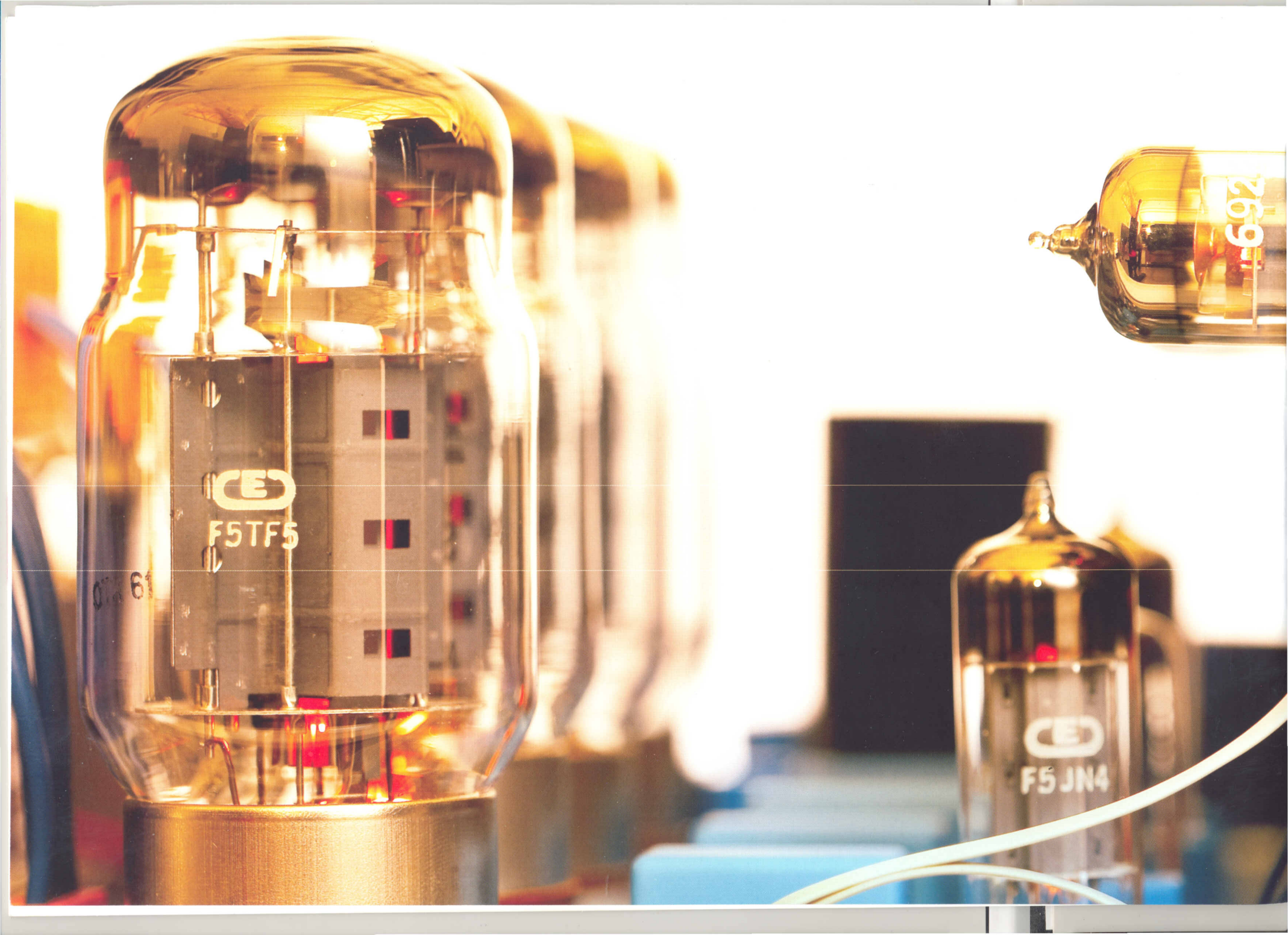
2007

COPLAND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CDA823 CD-PLAYER

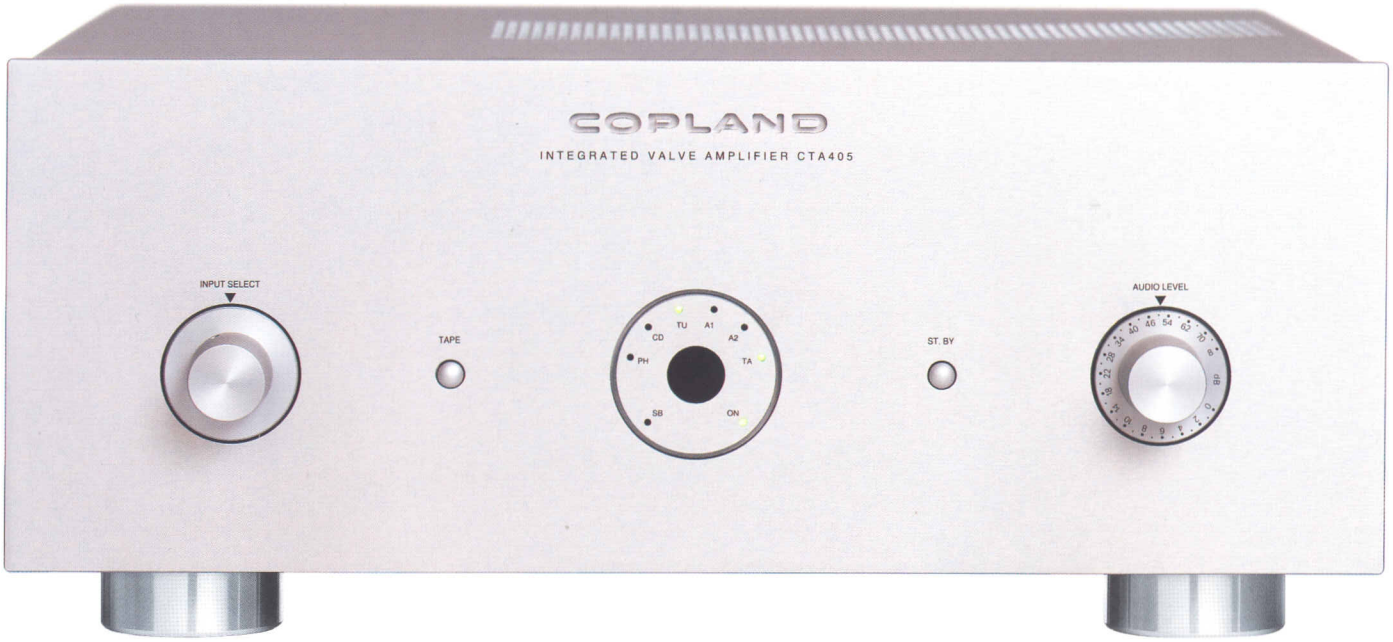
The CDA823 is an evolution of the renowned CDA822 CD-player. While employing the same outstanding DACs and analog amplifiers as its predecessor, double resampling and reading speed at four times CD audio speed for precise reading are now introduced. Increased oversampling of 192 kHz is used to avoid the loss of energy and transparency in a complex analog output filter.

The CDA823 uses a true 24-bit, high-resolution, dual differential, digital to analog converter with current output for widest dynamic ranges, fast conversion and lowest noise. Jitter distortion arising from time errors is virtually eliminated by sample rate converters and our precision internal master-clock.

All audio power supplies are multi-regulated and the output circuitry provides both fully balanced and single ended outputs.

The output amplifiers are a priority in the design of this audiophile CD-player. Operational amplifiers with their fixed working conditions and sound qualities can become an obstacle when the designer wants to be in control of the final performance. Therefore, CDA823 employs discrete class A input amplifiers with carefully selected operational points for the specific electronic environment in which they have to perform. The CDA823 allows for future updates of firmware through flash programmable microprocessors.

S/N ratio (IHF-A)	Better than 100 dB
Phase linearity	Less than 0.2° (20 Hz – 20 kHz)
Dynamic range	Better than 100 dB
T.H.D.	Less than 0.01 %
D/A converter	24-bit dual differential
Output analog	Balanced and single ended: 2.0 V rms
Output digital	S/PDIF 0.5 V p-p / 75 ohms
Power consumption	40 W
Nominal mains voltage	*115 V or 230 V (factory set)
Mains voltage range	+/- 12 %
Dimensions	430(W) 110(H) 390(D) mm
Weight	9 kg



CTA405

CTA405 INTEGRATED VALVE AMPLIFIER

The COPLAND CTA405 is the result of careful research and development, combining the best of classical construction with the latest in circuit design.

Rated at 50 watts per channel using the legendary KT88 beam power tubes and with operation conditions set for a minimum variation of plate and screen current in the output stage, excellent performance is obtained with very low feedback. A single chassis machined from aluminium alloy to avoid magnetic interference, employing separate power amplifier and a complete pre-amplifier stage similar to the COPLAND CTA305, including phono preamp for moving magnet or high output moving coil cartridges.

