



1120 8 Ω
1130 16 Ω

E17

PROFESSIONAL SERIES

6.5" Midrange Extended Drivers Ultimate Sounding Quality

APPLICATIONS

These drivers are the Studio Monitoring versions of models SP1060/1070. All the PHL AUDIO recipes for exceptional sound transcription have been integrated, resulting in full expressiveness in the so sensitive midrange band, against the sole counterpart of 1dB loss of sensitivity.

Their preferred frequency band extends from 400Hz to 4000 Hz (single unit) while the close coupling of a pair authorizes X-overing from 300Hz. The optimum acoustical load is situated under 3L volume, sealed or tuned around Fs.

DESIGN CONCEPT

PROGRESSIVE WAVE DIAPHRAGM optimized for low-midrange extended frequency domain.

The M17/E17 Series design is based on the PROGRESSIVE WAVE DIAPHRAGM mechanical behavior of the radiating area.

In this principle, the membrane is considered as a mechanical transmission line which should receive a constant given velocity together with critical damping properties to work properly.

This leading edge technology offers substantial sonic advantages. Among them: very low mechanical energy storage in the cone (so avoiding standing waves) which ensures coherent sound, fast transients, stable sound imaging, high sensitivity, wide frequency range and very-low directivity pattern.

COMPACT MAGNET SYSTEM. Its design has been specially 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 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 **130 W AES**
Reference efficiency (1W @ 1m) **96 dB SPL**
SPL max (continuous) **113 dB SPL**
Usable frequency range **300-5000 Hz**
Environmental withstanding **Outdoor+**

ARCHITECTURAL SPECIFICATIONS

NOMINAL DIAMETER : 166 mm.

FRAME : High tensile alloy pressure die-cast basket with patented INTERCOOLER SYSTEM.

MAGNET SYSTEM : 1.5" highly energized, heat extracting design with flux stabilizing ring.

VOICE COIL : High-temperature stabilized copper-clad aluminum ribbon wound on vented, high-strength glass polyimide.

CONE ASSEMBLY : High-strength cellulose fiber cone impregnated and coated on both sides with damped resins, fitted with fabric dome, high-speed flat, damped surround and acoustically damped rear cavity.

SPEAKER MASS : 2.15 Kg.

