TECHNICAL DATA SHEET

S-48

COMPACT ISOBARIC VLF SUBWOOFER

The S-48 is the smallest subwoofer manufactured by EM Acoustics, and represents a unique approach to low frequency reproduction in a small footprint enclosure. The S-48 features high-excursion neodymium drive units for reduced weight whilst retaining surprising sonic performance from an enclosure of this size.

FEATURES AND BENEFITS

- Exceptional low frequency extension for enclosure size
- Compact enclosure for easy concealment
- 4 x 8" neodymium LF drive units
- Cinematic response from a very small enclosure
- Low enclosure height allows installation under seating or in ceiling voids
- Impact and weather resistant black, and textured white finishes as standard
- Multiple M10 flying points
- RAL colour options

APPLICATIONS

- Sonic effects in theatres and museums
- Bars, bistros and cafes
- Houses of worship
- Conference, corporate and audio-visual
- Theme parks
- Retail shops and malls

The S-48 was designed to provide a compact low frequency solution for a variety of applications. The unique design provides unprecedented sonic depth from an enclosure of this size. At home either as low frequency extension in cafés and bars or as an extra sonic effect in theatres and museums, the added low frequency that the S-48 can produce makes it suitable for many situations.

The enclosure contains four high power 8" (203mm) neodymium LF drive units, loaded as two compound isobaric pairs. This design gives a usable response down to 35Hz, without any artificial equalisation. The S-48 can therefore add 'depth and warmth' to any system, even where larger subwoofers would normally have been used.

The rugged enclosure is constructed from premium 15mm (5/8") multi-laminate Birch plywood, rebated, screwed and glued together for maximum strength. Sixteen M10 threaded fixings are provided (four each side) to allow suspension of the enclosure if required. Connections are via two Neutrik® speakON™ NL4 connectors on a recessed rear panel for input and enclosure link. The enclosure is finished in a rugged black textured polyurethane finish or white textured paint as standard, however RAL colour matching options are also available. Two mesh-backed perforated steel grilles protect the drive units from damage. For service purposes, the rear pair of drive units can be accessed via a removable door on the rear panel of the enclosure.

The S-48 requires external active high/low pass filters and a single amplifier channel, and should be used with professional power amplifiers capable of delivering 600-1200W RMS into a 4 ohm load. For optimal results, the DQ Series Advanced System Amplifiers should be used.

ENCLOSURE OPTIONS

S-48 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. Please contact your local EM Acoustics representative for details.

EM ACOUSTICS

TECHNICAL SPECIFICATIONS

ENCLOSURE TYPE:	Compound isobaric subwoofer
DIMENSIONS (HxWxD)	308 (12.1) x 530 (20.9) x 450 (17.7) mm/(ins)
NET/SHIPPING WEIGHT:	22/24kg (48.4/52.8lbs)
FREQUENCY RESPONSE[1]:	35Hz – 150Hz ±3dB
SENSITIVITY[2]:	93dB
DISPERSION[3]:	Omnidirectional
DRIVE UNITS:	4 x 8" (203mm) neodymium LF cone drive units
LOUDSPEAKERS PER AMPLIFIER	DQ6: 1 per channel, DQ10: 2 per channel, DQ20: 2 per channel
POWER HANDLING:	600W RMS, 1200W program
MAXIMUM SPL[4]:	122dB continuous, 128dB peak
NOMINAL IMPEDANCE:	4 ohms
CROSSOVER:	External active
CONNECTORS:	2 x Neutrik® speakON™ NL4
ENCLOSURE:	15mm (5/8") multi-laminate Birch plywood, rebated, screwed and glued, Finished in impact and weather resistant black polyurethane, or textured white paint
RIGGING & HARDWARE:	16 x M10 threaded fixings
GRILLE:	Mesh-backed perforated steel
OPTIONS:	Colours
SPARE PARTS:	DU-806 8" (203mm) neodymium drive unit RFG-S48 replacement grille set

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.

ENGINEERING DRAWING