

ALCHEMIST



F O R S E T I

MkII

APD15A MkII INTEGRATED

Not to be confused with ordinary integrated amplifiers, the APD15A is a truly high end product.

There are six inputs and two outputs for tape decks. Difficult musical passages (not to say difficult loudspeaker loads) are handled with consummate ease by the 100W RMS power section.

Sometime in the distant future, you might want to upgrade to a pre-power combination. With the FORSETI Integrated there is a separate pre output, so you can increase the output simply by connecting a Forseti APD20A Power amp.

Input Sensitivity:	170mV
Output @ 1kHz into 8 ohms:	100 Watts RMS
Frequency Response @ 3V:	-3dB @ 92kHz
Distortion @ 15V o/p, 1kHz:	<0.085% THD
Distortion @ 15V o/p, 10kHz:	<2% THD
Residual Noise (Max. Volume):	<2mV
Power Consumption (Idle):	100 Watts
Power Consumption (Peak Power):	380 Watts
Dimensions (W x H x D):	465mm x 95mm x 390mm
	15kg

APD20A MkII POWER

The FORSETI Power has an output power rating of 150W RMS. By connecting this powerhouse to your existing FORSETI Integrated you have an easy upgrade path should you want to increase the power to your loudspeakers.

Furthermore, when you are running it in conjunction with the APD21 Pre (see below), you can add another Power to your Pre-Power combination: what we call the velvet fist in the steel glove. There are three techniques for utilizing a pair of FORSETI Power amps: Bi-amping to power your bass and treble units separately; Mono Blocks to drive the two channels individually; and Bridging, which will provide you with in excess of 400 Watts RMS. That would, in retrospect, be the steel fist in the titanium glove.

Input Sensitivity:	170mV
Output @ 1kHz into 8 ohms:	150 Watts RMS
Frequency Response @ 3V o/p:	-3dB @ 92kHz
Distortion @ 15V o/p, 1kHz:	< 0.085% THD
Distortion @ 15V o/p, 10kHz:	< 2% THD
Residual Noise:	< 2mV
Power Consumption (Idle):	100 Watts
Power Consumption (Peak):	300 Watts
Dimensions (W x H x D):	465mm x 135mm x 390mm
Weight (Packed):	22kg

APD21A MkII PRE

The FORSETI Pre looks similar to the Integrated and all of the controls are the same. But the electronics are taken just that bit closer to perfection.

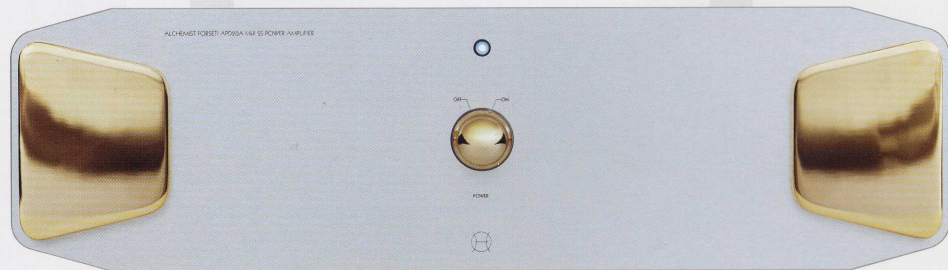
Each component is hand picked and matched, extracting the last bit of magic from an already world beating design. For those of you that want to place your Power amps near your loudspeakers, we have provided balanced pre-power XLR terminals. There is also a balanced input for connecting a digital source.

Frequency Response @ 0.8V o/p (0dB):	20Hz - 20kHz (-3dB @ 75kHz)
Channel Separation:	> 101dB
Distortion @ 1kHz @ 1V Output:	< 0.03% THD
Distortion @ 10kHz @ 1V Output:	< 0.035% THD
Residual Noise:	< 0.7mV
Power Consumption:	25 Watts
Dimensions (W x H x D):	465mm x 75mm x 390mm
Weight (Packed):	12kg

The FORSETI range of amplifiers has been designed to fulfill the needs of the music lover that appreciates the finer things in life: especially the basic human need for reproduction. Even though the original FORSETI range set new standards for modern amplifiers, the MkII versions are a significant upgrade on the original designs.

