

Emphaser EBR-M8DX + EBR-M10DX – Subwoofers

The Power-Subwoofers

► These days it is seldom to see a manufacture daring to throw really fat subwoofers onto the market again. But Emphaser does it: the new Monolith subwoofer boxes promise power bass at its best.

Two cabinet subwoofers are now available at ACR dealers under their full names EBR-M8DX and EBR-M10DX. And we have genuine massive subwoofers before us here, both in cabinets and as installed chassis. Don't let yourself be deceived by the drivers having basket sizes of only 8 and 10 inches (20 and 25 centimeters); we are not looking at space-saving subwoofers, but seriously heavy caliber. That is immediately evident as soon as the woofers come out of the cabinets. Both have really thick drivers with huge

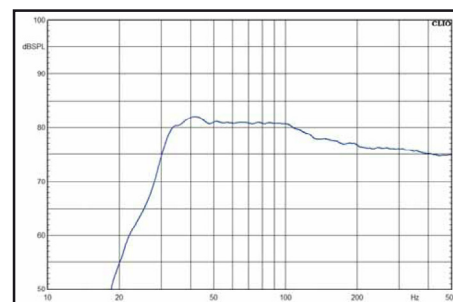
ferrite rings. Two thick ferrite rings 19 cm in diameter are found in the 10-in and even the smaller 8-in has 17 cm rings so that it just fits into its installation opening. The 2 x 2 ohm dual voice coils are wound on 50-mm aluminum former with enormous winding lengths for a 12–13 mm linear stroke on both woofers. The baskets are made of die-cast aluminum and offer the moving elements 32 and 38 millimeters of well ventilated freedom of movement. For the cones and dust caps woven fiber glass is used bonded in resin, which

produces a structure as hard as board. The extensive bonding of the thick, stiff surrounds also inspires confidence in the durability. Neither has Emphaser skimped on the cabinets. These are made of thick MDF board, with the material thickness of the acoustic baffles being a full 25 millimeters. The chassis are mounted like the terminal boxes in the enclosure floors so that we have a downfire subwoofer. On the sides two MDF rails with nicely recessed shadow gaps provide 4 cm clearance from the floor – that is enough to allow the woofers a large stroke. Equally very nicely and elaborately made is the aluminum trim with logo that extends over the lid and one side.

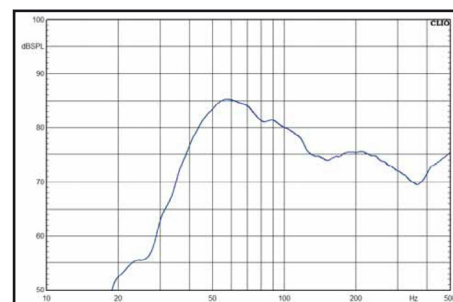


Measurements and Sound

The first thing to notice is that the M10DX looks only slightly larger than the M8DX. After measurement that is 37 against 28.5 liters internal volume



The EBR-M8DX is a good example of a flat and balanced response while still delivering full level in the lows. With 81 dB at one watt it is very quiet, and this will have to be compensated for by amplification



The EBR-M10DX concentrates on its preferred frequencies from 45 Hz to 60 Hz, boasting 85 dB at one watt

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The cabinets are also of massive construction. Woofers and terminals located in the floor



— so not really compact for 8 and 10 inch woofers. Therefore some decent volume has been given here, particularly to the small M8DX, so as not to have to compromise on performance. In front of the test set the M8DX then also responds with a fantastic frequency response: for just an 8 inch woofer the amplitude response reaches right down into the frequency basement at 37 Hz thanks to the perfect tuning. The M10DX bass reflex system is tuned higher than the smaller M8DX so that it powerfully emits sound pressure in the most important bass region around 50 Hz. The massive construction unfortunately means only moderate efficiency, the subs requiring a lot of power to really get going. However, given the right conditions they will reward such care with a massive bass storm. Even the smaller M8DX is lively. When turned up correctly it pushes out immensely powerful bass tones so that it is hard to believe that a 20 cm bass speaker is at work here. The M8DX plays cleanly down to the low bass regions, delivering everything you would expect, while always bursting with energy. Sound quality fans will also like it because of its clean spot on reproduction, effortlessly following even more complex bass lines. But that all pales when its stable mate the M10DX is connected to a power amp. That then pushes out a wild orgy of sound that we have not heard for a long time. The M10DX is quickly winning the nickname 'skull splitter', as it not only hits the ears, but is felt all over the body. At very low bass regions it lets off a bit so that it can pack more punch in the remainder of the frequency range where most music plays. From the sound quality standpoint the M10DX not bad at all, playing with quite some agility. Anyhow, no one will ask for more once it has been really turned up.

Conclusion

The Emphaser EBR-M8DX and EBR-M10DW are wonderfully made, high quality finished subwoofers for fans of 'real' good old bass. The M8DX sounds more balanced and better, whereas the M10DX relies on a merciless sound pressure level.



Rear ventilation of the centering is elaborate, with narrow basket apertures at top of the M8DX



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		Emphaser EBR-M8DX	Emphaser EBR-M10DX
Price		about 300 Euro	about 380 Euro
Distributor		ACR	ACR
		CH-Zurzach	CH-Zurzach
Hotline		info@acr.eu	info@acr.eu
Internet		www.acr.eu	www.acr.eu
Summary			
▶ Sound quality	50 %	1,1	1,1
Bass foundation	12,5 %	1,0	1,5
Pressure	12,5 %	1,5	0,5
Accuracy	12,5 %	1,0	1,5
Dynamics	12,5 %	1,0	1,0
▶ Lab	30 %	1,7	1,8
Frequency response	10 %	0,5	2,0
max. volume	10 %	3,0	3,0
Distortion	10 %	1,5	0,5
▶ Practice	20 %	1,0	1,0

Technical data

Chassis diameter	21,0 cm	27,5 cm
Mounting cutout	18,6 cm	23,8 cm
Mounting depth	11,1 cm	13,8 cm
Magnet diameter	17,0 cm	19,0 cm
Width	48,5 cm	52,5 cm
Height	31,5 cm	32,5 cm
Depth	27,5/36 cm	31,5/40 cm
Weight	17,8 kg	22,2 kg
Nominal impedance	2 x 2 Ohm	2 x 2 Ohm
DC resistance Rdc	3,82 Ohm	3,92 Ohm
Coil inductivity Le	2,92 mH	3,43 mH
Coil diameter	50 mm	50 mm
Cone surface Sd	204 cm²	146 cm²
Resonance frequency fs	36 Hz	31 Hz
Mechanical quality Qms	5,81	5,10
Electrical quality Qes	0,31	0,28
Total quality Qts	0,29	0,27
Equivalent volume Vas	9,4 l	21,9 l
Moving mass Mms	121 g	204 g
Rms	4,70 kg/s	7,74 kg/s
Cms	0,16 mm/N	0,13 mm/N
B*1	18,47 Tm	23,47 Tm
Pressure 1 W, 1 m	81 dB	85 dB
Power handling	300 – 800 W	300 – 800 W
Test chamber	BR 28,5 l	BR 37 l
Tunnel (d x l)	71 cm² x 41,5 cm	88 cm² x 185 cm

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Price/performance: excellent

"Well made premium woofers with a mighty output."

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