ELYSIAN

DHT Class A, Parallel Single-Ended Mono Power Amplifier

User's Manual

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SAFETY PRECAUTIONS

IMPORTANT SAFE GUARDS PLEASE READ CAREFULLY ALL THE FOLLOWING IMPORTANT SAFEGUARDS THAT ARE APPLICABLE TO YOUR EQUIPMENT.

CAUTION!

NO USER SERVICEABLE PARTS INSIDE.REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

SAFETY

1) Read the User's Manual and refer to it frequently during use of this product. All the safety and operating instructions should be read before the product is operated.

2) Retain the User's Manual. The safety and operating instructions should be retained for future reference.

3) Follow Instructions. All operating and instructions for use should be closely followed.

4) Power Sources. This product should be operated using only the type of power source indicated on the marking label. If you are not sure of the type of power supply in your home, consult your product dealer or local power company.

5) Grounding. This product is equipped with a three prong IEC connector. Always use power cord with adequate wire cross section and an electrical outlet that is grounded. If you do not know whether the outlet is grounded, consult your electrician or local power company.

6) Power Cord Protection. Power supply cords should be routed so that they are not likely to be walked on or pinched. Pay particular attention to cords at plugs, convenience receptacles and where they exit from the product. Always use power cords with adequate current ratings and safety certifications (UL, CE, TÜV, CSA, etc.)

7) Fuses. For continued protection against fire hazard, replace fuses with the same type and rating of the fuses specified. When changing fuses, completely unplug the AC cord from the wall outlet. If in doubt what fuses to use, contact factory or authorized distributor.

8) Tubes. During operation, the vacuum tubes get very hot. Allow at least 60 minutes after removing power for tubes to cool down. Only after 60 minutes you can remove the protective tube cover (if available), when tube replacement is required.

9) Cooling. To ensure proper ventilation, there should be nothing placed on top of the unit. Ventilation holes should be unobstructed with at least 12" (300mm) of empty space above and around the unit.

10) Turn-off when not using for prolonged periods of time. The amplifier should be turned off when not attended. That extends tube life, saves power and prevents any potential hazardous conditions.

ENVIRONMENT

1) Water and Moisture. Do not use this product near water - i.e. near a bathtub, ash bowl, kitchen sink or laundry tub; in a wet basement; or near a swimming pool or the like. Damp basements should be avoided.

2) Heat. The product should be situated away from heat sources such as radiators, heat registers, stoves or other appliances that produce heat. Also avoid putting the unit in the direct rays of the sun.

3) For indoor use only.

PLACEMENT

1) Accessibility. It is normal for an audio device to run warm if used for prolonged periods. In addition, during operation, the vacuum tubes get very hot. Always place your device away from children and pets to prevent burns.

2) Ventilation. Proper ventilation is critical for safe and reliable operation of all vacuum tube based equipment. This product should not be placed in a built-in installation or rack unless proper ventilation is provided or the manufacturer's instructions have been followed. Never place anything on top of your unit that could obstruct airflow and cause vacuum tubes to overheat and damage the unit. Do not place your unit in a closed bookcase; overheating could occur. Ensure that there is at least 12" (300 mm) of open space above and around the unit.

3) Surface. Place the unit on a flat level surface. Care should be taken to prevent objects from falling and liquids from spilling into the unit. Do not subject the unit to excessive smoke, dust, vibration or shock.

MAINTENANCE

1) Cleaning. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene.

2) Tube replacement. Vacuum tubes have life in the 10,000 hours range. We recommend replacing the tubes after 36 months, if necessary, depending on your listening habits. That will ensure that the unit always performs at its best and tube failure will not overstress other parts of the unit.

3) Biasing the amplifier: The ELYSIAN amplifiers have automatic tube biasing and no user adjustments are required, nor recommended.

SERVICE

1) Replacement Parts. When replacement parts are required, be sure that the service technician uses replacement parts specified by the manufacturer or parts with the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

2) Tube replacement. Should it become necessary to replace the vacuum tubes, remove the AC power plug from the wall and allow sixty minutes (60 min) for the tubes to cool down and high voltage capacitors to discharge. Follow instructions outlined below in the section "Handling vacuum tubes". The protective tube cover with glass panels should only be removed after the 60 minutes period.

3) Modifications. Modifications to the amplifier are strongly discouraged. The unit was designed by experienced engineer and tested for safe and reliable operation. Any modification may pose a safety risk and result in reduced lifetime of the product. Opening the amplifier will void warranty.

Getting Started - About Your Amplifier

Your ELYSIAN Power Amplifier was designed to provide a true high-end performance which is a result of carefully designed circuit and optimized component selection. The design utilizes the highest quality parts, including custom designed, hand-wound transformers and chokes which are the result of Trafomatic's 25+ years of experience in this field.

