



ESX VXP84 + VXP104 -
powerful subwoofer chassis with little
installation depth

Flat subwoofers with power

► We have received two highly interesting subwoofers from ESX, which indicate at first glance that they are something special. Introducing VXP84 and VXP104.

Subwoofers are small and inconspicuous today. It is therefore not surprising that ESX is the first to launch VXP models with a moderate 8 and 10 inch diameter. The model name VXP or Vision Pro already signals that it belongs to the top series in the ESX subwoofer range. And so our VXP84 and VXP104 may be compact and quite flat, but they are anything but lightweight. With installation depths of less than 9 or 11 centimeters (and because the drive

hidden in the basket), the VXP also belong in the flat subwoofer category. This makes them suitable for space-saving housings, which can easily be accommodated in the trunk floor, for example. But nothing new so far. The special thing about the VXP woofers is that they are serious about bass pressure – and very serious about it. We have



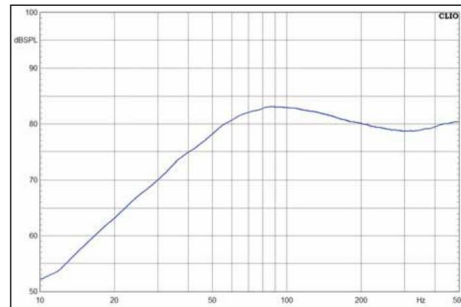
The proportions show the really huge
Drives of the VXP woofers



The beads are narrow for as much cone area as possible, the high profile nevertheless enables large deflections

that is so stable that one has to speak of the proverbial board. In addition, the fabric allows for any shape, so that the membranes are not cone-shaped but are reminiscent of volcanic cones. This also saves the installation depth. The connection to the aluminum voice coil carriers is made by specially designed aluminum transition pieces, which offer large adhesive surfaces and make the whole thing extremely stable.

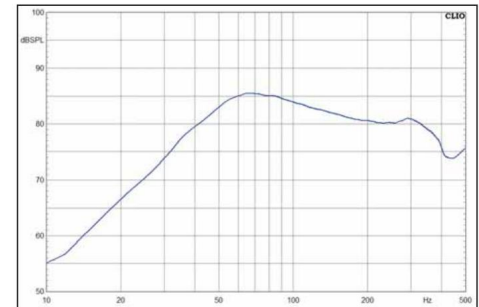
Of course, no savings were made on the voice coil; the smaller VXP84 is a 20-centimetre woofer with a two-inch



The VXP84 exhibits the flat rolloff to low frequencies typical of closed subwoofers. You hear a lot more low made of thick glass fiber fabric,

Coil equipped, the VXP104 has a two and a half inch coil in the drive. The woofers are held together by powerful die-cast baskets that offer enough space for the fat double magnet systems. According to this, the VXP with 4.8 and 7.3 kilos are by no means lightweight.

Measurements and sound Our measurement data, on the other hand, are not that heavy or overly fat. The VXP show that they are not designed to be extreme, but rather in the golden mean



The amplitude response of the VXP104 is 2 dB higher than that of the 8 and the maximum is at lower frequencies. That results in sound

No flat woofers in front of us, where saving space is the top priority, but performance woofers, which can also save space - in this order. And **what must also be clear: the fun does not come cheap. If you want to enjoy the VXP bass power, you can get it from 350 euros, so not for beginners or for people who want "a bit of bass" for the trip to the supermarket.**

For those who continue reading: There are first class subwoofers for the money. In keeping with the SPL, the rubber surrounds are rather high than wide, in order to allow enormous deflections with little loss of cone surface. The membranes are

lay. The suspension is tight, but not rock hard, and the moving masses are moderate. This results in resonance frequencies that are neither excessively low nor too high. In addition, the rather high qualities in connection with still compact volumes promise a lot of bass from small cabinets. And so the VXP woofers are really ideal for being installed in closed boxes.

These are always smaller than reflex constructions, and the VXP don't absolutely need the reflex support, they make more than enough bass out of it. Only the efficiency naturally suffers with this space-saving application, characteristic sound pressures of 83 and 85 dB at one watt are not intoxicating, but they are not frightening in the car hi-fi world either - after all, you have power.

