

TUBE WORKS

MosValve 500 Operation Notes

- This amplifier was designed primarily for musical instrument amplification. It is an addition to your audio rig which will add warmth and definition to your sound.
- Use MosValve with any preamp capable of producing 775 MV into a 20K load (Virtually any preamp in existence.)
- Use with speakers or cabinets capable of at least 400 watts RMS continuous power. Remember that MosValve can typically produce in excess of 400 Watts/channel under typical conditions common on stage today. At least 400 Watt speakers or cabinets are therefore highly recommended if you intend to use the amp at high power output. **MANUFACTURER IS NOT RESPONSIBLE FOR ANY SPEAKER FAILURE WHILE USING THIS EQUIPMENT.**
- This is a stereo power amp. Mono operation is switchable (both channels input bridged) with the use of Channel A inputs. Normal stereo operation is only possible with the rear-panel switch set to "stereo". Note: Channel B inputs are disabled when MONO mode is used. Only Channel A inputs can be used in this mode.
- It is often advisable to use only one channel for mono (for example, if you have only one speaker cabinet), as the MosValve can produce over 400 Watts with only one channel driven. Use Channel A and set Channel B controls to "O." NOTE: It will not damage Channel B to have no speaker plugged into it while using only Channel A.
- NEVER attempt to power bridge the two speaker output channels together. NEVER parallel or series them into one speaker or cabinet. If power from both channels is used, ALWAYS use at least two separate speakers (one per channel) or separate speaker cabinets per channel. **ALL WARRANTIES WILL IMMEDIATELY BECOME VOID IF ANY ATTEMPT AT POWER BRIDGING, OR PARALLEL / SERIESING OUTPUTS ARE MADE!!**
- A certain amount of heat during operation is normal. The MosValve amplifier is biased in a manner in which even when idling there is some heat present. It is best to keep the amplifier towards the bottom of the rack (coolest air) and avoid obstructions to the vents in the case. **DO NOT DISABLE THE FAN.**
- Never load the speaker outputs with less than 4 ohm loads. These can be single speaker cabinets per output or a combination of two cabinets per output. Examples of cabinet combinations:

Min. 4 ohm per channel: One 4 Ohm system; Two 8 Ohm systems (in parallel);
Four 16 ohm systems (in parallel).

TECHNICAL SPECS

OUTPUT POWER — 500 Watts RMS at 4 Ohms (250 watts per channel, both channels driven),
380 Watts RMS at 4 ohms one channel driven

S/N RATIO — Better than 97 dB at 4 Ohms

HUM & NOISE — Better than -65 dBv at 4 Ohms (No input with controls at 50%)

SENSITIVITY — (For Rated Output): 775 MV (0 dBv)

INPUT IMPEDANCE — Unbalanced: 0 ohms — 20 K ohms; Balanced: 0 ohms — 10 K ohms

PRESENCE CONTROL — +15 dB at 10 KHZ (Response is "flat" with control set at min.)

MAX POWER CONSUMPTION — 120/240 VAC, 1400 Watts

COOLING SYSTEM — Constant-turbulence internal fan with directed tunnel around heatsink

SHORT-CIRCUIT PROTECTION — Inherent to the design, thermal runaway-proof

RELAY — Time-delay and DC fault speaker protection

CLIP INDICATORS — Provides relative clean power indication. Factory set to light approx. 2 dB before clipping at 4 ohm. Note: MosValve circuitry allows an additional 2 - 3 dB of usable head room above traditional clipping before becoming noticeably distorted. Use speaker cabinet with at least 400 Watt power ratings for maximum power situations.

SIZE — 3 1/2" H x 19" W x 11 1/2" D (D = behind front panel) Standard 2-space rackmount format

WEIGHT — 30 Lbs.

WARRANTY

Your TUBE WORKS product is warranted for a period of one year against defects in workmanship or materials in the electronic components. The speaker(s), reverb tank and cabinet (if applicable) are warranted for a period of ninety (90) days. This warranty applies only to the original registered owner provided he/she has returned a completely filled-out OWNER'S REGISTRATION CARD within fifteen (15) days of purchase. This warranty covers parts and labor only; shipping charges remain the sole responsibility of the owner. Damage due to misuse, modification or abuse is excluded from this warranty. If service is required, you must contact Genz Benz Enclosures/Tube Works for a **RETURN MERCHANDISE AUTHORIZATION NUMBER (RMA)** by calling 480-941-0705. Whenever possible please use original packaging material for all returns, this will insure that the units are not further damaged in transit.

WARNING!!!

The use and operation of this device constitutes an agreement of full release of any and all liability connected with such use. Only personnel familiar with high-power audio equipment should attempt to operate this device. In addition, by the use of this device, user agrees to hold Genz Benz Enclosures/Tube Works, its designers, sales agents and all other affiliates and related parties harmless in the event of any accident, injury, damage or loss resulting from such use. Manufacturer's sole responsibility is to provide a warranty on the specified performance of the product under normal conditions for a one-year period.

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