Allnic A-10000 DHT

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Super-large speakers are packed with a series of 3-pole class A 100W

Griffon's Poseidon is a twin-tower speaker with a mid- and high-end section in separate cabinets for each channel. With a total of 34 units in a height of 199 cm, the speaker system weighs as much as 900 kg. Dynaudio's Evidence Master is a 205cm high, 135kg, three-way speaker with four woofers, two midrange units and two tweeters per channel coaxed into virtual coax. Both models must be Jaguar's extra-large high-end speakers. The number of units and the volume, but the impedance is 4 Ω, so the key is the matching of the power amplifier, and I recently watched a tube amplifier that 'lit'. It was a flagship monoblock power

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amplifier A-10000 DHT from Allnic, a South Korean manufacturer.

Drives parallel triode KR T1610 in parallel single

The A-10000 DHT is a 'work' in which all Nick's know-how and perspective on the production of tube amplifiers have been mobilized and concentrated enough to not know where to start writing. Start by talking about the most noticeable output tube. At 33.5cm in height, the KR T1610, the largest of all existing audio tubes and the highest output of the series of triodes, was equipped with two units per channel. Two per channel is a single (parallel single) driven in parallel rather than push-pull. Single drive for Class A amplification delivers 100W (8Ω) per channel.

The KR T1610 is a series of three-pole tubes produced in the Czech Republic by the end of the 1990s by KR Audio. I listened to Park directly. 'KR T1610 has a very high plate loss of 150W. The 300B is only 40W. In short, it can produce a large output. And the internal resistance is extremely low. Only 370Ω (700B is 300B). Moreover, the low mu (voltage amplification factor) of 3.8 makes it the ideal specification for an audio output tube. '

Class A Amplification with Full DHT Configuration

As the model name suggests, the A-10000 DHT is a direct heated triode (DHT). Rather than the heat-dissipating type that emits electrons from the cathode by the heated heater, all the direct-type triodes that directly heat the filament to release the electrons were put into ultra-short tubes, drive tubes, and output tubes. The VT50 (the British military for the HL2) was mounted on the ultra-short tube and one KR242 per channel on the drive tube.

Then why did you leave all the amplification to the series triode? I made a decision and asked Park in detail. 'Serial triodes are native audio tubes. It is different from a heat pipe or a 5-pole pipe. The sound coming out is pure, clear, transparent and musical. But if you use a DHT on the output tube and a heatsink on the drive tube, this is not a perfect heat pipe sound. The heat pipe sound is heard. So it must be All DHT, so it's hard to make. '

Secrets hidden in drive tubes and ultra-short tubes

In fact, it is the drive tube, not the output tube, that determines the sound quality of the tube amplifier. Even if the same output tube, depending on the drive tube I heard a lot of cases of different stars. The drive tube of the A-10000 DHT is KR242, and even after looking through the database sites of famous vacuum tubes, the characteristics were unknown. That's because the KR242 is a vacuum tube that Park's president, Olnick's, specializes in.

'There is a series of triodes called RS242 from Telefungen, which are similar to KR242 but difficult to

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obtain. So I put a special order on KR audio. That's why we use only vacuum tubes all over the world. The KR242 is close to the output tube, with plate losses reaching 15W. If the drive tube is made small, it will not drive 'underfeed', that is, the output tube KR T1610 enough. Therefore, it was designed as an output tube drive tube and ordered. In addition, the mu of the drive tube is good 20-30, but the direct heat pipe is difficult to exceed 20, set to 16. The KR242 is the best spec for direct drive drives. '

The VT50, used as an ultra-short tube, has a mu of 27, a plate resistance of 18 mA, and a gm (current amplification factor) of 1.5 mA / V. High mu and relatively low internal resistance make it suitable for use as ultrashort tubes. Although there is a WE102 as a series of triodes showing similar mu (30), this vacuum tube has a disadvantage in that its internal resistance is very high (53 kPa). It is also a line that is well known for its pioneering expertise and know-how.

