

General



The stunning authority of SUBSON increases every musical experience by providing extreme low bass, which in turn increases the dimensional scale of the soundstage, adding a greater sense of the recording venue, and natural body to every instrumental voice. SUBSON's musical qualities are of first priority, and a subwoofer's ability to respond instantaneously and deftly to the smallest dynamic and pitch changes are vital to exploiting what true low bass extension can provide to enhance the total experience of reproduced music.

In order to achieve this level of musicality, it is imperative that the finest components be designed for use in SUBSON. The massive 12-inch Ultra Low Frequency (ULF) driver features an air-dried paper cone reinforced by carbon-fibres for ultimate rigidity. Together with the long-throw voice coil construction and zero-loss suspension it is able to handle with ease the lowest of frequencies at maximum output.

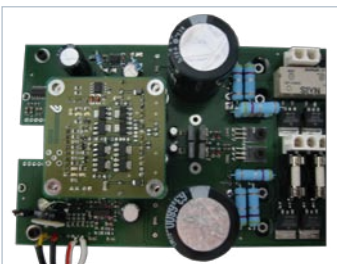
An amplifier of sufficient power and control is needed to take advantage of the unique features of this driver. SUBSON's amplifier is 100% Viennese: developed, designed and manufactured in the new Vienna Acoustics amplifier department. Harmonic allocation of distortion, current source feedback for impulse speed, mechanically decoupled input stage, 220 watts, steep low-pass filter roll-off of 24 dB per octave, SMD technology, and μ -controller are only a few of the technical features that inform the design.

To maximise the inner volume of SUBSON, we profited from the stiffness of aluminum to realize a slim walled cabinet lacking in parallel walls, thereby avoiding deleterious internal standing waves. With a depth of only eight inches it is easy to understand why SUBSON is called the first „Flatwoofer,“ optimized for near-wall application. No matter if SUBSON is used in a stereo or home theater system, the new musical dimensions derived from the sonic abilities and sheer power of SUBSON will amaze you.

Features



The development of SUBSON's massive driver followed an unconventional path. We were able to proceed this way because of the simultaneous development of subwoofer's amplifier, which allowed for achieving perfect interaction between these two primary components. We integrated several active stages in the amplifier, enabling tuning of all important drivers parameters. So the driver's final construction is not comprised in any aspect. As the first step, each part of this new driver was chosen to maximise the performance parameters of dynamics, control and musical fidelity. The massive 12-inch Ultra Low Frequency (ULF) driver features an air-dried paper cone reinforced by carbon-fibres for ultimate rigidity. Together with the long-throw voice coil construction and zero-loss suspension it is able to handle with ease the lowest of frequencies at maximum output. However, SUBSON's musical qualities are of first priority, and a subwoofer's ability to respond instantaneously and deftly to the smallest dynamic and pitch changes are vital to exploiting what true low bass extension can provide to enhance the total experience of reproduced music.



An amplifier of sufficient power and control is needed to take advantage of the unique features of this driver. SUBSON's amplifier is 100% Viennese: developed, designed and manufactured in the new Vienna Acoustics amplifier department. There are plenty of suppliers for subwoofer amplifiers, but in our pre-testings none could satisfy us, simply because we demand of a subwoofer the same as of any speaker: to sound musical. Harmonic allocation of distortion, current source feedback for impulse speed, mechanically decoupled input stage, 220 watts, SMD technology, μ -controller are only a few of the technical features that inform the design.

Take for example the importance of harmonic allocation of distortion: You would not believe its sound impact - even less as it's for a sub - how much the sound stage opens, how effortless midrange and treble float. We realised 0,001 % for 2nd and 3rd harmonic, and about 0,0001% for the others, although very low overall feedback is used. Current source feedback provides for impulse speed. As for the speakers, decoupling is vital: Especially the input stage of an amp is sensitive, so we put it on an extra pc-board and mounted it pick-a-back, just like the separation of stereo equipment into pre-amp and power-amp. The perfect dynamics of the amp's speed is supported by 220 watts, receiving their current from expensive Hitachi Mosfets and a torodial transformer. A μ -controller cares for controlling, music detection, safety protection and soft-start. As mentioned above, several active stages care for perfect driver interaction and control by comparing the input signal with the cone's response. An extra transformer is used to ensure a minimum of power consumption of less than 1 watt in Stand-by mode when no music signal is detected. As in our crossovers, the whole amp only uses components of highest grade, like resistors with less than 1% tolerance, and it is realized in SMD technology. With adjustable crossover-frequency, 0 / 180 degrees phase switch, volume control and double highlevel as well as double Cinch input, SUBSON offers all tuning tools for you.

Subson

Features

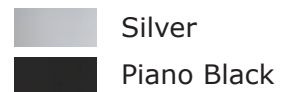


To ensure perfect appearance, the surface of SUBSON is treated with the highest grade of aluminium processing: after precisely machined and CNC milled, all aluminum parts are bead blasted and transparently anodized.



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Specs



Bass System
Frequency Response
Woofers

Closed cabinet

20 – 100 Hz

1 x 12" VA

Air dried paper cone, carbon-filled

Amplifier

Power 220 Watts

SMD technology

Music detection

Stand-by < 1 Watt

0 / 180 degrees phase switch

Double highlevel input

Double Cinch input

Weight per Speaker

57.2 Ibs

26 kg

Dimensions (WxHxD)

25.1 x 15.7 x 8.5"

638 x 400 x 215 mm

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