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S8

ULTRA-COMPACT INSTALLATION SUBWOOFER

PRELIMINARY TECHNICAL DATA SHEET

The S8 is a surprisingly powerful, ultra-compact subwoofer. It is designed to add low frequency support to any EM Acoustics loudspeaker system, particularly in installation applications. The optimally-tuned bandpass enclosure provides significant low frequency output in a discreet and compact footprint enclosure, without the need for corrective equalisation or extensive processing.

FEATURES AND BENEFITS

- Ultra-compact subwoofer aimed for installation applications
- Exceptional frequency and impulse response ensures fast, accurate low frequencies
- 1 x 8" neodymium high-excursion LF drive unit
- Multiple M10 flying points allow for suspension in various orientations
- Low-profile for easy concealment
- Protective feet can be moved or removed depending on application
- Impact and weather resistant black or white finish as standard
- RAL colour and enhanced weather protection options

APPLICATIONS

- Themed attractions
- Immersive experiences
- Restaurants & bars
- Houses of worship
- Conference, corporate and audio-visual

The compact enclosure is constructed from premium 12mm (1/2") multi-laminate Birch plywood, and houses a single 2" voice coil, 8" (203mm) neodymium LF drive unit. This drive unit is accessed from a removable panel on the underside of the enclosure.

For flexibility in installation use, the enclosure includes thirteen M10 threaded attachment points allowing the suspension of the enclosure horizontally, on its side, or even grille-down. The threaded points are positioned relative to the centre of gravity so that the subwoofer will hang level regardless of orientation. Plastic protective feet are fitted to the bottom as standard, but alternative positions on one side are offered to protect the enclosure finish if installed on its side. Two locking Phoenix 2-pole connectors are provided for input and enclosure link, significantly recessed into the back of the enclosure. A machined channel and the chamfered lower rear enclosure edge keep cabling out of the way in compact spaces. Lastly a hex-punched stainless steel grille backed with acoustically transparent mesh completes the cosmetic appeal.

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

The S8 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.

The S8 is intended to add low frequency power and extension to systems based around the smaller products within EM Acoustics' product range, particularly in applications where compact footprint, low height and low weight are critical.

The S8 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 300-400W RMS into an 8-ohm load.

ENCLOSURE OPTIONS

S8 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. S8 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.

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TECHNICAL SPECIFICATIONS

ENCLOSURE TYPE:	single driver bandpass subwoofer
DIMENSIONS (HxWxD):	193 (7.6) x 448 (17.6) x 580 (22.8) mm/(ins)
NET/SHIPPING WEIGHT:	13.5/16kg (29.7/35.2lbs)
FREQUENCY RESPONSE[1]:	42Hz – 100Hz ±3dB
SENSITIVITY[2]:	95dB
DISPERSION[3]:	Omnidirectional
DRIVE UNITS:	1 x 8" (203mm) neodymium LF cone drive unit
LOUDSPEAKERS PER AMPLIFIER (maximum for full loudspeaker SPL):	DQ6: 4 per channel, DQ10: 4 per channel, DQ20: 4 per channel Di06: 2 per channel, Di10: 3 per channel, Di20: 4 per channel
LOUDSPEAKERS PER AMPLIFIER (recommended absolute maximum)[4]:	DQ6: 4 per channel, DQ10: 4 per channel, DQ20: 4 per channel Di06: 4 per channel, Di10: 4 per channel, Di20: 4 per channel
POWER HANDLING:	200W RMS, 400W program
MAXIMUM SPL[5]:	121dB continuous, 127dB peak
NOMINAL IMPEDANCE:	8 ohms
CROSSOVER:	External active
CONNECTORS:	2 x 2-pole locking Phoenix connector
ENCLOSURE:	12mm (1/2") multi-laminate Birch plywood – rebated, screwed and glued, Finished in impact and weather resistant black or white polyurethane
ENCLOSURE HARDWARE:	Movable floor runners, 13 x M10 threaded flying points
GRILLE:	Hex-punched stainless steel, backed with acoustically transparent mesh
OPTIONS:	Colours / weather protection
ACCESSORIES	FC-S8 flying yoke
SPARE PARTS	DU-805 8" (203mm) drive unit RFG-S8 replacement grille

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]These loudspeaker quanties are the recommended maximum, and will not drive the loudspeaker to full output. [5]Calculated and verified by subjective listening test of familiar program material.

ENGINEERING DRAWING