Not everything you see

This completes the full-series triode amplification system from the ultra short tube to the drive tube and the output tube. I looked closely at the appearance. A-10000 DHT is monoblock, so there is one block per channel, which is exactly symmetrical. From the front, both blocks face the center, the VT50, the shortest tube, and the drive tube KR242, facing the outside. Looking down from the top, the power transformer is connected to the power transformer and the speaker cable is output transformer. Between the two transformers is the four electrolytic capacitors (US CDE 550C) used in the smoothing circuit, the choke transformer, followed by the interstage transformer. Now, Olnick's trademark transparent polycarbonate chimney, a classic current meter, and two side handles each add visual satisfaction.

But it's not the world and it's not the amplifier either. It is no exaggeration to say that Olnick, which celebrated its 26th anniversary this year, has almost mobilized the creativity and technology that has surprised the world. Firstly, the Permalloy output transformer, which is also related to Olnick's mission. One of the reasons Olympic amplifiers are hard to imagine tube amplifiers is their low frequencies, fast speeds and flat frequency characteristics, which is why these permalloy output transformers. Permalloy, a nickel-based alloy, has a high initial permeability, which has a big advantage of increasing L value (capacity to form electromagnetic force) even when the coil is wound small. Basically, the smaller the coil, the better the transformer is, because the more the coil is wound, the more the sound is distorted and more variable.

Another trance hidden in the output transformer. Olnick's FEOT (Full Engagement Output Transformers) is a transformer winding technology that employs a secondary coil for any speaker, such as 4Ω, 8Ω or 16Ω. So full engagement. Normally, the output transformer winds four secondary coils (0Ω, 4Ω, 8Ω, 16Ω) and taps them out in pairs, which causes the other two windings to break when they are paired. The efficiency, which is directly related to the driving force of the bass, is inferior. Furthermore, the resting coils are parasitic oscillations, like RF antenna coils, causing harm to the distorted signal towards the speaker. This high efficiency and parasitic oscillation-free FEOT technology allows the A-10000 DHT to achieve 20kHz square waves in a single drive.

The last thing I noticed is the existence of interstage trance. It is literally a transformer placed between stages. In the A-10000 DHT, it is inserted after the drive tube KR242 and drives the output tube KR T1610 strongly. In fact, the drive stage needs to have enough control over the grid of the output tube, so that the output tube can work diligently and produce a well-balanced sound. However, if two vacuum tubes are put in the drive stage and the two stage amplification causes noise and distortion problems.

The driving transformer solves this problem and eliminates the lethal gas current found in conventional R-resistance-capacitor-coupled outputs. This is due to the fact that the driving transformer whose DC resistance of the secondary coil has a maximum of 2 kW eliminates the grid leakage resistance itself of the output pipe, which has a maximum of 1 kW. This is because gas currents with less than one or two harms such as negative distortion and output degradation are more likely to occur when the output grid grid leakage resistance value is larger.

Hearing

Gryphon Poseidon was handed over to the power amplifier A-10000 DHT. The preamp mobilized Olnick's L-5000 DHT, which is also a full linear triode system. Poseidon is an active type (low-mid range and passive type) with a built-in power amplifier that outputs 1000W at 4Ω in the low range woofer, so a separate preamplifier is required. At 10000 DHT, the other pair was connected to the built-in power amplifier of the Poseidon low end woofer.

Cheek Korea <Return To Forever> -From 'What Game Shall We Play Today', the speaker's grip on the amplifier is clearly observed. Once the sound stage is wide and spread out. At the same time, Joe Farrell's flute (top right), as well as the electric piano (bottom left), drums (center right) and vocals (center left) are vivid. It's not just appearance. In the flute playing, the subtle nuances of the wind instruments that contain human breath are vivid. In the 'Sometime Ago-La Fiesta', the percussion sound that was usually tingling is crisp and hard. The sound of the acoustic bass is so crazy. Yet the piano's delicate touch oozes brightness and water.

Andris Nelsons, Boston Symphony Orchestra / Shostakovich's Symphony No. 9, 1st movement (DG) -As soon as the song began, a vast subdivision spread and countless vegetation smells filled the listening room. If you pay 100W in a single Class A tube, you won't be able to beat the orchestra. The same applies to listening to an actual orchestra, but the bass and organ bass are not the sound but the movement of the air. Timpani and the crown are eloquent, and the woodwind blows like a warm spring breeze. In the tutti part, no noise was felt at all. No, I found myself more and more in charge.