The output transformers are specially designed for this amplifier, with a large core of high quality silicon ion and perfect symmetry in induction and capacitance of the coils, a frequency response from 5 Hz to over 100 kHz is achieved with low distortion and high stability over the entire audible frequency range.

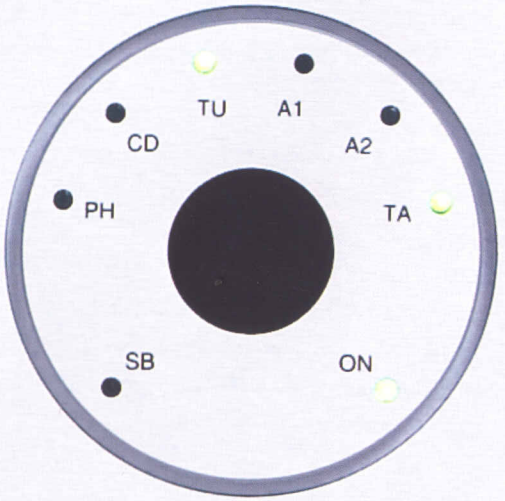
Employing power supply, output transformers and circuitry fully sufficient for twice the rated output power, the CTA405 achieves strong dynamics and a wide flexibility in the choice of speakers.

The system remote supplied with the CTA405 will also control the COPLAND CDA822 and CDA823 CD-player.

Specifications

Valves	KT88 (4). 12BH7 (2). 6922 (2). E83CC (3)
Rated power	50 W / channel at 4 / 8 ohms
T.H.D.	Less than 1 % at all levels
Frequency response	10 Hz - 100 kHz - 3 dB
Input sensitivity line	350 mV for rated power
Input sensitivity phono	3.5 mV for rated power
Input impedance line	33 K ohms (line). 47 K ohms (phono)
S/N ratio (IHF-A)	More than 95 dB
Power consumption	250 W
Nominal mains voltage	115 V or 230 V (+/- 12 %)
Dimensions	430(W) 185(H) 390(D) mm
Weight	25 kg


COPLAND
CTA405
INTEGRATED AMPLIFIER
RIAA
LEFT
RIGHT
GND
SPEAKERS
RIGHT
LEFT
8 ohm
4 ohm
GND
DESIGN BY COPLAND
MADE IN DENMARK
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
SERIAL NR
AC POWER
MAX. POWER CONSUMPTION 400 W
50/60 Hz VOLTAGE 230 V
TAPE OUT
TAPE IN
TUNER
CD
AUX 1
AUX 2
LEFT
RIGHT
REMOTE
SPEAKER OUTPUTS
PHASE INVERTED


TU
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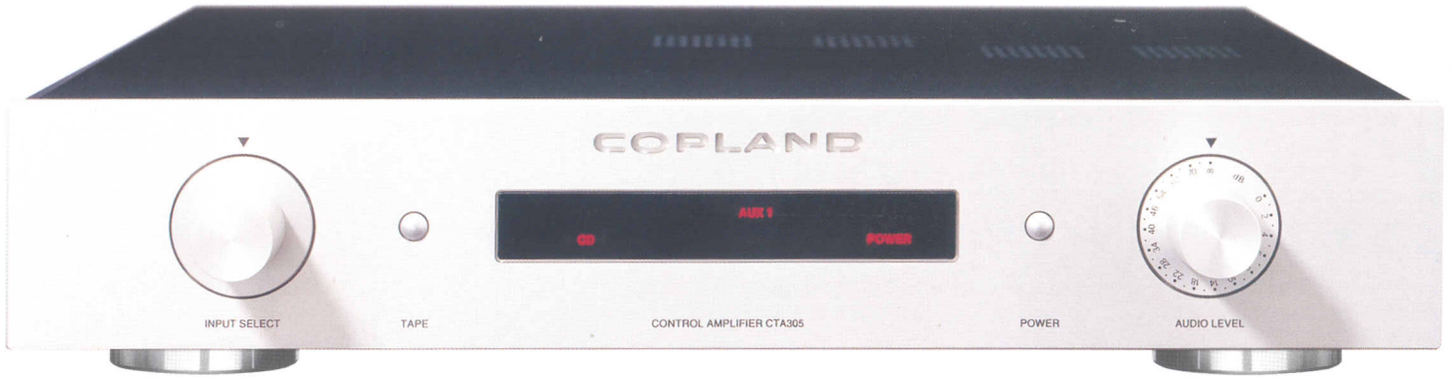


CTA305

CTA305 PRE-AMPLIFIER

For low level voltage amplification, valves are in a league of their own with respect to linearity and musicality. For nearly a decade, COPLAND has contributed to the refinement of amplification using these classic devices.

