

EPICURE ONE/FOUR



The Epicure One Features

Overload indicators: Voltage, Current, and Thermal

Instantaneous automatic short, mismatch, and open circuit protection

Heavy duty heat sinks that can dissipate three times the needed power

Built-in multiple speaker selection

Sonic clarity, high slew rate

Maximum reliability with maximum frequency response

Dual differential pre-driver stage for high DC stability as amplifier ages and low distortion products at full and lower power

Modular construction

Fused A/C line

Built-in speaker fusing

Automatic thermal shut-off switch

RCA multiple emitter-site epitaxial output device for heavy continuous duty operation

Side mount connections for easy access

Oscilloscope output for visual monitoring

Input level sets for maximum system signal-to-noise performance

Computer-rated parts

Individual performance data for each unit

Five-year parts and labor warranty

Performance guaranteed

Specifications

POWER RESPONSE:

125 watts rms per channel, 250 watts rms total power response both channels driven 20-20,000 Hz at or below 0.2% THD or IM from full power or below (120 volts, AC)

THD:

.2% (rated typical below .05) into 8 ohms

I.M. DISTORTION (SMPTE 4:1):

.2% (typical below .03) into 8 ohms

FREQUENCY RESPONSE:

20 Hz to 20,000 Hz +0, -1 db

10 Hz to 100,000 Hz \pm 5 db

10 Hz to 180,000 Hz +0, -3 db

POWER BANDWIDTH:

10-52,000 Hz @ 0.2% THD

RISE TIME:

Better than 1.5 microsecond

DAMPING FACTOR:

100 or greater

SLEWING RATE:

Greater than 17 volts per microsecond

SIGNAL NOISE RATIO:

Greater than 100 db hum and noise at full output, typically over 110 db

PHASE RESPONSE:

20-20,000 Hz in 8 ohms—maximum deviation \pm 5°

INPUT IMPEDANCE:

10,000 ohms (input level control @ maximum)

INPUT CAPACITANCE:

50 picofarads

INPUT SENSITIVITY:

1 volt for 125 watts

STABILITY:

Unconditionally stable, 2 to 20 ohms, into any speaker—open

PROTECTION:

Short, mismatch and open circuit proof—line voltage fused—speaker fused—thermal cut-out switch

TEMPERATURE:

Thermal protection 75°C

CONNECTORS:

Input—¼ inch phone jack

Output—color coded plugs

DIMENSIONS:

18½"W x 12½"D x 7½"H

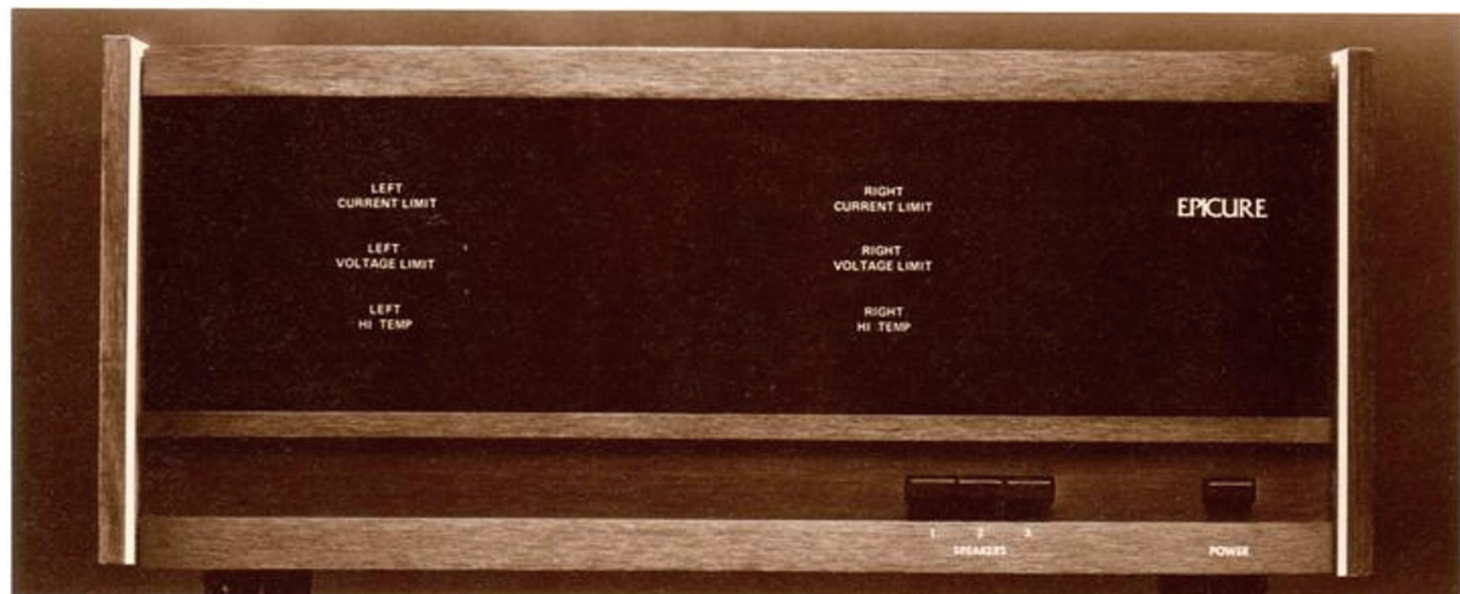
WEIGHT:

