



VSS4 - the successor to the popular VSS3

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RAL Colours

VSS4 are available in standard RAL colours black, white or silver.

For optional colours there will be an extra cost pending on the availability in the market of the desired colour.

For a complete listing look at the RAL colour [homepage](#)

Warranty

Every Forsman product comes with a 5 year warranty.

Upgraded older models also carries a 5 year warranty.

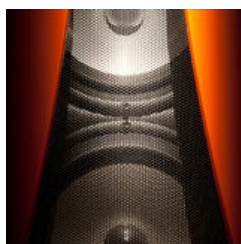
VSS4 Classic

VSS4 is an intoxicating sight for the eye and fits well into any home. It has been designed with classical lines and geometry and appears timeless and very exclusive.

Forsmans designer; Anne Cecilie Hoppstock has created a visual language which is perfectly suited and adapted to the Vertical Split Dipol technology.

In all its might and glory - it is available in any imaginable colour, inclusive the colour of your favourite car or listening chair.

The speakers are a modest 24cm in diameter and stand 115cm tall. Sure, they weigh 27,5Kg a piece, but stand on 5 feet with acoustic decoupling from the floor, in addition they are easy to move and reposition.



VSS4 Classic



VSS4 Classic

Turbulence And Edgeresonances

Just at the edge of the vertical split it is shaped with a sharp angle. Unlike a normal loudspeaker design where it is often a right angle, at best the edges have been rounded a bit. When the sound pushes through Forsmans Vertical Split, the sound pressure will

drag the air from the outside of the speaker. These two air streams meet in the sharp transition and melt together much like the air leaving the edge of an airplane wing. There will be no turbulence or noise and breathing sounds. The same happens when the

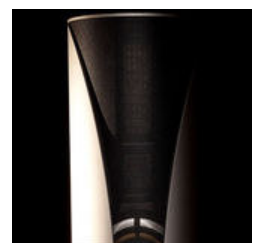
VSS Acoustical Baffel Equivalent

For a dipole to be able to play well it is necessary with a certain amount of length on the baffle, or the centreplate as it is also called. The ideal shape of a dipolar baffle is an ellipsis. By folding two ellipses into a cylinder a design which is first class is achieved and at the same time the ideal acoustics are more than handled.

Ideally a speaker should have the same acoustical extend as that of a microphone. This is not possible due to physics. Only few other than Forsman has worked on this. It is of enormous advantage to reduce the horizontal extent of elements. The stereo perspective gains more detail, the positioning and pin-point presicions are increased dramatically. This is the effect which makes it possible to point exactly to where the musicians stand in the room. At that moment the speakers "dissapear" in the soundscape and the music is simply present in the room. This is what is known as listening free of the box.

When measuring the distance from any point on a membrane around the speaker and onto the same point on the rear, we get the acoustical membrane length. On Forsmans speakers the acoustical horizontal length is less than 30 mm! This means all basic frequencies emanates from the same spot, and you believe you are at a concert.

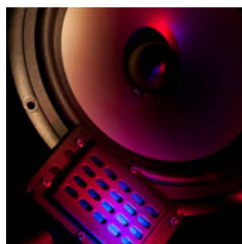
Technology explained



Dipol



diaphragm pulls back, the air is split at the sharp edge and divide without turbulence and noise.



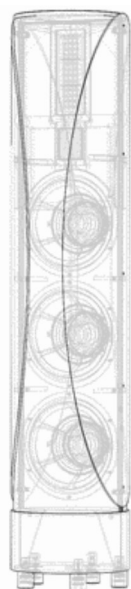
Treble & Bass

Basic Frequencies

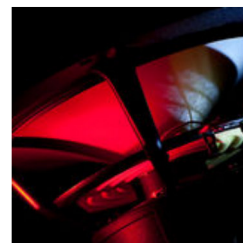
Forsmans Dipole Bassarray play all frequencies from 20 to 600Hz where the midrange element takes over. Nearly all instruments and voices have their base frequencies in this frequency range. Especially for female vocals where the base frequency is around 250 Hz and the first harmonic

overtone around 500 Hz. Male vocals have a base frequency of around 125 Hz so that both 1. and 2. overtone are reproduced by the bassarray. This results in an absolutely pure phase of base frequencies which are experienced as music with the right amount of colour, sound and emphasis. Furthermore the precision in the holographical image increases. It is very apparent from where the different instruments are playing in the room, not only horizontally but also in the depth of the soundscape as well.

Specifications



- Tweeter: Magnetostat
- Midrange: Magnetostat
- Bass: 3 x 8 tommer
- Crossoverfrequency: 480Hz/ 10kHz
- Frequencyresponce (-3dB): <27Hz - 27KHz
- Impedance: 4 ohm (minimum 2.6 ohm)
- Sensitivity(2,88 v/m): 88 dB
- IEC Power Handling: 115 db
- Size: 115cm høyde, 24cm diameter
- Weight: 27,5 kg each
- Colour: on request. extra pricing might apply.

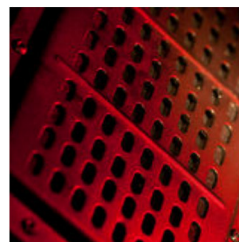


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Most parts in a Forsman VSS speaker are unique. Forsman goes down nontraditional paths and don't shy away from using unusual solutions. The dipolar principle is a wellknown sound principle. However, no standard programs or development tools exist for dipoles. Therefore significant competences and diligence are needed to develop our unique products. Dipoles create a soundscape which match the soundscape your ears are expecting. When you enter a church you will instantly detect the acoustics of the room and your head expects that music and speech are in tune with the long reverberation times. This is one of the areas of the psychoacoustics which are being researched intensively. As a HiFi producer we find it very relevant to engage and investigate how the brain perceives sounds and which factors play a role.

Tweeter and midrange

On Forsmans speakers the tweeter and midrange are dipole Magnetostat which are symmetrical forward and backward. The midrange is on top and the treble is at ear level when



Midtone-Magnetostat

seated. Both these elements have been given a double wave control (Waveguide) which constitutes a vertical horn both forward and backward.

This unique combination of dipole and horn technique allows for a smooth and homogeneous decay of all the tones in the musical overtones. The integrated Wave Guide provides a perfect phasepurity. It also provides an incredibly accurate and detailed perspective in a wide listening area.