



A DIVISION of VINTAGE TUBE SERVICES



Ultra-Fidelity Audio Co. Announces its line of Electronics, The

“ MEN of SCIENCE ” Line

Introducing the exclusive world premier of the Ultra-Fidelity Audio, Khron-Hite UF-101 Amplifier!

A true scientific instrument not just another home entertainment product!



One of the greatest and most significant accomplishments in the history of high fidelity audio electronics.

The Krohn-Hite story & my search for the ultimate in sound & music

Have You Ever wondered why such super companies as H.P., Western Electric, Altec, RCA, Gates, Tektronics or General Radio, never made a Super, Super, tube Amp? What I am talking about is using the Big & powerful resources that a major company has, the BEST, most famous engineers, and the most sophisticated no compromise design to make a truly advanced, superior amplifier. One that is far, far, above & beyond the entire world of the Hi-Fi consumer universe & it's so called "luminary's". Even beyond everything ever done in Japan!

Well, there were such units made. As with the building of Vintage Tube Services, I did much long hard research & by sheer grit, drive & some luck found them. When looking back, EVERYONE ((especially when they find out who the designer is, will think, How did these get missed!!!))

Now after quietly collecting every unit I could find over the last 30 Years ((and again, as with V.T.S., 30 YEARS of learning, studying & perfecting techniques)) I have now mastered rebuilding and restoring them & have enough of them to put together nice, fully matched pair's for the ultimate enjoyment of music by others.

These Historic amp's will only be available until the dozen or so pairs are sold.

Who would be interested in such amp's? Those interested in hearing & enjoying one of the finest, most refined, organic & yet at the same time the fastest & most vivid, music machines ever made.

Far beyond just a sound stage with width & depth, when supplied with a good enough analog source (vinyl or reel to reel), and TRULY high quality speakers these amp's supply a very solid & consistent 3 dimensional sonic envelope or bubble that is simply bewitching and beyond anything else I have ever heard!

I will spare You any more audiophile blather words, however I will share an odd effect that I have NEVER had with any other amplifier in 40 Years of collecting & auditioning the worlds greatest amplifiers. I still say to myself each time when playing these amps (partly, I think because of their total speaker damping & massive lack of inter-transit and amplifier generated noise.) "Is this the same recording I have been hearing for years that I just put on? It sounds so different it must be a different record!"

Who Is Khron-Hite?

The Krohn-Hite corp. has been & is still a world leader in "state of the art" Precision Calibration, Precision Phasemeters, Distortion Analyzers & Ultra Low Distortion, Wide-band Power Amplifiers. You probably would not want to spend an evening listening to their current solid state offerings, but the tube units that were designed by the famous Mr. Richard Burwen in 1953 at the age of 26, just graduated out of Harvard University ((once properly re-built)) will put a smile on your face, year after year, for life!

Technical

- The most technically advanced circuit ever developed for a tube audio amplifier, not designed as a "home entertainment" product but a true (and still in 2018) "state of the art" scientific instrument! And still likely to be 100 years from now!
- Frequency bandwidth ± 3 db 0.08 cps to 80k! (Bass Anyone)
- Phase Distortion/shift less than ± 2 degrees max. deviation from linear phase shift (0.5 cps to 30kc.)
- Input and Driver Circuit: Conservative values of gain and phase shift at all frequencies up to 20 megacycles (20,000,000 cycles).
- Dynamic range 110 db
- Distortion ratings that look more like a dry solid state amplifier than a juicy tube unit!
- Output rise under 5 microseconds

Recommended Use

- To drive very high quality, ultra hi flux density, moving coil loudspeakers & Reproducers.

Construction Details

- All parts made in USA and Germany by the all time classics.
- Main Electrolytics are all computer grade by CD, Mallory & Sprague from 1988-2004 (Pre-changeover).
- All main signal caps are vintage glass seal oil.
- Main audio supply buckets & swing bypass capacitors are oil immersed, ultra hi-power, hi-current, hi-speed pulse types in a speed/current class NEVER EVER used in an amplifier before! (The latest "Start of the Art" current production.) Made in the USA by a company that has been at it for 108 years.
- Power Switch is a true industrial Electroschalt® Corporation unit, it is still made at the original factory in Weymouth MA. It now costs \$158.00!
- DOUBLE choke & cap in series on power supply. (I have never seen this in any other power amp in my 40+ years.)
- Each amplifier takes me hundreds of hours to rebuild.

Richard Burwen Condensed History Timeline

1949

During the summer of 1949 between semesters at Harvard, he designed a tracking band-pass filter for Bell Laboratories. (A division of Western Electric).

1954

At Krohn-Hite Corp. Richard designed the UF-101 Ultra-Low distortion Power Amplifier. Using type 6550 output tubes in a very sophisticated and elegant circuit, this amplifier, rated at 0.005% distortion was manufactured in small quantity for 20 years.

1963

N.A.S.A. Pioneer Spacecraft Magnetometer. In 1963 there were no low-power integrated circuits. His spacecraft magnetometer circuits successfully measured the magnetic field of the Moon from orbit for several years.

1970's/80's

As a consultant Mr. Burwen helped Mark Levinson with the first products of Mark Levinson Audio Systems. Burwen Laboratories analog Modules were incorporated in Mark Levinson's famous LNP-2 Preamplifier.

1984

Mark Levinson's Cello Ltd. product, the Audio Palette tone control system was a remarkable success and manufactured for many years. Mr. Burwen submitted this schematic, description, and tentative specifications and features of a program equalizer to Cello Ltd. on March 3, 1984 and it became the basis of the Cello Audio Palette.

1990

About 25% of the worlds hospital MRI systems used Richard Burwens circuits in their Copley Controls model 264 MRI gradient amplifiers.

Ultra-Fidelity Audio

Audio Equipment & Systems

7091 Eva Dr., Rockford, MI 49341

The Home of Serious Music

Call Andy Bouwman

Ultra-Fidelity Audio

(616) 794-9680 or

Vintage Tube Services

(616) 454-3467

www.Ultra-FidelityAudio.com/Krohn-Hite

Mr. Burwen is the author of 40 technical articles and has been granted 14 patents so far by the U.S. Patent & Trademark Office.



The pair shown on the Front Cover is a perfect mirror matched pair serial # 829 & 924.
Made about 1966 \$ 26,000



Perfect mirror matched pair serial # 990 & 991. Made about 1968 \$ Call. Only consecutive serial # pair ever seen!

Transcend the world of consumer “Home Entertainment” and enter the world of “Ultra-Fidelity”