58 lbs.

MOUNTING:

19" rack mount kit available

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Archiv Michael-Otto*



The Epicure Four Features

Inputs: Two pairs for phone, two pairs for tape, one pair each for tuner and auxiliary
Outputs for two tape recorders and two power amps
Complete dubbing and monitoring facilities for two tape decks
Five-position program mode selector
Selectable inflection tone controls
Two switched — and four unswitched — AC power outlets
Muting relay with 10-second delay on turn-on, instantaneous turn-off
Steep cut-off high and low filters
Three fully regulated DC power supplies
Toroidally wound hum-cancelling power transformer
Metal shielding of all power supply components
Modular construction
Precision 60-millimeter slide-type volume and tone controls
Instrument-quality program function switches
Military grade G-10 glass epoxy circuit boards
Medical grade cabling for all audio signals
1% low-noise metal oxide resistors and 1% dipped silvered mica capacitors in phono section
High-grade metallized film capacitors in high-level section
Black anodized front panel accented by oiled walnut inserts
Five-year parts and labor warranty
Performance guaranteed

Specifications

FREQUENCY RESPONSE:
Phono (low level) section: 20-20,000 Hz \pm 2.5 db from RIAA curve
High level section: 10-100,000 Hz \pm 2.5 db
TOTAL HARMONIC DISTORTION:
Less than 0.005% at any frequency or output voltage up to 2.5 volts rms
SIGNAL TO NOISE RATIO:
Phono section: Better than 85 db down ("C" weighted) referenced to 10 millivolt input; better than 100 db down ("A" weighted) referenced to 10 millivolt input
High level section: 105 db down referenced to 1 volt input
PHONO OVERLOAD:
Better than 150 millivolts (1 KHz @ 40 db gain)
PHASE SHIFT:
Phono section: Less than 5° at 20,000 Hz
High level section: Less than 2° at 20,000 Hz
MAXIMUM UNDISTORTED OUTPUT VOLTAGE:
Better than 5 volts rms
RATED OUTPUT:
2.5 volts rms
INPUT IMPEDANCE:
Phono section: 47,000 ohms
High level section: 100,000 ohms
OUTPUT IMPEDANCE:
600 ohms for either tape or main output
INPUT CAPACITANCE:
Phono section: 37 pf
High level section: 47 pf
GAIN:
Phono section: Variable between 36.5 db and 43.5 db @ 1 KHz
High level section: 23.53 db
VOLUME CONTROL TRACKING ACCURACY:
Better than \pm 1 db

BUTTERWORTH ACTIVE FILTERS:
High filter: -3 db at 7,500 Hz, asymptotic slope 12 db per octave
Low filter: -3 db at 50 Hz, thereafter at 12 db per octave
SELECTABLE TONE COMPENSATION:
Base: \pm 18 db at 20 Hz (hinge point at 1,000 Hz)
 \pm 9 db at 20 Hz (hinge point at 600 Hz)
Treble: \pm 15 db at 20,000 Hz (hinge point at 2,500 Hz)
 \pm 8 db at 20,000 Hz (hinge point at 3,500 Hz)
DIMENSIONS:
18 1/4" W x 9 1/2" D x 5 1/2" H
WEIGHT:
18 lbs.
MOUNTING:
19" rack mount kit available

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A step closer to reality

Epicure is the division of Epicure Products, Inc. with the responsibility for spawning state-of-the-art audio equipment.

