



**7510** 8  $\Omega$   
**7560** 4  $\Omega$

**B46**

PROFESSIONAL SERIES

## 18" Bass Extended Drivers High Efficiency High Sounding Quality

### APPLICATIONS

Dedicated to Sub-Bass applications when high power handling is not specified, these drivers are able to cover a wide frequency band, ranging from 30Hz to 500Hz with remarkable sonic properties (even considering directivity pattern) that allow them to be used in a three-way Sound Reinforcement system as well as in a specific Sub system of medium input power.

The recommended enclosure is a Reflex type with volume ranging from 200L to 250L tuned from 38Hz to 40 Hz.

### DESIGN CONCEPT

**DEFLECTION CONTROLLED DIAPHRAGM** optimized for dynamic damping. DEFLECTION CONTROLLED DIAPHRAGM technology consists in optimizing the shape and material of the diaphragm so that it works as a mechanical transmission line, to avoid breaking modes as well as mechanical threshold which destroy sound quality.

This leading edge technology offers substantial sonic advantages. Among them: sound coherency, fast transients, stable sound imaging, high sensitivity, wide frequency range and reduced directivity pattern.

**VENTED COMPACT MAGNET SYSTEM.** It has been carefully optimized to obtain maximum transducing efficiency while avoiding unlinear behavior such as coil inductance variation with position, flux modulation, harmonic distortion, rest position offset, air compression and off-axis voice-coil pushing.

Its design incorporates a T-shaped and vented pole piece, and a flux stabilization ring. It also takes into consideration demagnetization at cold temperatures.

**INTERCOOLER SYSTEM** (patented). Entirely integrated into the loudspeaker itself, the INTERCOOLER SYSTEM extracts the heat produced by Joule effect in the voice-coil by the means of an air flow directed through the heatsink rims of the basket by the motion of the dust-cap and the spider.

The gain brought about by this technology is over 20 % of extra power, so for example, a 3" coil according to this design has the same power handling capacity as a classical 4" one.



### FEATURES

Power handling capacity **500 W AES**  
Reference efficiency (1W @ 1m) **98 dB SPL**  
SPL max (continuous) **121dB SPL**  
Usable frequency range **30-1200 Hz**  
Environmental withstanding **Outdoor**

### ARCHITECTURAL SPECIFICATIONS

**NOMINAL DIAMETER** : 460 mm.

**FRAME** : Aluminum alloy pressure die-cast basket with patented INTERCOOLER SYSTEM.

**MAGNET SYSTEM** : 3" highly energized, heat extracting design with vented pole piece and flux stabilizing ring.

**VOICE COIL** : High-temperature stabilized copper ribbon wound on high-strength glass polyimide former.

**CONE ASSEMBLY** : High-strength cellulose fiber cone impregnated and front-coated with damped resins, fitted with central carbon-fiber dome and double roll, treated and damped fabric surround.

**SPEAKER MASS** : 9.10 kg.