Internally, there are a number of enhancements that greatly improve sound quality:

- ! The output stages now utilize higher grade selected components, ensuring greater tolerance control and therefore reliability.
- ! The component layout has been revised and wiring kept to a minimum.
- ! High capacity, low flux toroidal transformers (one per channel) improve imaging and give greater stability to the sound stage.
- ! Additional circuitry for EMC filtering has been implemented in a unique way to improve sound quality.
- ! There is now a fully regulated power supply section for the pre-amp stage.
- ! The earthing throughout the power supply sections has been revised to reduce noise and enhances smoother performance.
- ! Bias sensing transistorised circuitry designed by Tim de Paravicini are utilised to keep a tight control on bias drift.
- ! A fully independent delay circuit with timed switch-on and immediate switch-off ensures there are no clicks and thumps.



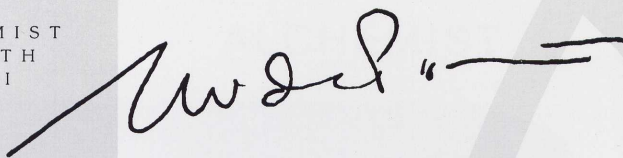
SS

SIGNATURE SERIES

DESIGNED BY ALCHEMIST
IN ASSOCIATION WITH
TIM DE PARAVICINI

The FORSETI Signature Series amplifiers represent an extension of the design work of Tim de Paravicini, who was commissioned by Alchemist to design our award winning Statement products. Rather than start afresh on a new product, we asked Tim to see how far he could take the FORSETI design. His no-compromise approach has turned what is already a good product into a truly great one. The original circuitry and topology of the SS amplifiers has been refined to give a greater perspective into the heart of the music, being almost valve-like in their warmth and capacity to involve you in the performance. XLR connectors are provided for running the amplifiers in balanced mode, while there is also a balanced input on the pre-amp for connection of a high quality digital source.

The inner refinement has been mirrored in the casework, which has a 5mm aluminium rear panel and a 10mm aluminium front panel. There is also a plaque on the top of the units, sporting Tim's inimitable signature. These amplifiers will simply astonish you with their verve and panache, whether they're on or off.



APD21A MkII SS PRE

- ! Whole circuit revised by Tim de Paravicini to incorporate fully discrete design.
- ! Tim de Paravicini designed discrete balanced input stage.
- ! Redesigned PSU stages to allow for tighter control of ripple contents.

Frequency Response @ 1V o/p (0dB):	20Hz - 20kHz (-3dB @ 105kHz)
Input Sensitivity RCA:	580mV for 6V o/p
Input Sensitivity XLR:	1.3V for 6V o/p
Channel Separation:	> 105dB
Distortion @ 1kHz @ 1V Output:	< 0.03% THD
Distortion @ 10kHz @ 1V Output:	< 0.035% THD
Residual Noise:	< 0.15mV
Power Consumption:	25 Watts
Dimensions (W x H x D):	465mm x 75mm x 390mm
Weight (Packed):	17kg



APD20A MkII SS POWER

- ! Revised output stages, incorporating high bias/current voltage mirrors in the pre driver stage.
- ! Tim de Paravicini designed output chokes to stabilise frequency ranges and eliminate any form of DC offset.
- ! Tim de Paravicini designed discrete balanced input stage.

Input Sensitivity RCA:	1.6 V for 29V o/p
Input Sensitivity XLR:	2.2V for 29V o/p
Output @ 1kHz into 8 ohms:	100 Watts RMS
Frequency Response @ 3V o/p (0dB):	20Hz - 20kHz (-3dB @ 95kHz)
Distortion @ 29V o/p, 1kHz:	< 0.05% THD
Distortion @ 29V o/p, 10kHz:	< 0.065% THD
Residual Noise:	< 0.25mV
Power Consumption (Idle):	100 Watts
Power Consumption (Peak):	360 Watts
Dimensions (W x H x D):	465mm x 135mm x 390mm
Weight (Packed):	28kg



RC

APD15A MkII INTEGRATED RC

We at Alchemist understand that in these days of aerobic classes, inter-department football matches and the like, not everyone needs the extra workout of continually traversing the living room to adjust amplifier settings. So, for all you fitness fanatics we have developed the FORSETI Remote Control Integrated. But, in keeping with our goal of constantly improving our products, this amplifier is significantly better than its predecessor.