That puts us in a luxurious position: We're concerned only with sonic perfection. Not price.

So we're able to take the pains and the expense necessary to avoid compromises. And to ensure that the products we put our name on are unsurpassed in the audio industry.

The highly praised Epicure Model One Power Operational Amplifier and the new Epicure Model Four Preamplifier symbolize our commitment to audio excellence. As with every Epicure product, the Model One and the Model Four were developed with a single goal in mind: the reproduction of accurate sound. So that what you hear in your living room is remarkably like what you hear in the concert hall.

The Model One Power Operational Amplifier is clearly not the least expensive amplifier you'll come across. But it can fairly be said to be the best. Its unique features and advanced design make it a piece of equipment Epicure offers with pride to the serious listener.

The Model One uses multiple emitter-site epitaxial output devices, resulting in an incredible power bandwidth and tremendous current and thermal capabilities. The capability of its power supply is three times what is required of it.

The Model One is also unique in its ability to monitor not only the quantity of its signal output, but the quality as well. The unit features overload indicators for voltage, current and temperature. These indicators, then, aren't merely meter-like displays of the signal level being put out of the amplifier, which in some cases can show high power levels even though amplifier output is of poor quality.

The Model One is a remarkably stable and transparent unit, in which distortion is theoretical. In fact, the equipment necessary to measure its distortion is found in very few calibration laboratories.

To match the performance of the Model One, Epicure has developed the Model Four Preamplifier.

The result of several years of intensive research, the Four represents the most advanced, carefully refined control center yet available.

Since most critical home listening is done with records, the most important part of any preamplifier is its phono (or low-level) circuitry. The Model Four's specially designed phono section not only produces constant output regardless of source impedance, but it does so with an absolute minimum of distortion. The result is a phono section uniquely easy to match to whatever phono cartridge you may be using. And no matter how low the output of your cartridge, the Four has a broader dynamic range, at any gain setting, than the maximum dynamic range of any of the LP discs you listen to.

With four separate phono circuits, each with individual gain control, the Model Four's low-level section also allows you to match phono input to phono input and channel to channel. The switching of unprocessed phono cartridge output common on less sophisticated control centers is thus eliminated by the Epicure team.

The Four's high-level section is equally impressive. With maximum bandwidth and minimum noise shift, it produces signals of remarkable purity and unparalleled accuracy. And to eliminate any potentially dangerous turn-on transients from damaging your speakers, its output is muted for a full 10 seconds.

A key to the Four's performance is its power supply. The preamp utilizes a toroidally wound power transformer capable of suppressing hum to better than 100 db below signal. For maximum isolation, the entire power supply is shielded within a unitized steel chassis.

The Model Four employs not one, but three voltage regulators. The phono section has its own regulated 50-volt supply for maximum suppression of noise and hum. The high-level section contains individual positive and negative-regulated power supplies. (On a great many other units, the power supplies are totally unregulated.)

In every instance, the highest grade components available today have been used in the construction of this unique preamplifier. And the same, of course, is true for the materials used in the construction of the Model One amp.

The Epicure Model One and Model Four. Together, they're going to bring you as close as you've ever come to the realistic reproduction of sound.

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Archiv Michael Otto

EPICURE

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Massachusetts 01950



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**The Epicure Model One Power Operational Amplifier
Features and Specifications**

A step closer to reality

The Epicure Model One Power Operational Amplifier is clearly not the least expensive amplifier you'll have come across. But it can fairly be said to be the best. For sonic perfection, from the beginning, has been the goal of the developmental work that went into this, the first amplifier of Epicure Corporation.

The result is a piece of equipment Epicure is justifiably proud of, one that is unique in a number of ways.

For instance, the Model One uses multiple emitter-site epitaxial output devices, resulting in an incredible power bandwidth and tremendous current and thermal capability.

Its power supply has a capability that is three times what is required of it.

The Model One is also unique in its ability to monitor not only the quantity of its signal output, but the quality of it as well. The unit features overload indicators for voltage, current and temperature. These indicators, then, are not merely meter-like displays of the signal level being put out of the amplifier, which in some cases can show high power levels even though amplifier output is of poor quality.