The CTA305 employs highly reliable 6922 valves selected after ageing to assure optimal compatibility.

Each class A line level amplifier circuit is divided into two separated non-inverting units. This allows us to use much less complex circuit, with increased stability, and no requirement for internal lag compensating networks.

Discrete DC power supply regulators designed for nearly zero output impedance isolate individual gain stages from each other.

In addition to the five sets of line level inputs, the CTA305 offers a high quality phono amplifier. For the listener with a large investment in LP's, this amplifier provides an opportunity to recover musical pleasures and more nuances from irreplaceable recordings.

Specifications

Valves	12AX7 (2). 6922 (2).
Output voltage	Rated 2 V, max. 40 V
T.H.D.	Line – less than 0.1 % (output 1 V)
Input sensitivity	Phono – 2.7 mV (output 1 V)
	CD, line – 300 mV (output 1 V)
Input impedance	Phono – 47 K ohms, line 50 K ohms
Output impedance	Less than 600 ohms
S/N ratio (IHF-A)	Phono > 80 dB, line > 95 dB
Power consumption	40 W
Nominal mains voltage	115 V or 230 V (+/- 12 %)
Dimensions	430(W) 86(H) 390(D) mm
Weight	7 kg

CTA520 POWER AMPLIFIER

A two-channel power amplifier in a slim line chassis. Combining the virtues of valve design with solid state circuit for high power stability and strong dynamics, it drives any speaker load with a clean, undistorted signal.

Field effect transistors are used for both the input and driver stages. Like vacuum tubes, they are voltage controlled and allow for circuitry design with a minimum of non-even harmonic distortion. The CTA520 remains faithful to the sound virtues of other COPLAND products. A firm grip of the lower octaves, an accelerating treble, and most significantly, a musicality attributable to all COPLAND designs.

For systems demanding more than 125 W per channel or requiring balanced operation, we recommend one CTA520 per channel in bridge mode or as fully balanced mono amplifier using the XLR input terminal.

The CTA520 standby switch can be controlled from the COPLAND CTA305 pre-amplifier or the system remote control.

Specifications

CTA520

Rated power	125 W/channel at 8 ohms
	250 W/bridge or balanced operation
T.H.D.	Less than 0.05 % at all levels
Frequency response	20 Hz – 20 kHz – 0.2 dB
Input sensitivity	1.4 V for rated power
Input impedance	50 K ohms (single ended inputs)
	50 K ohms (balanced inputs)
S/N ratio (IHF-A)	More than 103 dB
Power consumption	600 W
Nominal mains voltage	115 V or 230 V (+/- 12 %)
Dimensions	430(W) 86(H) 390(D) mm
Weight	18 kg

CVA306

CVA306 6 CHANNEL PRE-AMPLIFIER

The CVA306 six channel valve pre-amplifier establishes a new standard within multi-channel performance. In addition to the five normal stereo inputs, CVA306 accepts six analog outputs from DVD surround sound/DVD or SACD audio.

The pure class A high output voltage amplifiers of CVA306 has a substantial overload margin and will, with effortless ease accommodate the full dynamic range available from the digital program sources.

A substantial power supply rejection ratio is built into the signal carrying circuitry, in order to keep audio information completely unaffected by the power supply.

Employing excellent line circuitry identical to the COPLAND CTA305, this amplifier offers the unique possibility to explore the authority of high quality valve amplification in a music and film system.

Specifications

Output voltage	Rated 2 V, max. 40 V
T.H.D.	Less than 0.1 % (output 1 V)
Input sensitivity	300 mV (output 1 V)
Input impedance	25 K ohms
Output impedance	Less than 600 ohms
S/N ratio (IHF-A)	More than 95 dB
Power consumption	40 W
Nominal mains voltage	115 V or 230 V (+/- 12 %)
Dimensions	430(W) 110(H) 390(D) mm
Weight	8 kg

CVA535 5 CHANNEL POWER AMPLIFIER

A five channel amplifier with power to drive any home theatre system to realistic levels.

The COPLAND CVA535 retains its stylish exterior with emphasis on build quality, efficient air flow and temperature control.

A single chassis employs five independent amplifier modules, each with its own rectifiers, filtering and regulation etc.

By keeping the entire channel on a single circuit board, the length of the pcb tracks are kept to an absolute minimum for accurate dynamics and spatial image.

