

SUBTECH 218 SP



FEATURES

- Self-powered system (2100 W EIAJ, PWM power amp module)
- Very high power handling and maximum sound pressure (143 dB SPL peak @ 1 m)
- Two 18" long-throw woofers with special aligner to maintain performance through the years
- The woofers are fitted in separate chambers and use two separate amplification channels to ensure operation even in the event of the breakage of one component
- Equipped with Outline's proprietary "Fast Hanger" hanging system for fast reasonably priced flying
- The cabinet is internally braced to ensure the utmost sturdiness, free from harmful sound "colouring" due to resonance
- Optional trolley with sturdy smooth-running wheels facilitates transport, even on relatively uneven surfaces

APPLICATIONS

- No-nonsense use in "live" concerts of all sizes, floor or stage mounted and combined with other units of the same type for sound reinforcement of low and ultra-low frequencies.
- High quality permanent indoor or outdoor installations.
- An ideal match for all Outline loudspeaker systems.

DESCRIPTION

SUBTECH 218 SP is a self-powered loudspeaker system suited to high-quality sound reinforcement of low and ultra-low frequencies by the use of two 18" woofers with a special aligner to keep their resonance frequency steady through the years. Loading is of the phase inversion type with the enclosure tuned at a rather low frequency by a long port with a large surface area. The peculiarity of this loading, commercially known as "Extended Bass", consists in obtaining a wide pass-band and a considerable extension towards the bottom end of the frequency response. The useable band is therefore set towards the bottom end of the audio spectrum, as should be the case with subwoofers, and is sufficiently wide to reproduce all types of music.

The performance is very high considering the components used, thanks to the careful choice of the reflex alignment and the construction of the cabinet. The SUBTECH 218 SP has a useable frequency range at -10 dB of 26 Hz to 500 Hz (maximum suggested crossover frequency of 150 Hz), while the response is just ± 3 dB from 35 Hz to 350 Hz. SUBTECH 218 SP comprises a PWM power amplifier module (2 x 1050 W EIAJ on 8 Ω). Maximum sound pressure level at 1 metre in free-field is 140 dB SPL peak while in half-space it rises to 143 dB SPL peak.

The front of the enclosure is protected by an anti-resonant steel grille covered with sound-transparent foam. The rectangular cabinet is built in high quality 15mm Baltic plywood, strengthened by the complex internal structure and has six fast flying points, that makes vertical or horizontal hanging of numerous units extremely easy and reliable. Ten strategically positioned integral handles in the side panels facilitate handling and an optional set of sturdy smooth-running wheels (mounted on a trolley) facilitate transport, even on uneven surfaces. The black outer finish is in high quality scratch-resistant paint.

TECHNICAL SPECIFICATIONS:

FREQUENCY RESPONSE (-10 dB) 26 Hz \div 500 Hz
 (± 3 dB) 35 Hz \div 350 Hz

SUGGESTED X-OVER max 150 Hz

INPUT SENSITIVITY 3.2 dBu (1.12 V_{RMS})

AVERAGE DISPERSION Quasi-Omnidirectional

POWER AMPLIFIER

Type Class D (Digital)
 Input Impedance 10 k Ω balanced to ground
 Cooling Natural Air Convection
Rated Power (1 kHz, 1% THD) 2 x 1050 W EIAJ on 8 Ω

MAX SPL @ 1 m (calculated) Cont. 137 Peak 143 (Half-space)

CONNECTORS Audio 1 XLR + 1 Link Out
 Mains 1 PowerCon + 1 Link Out

LOUDSPEAKERS AND LOADING

Low 2 x 18" woofer, high pass vented box

WEIGHT *Single unit* 81 kg (178.6 lb) *Shipping (1 unit)* 89 kg (196.2 lb)

DIMENSIONS

Height 110 cm (43.3") 117 cm (46.1")
 Width 65 cm (25.6") 75 cm (29.5")
 Depth 60 cm (23.6") 68 cm (26.8")

MULTIPURPOSE SERIES