

# SP18E

## Compact high SPL sublow system

The SP18E is a compact self-powered high SPL sublow system. The cabinet is constructed of a rigid, multilayer birch ply reinforced with multiple bracing and finished with a sturdy coating. The SP18E is easy to handle particularly due to an inventive cabinet construction holding a 4 inch long coil neodymium driver and ultralight 2500 Watt CCD amp. An impressive featherweight of 58 kg solid sub.

Cabinet dimensions are optimised for international trucksize. Ergonomical grippoint layout, Nano Armor polyurethane coating and additional corner protection with mulple slide bars facilitate easy transport. Protective slidebars facilitate locked stacking of more cabinets. Polemounting can be done standing or flat. The SP18E will endow any of F.O.H. system with a rock solid foundation in the lowest audible octaves.

The SALC (Single Audio-logic Level Control) speaker management is a proprietary RMS based gain riding circuit which maintains the tonal balance of the sound as perceived by the human ear and protects the drivers from over excursion or overheating.. A recessed switch facilitates Sound Projects standard\* or free external lowpass selection.

To match the desired cabinet dimensions and to obtain maximum efficiency, state-of-the-art computer aided modelling techniques and acoustic calculation programs are used to precisely indicate the manifold reinforcing ribs and port tuning.

\*60Hz @ 24dB Butterworth

### Acoustical specifications

Drivers	1 x 18" High power, low weight, neodymium design. Double, impregnated spider and ventilated coil airgap for reduced power compression
Freq. response	30-60Hz/-90Hz switchable: Sub Mode/SPX Mode
Max. peak SPL @1m <sup>1</sup>	138dB
Coverage angle	Omni-directional

### Electrical specifications

Amplifier(s)	CCD™ technology
Output	2500W sine (SALC limited)
Low pass 4th order	60/-90Hz (switchable) <sup>2</sup>
Filter subsonic	30Hz, 2nd order
Input impedance	20 kOhms balanced, 10 kOhms unbalanced
Output impedance	Hard-wired to input
Main voltage	230V (other on request)
Mains frequency	50 / 60 Hz
Idle	< 50VA
Full load	< 3000 VA. DALC limited Ref. to continuous pink noise signal (12 dB c.f. within the specified range)
Protection	S.A.L.C. (Single Audio Logic Control)

<sup>1</sup> Peak level at 1M under half space conditions using pink noise with crest factor 4 (12dB)

<sup>2</sup> Full range option on request

\* Specified at 4 Ω

### Additional descriptive data

Cabinet construction	Cross grain laminated multiplex with multiple bracings
Finish	Nano-armor™ coating
Weight	58Kg (wheels not included) Optional wheel board available
Size WxHxD (mm)	600 x 750 x 620 (748)
Rigging points	Optional Uni Rigging (3x M20 bolt)
Audio connectors	IEC XLR-3 in/out
Main connectors	Powercon in, Powercon out
Max. operating temp.	-10 to 40 C ambient

