

ESX SXE8D2 + SXE10D2 + SXE12D2
- new all-rounder subwoofer series

Bass for newcomers



With the SXE woofers, ESX presents a new series of subwoofer single chassis. The woofers make a great first impression and are placed in the affordable range. A great choice for price-conscious bass fans?

ESX subwoofer chassis can be divided into two categories: heavy and very heavy. At the top of the range are the VX-Pro woofers in the SPL class and below that, the Quantum QXE chassis are only available as a halfway complete series, and they are still massive. In the affordable

Only a few chassis are offered in this area, but no regular series. ESX is now changing this with the SXE series, which comes in the three most important sizes: SXE8D2, SXE10D2 and SXE12D2. The prices are seamlessly below the QXE woofers, but at first glance it is clear

It is clear that the SXE series is by no means a cheap entry-level series, but rather represents the entry level range for ESX. ESX remains true to the quality standards of its woofers in any case, and there are brands where three cheaper series would fit under the SXE. The SXE woofers make no compromises in their basic design. There are 2 x 2 Ohm double voice coils, double ferrite systems and baskets made of sturdy die-cast aluminum throughout. All three features that are not found in the cheaper range.



Airy cast basket with large-area rear ventilation of the centering on all SXE woofers

The membranes are made of the tried and tested air-dried paper that 90% of all subwoofers use because it works. The polypropylene dust caps are standard, as are the rubber-like foam surrounds, not overly high here, rather wide, just normal. The centering is slightly higher to allow for a lot of mechanical travel, for the same reason the pole cores are flared, which gives a few millimeters more space inside. The Nessie-design supply wires are very good, they are not free-flying or tightly woven, but are attached to the spider several times, which forms the "Nessie" loops. Always nice and a sure sign of careful manufacturing: finely machined pole plates instead of just punched ones, so that the plates lie flat against the ferrite rings. It is nice that the woofers are supplied with grilles, it is very nice that they are not run-of-the-mill grilles, but attractively styled ones that elegantly disappear under the basket seal and offer a clean look.

measurements and sound

All woofers are equipped with 50 millimeter voice coils, which is of course generous for the small SXE8D2, but only good standard for the 12. The mechanical stroke is in the green zone for all of them, but there are larger differences in the (electrical) Xmax, which depends on the voice coil overhang over the pole plate. The SXE8D2 has a solid 5 mm, while the SXE10D2 and SXE12D2 have more than twice as much wire outside. It can already be said that the SXE10D2 is certainly not wrong as a happy medium, which is also

our parameter measurement confirmed this. It has a practical medium quality and even a lower open air resonance than the 12. It does not need an excessive amount of air, so it should be used in compact enclosures. ESX recommends ventilated enclosures, which we are happy to stick to, although closed operation is no problem. The SXE8D2 has 21.5 liters, which is generously supplied; 16 liters should also do if space is limited. Our SXE10D2 can be placed in 30 liters, the classic 10 inch reflex enclosure, of course with 10 x 30 centimeter port. The SXE12D2 only needs 45 liters, which is on the smaller side for its parameter set. Well supplied with half a kilowatt each, the SXE8D2 already starts off with quite remarkable deep bass ambitions. Its tuning to a flat 40 Hz enables it to reproduce very deep tones. The pressure development is also more than good for an eight-inch speaker, only the maximum level is somewhat limited in comparison, but in absolute terms it is also very good. The SXE10D2 shows that it can not only be a good deal louder, it also brings additional sovereignty to the car, and that at all bass frequencies from the highly tuned kick drum to dark electronic beats. In terms of precision, it is no worse than the eight-inch speaker - hats off! The SXE12D2 also plays on the clean side, but cannot set itself apart from its two smaller colleagues in terms of depth. Of course, the generous twelve-inch speaker is sufficient at the bottom end, and it even sounds the most powerful. Its membrane surface also helps it win at the maximum level, where it beats the already very good 10-inch speaker.



