

VTL Amplifiers, Inc.
4774 Murietta Street, Suite 10
Chino, California 91710
USA



Tel (909) 627-5944
Fax (909) 627-6988
e-mail mail@vtl.com
<http://www.vtl.com/>

Lohengrin Reference Monoblock Amplifier



Since the introduction of the Siegfried Reference monoblock and the S-400 Reference Stereo amplifiers, VTL has been widely recognized as the leader in the world of reliable, high powered, high performance amplifiers, both for musicality and ease of use. Known as the first tube amplifier to deploy true Auto Bias and Fault Sensing, as well as precision-regulated power supply technology, our Reference amplifiers have won the loyalty and appreciation of serious music lovers around the world.

With the introduction of the Lohengrin Reference monoblock amplifier, VTL is pushing the boundaries of high power tube amplification to a new frontier. Lohengrin is more than just a new amplifier; it demonstrates VTL's ongoing commitment and passion for audio excellence, establishing a new benchmark for musicality and sonic realism. Developed through five years of dedicated research and refinement, Lohengrin embodies VTL's extensive accumulation of knowledge and deep understanding of the technologies essential to lifelike, realistic

music reproduction. Our guiding passion is to craft an amplifier that illuminates the music, drawing listeners closer to the essence of the artist's intention.

Renowned for modern-sounding designs that balance formidable power with harmonic opulence and intuitive ease of use, VTL amplifiers have long been celebrated for their ability to deliver speed, finesse, and musical agility typically associated with lower-powered amplifiers. With Lohengrin, these often-elusive qualities are elevated a new level.

The Lohengrin amplifier features an eight-tube output stage configuration capable of delivering 400 watts, retaining the higher-powered Siegfried amplifier's driver stages and power supply. By employing tubes—easier to drive than transistors and free from the "current hogging" issues common in parallel designs—the Lohengrin amplifier achieves an ideal balance of power and responsiveness. Its innovative technologies produce a lower output impedance, reducing the necessary step-down to the loudspeaker load and enabling a simpler, more effective output transformer.

Our Precision-regulated power supplies hold the output tubes at optimal operating points even under demanding loads. Our wide-bandwidth, heavily interleaved multi-section output transformers ensure seamless, grain-free extension into the upper frequencies. Lohengrin's zero global negative feedback design, broad audio bandwidth (-1dB at 100kHz), and adjustable damping factor provide capability and flexibility for tailoring to the speaker load and listener's preference.

The amplifier's user interface makes tube operation intuitive and worry-free. Fully automatic bias control and comprehensive, multi-layered fault-sensing systems enhance reliability and simplify the management of the output tubes. Fully bi-directional RS-232 interface provides control and diagnostic information.

Musically, the tonal spectrum of the Lohengrin is seamlessly integrated from top to bottom, the soundstage is precise and expansive, revealing the venue where the musicians perform with astonishing realism. Lohengrin reveals micro dynamics - those subtle dynamic shifts musicians use to express beauty and emotion - with nuanced alacrity. Bass instruments are presented with linearity, definition and control. True to its heritage, Lohengrin presents the weight and authority of the original event with grace and power. The sound is fresh, vibrant, and immersive, drawing listeners deeply into the music.

Building upon our signature foundation of dynamically expressive, authoritative sound, Lohengrin delivers extraordinary immediacy, drawing listeners inward, beyond mere sonic accuracy, toward something subtler and truer: the hidden intentions, elusive emotions, and unspoken truths musicians strive to convey.

Feature List:

1. Fully balanced differential input and driver stages for increased signal swing, bandwidth and stability
2. Fully balanced differential circuit – single-ended signal produces balanced signal at output
3. Zero global Negative Feedback
4. Shorter, faster feedback loop for greater tonal control without phase shift.
5. Ease in handling loudspeaker loads for greater signal stability
6. The amplifier is unconditionally stable, without the need for any capacitor compensation
7. Low impedance output stage for superior loudspeaker control
8. Dramatically increased interleaving and coupling in the balanced VTL proprietary Reference output transformer, for wider bandwidth with zero ringing
9. Variable user-adjustable DF feedback control to vary output impedance and damping factor for optimal matching to speaker load
10. Precision-regulated Plate and Screen supplies
11. Software microprocessor controlled
 - Tetrode/Triode Switchable
 - Auto Bias, Fault Sensing
 - Current in-rush limiting
 - Standby Mute function; with reduced tube current for increased tube life
 - Fully bi-directional RS-232 control
12. 400 watts per channel in tetrode; 200 watts per channel in triode
13. Utilizes eight 6550 or KT-88 tubes per monoblock
14. Adjustable precision-regulated plate and screen supplies for stable output tube operating points; discrete regulated input and driver supply for greater signal resolution and tonality
15. Adjustable precision-regulated bias supply for greater signal resolution and noise rejection and improved isolation from mains supply variations; output tube operating point does not change with normal AC power fluctuations

- 16. Microprocessor-controlled automatic bias system and multiple redundant layers of comprehensive fault sensing to protect amplifier against output tube failure.
- 17. All premium Mundorf silver oil caps in signal path
- 18. Film bypass of power supply caps for greater HF resolution
- 19. Extruded aluminum front panel with luxurious, new look and tube visual via viewing window. Optional black or silver cosmetic
- 20. Rigid construction and improved ventilation for lower operating temperature

Lohengrin Reference Monoblock power amplifier

Specifications

Vacuum Tube Complement	1 x 12AT7, 2 x 12BH7, 8 x 6550 or KT-88
Output Power 20 Hz – 20 kHz, into 5 ohm load	Tetrode 400W, Triode 200W
T.H.D. 20 Hz – 20 kHz @ 400W Tetrode T.H.D. 20 Hz – 20 kHz @ 200W Triode	< 2.5% < 2.5%
Inputs	Balanced XLR (1), Single ended RCA (1)
Output	5-way Binding Post (1 pair)
Class of output operation	AB1
Optimal Load Range	4 - 8 ohms
Input sensitivity	Variable between 1-2V, depending upon DF setting
Input impedance	47K Ohms
Balanced Input Common Mode Rejection Ratio	60 dB
S/N Ratio @ 400W Tetrode S/N Ratio @ 200W Triode	-110dB, 120 Hz
Power consumption	Idle: 350 W Full Power: 900 W
Secondary DC Fuse Ratings	<u>Plate</u> : 4A Fast 600V <u>Screen</u> : 0.75A Fast 600V
Primary AC Fuse ratings	<u>Logic</u> : 1 Amp Slo Blo 120V, 220V, 240V <u>B±</u> : 120V: 15 Amp Slo Blo, 240V: 8 Amp Slo Blo <u>Input</u> : 120V: 2 Amp Slo Blo, 240V: 1 Amp Slo Blo <u>Filament</u> : 120V: 2 Amp Slo Blo, 240V: 1 Amp Slo Blo
Dimensions W x D x H	11.5"W x 19.25"D x 19.5"H (29 x 49 x 50 cm)
Unit Weight Shipping Weight	Net: 170 lbs / 77 kg each unit 500 lbs/227 Kg (both units packed in one crate)