In terms of sound, a lot happens when the VXP are connected to the power amplifier. The VXP84 already delivers a perfect mixture of juicy depth and precision. Even the lowest registers are clearly audible, but they are not pushed so hard on the listener's ears that everything else is drowned out in bass mush. Rather, deep synth basses can also be followed in detail, the sound comes across as super tight and well-trained. Drumbeats and bass drums sound similar, not overly fattened, but crisp and to the point. The VXP104 does it no better and no worse. It serves a whole portion more volume in the deep bass and it can also be a bit louder. But it sounds a bit less transparent, especially in direct comparison.

But compared to any reflex woofer or bass buzzer, the VXP104 sounds extremely precise and with fast runs it also outperforms good twelve-inch speakers. Many listeners should like that because it once again represents the golden mean. The bottom line is that the VXP104 is also ahead of its little brother - it simply makes more volume and more bass.

If you like it drier and slimmer, you will gratefully reach for the VXP84 in its nice and small housing.

Conclusion With the VXP woofers, ESX is putting something very fine on the shelves of specialist dealers: premium power flat subwoofers that have never been seen before. For admittedly not a little money, the bass friend gets first-class woofers with first-class performance.

Elmar Michels



There are flat ones woofer than that VXP, that's due to the huge drives



For a flat Profile with maximum space for stroke, the membrane is turned inside the center to outside

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|---|---|
| SOUND TIP top class CAR & HiFi 5/2022 | SOUND TIP top class CAR & HiFi 5/2022 |
|---|---|

| Subwoofer | ESX VXP84 | ESX VXP104 |
|--------------------|--|--|
| Price distribution | around 350 euros | around 450 euros |
| Hotline Internet | Audio Design Kronau 07253 9465-0 www.esxaudio.de | Audio Design Kronau 07253 9465-0 www.esxaudio.de |

| Evaluation | | ESX VXP84 | | ESX VXP104 | |
|-----------------|-------------------------|-----------|-----|------------|-----|
| Klang | 50 % | 1,0 | 1,5 | 1,0 | 1,0 |
| | draft 12,5 % | 1,5 | 1,0 | 0,5 | 1,0 |
| | Print 12,5 % | 0,5 | 1,0 | | |
| | cleanliness 12,5 % | | | | |
| | dynamics 12,5 % | | | | |
| Labor | 30 % | 2,0 | 1,7 | 1,5 | 1,0 |
| | frequency response 10 % | 3,0 | 3,0 | 1,5 | 1,0 |
| | efficiency 10 % | | | | |
| | Maximalpegel 10 % | | | | |
| processing 20 % | 1,0 | 1,0 | | | |

Technical specifications

| | ESX VXP84 | ESX VXP104 |
|----------------------------|---------------------|---------------------|
| basket diameter | 21,0 cm | 26,6 cm |
| installation diameter | 19,0 cm | 23,8 cm |
| installation depth | 8,7 cm | 10,8 cm |
| magnet diameter | 14,2 cm | 17,0 cm |
| Weight | 4,8 kg | 7,3 kg |
| nominal impedance | 4 Ohm | 4 Ohm |
| DC resistance Rdc | 3,76 Ohm | 3,72 Ohm |
| Voice coil inductance Le | 1,52 mH | 1,64 mH |
| voice coil diameter | 50 mm | 64 mm |
| membrane surface | 227 cm ² | 377 cm ² |
| Resonance frequency fs | 39 Hz | 32 Hz |
| mechanical quality Qms | 6,38 | 5,86 |
| electrical quality Qes | 0,59 | 0,72 |
| Total Quality Qts | 0,54 | 0,64 |
| Equivalent Volume Vas | 16,0 l | 39,7 l |
| Moving Mass Mms | 75 g | 122 g |
| Rms | 2,88 kg/s | 4,22 kg/s |
| Cms | 0,22 mm/N | 0,20 mm/N |
| B x l | 10,83 Tm | 11,30 Tm |
| Sound pressure 1 W, 1 m | 83 dB | 85 dB |
| performance recommendation | 250 – 400 W g | 250 – 600 W g |
| test case | 13 l | 21 l |
| Refl exkanal (d x l) | - | - |

| | |
|--|--|
| Top class 1.3 CAR & HiFi 5/22 Value for money: very good "Full bass power in a small space". | Top class 1.2 CAR & HiFi 5/22 Value for money: very good "Full bass power in a small space". |
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