

The Empress VII Data sheet

Peak Consult Perspective for The Empress VII

In the jungle of consumer and so-called High-End loudspeakers, there are some brands actually reaching for higher goals. Peak Consult is one of them, but how is that done?

Countless hours of measurement and critical listening by many audiophile ears have gone into making The Empress VII. An impedance curve and electrical phase character like an electrostatic speaker, the final blend of art and technology have made The Empress VII an uncompromising work of art. The Empress VII is a true State of Art Loudspeaker.

Enclosure

The multifaceted enclosure is handcrafted in our own facilities by Danish artisans in a 1.5"- 3.0" HDF specially glued sandwich material covered by 0,75" solid wood or acrylic. The side panels have been made out of "finger tapped" wood or pure acrylic. Each wood panel has been hand-chosen and assembled by Danish artisans.

The design optimises the off-axis response and avoids diffraction. In order to minimize acoustical waves, there are no parallel front, back, top or bottom panels. The slant of the front panel aligns the phase and timing between tweeter, midrange and woofer.

Transducers

The tweeter:

The tweeter is a 1" soft dome, Hexatech with a non-resonant aluminium chamber. It features a multiple camber with low compression and a machined aluminium faceplate. Peak Consult has altered the front plate in a very different way to have a perfect behaviour that makes it to the extreme. The tweeter performs effortlessly to sonic extremes and brings the "air" as no dome tweeter before. The most important things about the choice of this construction were the performances.

The midrange:

The 5" Audio Technology midrange are hand-built specifically for optimal behaviour in The Empress VII enclosure. The driver features a cone that has been uniquely shaped for this moving system and a vented magnet system that includes Symmetric Drive, optimising the linear directivity. It performs with matchless sound staging ability and an imaging tight and sharp as a Diamond. The Midrange will set new standards to midrange behaviours and will go beyond What ever has been done? Peak Consult choose to have a very linear and stable cone, to the more fancy cones that in Peak Consult ears are to be more unstable in time and more different in production. The very similar is more coherent instead of use of exotic cones. In the designs Peak Consult decided to do the most linear design that makes the speakers to perform effortless in years to come instead of an exotic appearance.

The bass:

The 9" Audio Technology woofer are hand-built and specifically designed for The Empress VII. Using very special technology in the moving systems makes it a very low-loss driver. The huge magnets and ventilation that includes Symmetric Drive system makes the driver reproduce very tight and extremely low frequencies - second to none. This driver will set new standards to bass reproduction.

Networks

High frequencies:

The Empress VII includes an acoustical fully compensated second order crossover in the tweeter/midrange section and it have been isolated from the moving system in it's own dual sealed department. The Empress VII only features the best of the best. Duelund Coherent audio foil capacitors, silver carbon resistors and oiled/waxed inductors by Duelund Coherent Audio.

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Low frequencies:

The low frequency includes very large foiled inductors from. The low frequencies have also been altered by our straight level impedance and phase control. All sealed in its own isolated compartment.

Components:

Every component has been chosen for its sonic and musical behaviour, with no consideration for cost. The crossover is crimped and hardwired with silver soldering. The crossover is sealed in it's own compartment to avoid microphony distortion and to shield it from electrical and magnetic radiation from rest of the system. Peak Consult uses only the best parts to do this High End loudspeaker. Imagine there is used more than 300 meters of components in a speaker and the end user had to decide for his only 2 x something. The speaker has a hart and for that only the finest is exerted.

Internal wire:

Peak Consult uses a special OEM silver wire from Duelund Coherent audio foil for the upper frequencies and a special Peak Consult manufactured high current cable for the bass.

Termination:

The true Bi-wire termination is done with The WBT platinum signature.

Recommended room size:

From: 18 square meters and up.

The name?

The Empress VII boasts an extremely linear frequency response, on-axis as well as of-axis. This makes it a very accurate loudspeaker in a "real World" environment. The name says it all; the speaker performs and looks like the most beautiful Empress. "Nothing given and nothing taken, just pure music" and still behaves like an Empress."

Design:	3-way Ported
Crossover Frequencies:	250 Hz / 2.550 Hz
Frequency Range:	27 – 30.000 Hz
Sensitivity:	89 dB @ 1W/1m.
Impedance:	5 ohm Linear down to 28 Hz
Dimension (H X W X D):	108 X 29,5 X 38 cm. – (42.5" X 11,5" X 15")
Weight:	68 kg. –(150 lb.)