

The S-18 is a compact, powerful subwoofer, designed to complement the full range products within the EMS Series for a variety of applications. 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
- 1 x 18" neodymium high-excursion LF drive unit
- Impact and weather resistant black, and textured white finishes as standard
- Multiple M10 flying points
- M20 threaded pole mount adapter
- RAL colour and weather protection options
- Tour-grade castors included
- Protective cover accessories available



APPLICATIONS

- Theatre
- Houses of worship
- Conference, corporate and audio-visual
- Live music
- Nightclub

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 M20 threaded pole mount adapter allowing the mounting of EMS Series full range loudspeakers above. Also as standard, the S-18 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™ NL4 connectors are provided for input and enclosure link, and a pair of bar handles allow easy lifting. Lastly, a tough mesh-backed perforated steel grille protects the drive unit from damage whilst in use or in transit, and provides a discreet appearance. The enclosure is finished in a rugged black textured polyurethane finish or white textured paint as standard, however RAL colour matching and weather-protected outdoor installation options are also available.

ENCLOSURE OPTIONS

S-18 enclosures are available as standard in black 3-step impact resistant polyurethane finish, or white water-based Warnex textured paint. Custom RAL colours can be supplied on request; extended lead times and set up costs apply. S-18 enclosures can also be supplied as an outdoor version (OD), finished in the same black weather-resistant 3-step polyurethane coating, with stainless steel grilles and weather-resistant connector options, and other cabinet details bespoke to the customer's request. Custom RAL colours are also available for outdoor options by specific quote. Please contact your local EM Acoustics representative for details.

The S-18 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 S-18 can add low frequency power and extension to systems based around any EM Acoustics full range product, or for full range products from other manufacturers. The S-18 requires active high/low pass filters and a single amplifier channel capable of delivering 1500-2000W RMS into a 4 ohm load. For optimal results, the DQ Series Advanced System 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:	51/55kg (112.2/121lbs)
FREQUENCY RESPONSE¹:	35Hz – 150Hz ±3dB
SENSITIVITY²:	97dB
DISPERSION³:	Omnidirectional
DRIVE UNITS:	1 x 18" (457mm) neodymium LF cone drive unit
LOUDSPEAKERS PER AMPLIFIER	DQ6*: 1 per channel, DQ10: 1 per channel, DQ20: 2 per channel
POWER HANDLING:	1000W RMS, 2000W program
MAXIMUM SPL⁴:	131dB continuous, 137dB peak
NOMINAL IMPEDANCE:	4 ohms
CROSSOVER:	External active
CONNECTORS:	2 x Neutrik® speakON™ NL4
ENCLOSURE:	18mm (3/4") multi-laminate Birch plywood – rebated, screwed and glued, finished in impact and weather resistant black, or textured white paint
ENCLOSURE HARDWARE:	2 x flush bar handles, rubber feet & mating recesses, M20 threaded pole mount adapter
GRILLE:	Mesh-backed perforated steel
OPTIONS:	Colours / weather protection
ACCESSORIES	TC-S18 padded transit cover
SPARE PARTS	DU-1802 18" (457mm) drive unit RFG-S18 replacement grille

NOTES ON MEASUREMENT CONDITIONS:

¹Measured 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. ³Nominal dispersion, measured in an anechoic environment and averaged over stated bandwidth. ⁴Calculated and verified by subjective listening test of familiar program material.

*Whilst the DQ6 will operate the S-18, it will not allow the subwoofer to reach its full potential and as such should only be used in low SPL environments.

ENGINEERING DRAWING

