



Newsletter September 2006

EAT Cool Valve ECC 803S

The Cool Valve ECC 803S is the finest twin triode with separate cathodes available in today's market. Double triode means the valve is built with two totally independent triode systems.

It is a known fact that all existing productions of ECC803 are mass produced. They have lost the magic of hand made products made by skilled personnel. We tried to find a way to make a better product for high requirements of exclusive amplifiers.

The most demanding tube for both sound and build quality is Telefunken ECC 803S. This original tube can only be sourced from old inventories and not reliable sources offering no warranty period. There is the risk of forgeries, functionless valves or overpriced goods.

We have set a high standard by trying all existing ECC 803S by defining sophisticated selection methods to get only the very best to our demanding customers.

The selection procedure uses several measurements. All measurements are performed after a long burn-in procedure and thermal stabilization of its parameters. Only a few valves pass the Selection process and even fewer pass the strict Diamond selection.

1. Static parameters are measured on a Tesla BM215A with additional measurement devices.

The Slope difference is measured in several steps from 0.5mA to 2mA. The result is a percentage difference between both triodes inside the valve.

The Anode Current difference is the difference in the anode current response between both triodes. It is measured in four steps. The result is a percentage average of these differences.

2. Dynamic parameters are measured on the Audio Precision instrument.

Distortion and noise of both triodes is measured according to Telefunken typical operation datasheet "Resistance coupled single ended amplifier" by the Audio Precision instrument.

The inseparable part of the Cool Valve ECC 803S is the EAT Cool Damper. EAT developed a special high temperature glue to fix the damper to the valve glass envelope. This glue is designed to transform vibration energy into thermal energy, which is then dissipated as heat. The Cool Damper is a truly effective vibration & micro-phonic absorbing device.

The extraordinary time consumed in the above mentioned measurements and the fact that only the very best can be used for Selected version and Diamond version lead to the exclusive price. It must be appreciated that Diamond version is very limited as only a few valves qualify for this category.

Now you can enjoy upgraded high fidelity sound in your system.

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