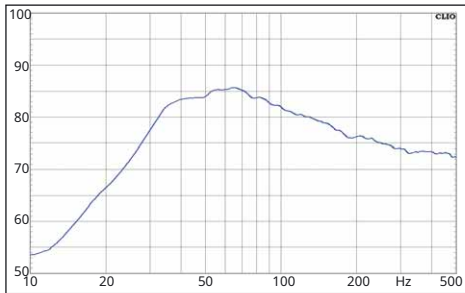
The SXE woofer features double coils, cast baskets and paper membranes, making it impressive

BEST PRODUCT
upper class
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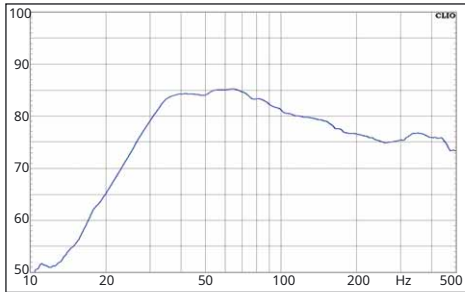
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Conclusion
Given the prices starting at 130 euros, you get a lot of subwoofer and bass performance for your money with the SXE woofers. Whether you want depth with 8 inches with the SXE8D2 or more pressure and level with the SXE10D2 and SXE12D2, the quality and performance are right here, as is the price-performance ratio.

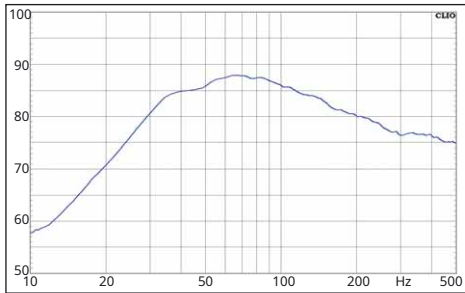
Elmar Michels



The SXE8D2 impresses with great bass for an 8-inch speaker down to 40 Hz at a very respectable 85 dB



The SXE10D2 only manages 85 dB and cannot set itself apart from its little brother in the 1 W measurement



The SXE12D2 in 45 liters reaches up to 40 Hz and swings above that to 88 dB

subwoofer	ESX SXE8D2	ESX SXE10D2	ESX SXE12D2
Price	around 130 euros	around 170 euros	around 200 euros
distribution	Audio Design Kronau	Audio Design Kronau	Audio Design Kronau
hotline	07253 9465-0	07253 9465-0	07253 9465-0
Internet	esxaudio.de	esxaudio.de	esxaudio.de

Evaluation				
sound	50%	1.1	1.0	1.1
draft	12.5%	1.5	1.0	1.0
Pressure	12.5%	2.0	1.5	1.0
cleanliness	12.5%	0.5	1.0	1.0
dynamics	12.5%	0.5	0.5	1.5
laboratory	30%	1.8	1.7	1.5
frequency response	10%	1.0	1.0	1.0
efficiency	10%	2.5	2.5	2.0
maximum level	10%	2.0	1.5	1.5
processing	20%	1.0	1.0	1.0

Technical data			
basket diameter	21.6 cm	26.4 cm	31.5 cm
installation diameter	18.2 cm	23.4 cm	28.2 cm
installation depth	12.1 cm	14.2 cm	15.0 cm
magnet diameter	11.5 cm	14.5 cm	16.0 cm
Weight	3.6 kg	5.5 kg	6.9 kg
nominal impedance	2 x 2 Ohm	2 x 2 Ohm	2 x 2 Ohm
DC resistance Rdc	4.04 ohms	4.13 ohms	4.11 ohms
voice coil inductance Le	1.92 mH	2.65 mH	2.51 mH
voice coil diameter	50 mm	50 mm	50 mm
membrane surface	249 cm²	321 cm²	507 cm²
resonance frequency fs	41 Hz	29 Hz	32 Hz
mechanical quality Qms	5.77	4.22	3.38
electrical quality Qes	0.56	0.49	0.47
overall quality Qts	0.51	0.44	0.41
equivalent volume Vas	19.1 l	31.5 l	66.0 l
Moving mass Mms	67 g	137 g	138 g
Rms	3.01 kg/s	5.91 kg/s	8.09 kg/s
CMS	0.22 mm/N	0.22 mm/N	0.18 mm/N
B xl	11.21 Tm	14.56 Tm	15.51 Tm
sound pressure 1W, 1m	85 dB	85 dB	88 dB
performance recommendation	100 – 300 W	100 – 300 W	100 – 300 W
test housing	BR 21.5 l	BR 30 l	BR 45 l
reflex channel (dxl)	7 x 24 cm	10 x 30 cm	10 x 30 cm

upper class 1.3
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Price/performance: very good

upper class 1.2
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Price/performance: very good

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"Great subwoofers for affordable money – entry-level class."