

Review of Fischer & Fischer's SN 570 loudspeakers, by Michael Imhof, 09/2013 on :

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Fischer & Fischer SN-570



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Speaker Fischer & Fischer SN-570 (Review: Michael Imhof) Black, beautiful and noble as we had brought the end of August the newest speaker of Thomas Fischer in our business and set up was us, not least because of the summer weather, quite warm, The SN-570, the name of the beautiful Sauerländerin, weighs stately 129 kg, without packaging, of course. For the heavy weight of the housing material from Sauerland natural slate from the Thomas Fischer builds all his "speaker creations" provides. Natural slate has a high internal damping through its layered structure, very different as granite or marble and is a perfect base for speaker cabinet because nothing swings out of the chassis and the trapped air column at Slate. Quite as it wants the theory the ideal speaker. Finally, the optimized chassis it will make music and not the case. A speaker is just not a musical instrument, in which the housing is to make music, even if the resourceful manufacturers always claim. This misconception leads to speaker cabinets that are built like a tool body, which can show relatively useful results in individual cases yet.

but leads one bears in mind that a speaker like a violin, a piano, like a brass instrument and as a human voice should sound, then one wonders which housing material then theoretically the ideal situation would be if it is to say in the sound? For ages applies: The speaker housing is to swing as little as possible and that leads us back to the slate. Since swings and rings nothing, there's absolute silence announced. Handle it so far at Fischer & Fischer back to the classiest chassis from Dynaudio, Seas and Scan-Speak, this was not enough the developers fishermen and Mudra from this time. In order to even better speakers build, had next to an existing system, optimally matching New developed according to their ideas chassis ago. First choice was the Air Motion Transformer what little surprised. .so virtually every HiFi freak should at some point have heard of these transducers, or he would have missed something.

This originally developed in 1969 by Oskar Heil patented ribbon speakers have the main advantage of a ribbon, namely lowest mass, but without having to take their main drawback as too little accessible sound pressure into account. Classic ribbon constructions in unity with dynamic drivers suffer most under the ribbon over the other chassis with increasing volume, "stay back" and be silent in relation to the other chassis and thus the tonal unity is lost. The disadvantage of the "old" Heil Air Motion Transformers was the high necessary size. The reduction to today's extent in modern AMT structures was achieved through the use of new magnetic materials such as neodymium and films made for example Kapton. Modern Air- Motion Transformers are distinguished due to the very small moving mass through superior transient response and high efficiency at very high sound pressure possible, making them one of the transducers that come closest to the theoretical ideal. Thomas Fischer has let build a specially adapted for his needs at AMT Mundorf. So we have now two ideal parts, the housing and the "Custom Made" AMT tweeter. Right here I have to make a personal trip to my hi-fi story. For almost 40 years, I'm behind a speaker with Air Motion Transformer.

to listen for the goal a speaker with matching the AMT dynamic chassis, spent over the decades thousands of kilometers on the highway. I have installed traditional healing and modern AMT AMT open, installed in the housing, with all sorts of dynamic drivers of all possible high-end manufacturer, belongs ranging in pairing with current Thiel ceramic chassis and still was not really satisfied. The AMT was somehow faster and faster, too fast for the other drivers. Subjectively voted for me the timing in any concept. Never played all of a piece and so I never got in 40 years to a speaker with Air Motion Transformer although I was always "hot" on it. So far, as a few weeks ago, Thomas Fischer, standing with his new development, which he had announced me already last year on the mat. Quite thrilled I was already at the announcement of a speaker development with the AMT driver.

Thomas Fischer ran with it an open door with me. But there was also my skepticism from 40 years of experience. What I did not know was how consistent they would work towards at Fischer & Fischer on the solution of the problem. The problem with the present market drivers was also known to the developers of the new SN-570th It is the crux small speaker forging that they usually can not access in-house developments for cost reasons.

Thomas Fischer and his team are there been the only possible way. He has mobilized its reserves and has can be developed in a German chassis manufacturer just for the housing size, material slate and especially the Air Motion Transformer appropriate, ultrafast cone speaker. The way was paved to land a direct hit. We are dealing with the SN-570 with the now extremely rare species of purebred German product and to the intrinsic values as the best Mundorf capacitors and the best flat-wire provides the German market. Then there is the Sauerland natural slate, which has a higher density and attenuation than, say, the cheap material from China in some cheap replicas. Right here I have to - I can not help but be something going on. The damping and therefore the sound of a loudspeaker system depend as already discussed much on the used housing material. If as manufacturers, to please the customer, optionally offer slate, marble, granite, etc. without making the technology used, namely to develop switch, drivers, and vote again in each case on the changing housing material, this in my opinion from a technical standpoint seen incredible. Commercial likes "optical Bauchladen" supposed to be sent, technically this is at best second choice. But now back to the topic.