The Model One is a remarkably stable and transparent unit, in which distortion is theoretical. The equipment necessary to measure its distortion, in fact, is found in few calibration laboratories indeed.

All of which means you can expect superior performance from the Model One for easily 10 years, and likely closer to 20.

Features

Overload Indicators: Voltage, Current, and Thermal

Five-year parts and labor warranty
Instantaneous automatic short, mismatch and open circuit protection
Performance guaranteed
Individual performance data for each unit

Heavy duty heat sinks to allow long-term, top performance, can dissipate three times power needed

Built-in multiple speaker selection

Sonic clarity, high slew rate

Maximum reliability with maximum frequency response

Dual Differential pre-driver stage gives high DC stability as amplifier ages and low distortion products at full power and lower power.

Modular construction to allow realistic field service to original performance

Fused A/C line

Built-in speaker fusing

Automatic thermal cut-out switch

RCA multiple emitter-site epitaxial output device for heavy continuous duty operation

Side Mount connections, easy access

Oscilloscope output for visual monitoring

Input level sets for maximum system signal-to-noise performance

Computer rated parts allow extended life performance

Specifications

POWER RESPONSE:

175 Watts rms into 8 ohms; both channels driven 20-20,000 Hz or below .2% THD or IM from full power or below 117 AC volts. (Typically over 200 Watts.)

THD:

.2% rated typical below .05 into 8 ohms

I.M. DISTORTION (SMPTE 4:1):

.2% typical below .03 into 8 ohms

FREQUENCY RESPONSE:

20 Hz to 20,000 Hz + 0, - .1 db

10 Hz to 100,000 Hz \pm .5 db

10 Hz to 180,000 Hz + 0, - 3 db

POWER BANDWIDTH:

10-52,000 Hz @ 0.2% THD

RISE TIME:

Better than 1.5 microsecond

DAMPING FACTOR:

100 or greater

SLEWING RATE:

Greater than 17 volts per microsecond

SIGNAL NOISE RATIO:

Greater than 100 db hum and noise or full output, typically over 110 db

PHASE RESPONSE:

20-20,000 Hz in 8 ohms, maximum deviation 15°

INPUT IMPEDANCE:

10,000 ohms (input level control @ maximum)

INPUT CAPACITANCE:

50 picofarads

INPUT SENSITIVITY:

1 volt for 125 Watts

STABILITY:

Unconditionally stable, 2 to 20 ohms, into any speaker — open

PROTECTION:

Short, mismatch and open circuit proof — line voltage fused — speaker fused — thermal cut-out switch

TEMPERATURE:

Thermal protection 75°C

CONNECTORS:

Input — ¼ inch phone jack

Output — color coded plugs

DIMENSIONS:

18½" W x 12½" D x 7½" H

WEIGHT:

58 lbs.

MOUNTING:

19" rack mount kit available

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EPICURE

LEFT
CURRENT LIM

RIGHT
CURRENT LIMIT

LEFT
VOLTAGE LIM

RIGHT
VOLTAGE LIMIT

LEFT
HI TEMP

RIGHT
HI TEMP

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2 3
SPEAKERS

POWER

Current Overload
Voltage Overload
High Temperature

Illuminated Logo when
Power Switch On



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Speaker Switch 2

Power On-Off

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Speaker Outputs

Speaker Protection Fuse

Indicator Test Switches:
V.O. and C.O.
Hi Temp

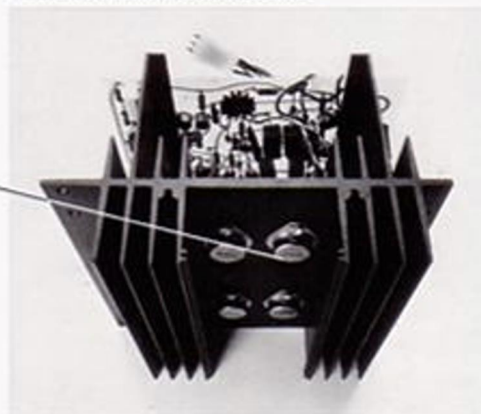
Oscilloscope Output for
Visual Monitoring

Easy-To-Service, Removable
Power Amplifier Module

Unique Epicure Multiple
Emitter-Site Epitaxial Output
Device

Oversized Power Transformer

20,000 MF, 85°
Computer Rated
Capacitor



Extra-Large Heat Sinks

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EPICURE

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