TECHNICAL DATA SHEET

EMS-118

COMPACT REFLEX SUBWOOFER

The EMS-118 is a compact, powerful subwoofer, designed to complement the fullrange products within the EMS Series for a variety of applications, but particularly those where the EMS-215 is physically too large. The optimally-tuned vented enclosure provides excellent transient response and low frequency reproduction without the aid of corrective equalisation.

FEATURES AND BENEFITS

- **High power-to-size ratio**
- **Exceptional frequency and impulse response ensure fast, accurate low frequencies**
- **Compact size and light weight for ease of use and installation**
- **Flexible options for use with fullrange products**

The compact enclosure is constructed from premium 18mm (3/4") multi-laminate Birch plywood, and houses a single 4.5" voice coil, 18" (457mm) neodymium LF drive unit. The enclosure includes a single polemount adapter – either 35mm or M20 threaded – allowing the mounting of EMS Series fullrange loudspeakers above. Also as standard, the EMS-118 is supplied with castors for the rear and is fitted with rubber feet underneath and matching recesses on top to allow stable stacking of multiple enclosures. Two Neutrik SpeakON™ NL4MPR connectors are provided for input and enclosure link, and a pair of steel bar handles allow easy lifting. Lastly, a tough hex-punched steel grille protects the drive unit from damage whilst in use or in transit. The enclosure is finished in black or white textured paint as standard, though RAL colour matching and weather protection options are available.

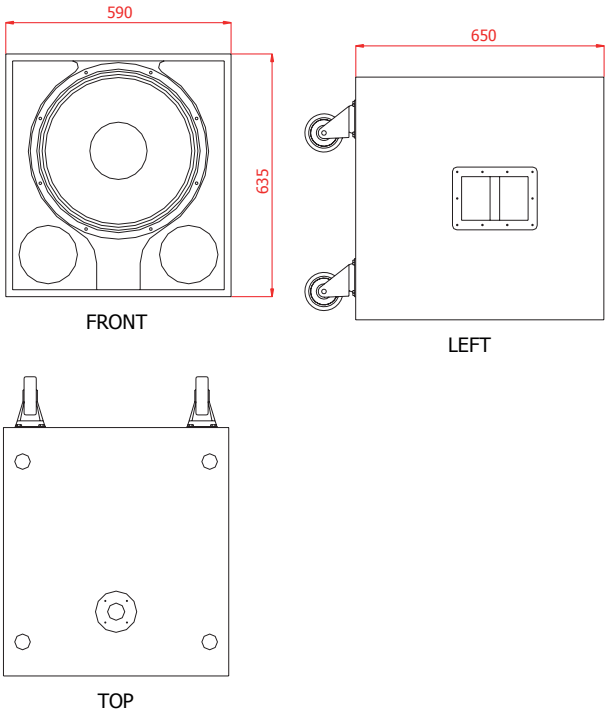
The EMS-118 requires an active crossover to function correctly – although the choice of filter points is very wide, allowing the user to tailor the response to exactly what is required. Cardioid DSP program settings are also available to create arrays with significant rejection to the rear of the subwoofers, by stacking three enclosures in a block (two facing forwards, one facing backwards).

The EMS-118 can add low frequency power and extension to systems based around any EM Acoustics fullrange product, or for fullrange products from other manufacturers. The EMS-118 requires active high/low pass filters and a single amplifier channel capable of delivering 1500-2000W RMS into a 4 ohm load. For best results the EM Acoustics AQ-10 or AD-9 amplifiers should be used.

TECHNICAL SPECIFICATIONS

ENCLOSURE TYPE:	single driver reflex-loaded subwoofer
DIMENSIONS (HxWxD):	635 (25) x 590 (22.2) x 650 (25.6) mm/(ins)
NET/SHIPPING WEIGHT:	55/58kg (121/127.6lbs)
FREQUENCY RESPONSE[1]:	35Hz – 150Hz +/- 3dB
SENSITIVITY[2]:	97dB
DISPERSION[3]:	omnidirectional
DRIVE UNITS:	1 x 18" (457mm) neodymium LF cone drive unit
POWER HANDLING:	1000W RMS, 2000W program
MAXIMUM SPL[4]:	131dB continuous, 137dB peak
NOMINAL IMPEDANCE:	4 ohms
CROSSOVER:	Active, recommended below 120Hz (24dB/ Octave L-R)
CONNECTORS:	2 x Neutrik SpeakON™ NL4MPR
ENCLOSURE:	18mm (3/4") multi-laminate Birch plywood – rebated, screwed & glued. Finished in impact resistant textured paint
ENCLOSURE HARDWARE:	2 x steel bar handles 1 x 35mm or M20 polemount socket for mid/high enclosures 4 x rubber feet & mating recesses
GRILLE:	hex punched steel
OPTIONS:	Colours/Weather Protection
SPARE PARTS:	DU-1802 18" (457mm) drive unit RK-1802 recone kit RG-118 replacement steel grille

ENGINEERING DRAWING



NOTES ON MEASUREMENT CONDITIONS:

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