



emacoustics

TECHNICAL DATA SHEET

S-15

COMPACT REFLEX SUBWOOFER

The S-15 is a powerful 15" subwoofer designed to complement the small-to-medium full range loudspeakers within the EM Acoustics range in a wide range of applications. The S-15 is as much at home as a compact FOH subwoofer for small to medium scale live music reinforcement as it is in a theatre, cafe/bar or nightclub installation.

FEATURES AND BENEFITS

- Compact size yet significant output
- Compact all-purpose subwoofer
- 1 x 15" neodymium high-excursion LF drive unit
- Multiple M10 flying points
- M20 threaded pole mount adapter
- Tour-grade castors included
- Protective cover accessories available
- Impact and weather resistant black or white finish as standard
- RAL colour and enhanced weather protection options

APPLICATIONS

- Cafés and bars
- Houses of worship
- Conference, corporate and audio-visual
- Live music, nightclub and theatre

The S-15 is a high-performance subwoofer with a frequency response and SPL output that defies its compact dimensions, making it ideal for installations as well as mobile situations.

The compact enclosure houses a single 4" voice coil 15" (381mm) high-excursion neodymium LF drive unit, and is rigidly braced to minimise unwanted panel resonance. Constructed from multi-laminate premium birch plywood, the optimally-tuned enclosure includes two flush bar handles, rubber feet and mating recesses, and an M20 threaded pole adapter, as well as a total of 16 M10 rigging points for flying in both temporary and permanent installation applications. The S-15 is also supplied with a tour-grade castor set for easier transport.

The enclosure includes a pair of Neutrik® speakON™ NL4 connectors for input and enclosure link, and a hex-punched stainless steel grille backed with acoustically transparent mesh protects the drive unit from damage which can be quickly removed for service purposes. The enclosure is



finished in an impact and weather resistant black or white textured polyurethane finish as standard, however RAL colour matching and enhanced weather-protected outdoor installation options are also available.

The S-15 is designed to be a core workhorse subwoofer within the EM Acoustics range – compact enough to be transportable yet powerful enough to be useful for supporting larger models within the EM Acoustics range. The S-15 can support any product, but is especially suitable for reinforcing EMS-81X, EMS-101X and EMS-126/129 loudspeakers.

The S-15 requires a single amplifier channel, and external DSP for active high/low pass filters and limiters. As such, it is recommended to be used with EM Acoustics' range of Advanced System Amplifiers. It is however possible to use other DSP-enabled amplifiers, or conventional amplifiers with external DSP. Suitable DSP settings are provided on the EM Acoustics website. The amplifier channel should be capable of delivering 1000-1600W RMS into an 8-ohm load.

ENCLOSURE OPTIONS

S-15 enclosures are available as standard in black or white impact resistant polyurethane finish. Custom RAL colours can be supplied on request; extended lead times and set up costs apply. S-15 enclosures can also be supplied as an outdoor version (OD), finished in the same weather-resistant polyurethane coating, with 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..



TECHNICAL SPECIFICATIONS

ENCLOSURE TYPE:

DIMENSIONS: (HxWxD): :

NET/SHIPPING WEIGHT:

FREQUENCY RESPONSE¹:

SENSITIVITY²:

DISPERSION³:

DRIVE UNITS:

LOUDSPEAKERS PER AMPLIFIER (maximum for full loudspeaker SPL):

LOUDSPEAKERS PER AMPLIFIER (recommended absolute maximum)⁴:

POWER HANDLING:

MAXIMUM SPL⁴:

NOMINAL IMPEDANCE:

CROSSOVER:

CONNECTORS:

ENCLOSURE:

RIGGING & HARDWARE:

GRILLE:

OPTIONS:

ACCESSORIES

SPARE PARTS:

Compact reflex loaded subwoofer

519 (20.4) x 510 (20.1) x 570 (22.4) mm/(ins)

36kg/39kg (79.2/85.5lbs)

40Hz – 150Hz ±3dB

95dB

Omnidirectional

1 x 15" (381mm) neodymium LF drive unit

DQ6: 1 per channel, DQ10: 1 per channel, DQ20: 3 per channel

DI06: Not recommended, DI10: Not recommended, DI20: 1 per channel

DQ6: 1 per channel, DQ10: 2 per channel, DQ20: 4 per channel

DI06: Not recommended, DI10: 1 per channel, DI20: 2 per channel

800W RMS, 1600W program

128dB continuous, 134dB peak

8 ohms

External active

2 x Neutrik® speakON™ NL4

15mm (5/8") multi-laminate Birch plywood

Finished in impact and weather resistant black or white polyurethane

16 x M10 threaded mounting points, two flush bar handles, rubber feet and mating recesses, M20 threaded pole mount, tour-grade castors

Hex-punched stainless steel, backed with acoustically transparent mesh

Colours / weather protection

TC-S15 padded transit cover

S-15/S-18 flybar set

DU-1508 15" drive unit

RFG-S15 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. ⁴These loudspeaker quantities are the recommended maximum, and will not drive the loudspeaker to full output. ⁵Calculated and verified by subjective listening test of familiar program material.

ENGINEERING DRAWING

