

STEREO PHONO AMPLIFIER

● Separate MM/MC amplifier circuitry ensures ultra low noise ● Highly precise equalization with only ±0.3 dB RIAA deviation ● Versatile impedance switching with three settings for MM and six settings for MC ● Gain switching enables high gain of up to 70 dB ● Three analog player inputs with separate settings memory ● Balanced and unbalanced analog outputs ● Polarity selector for balanced outputs





The Ultimate Phono Equalizer Amp — Separate circuitry for MM and MC ensures ultra low noise performance and outstanding RIAA precision. Versatile load impedance selector with three settings for MM and six settings for MC brings out the best in every cartridge. Subsonic filter, and high gain capability of up to 70 dB with gain switching. Three analog player inputs with separate settings memory for each input.

The analog phono record is experiencing a quiet boom among discerning music lovers. It goes without saying that a phono equalizer of high quality is essential to extract the enormous richness of sonic information engraved on vinyl records. Furthermore, the selection of tonearm, cartridge and other parts of the playback system requires a thorough understanding of audio fundamentals. This is a field where some investment of time and effort can yield immensely satisfying results.

Accuphase has gained considerable expertise in designing and building phono equalizers, either integrated in preamplifiers or available as option (AD-2810 and AD-20). In response to the wishes of audiophiles worldwide, we have now developed the C-27 as a high-end standalone phono equalizer amplifier, capable of exploring the possibilities of the analog disc to the fullest.

Because the output signal level of a record player is extremely low, high-gain amplification is required before supplying the signal to subsequent stages. Distortion and noise should be kept to an absolute minimum, and excellent linearity from low to high frequencies is also a must. In the C-27, these goals are achieved by employing completely separate amplifier sections for MM and MC, each with optimized circuit topology and strictly selected parts for no-compromise performance. S/N ratio, THD, high-frequency characteristics, linearity and all other parameters approach the ideal in performance. What's more, the C-27 is perfectly equipped to accommodate a wide range of cartridge output voltage ratings and load impedance requirements. To ensure optimum matching, three different settings for MM and six different settings for MC can be selected.

Designed to raise the bar for phono equalizer amplifiers, the C-27 will bring out the characteristics and musical qualities of any phono cartridge to optimum effect, providing pure music enjoyment from those legendary analog discs.

> IMPEDANCE SELECTOR

C-27 Functions and Features





C-27 Circuit Diagram

Completely separate MM and MC sections

One of the biggest challenges for a phono equalizer amp is the problem of noise. How to achieve high S/N ratio is a crucial point. In order to precisely match the circuit configuration to the different requirements of MM and MC cartridges, the C-27 features separate sections employing purpose-selected components and optimized operating points. This uncompromising approach results in outstanding S/N ratio, minimum distortion, and excellent frequency response characteristics. Amplifier performance finally approaches ideal levels.

MM amplifier section

The MM section must provide a high impedance input while also reducing residual noise. To achieve this, FET devices were selected for the initial stage. The circuit configuration is defined as "3-parallel low noise FET buffer amplifier" + "6-parallel ultra low noise transistor differential push-pull circuit".



MC amplifier section

The MC section must provide low internal impedance over a wide range to properly handle the output voltage of MC cartridges, which is a level of magnitude lower than that of MM cartridges. Residual noise of the amplifier therefore needs to be kept to an absolute minimum. This is achieved by using an "8-parallel ultra low noise transistor differential push-pull circuit" to guarantee high S/N ratio.







Performance Graphs

Remarks

 This product is available in versions for 120/230 V AC. Make sure that the voltage shown on the voltage rating and destination country.
The shape of the AC inlet and plug of the supplied power cord depends on the voltage rating and destination country. This product is available in versions for 120/230 V AC. Make sure that the voltage shown on the rear panel matches the AC line voltage in your area.



Other Functions and Features