Input Sensitivity:	390mV for max. O/P
Output @ 1kHz into 8 ohms:	100 Watts RMS
Frequency Response @ 3V:	-3dB @ 64kHz
Distortion @ 15V o/p, 1kHz:	<0.1% THD
Distortion @ 15V o/p, 10kHz:	<0.5% THD
Residual Noise (Max. Volume):	<0.5mV
Power Consumption (Idle):	100 Watts
Power Consumption (Peak Power):	380 Watts
Dimensions (W x H x D):	465mm x 95mm x 390mm
Weight (Packed):	15kg

The FORSETI Integrated RC has been designed to match the FORSETI DAC and DRIVE, and being remote controlled, you now get to sit back and relax a bit more. Although the core design is based on the original FORSETI Integrated, there are a number of enhancements that significantly improve the performance and functionality, to wit:

- ! Revised circuit eliminates DC offset.
- ! DC Protection has been included to protect loudspeakers from DC nasties.
- ! Volume is controlled precisely by a motorised ALPS Superpot.
- ! Input is selected on high-sensitivity gold-plated relays, which minimise noise.
- ! The pre-amp stage is manufactured as a plug-in module, allowing for future up-grades.
- ! Superb functionality is achieved by programmable I/C's, designed specifically for Alchemist.
- ! Volume is auto-reduced to zero and Input 1 selected on switch-on.



CD

The technology might be different, but the laws of physics apply equally to analogue and digital turntables. The Forseti Drive upholds these laws.

To minimise the internal interference normally found in CD players, multiple regulated power supplies are used. Furthermore, outside influences are negated by the use of a high current super fast power supply. Sophisticated multi-layer suspension isolates both the transport and the main board from mechanical vibration.

Balanced (high level) and unbalanced SPDIF outputs are provided, incorporating a low jitter master clock multi-synchronised digital output system.

Contrary to popular thought, the zeros and ones that make up a digital signal are not permanently etched into the fabric of the universe. To convert them into an accurate analogue signal takes a great deal of technology and listening, in equal measures. Just the job for Alchemist, then.

The Forseti DAC uses dual 24 bit processors per channel, providing 24 bit resolution on balanced and unbalanced output. There is low jitter clock recovery and multiple re-synchronisation to ensure accurate processing. There are also 9 separate regulated power supplies for each DAC section. Where possible, discrete components are used.

Functions include phase inversion, de-emphasis and lock; inputs include one balanced and two unbalanced. There is also a remote motorised volume control.

The FORSETI CD Player has been designed with the same rigorous attention to detail as our award winning amplifiers, although as a source component it doesn't generate enough heat to warm your hands (like some of our amps). It will warm your digits, though. It may appear that many digital reproducers have been designed primarily to pack in as much leading edge technology as possible, resulting in impressive measurements, but unimpressive performance. Not so with the FORSETI. Our main priority was to build a machine that first and foremost gave an insight and involvement into the music... by using leading edge technology.

The fact that the FORSETI is an amazing looking machine is a bit of a bonus.



APD33A DRIVE



APD34A DAC

DRIVE:

Digital Output Balanced:	3.5V @ 110 Ohms
Digital Output Unbalanced:	500mV @ 75 Ohms
Dimensions (W x H x D):	464mm x 90mm x 390mm
Weight (Packed):	10kg

DAC:

Frequency Range:	DC - 22kHz
Amplitude Linearity:	-2dB (10Hz - 20kHz)
Phase Linearity:	00 (20Hz - 20kHz)
Dynamic Range:	>100dB
Signal to Noise Ratio:	>-100dB
Channel Separation:	>-100dB
Total Harmonic Distortion:	-70dB
Balanced Output Level:	±2.2V RMS
Unbalanced Output Level:	2.2V RMS
Dimensions (W x H x D):	464mm x 70mm x 390mm
Weight (Packed):	13kg

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In the unlikely event that we should discover something that would improve one of our products, we reserve the right to change specifications without prior notice