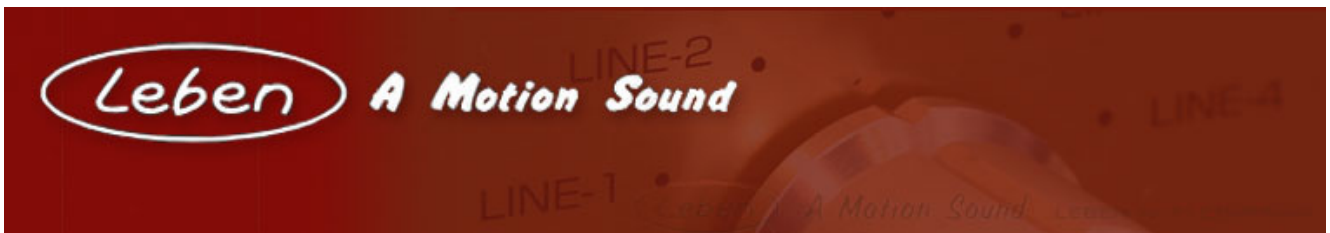


Buizen voor – eindversterkers



Leben RS-28CX Voorversterker

A representative preamplifier equipped with **NFB type** equalizer is the MARANTZ Model: 7.

This is a 3-step amplification NF equalizer based on 12AX7, which applies NFB from the 3rd stage cathode to the 1st stage cathode.(so-called "K-K type").

The advantage of the NFB type is that it does not require a high gain level and is not very sensitive to tube quality. However, the impedance of NFB at high frequency range becomes very low and results in a negative effect – the sound becomes hard and dry.

The NFB type is usually used as it is an easier way to attain a good signal-to-noise ratio.

As for the **CR type**, a masterpiece preamplifier equipped with the CR type equalizer is the vintage Harman-Kardon Model:

“Citation IV”.

CR type equalization requires a high gain level and is much more sensitive to tube quality.

Since tube quality will be directly amplified, the finest possible quality tubes are needed for this type of equalizer. Moreover, proper implementation is more difficult.

However, **the CR type is much more superior sonically to the NFB type**, being very stable in the high frequency range and is able to reproduce a very high quality sound especially when high quality tubes are used.

WINNING HISTORY

Country	Publishments	Name of Award
France	Revue du Son	5-STARS (July/August, 2006)

RS-28CX is equipped with the **CR type equalizer** based on GE(General Electric/USA) **12AT7** authorized by **J.A.N.(Joint Army & Navy) standard of US Army**, and can reproduce a very high quality and clear sound **without adding any NFB**.

To avoid compromising on sound quality ,one of the solutions we adapted to totally protect the sensitive CR type equalizer from negative effects was to develop a separate power supply unit.

Likewise, some of the finest available high-end audio components were selected for the RS28C to keep the deflection of the RIAA curve below +/-0.3%.Of course, the phono equalizer is only one of the strengths of the RS28C. Another notable feature is a very strong output voltage created by the Dual-Triode Tube 6CG7 of General Electric(USA) used for the line stage. Leben further selected the best quality tubes out of these and constructed a powerful SRPP type amplification which can supply power amplifiers with a maximum 80V of clean output signal.

In considering the fact that output voltage of a standard preamplifier is more or less 40V, the RS28C can output about two times as much voltage, which will drive power amplifiers with very low input sensitivity. Likewise, for using the RS28C with a high sensitivity power amplifier, a 5-step attenuator is present in order to eliminate residual noise from speakers.

Leben also included two outputs (one fixed and one variable) in order to cope with requirements for adding a **Sub-Woofer**.

RS-28CX SPECIFICATIONS

Tube compliment	2 x 6CG7 (G.E.) 2 x 12AT7 (G.E.) 1 x 5Y3WGT	
Phono amplifier	Gain	20.2dB
	RIAA Curve	Less than +-0.3dB.
	Max. Input	400mV (2KHz.)
Line Amplifier	Gain	25.2dB
	Max. Output	80V (Variable) & 80V(fixed)
	Output Impedance	580 Ohms
	Remaining Noise	0.03mV
WEIGHT	Main Body	7.0 Kg
	Power Supply	6.5 Kg
DIMENSIONS	Main Body	352(W) x 240(D) x 175(H) mm
	Power Supply	233(w) x 240(d) x 175(H) mm
ATTACHMENT	AC Power Cable Power Supply Connecting Cable.	

Technical Specifications

“GENERAL ELECTRIC”(USA) J.A.N. STANDARD TUBE 12AT7

The Phono equalizer Circuit of CS-30EQ is of CR type RIAA

equalization design with zero feedback in order to bring out the superior characteristic of the 12AT7 which is authorized by J.A.N.(Joint Army & Navy) standard.

GENERAL ELECTRIC”(USA) HIGH OUTPUT TUBE 6CG7

The line stage circuit uses the Twin-Triode Tube 6CG7 of General Electric(USA) SRPP system, and can supply a signal of up to 80V to the Power Amplifier.

Therefore, RS-28CX can drive all kinds of Power Amplifiers of Low-Sensitivity or Low-Driving capability.

HIGH-GRADE PARTS

The highest quality available components(Condensors, Resisters, etc) are used for all essential parts which affect the sound quality. a high grade Detachable AC power cord is included.

INDEPENDENT POWER SUPPLY UNIT.

In order to shut-off any influences from the power transformer to the main circuit,the Power Supply Unit is housed in a seperate chassis.

OTHER FEATURES

- Muting 30 minutes after Power-On.
- Natural wood Side Panels.



Leben CS 1000 P Eindhoven

- High power output tube KT120(Super KT88)
- 100W/ch(1KHz) at Pentode circuit (70W/ch at Triode).
- Pentode/Triode selector switch
- Bias adjustment with a Cathode-direct meter
- Several type of output tubes are applicable by adjusting the cathodal electric current.
- Newly developed Orient-core output transformer
- A minimum loss and a Superior high-frequency
- Flat and wide Frequency Response
- A wide frequency response from 10Hz to 150KHz(-0dB) caters for digital audio formats such as SACD/HDCD.
- High rigidity solid aluminum insulators
- OTHER FEATURES
- Super-high sensitivity bias meter made by a long-established manufacturer.
- High-grade Metal glaze resistorals of below 1% error margin.
- High-grade 41-steps Detent Volume of ALPS

CS-1000P SPECIFICATIONS

TUBES COMPLIMENT	KT120 x 4 6922/6DJ8(ECC88) x 2 6CG7/6FQ7 x 2
OUTPUT POWER	100W x 2 at 1KHz.
FREQUENCY RESPONSE	10Hz – 150KHz. (-3dB)
INPUT SENSITIVITY	0.4V at 50W
INPUT IMPEDANCE	100K Ohms.
OUTPUT IMPEDANCE	4/6/8/16 Ohms (Selectable)
POWER CONSUMPTION	
WEIGHT	23.5 Kgs.
DIMENSIONS	455 (W) X 200 (H) X 335 (D) mm
ATTACHMENT	Detachable AC Power Cable x 1