

# Statement 450S

## Dual Mono Power Amplifier

The 225-watt/channel Statement 450S is a reduced-scale application of all of the techniques, concepts, and parts developed for the larger Statement 450. It is appropriate for the highest quality systems where space is a consideration or where extreme power is not needed. The 128-pound audio chassis is floated via an energy decoupling tripod atop the 84-pound power supply. Simply put, this heirloom quality instrument is second only to the Statement 450 monoblocks for reproducing music with the "breath of life" that is always our goal.

### Features

#### Mechanical Design:

The overall architecture of the amplifier chassis minimizes the presentation of external vibration. The internal parts are the finest kind, specifically chosen for sound and reliability. We start with 0.25" aircraft aluminum for a rigid basis, and tailor the mounting points and couplings for the desired result. Custom machined feet provide a slight, controlled decoupling of the power supply from the external environment, while the audio chassis connects via a tripod of custom designed stainless steel cups and balls, controlling of the flow of vertical energy inputs and dissipating lateral energy inputs. The chassis is finished in a metallic base coat/clear coat finish. The sculptured faceplates must have been made from a solid block of aluminum — they are 3/8 inch thick with the edges chamfered to about 1/4 inch. Finished in silky gold-speckled black, the faceplates are an almost artistic likeness of the VAC's sound quality. To guarantee quality, all chassis parts and lacquering are done in-house.

#### Electrical Design:

The hand-wiring approach presented in the Statement 450 far exceeds conventional hand wiring and previous three dimensional techniques. Careful architecture and orientation of parts in 3D allows passive control of radiated fields to an unprecedented degree for an audio amplifier. Special consideration of the ways in which they interact with the chassis,

### Reviews

*"I was hearing harmonic passages and counter passages in symphonic performances/recordings I had never heard before; even with the 300.1's, with a vividness and "richness" that literally put me in front of Fritz Reiner as he conducts the Chicago Symphony. The soundstage ... depth and width ... the realism of the distinct placements of the orchestra's sections ... the multi-dimensionality and the transparency ... the solidity of image and emotionality of the violin and piano solos in other recordings ... the texture and timbre ... previously*



Download individual images from the VAC Media Room.

sensitive circuit points, and each other increases purity and resolution. Between the two chassis, 105 lbs. of custom magnetic transformers contribute to the corresponding optimal mass loading. The Statement 450S features a direct-coupled input and driver circuit, extremely fast and vivid sound is achieved from both single-ended and balanced sources

#### VAC's Very High Speed Parallel (VHSP) :

This technique uses fast, lithe devices in an analogue parallel processing configuration that allows the speed and control required to preserve delicacy and natural sound.

#### The Very Low Impedance Driver (VLID) :

This circuit gains much greater control over the transfer function achieved in the output stage, improving linearity and increasing headroom. There is palpably more control, greater subjective power per watt, and increased detail.

#### Power Supply:

The external power supply's massive transformers are isolation mounted in a separate shielded segment of the chassis and potted in place with a special material to ensure low mechanical noise and vibration. Proprietary techniques give the bridge rectifiers the low noise associated with vacuum tube rectifiers, but deliver the speed and high passive regulation inherent in silicon diodes.

*unheard decay's and spatial "senses" ... the overall weight and balance.. I could go on an on. Nothing, absolutely nothing is left to be desired." - customer letter*



Valve Amplification Company

1911 East Avenue North  
Sarasota, FL 34234  
Telephone (941) 952 9695  
Fax (941) 952 9691  
vac-amps.com

## Specifications

\*Specifications subject to change without notice.

STATEMENT 450S	
WATTAGE	225 watt/channel
GAIN	37 dB, SE 31 dB, balanced
FREQUENCY RESPONSE	4 Hz to 75 kHz
POWER BANDWIDTH	20 Hz to 70 kHz
INPUTS	Single-ended input via RCA jack, non-inverting Balanced input via XLR jack, non-inverting relative to pin 2 ("pin 2 hot", traditional EIA/RCA broadcast/recording standard); amp is fully balanced in this mode
OUTPUTS	Connections to precisely match loudspeaker loads of 2, 4, and 8 ohms
TUBES	8x KT88 6x 6SN7
RESIDUAL NOISE	Typically, 700 microvolts at the speaker terminals
VOLTAGE	May be factory configured for operation at 100, 120, 220, or 230/240 volts
POWER CORD	Detachable power cord, standard IEC power receptacle
12-VOLT TRIGGER	included
ILLUMINATION	Illuminated logo may be switched off
FINISH	Hand-rubbed gold-flake gloss black lacquer with chrome knobs standard. Hand-rubbed metallic gloss silver lacquer with chrome knobs special order with additional cost.
WARRANTY	Two years parts and labor, excluding tubes (USA, see manual for full details)
DIMENSIONS (H X W X D)	Audio chassis (not including knobs and connectors): 9.75 x 17.8 x 18.25 in. (24.8 x 45.2 x 46.4 cm.) Power supply (not including connectors): 5.5 x 17.8 x 18.25 in. (14 x 45.2 x 46.4 cm.)
SHIPPING WEIGHT	Audio chassis: 128 lbs. (58.2 kg.) Power supply: 84 lbs. (36.4 kg.)



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