Santa Santa's album -Europa picked out how to reproduce howling of an electric guitar. Not surprisingly, Elek Guitar sobs like a wolf howling over an ambitious night. Its vivid texture is thrilling. I was surprised at the thickness of the sound stage. Deep behind, there's a drum, with an electric bass in front of it, like a sandwich. In this song, I felt the generous driving force and stamina of the A-10000 DHT. The less the power of the amplifier, the poorer the speaker, the sooner you get tired of listening to the highs.

Pajil Say <Say Plays Say> -'Paganini Jazz' is a song that lets you feel almost all the expressions and nuances of the piano. Powerful low-end guns are very squeaky, and even a sharp dagger can be felt in high-pitched guns that seem to come out without a drop of blood. The chord accompaniment is smooth and elegant like a feather. As audio goes to the high end, it draws detailed changes of the expressions of instruments and vocals one by one. In the latter part, even the sound of murmuring by Pajil Say sounds like a separate recording. This is a testament to the high SNR of the entire system including the power amplifier. At the end, piano notes almost explode almost at the orchestra level. It just makes a laugh.

Kwon Jinwon <Difference> -'Happy Birthday To You'. This time, Kwon Jin-won's moist tone seems to be a bit embarrassing. The piano also sounds cute and sweet. The presence of the male chorus, which was usually difficult to hear, is also vivid. A-10000 DHT's two Janus faces both hands and feet. With the advent of Bandoneon, I realized for the first time that A-10000 DHT was a tube amplifier. The tube's unique harmonics and reverberations may have finally come to light with a musical instrument called Bandoneon, or it may be because the amp has expressed the music signal 'as is' without any coloration,

distortion, or time lag.
At the end of happy music, I replaced the speaker with the Evidence Master, Dynaudio's flagship model. Dynaudio is a speaker that many people love, but it's hard to come by, so it's hard to burn. Especially, the Evidence series is famous for being more demanding. But I seemed to see the magic of Dynaudio's Evidence Master Speaker. As soon as they matched the A-10000 DHT, the presence of the speaker disappeared and made it into a real venue. By this time, high-frequency, low-end, sound field, texture do not need expressions, sighed out. Think about how good it would be to be able to listen to music with this system. Isn't it the dream of audio files?

General comment

The poster of <Friend>, starring Jang Dong-gun and Yu Oh-sung, says 'When we were together, we had nothing to fear.' The A-10000 DHT did. Three well-established series of three-pole, linear, tripoles, the KR T1610, KR242, and VT50, a robust power transformer for driving it, a fast speed and wideband permalloy output transformer, and an interstage transformer for powerful driving of large output tubes. There was nothing to fear '
When the orchestra was played, there was no blockage or roughness from the soft sound to the centiuti, and the stage was vastly wide and thick. It didn't seem to be a pin point in place where every instrument should be. Individual instruments, such as piano, flute and bass, and vocal vocals showed almost all the expressions and expressions he could create in real time and in a sensuous way. Howling of the howling Elek Guitars sniped his heart.
Even Griffon Poseidon, who looked at even the most famous amps, seemed to be petty, and when he met the A-10000 DHT, he got upset. He is a martial arts player who is striving for a 100W power that is pushed toward him as a tidal wave and transformed into an elegant ballerino in the delicate touch of a single-column triode. In a word, this early large aircraft was squeezed and unfolded. The A-10000 DHT, the flagship monobloc that leads Olnick's most powerful power amp corps, is the O'Nick flagship.

Distributor Audiomentos (031)716-3311
Price Distributor Inquiry
Vacuum tube KR T1610, KR242, VT50 (HL2)
Effective output 100W
Gain 28dB
Transformers Super Nickel Alloy Transformers
Size (WHD) 44 × 46 × 54cm
Weight 45 kg

Tag #Allnic_ A-10000 DHT #OLNIC #Power Amplifier #Vacuum Amplifier #High End Audio

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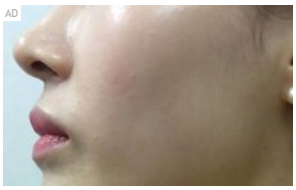

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