled position presses the cabinet against a rubber decoupling device, therefore damping and silencing the interface point between wall and speaker, preventing detrimental resonance from being transferred between wall and speaker. Additionally, this wall-mounting device allows not only for vertical but for horizontal positioning as well, allowing WEBERN to be used as a center speaker with a plasma-television or projector.

No matter which positioning option is chosen, the beautifully curved cabinet will always be in smooth harmony with any wall and listening room.



Alternatively, for those who do not wish to mount the speaker to the wall, an ultra-rigid aluminium stand is offered, which was developed for optimum sound when placed on a surface such as a bookshelf or desktop. The stand serves both tweeter left and tweeter right positions.



To ensure the best possible appearance, the surface of WEBERN is treated with the highest grade of aluminium processing. After being precisely machined and CNC milled, all aluminum parts are bead blasted and transparently anodized. To maximize internal volume, we profited from the stiffness of aluminum to realize a slim walled cabinet. Furthermore, the aluminum panels are curved to optimize both stiffness and freedom from resonance, which is so crucial for natural sound. This curve means that while the average depth of the speaker is 50 mm (2 inches), it reaches a maximum point of 84 mm (3.3 inches) in the center of the arch. The extra available space in the middle of the cabinet allows for the use of physically deeper pure high-end mid-bass drivers. An additional benefit of WEBERN's shape is the lack of parallel walls, which avoids internal standing waves from adversely affecting performance. In extensive research we found out that it is vital not to use a single enclosed form in creating the box, but to break the cabinet into two separate elements connected by MDF, with additional damping strips between the MDF and the aluminum, in order to completely eliminate deleterious cabinet resonance.

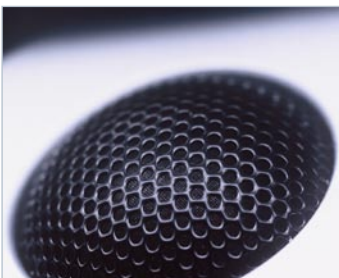
Features



With our flatspeakers, mid-bass drivers and crossover are created as one unit. By using this "outside the driver" concept in creating the mid-bass transducers, the crossover follows a prescribed transmission function as it relates to the design features of the woofer, which in turn was designed with the characteristics of the crossover in place. By designing both crossover and driver in tandem, an unbelievably rich foundation of bass regardless of the size of the cabinet is most efficiently and effectively achieved. The results are astonishing, with bass performance of the same quality as speakers having three times the inner volume. At the same time the maximum acoustic output could be increased by fully 50%. Apart from this special filter configuration, the crossovers feature the same outstanding development and quality components which characterize all Vienna Acoustics speakers. The result for the listener is the pure pleasure of full frequency response that possesses a complete sense of ease and effortless at any volume level.

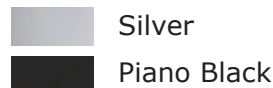


The tweeter is of a completely new design. Three neodymium magnets are center drilled, guiding the internal sound waves into a damping chamber, which itself is vented again to the outside world for complete control of internal pressure. Compression effects are thereby totally avoided, and the resonance frequency is lowered as a result, with benefits for optimizing the tweeter's midrange contribution. The second of the three neodymium magnets is a "countermagnet" for complete magnetic shielding, caused by its reversed magnetic stray-field. This enables the speaker to be placed next to any television monitor. The handcoated silk dome ensures perfect resolution of highest frequencies, and is protected by a non-detachable hexagon metal grille. The voicing of the speaker system as whole was accomplished with this grille in place so as to allow for the highest resolution with complete protection. A one-point-decoupling and mechanical isolation mounting system for the silicone damped tweeter cabinet ensures the performance benefits of these features, allowing high frequency reproduction of astonishing clarity and precision.



The silver plated binding posts are placed in the 16 mm (6 inch) wide border between the two aluminum walls, allowing it to be isolated from the cabinet and invisible to the eye.

Specs



Specifications **System Type**

Bass System **Frequency Response** **Mid-Woofer**

Tweeter

Shielding **Sensitivity** **Impedance** **Recommended Power** **Weight per Speaker** **Dimensions (WxHxD)**

WEBERN
2 way system
6/12 dB Bessel
Bass reflex
60 - 25.000 Hz
2 x 6" VA
Transparent XPP Cone
3-Magnet Neodym VA
Ventilated Chamber
Handcoated 1" Silk Dome
100%
91 dB
4 Ohms
30 - 200 Watts
7.5 kg / 16.5 Ibs
10.5x19.7x3.5"
268x500x90mm

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