



# Prophile SS18

18 inch Ventilated Horn Subwoofer

*prophile*<sup>™</sup>  
SERIES



## Overview

The SS18 is an 18 inch, ventilated horn subwoofer that is designed to provide visceral low frequency performance in applications where conventional subwoofers with equivalent output would be too large or power hungry. It matches the high efficiency and dynamic range of larger horn subwoofers while providing a physically engaging musicality similar to that produced by large stacks of 18 inch, direct radiating subwoofers.

The enclosure has flexible truck pack dimensions, yet minimizes frontal area to also allow installation in height-restricted applications such as under stages. The SS18's input panel is mounted to a 45° rear chamfer. This allows a user to place the enclosure directly against a wall or stage yet still make the input connection.

The SS18 requires digital signal processing, and many platforms are supported. The SS18 is an excellent option any time visceral impact and extremely high SPL is needed from a low profile subwoofer package. This makes it the perfect choice for the main dance floors of high energy nightclubs and to serve as the house subwoofer system in performance venues requiring rock-and-roll levels.

## Performance Specifications<sup>1</sup>

### Operating Mode

Single-amplified w/ DSP

### Operating Range

30 Hz to 150 Hz

### Nominal Beamwidth

Spherical within operating range

### Power Handling @ Nominal Impedance<sup>2</sup>

89 V / 1000 W @ 8 Ω

### Nominal Sensitivity @ Input Voltage (half / whole space)

106 dB / 100 dB @ 2.83 V

### Nominal Maximum Continuous SPL (half / whole space)

136 dB / 130 dB

### Equalized Sensitivity<sup>3</sup> (half / whole space)

102 dB / 96 dB @ 2.83 V

### Equalized Maximum SPL<sup>4</sup> (half / whole space)

132 dB / 126 dB

### Recommended Power Amplifier

1000 W to 2000 W @ 8 Ω

### Recommended Limiter Threshold Voltage

≤ 126 V rms

## Physical Specifications

### Connections

(2) Neutrik NL4 Speakon

Pin 1+/-: LF

Pin 2+/-: NC

### Mounting / Suspension Points

None

### Dimensions (H x W x D)

76.2 x 53.3 x 106.7 cm / 30.0 x 21.0 x 42.0 in

### Weight

70.8 kg / 156.0 lb

## Options

Terminal strip input



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## product specification

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### Technologies

The SS18 uses its internal volume more efficiently than any previous subwoofer design. The parameters of the 5 inch coil, 18 inch driver were specifically developed to drive a horn with an expansion formula optimized to provide the greatest possible loading for a given enclosure volume. The tuning of the enclosure's back chamber and its high-order acoustical low pass ventilation port were selected to minimize passband excursion and provide the cooling required for long-term driver reliability.

The result is an extremely compact, high output subwoofer with exceptional immunity from over-excursion. In fact, this unique design can handle its full rated power at any frequency in its pass band without excessive excursion – an unheard of capability for a high-powered subwoofer. The significance of this characteristic is that the SS18 retains its low frequency extension and impressive impact even when driven to its full rated output.

<sup>1</sup> All acoustic specifications rounded to nearest whole number. External DSP with Fulcrum Acoustic-provided settings is required to achieve specified performance.

<sup>2</sup> Based on the AES power handling of the transducers.

<sup>3</sup> The 1-meter-referenced SPL produced when an EIA-426-B signal is applied to an equalized loudspeaker system, at a level which produces a total power of 1 watt, in sum, to the loudspeaker subsections.

<sup>4</sup> The 1-meter-referenced SPL produced when an EIA-426-B signal is applied to an equalized loudspeaker system, at a level which drives at least one subsection to full power.