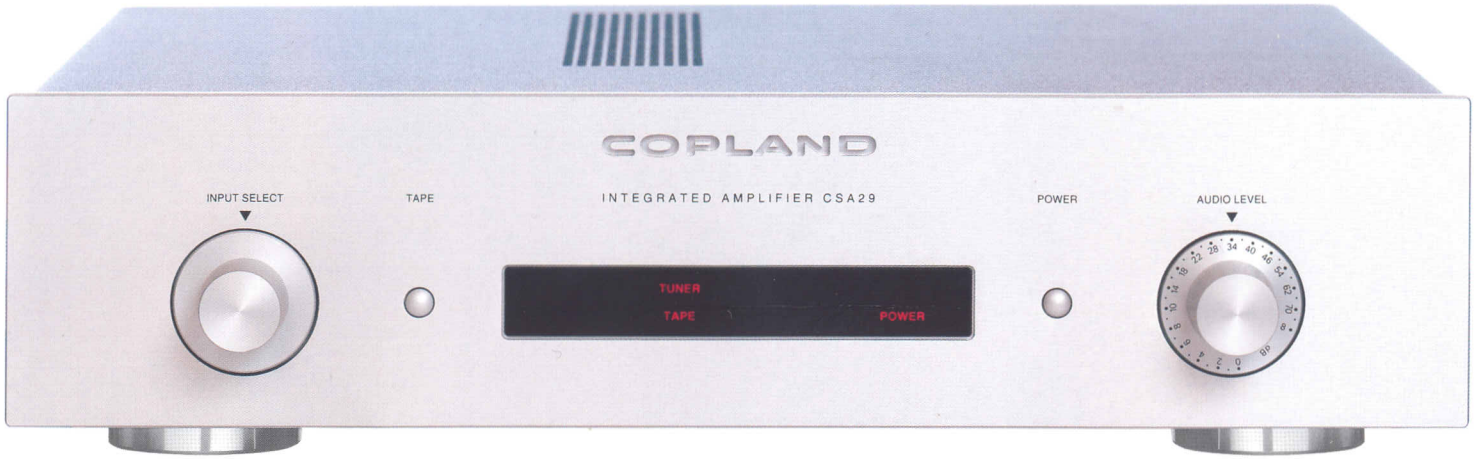
The CVA535 has a built-in soft start circuit for prolonged reliability with the added safeguard of DC and thermal protection for extra assurance.

All channels accepts single ended as well as balanced inputs and the standby switch can be controlled from either the COPLAND CVA306 pre-amplifier or the system remote control.

Specifications

CVA535

Output power	5 x 125 W at 8 ohms
T.H.D.	Less than 0.05 % at all levels
Frequency response	10 Hz – 30 KHz – 0.2 dB
Input sensitivity	1.4 V for rated power
S/N ratio (IHF-A)	Better than 103 dB IHF-A
Input impedance	100 K ohms (RCA)
	12 K ohms (balanced)
Power consumption	1300 W
Nominal mains voltage	115 V or 230 V (+/- 12 %)
Dimensions	430(W) 168(H) 420(D) mm
Weight	30 kg



CSA29

CSA29 INTEGRATED AMPLIFIER

The integrated amplifier CSA29 combines the benefits of both valves and transistor amplification using the synergic design concept that has made COPLAND hybrid amplifiers widely acclaimed.

The amplifier uses two valves in the input differential stage, allowing the notably smooth and transparent properties of the valves to blend with the power and dynamics of the transistor electronics.

The amplifier delivers 2x85 watts continuous power into 8 ohms. The massive 600 W AC transformer and large power supply ensures that the amplifier has more than sufficient drive for a wide range of speakers.

For the vinyl enthusiast we have designed a plug-in phono module, which can be added at your dealer as an optional extra.

Employing only discrete components in an active RIAA correction circuitry with low noise fet-transistors, this is an outstanding phono stage that will provide even more nuances from your treasured vinyl recordings.

The system remote supplied will also control the COPLAND CDA822 and CDA823 CD-player.

Specifications

Valves	6922 (2).
Rated power	85 W / channel at 8 ohms
T.H.D.	Less than 0.05 % at all levels
Power bandwidth	0 Hz - 20 kHz - 0.2 dB
Frequency response	10 Hz - 100 kHz - 0.5 dB
Input sensitivity	230 mV for rated power
Input impedance	39 K ohms
S/N ratio (IHF-A)	More than 95 dB
Power consumption	400 W
Nominal mains voltage	115 V or 230 V (+/- 12 %)
Dimensions	430(W) 110(H) 390(D) mm
Weight	15 kg