The design is based on direct heated triodes (DHT) GM70 connected in parallel single-ended configuration, operating in pure Class A. The GM70 tubes are paired with the EML AD1 mesh plate tube and 6SN7 dual triode signal tube. Anode voltage is filtered through a C-L-C combination using high quality electrolytic capacitors and custom designed High Inductivity choke, designed by Trafomatic Audio. Massive encapsulated transformers make it possible for ELYSIAN to deliver 70W of output power in pure Class A.

Fit and finish of the ELYSIAN amplifier are complementing its impressive sound quality and make it a center of attention in any audio setup.

The ELYSIAN has one balanced (XLR) and one single-ended (RCA) input. There are outputs for four (4) and eight (8) ohm speakers.

HANDLING AND REPLACING VACUUM TUBES

Many people have never had experience handling vacuum tubes. Process is very similar to handling incandescent light bulbs. As with the light bulbs, you should not touch a vacuum tube when it is operating since you can burn yourself. Similarly, if a tube is dropped on a hard surface it may break or change critical operating parameters. When replacing the tubes, allow sufficient time, minimum 60 minutes, for the tubes to cool down and internal capacitors to discharge. Only then you can remove protective cover with glass panels (if available) and carefully remove the tubes. Before you insert a tube you should make certain that the unit is disconnected from the AC outlet. Inspect the tube for cracks and physical damage. Make sure that the pins are straight. If you need to straighten the pins, be very careful as that may cause the glass envelope to break, causing the tube to lose the vacuum and fail as soon as the unit is powered on. Carefully align the pins with the socket and gently insert the tube. Replace the protective cover (if available) before connecting ELYSIAN to the AC power.

Never force a tube into the socket.

Should you decide to buy replacement tubes from Trafomatic Audio, rest assured that they were fully tested before the shipment.

BIASING ELYSIAN

The ELYSIAN amplifiers have automatic tube biasing and no user adjustments are required, nor recommended.

PACKAGING

Save the original packaging in a dry place. The packaging has been designed to protect your device from stresses incurred during shipping. Using packaging different from the original increases risks of shipping damages.

PREPARATION FOR USE

1) Place your unit on a flat, stable surface.

2) Power switch, located on the rear side of the unit should be in the OFF (0) position.

3) Plug in the power cord.

4) Connect audio source to one of the amplifier's inputs.

5) Make sure that volume control on your audio source is set to minimum position.

6) Turn on the ELYSIAN by using the power switch located on the rear side of the unit.

7) Allow 30 seconds for the tubes to warm up.

8) Slowly increase volume, to make sure there are no unusual noises coming out of the speakers.

9) CONGRATULATIONS! You are all set and ready to enjoy high sound quality of the ELYSIAN Mono Power Amplifier.

CONTROLS AND THEIR FUNCTIONS

Front Panel

ELYSIAN's front panel is dominated by a large VU meter adding to the amplifier's impressive looks. There are no user controls on the front panel.

Rear Panel

The rear panel hosts:

– AC Inlet of a standard IEC320 type.

– Power switch marked 0/I

– One balanced input marked XLR

– One single-ended input marked RCA

– VU Sensitivity control, which is used to adjust movement of the VU meter dial to suit your personal preferences, considering the overall system sensitivity and listening level.

– VU Light switch, which can be used to reduce the backlight level of the VU Meter for better fit with the dim lit rooms.

– Speaker terminals, in form of the five-way binding posts. There are three terminals, marked 0, 4 and 8 ohm. Speaker wire going to the negative speaker terminal should be connected to the binding post marked with 0, while the positive terminal should be connected to the binding post with marking that corresponds to the nominal impedance of the speaker.

SERVICING

High quality parts and careful design of the ELYSIAN ensure long and reliable operation without need for any maintenance other than that listed in the MAINTENANCE section. In an unlikely case that the unit does not operate as intended, please contact factory or your local distributor for assistance.

CAUTION

Lethal voltages are present inside the amplifier. Do not remove the amplifier's covers. Servicing of the unit should be performed only by authorized service personnel.

SPECIFICATIONS

Class of operation: Parallel Single-Ended (class A), Direct Heated Triode (DHT)

Tube complement: 2x GM70, 1x EML AD1, 1x 6SN7

Input impedance: 47K

Inputs: 1x XLR, 1x RCA

Input sensitivity: 1.5Vpp

Outputs: 4 and 8 ohm

Output power: 70W

THD: 7% at 70W/1kHz

S/N ratio: 82 dB

Frequency bandwidth: 10Hz (-0.6dB) · 60kHz (-3dB)

Input voltage: 230V/50Hz or 115V/60Hz, selectable from inside of the unit

Power consumption: 500VA

Dimensions (WxDxH): 380x560x380 [mm]

Weight: 52 kg per amplifier, 75 kg with the shipping box