

TECHNICAL DATA SHEET

The MSE-218 is a high-power subwoofer system, designed to fulfil the most demanding applications where scalability and single-enclosure use are as important as sonic performance. The MSE-218 has been developed to answer a call from customers who don't always have the physical space available to use MSE-118 Quake subwoofers in significant numbers, yet still require impressive SPL and frequency response. MSE-218 subwoofers are inherently scalable – they can be used as single units, or in large numbers for filling arena or stadium shows. The substantial enclosure houses a pair of reflex-loaded 4.5" voice coil, 18" (457mm) neodymium LF cone drive units. Like all EM Acoustics products, headroom is key. Peak-to-peak linear cone travel is 28mm, meaning large amounts of low frequency information can be produced by a surprisingly small and lightweight subwoofer enclosure.

FEATURES AND BENEFITS

- Incredible power density
- Exceptional frequency and impulse response ensure fast, accurate low frequencies
- Exceptional headroom and reliability

The MSE-218 requires an active crossover to function correctly – although the choice of filter points is very wide, allowing the user to tailor the response to exactly what is required. Cardioid DSP program settings are also available to create arrays with significant rejection to the rear of the subwoofers, by stacking three enclosures in a block (two facing forwards, one facing backwards).

The robust enclosure is constructed from premium 18mm (3/4") multi-laminate Birch plywood – rebated, screwed & glued together. The enclosure is finished in black textured paint as standard, however RAL colour matching as well as weather protection options are available if required. Due to the extremely high cone travel available, enclosure rigidity was key in the design – as such the inside of the enclosure, including the enormous port in the centre – are rigidly braced

TECHNICAL SPECIFICATIONS

ENCLOSURE TYPE:	Dual drive unit bass reflex subwoofer
DIMENSIONS (HxWxD):	550 (21.7) x 1300 (51.2) x 850 (33.5) mm/(ins)
NET/SHIPPING WEIGHT:	108kg net / 111kg shipping (237.6lbs/244.2lbs)
FREQUENCY RESPONSE ¹ :	28Hz – 150Hz +/- 3dB
SENSITIVITY ² :	100dB
DISPERSION ³ :	omnidirectional
DRIVE UNITS:	2 x 18" (457mm) neodymium LF cone drive units
POWER HANDLING:	2000W RMS, 4000W program
MAXIMUM SPL ⁴ :	137dB continuous, 143dB peak
NOMINAL IMPEDANCE:	2 ohms
CROSSOVER:	Active, using EM Acoustics recommended settings
CONNECTORS:	2 x Neutrik SpeakON™ NLT4MP
ENCLOSURE:	18mm (3/4") multi-laminate Birch plywood – rebated, screwed & glued. Finished in impact resistant textured paint
ENCLOSURE HARDWARE:	8 x flush handles 2 x M20 polemount socket for mid/high enclosures Touring runners/stacking recesses Tour-grade castors
GRILLE:	Mesh-based hex punched steel
OPTIONS:	Colours/Weather Protection
ACCESSORIES:	TC-218 padded touring cover
SPARE PARTS:	DU-1802 18" (457mm) neodymium drive unit RK-1802 recone kit RG-218 replacement steel grille

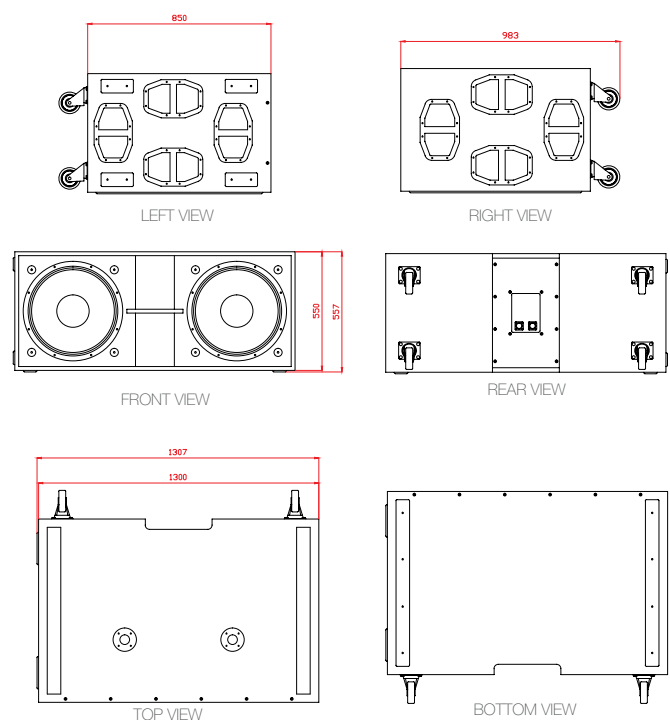


- Flexible options for use with fullrange products
- Inherent scalability for use in a wide variety of applications

in all dimensions. Runners are provided on the bottom of the enclosure and on one end to protect the paint finish when in use either lying down or stood on-end, and recesses on the top of the enclosure allow stable stacking of arrays. Eight steel bar handles and tour-grade castors are also fitted as standard. A pair of M20 threaded flange adapters are also provided in the top of the enclosure for mounting fullrange products above for compact systems. Lastly, a tough hex-punched grille backed with acoustically-transparent black mesh protects the drive units from damage, which can be quickly removed for service purposes.

The MSE-218 requires active high/low pass filters and a single amplifier channel capable of delivering 3000-4500W RMS into a 2 ohm load. For best results, the EM Acoustics AD-9 amplifier should be used.

ENGINEERING DRAWING



NOTES ON MEASUREMENT CONDITIONS:

¹Measured on-axis at 2m in an anechoic environment and referenced to 1m. ²Measured in half space at 2m with 4W sine wave input and referenced to 1m. ³Nominal dispersion, measured in an anechoic environment and averaged over stated bandwidth. ⁴Calculated and verified by subjective listening test of familiar program material.