The aluminum front panel is also nice to see. Every low-mid chassis has its own extremely low-vibration cabinet. This is the duct with additional internal insulation material.

What has come in the SN-570 out? First, a relatively large and especially heavy speakers. The SN-570 provides yet it is not small really, with their perfect proportions and with that chassis perfectly enclosing stunningly beautiful from the full milled aluminum front panel. Even small details such as rhodium-plated bi-wire terminals and phase and impedance corrected filter was respected meticulously. The efficiency is very good 90dB / 1W / 1m. The frequency response is 28 Hz to 27 kHz to very broad. The equipment per speaker: 1 x Fischer & Fischer AMT; 2x 180mm cone speaker midrange D'Appolito arrangement and 2x220mm woofers left and right sides. The large membrane area is expressed in the maximum achievable sound pressure of 112 dB. As the speaker in everyday behavior? After the burn in period of 3 x 24 hours we have made to the first hearing. One of the world's best pre-amplifier combinations that Accuphase C-3800 precursor, and the Class A amplifier Accuphase A-65 and the corresponding Accuphase frontend should be taken up to the high standards by which the Fischer & Fischer SN-570 meet. Immediately noticed:

The SN-570 requires surprisingly little power. In upscale room volume 25 watts per channel ranged from ample even for large bass levels. In normal operation, "languished" the watt display usually at 4-8 watts.

That's amazing when you remember that five drivers are to drive each speaker. The efficiency definition is therefore no exaggeration and the impedance curve should be very good-natured. The Accuphase A-65 is perhaps the only power amplifiers of the connected load, that is, involving the speaker in the power measurement. A tester wrote: "at the A-65 can have equipment calibrated" which we see as well. By the good-natured behavior of SN-570 the way for the use of Class-A amplifiers and tube sets and small but fine sound amplifier is open and the joy to the heart and the wallet of every hi-fi fans. We have the SN-570 integrated amplifier on Aurum A3 in the price range 2000 - connected Euro. This amplifier also is easy to drive capable of such exceptional converter. Of course, meticulously acknowledged the SN-570, as might be expected, any improvement in the source and the connected electronics with improved sound quality. Would that otherwise would be something fishy. The SN-570 opens the stage very far in the width and depth. Every detail gets exactly assigned place. The stage is plastically tangible, the picture is spatially slightly higher than for small speakers, and is really a stage, which is probably in the nature of large speakers.

The AMT driver met all my high expectations and playing dynamically when the musical material it also requires brute force, but it is never hard. Good electronics and good systems are characterized by resolution down to the finest structures in the simultaneous absence of hardness. Just as this speaker goes to the ultra-high-end Accuphase frontend works. With silkiness and air between the notes, without any intrusiveness SN-570 plays all kinds of music. You have to bring a little while time to the lack of proper understanding of even the tiniest distortions. Inexperienced listeners often tend to feel fine distortion than an increase in sound and miss this THD if it is not available as usual. The SN-570 reveals itself to the experienced listener as a model of cleanliness and good nature and transparency without these Klirrranteile. This create only a handful of speakers that I could hear in 40 years. Fischer & Fischer SN-570 clearly belongs to this category. With the Fischer & Fischer SN-570 one can for hours completely stress-free listening and noted over time more and more clearly how infinitely many details of these speakers represent is able. In some places, our test discs, the SN-570 surprised with a previously rarely perceived resolution.

In some places in Clapton Unplugged, especially in Title 13 every single hand and on a clearly defined place you can hear the clapping of the audience. The low end of the SN-570 never feels too fat and that's a huge plus. One can imagine the SN-570 in smaller spaces difficult and quite close to the wall. The risk that the bass is too thick is extremely low. That is, that while the bass goes very deep but it very quickly and always remains contoured. That was probably one of the necessary requirements when using the Air Motion Transformers: Ultrafast chassis to the harmonious timing to get out that I had always missed. Thomas Fischer and his crew show with this speaker what performance is possible even a small manufacturer if he can even determine all parameters so consistently and not be forced to fall back on is cut lengths in the chassis. The high level of commitment by the small speaker was forged Fischer & Fischer has brought here are simply must be rewarded. Each HiFi enthusiast who has the wherewithal I can only warmly put this speaker in his short list included if a purchase is coming up. The speaker has the makings of a classic. You can sit back, listen to music and not have to think about what you could do even better because as owner.

Invest in the electronics as much as you can and the SN-570 will thank you for it with more sound. And the best for last, I've finally found after 40 years looking for my speakers with Air Motion Transformer. Hats off, Mr. Fischer, this is how you big hi!