



BAT VK-P12SE PHONOSTAGE



NEW ENGINEERING ENHANCEMENTS INCREASE SONIC PEDIGREE

The first gain stage of the VK-P12SE is completely revised to provide a substantially lower noise floor. Plus, a reconfigured output stage incorporates four high-gain 6C45 tubes. The result: Unfettered dynamic ease and a grand sense of scale.

A "TRANSFORMATIONAL" TRANSFORMER-COUPLED OUTPUT STAGE

Like the elite VK-33SE, VK-53SE, and REX II preamplifiers, the VK-P12SE features a transformer-coupled output stage. Electrically, it significantly improves the performance in every measured respect. Sonically, it offers enhancements in every area of musical reproduction.

SUPERB FLEXIBILITY, VISCERAL BASS, THREE-DIMENSIONAL TEXTURE

The VK-P12SE's dual-mono construction and enormous energy reserves are matched by extensive flexibility in cartridge loading. An upgraded power supply contributes to greater transparency, three-dimensional texture, and more responsive, visceral bass.

SPECIFICATIONS

Outputs	Transformer-coupled	Signal-to-Noise Ratio	Direct (Low) - 73dB (High) - 76dB
Inputs	1x RCA + 1x XLR		Set-up (Low) - 86dB (High) - 93dB
Outputs	1x XLR	Absolute Polarity	Switchable
Gain at 1kHz	Direct (Low) - 45dB (High) - 60dB	Power Supply Energy Storage	200 joules
	Set-up (Low) - 65dB (High) - 80dB	Power Consumption	150VA
Cartridge Loading [Resistance ohms]	Selectable from 100 to 47k	Dimensions	19" x 5.75" x 15.5"
Cartridge Loading [Capacitance pF]	Selectable from 0 to 1000	Weight	40 lb.
Tube Complement	4x 6922, 4x 6C45, 2x 6SN7		

A Special Edition version of BAT's new VK-P12 phonostage, VK-P12SE includes numerous engineering improvements to offer greater information retrieval and supreme musical presentation. The first gain stage is completely revised to provide a substantially lower noise floor. In addition to the transformer-coupled output transformers, a reconfigured output stage incorporates four high-gain 6C45 tubes. They provide high-current and low-output impedance, establishing superb drive and crystalline transparency.

BALANCED ARCHITECTURE

The VK-P12SE is fully balanced from input to output. For the best possible performance, the phono cartridge should be used in a matching balanced configuration. Many turntables and tonearms allow for such a termination. In some cases, even if only RCA connectors are present on the arm, the cartridge can still be used in a balanced configuration by using a specially designed cable.

TEN-TUBE, TRANSFORMER-COUPLED, ZERO-FEEDBACK DESIGN

The VK-P12SE features an all-tube zero-feedback design that combines the benefits of balanced operation with complementary vacuum-tube current sources. Dual-mono construction and enormous energy reserves are matched by extensive flexibility in cartridge loading. The first gain stage achieves a very low noise floor

by using premium Vishay Bulk Foil™ resistors that replace metal film resistors in critical circuit areas. The output stage employs four powerful high-current 6C45 vacuum tubes for improved gain and better drive capability. Like the elite VK-33SE, VK-53SE, and REX II preamplifiers, the VK-P12SE features a transformer-coupled output stage. This new design replaces BAT's venerable Six-Pak of output capacitors with custom-designed output transformers. The new transformer-coupled output stage proves substantially superior to any capacitor in maintaining a purity of signal transmission.

FLYING RIAA NETWORK

Among the benefits of the VK-P12SE's differential RIAA network are ease of adjustment and improved common mode noise rejection. This circuit is also completely passive and has fewer components than a more traditional implementation. The ease of factory adjustment translates into improved matching of the RIAA curve to specification, with an RIAA error typically not exceeding 0.1dB! With the BAT Flying RIAA network, you can be assured that all of your records sound the way that the recording engineer intended.

VACUUM-TUBE CURRENT SOURCES

Vacuum-tube current sources further improve the linearity of any gain stage to yield a more open and textured sound than a simple resistor-based solution. In the VK-P12SE, dual 6SN7 vacuum

tubes act as current sources for the second gain stage. They complement the inherent strength of vinyl playback in that the finest texture and harmonic structure of musical instruments are portrayed with greater delicacy.

SELECTABLE STEP-UP TRANSFORMERS

The VK-P12SE features second-generation step-up transformers that provide as much as a 20dB improvement in signal-to-noise ratio in comparison to direct mode operation. This allows the customer to successfully use even the lowest output moving-coil cartridges. With up to 80dB of gain available, no signal is too small!

SUMMARY

Why did we build a Special Edition of our highly regarded VK-P12 phonostage? To create a phonostage that offers even greater ability to retrieve the finest musical detail from your record collection. The engineering execution simply conveys the manner in which we accomplished this goal. We hope you can audition the VK-P12SE in your own system to understand why it is indeed something special. Of course, all VK-P12SE phono stages can be further upgraded to VK-P12SE SuperPak status, maintaining the commitment to a rational upgrade path that has earned BAT tremendous customer loyalty.