



5050 8 Ω
5200 4 Ω

B38

PROFESSIONAL SERIES

15" Bass Midrange Drivers High Sound Pressure Level High Sounding Quality

APPLICATIONS

The "Fifty-fifty" is one of our best sellers. Designed in 1991, its goal was to become a universal Bass Driver for high quality sounding sound reinforcement multi-way systems. So that its qualities are well balanced between parameters: High SPL / Bass extension / enclosure compactness / sonic qualities.

This statement comes from the exceptional powerful design of its 3" magnet system in association with a deflection controlled diaphragm, which allows it to be used over 800 Hz if necessary against the cost of a slight directivity compromise.

The optimum acoustical load is Bass-Reflex type of 60L to 85L tuned from 46Hz to 42Hz. Enclosure volumes over 90L are not recommended.

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 nonlinear 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) **121 dB SPL**
Usable frequency range **40-2000 Hz**
Environmental withstanding **Outdoor**

ARCHITECTURAL SPECIFICATIONS

NOMINAL DIAMETER : 380 mm.

FRAME : High tensile 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 and central dome impregnated and front-coated with damped resins, fitted with double-roll treated and damped fabric surround.

SPEAKER MASS : 9.10 kg.

