



SVT-50DL Isovent

INTRODUCTION

Designed to meet the needs of modern players, the SVT-50DL Isovent bass enclosure incorporates state-of-the-art acoustic engineering to accommodate the growing popularity of five and six string basses.

The SVT-50DL Isovent features include:

- Dual Low frequency drivers in a vented isobaric enclosure
- Two Midrange drivers in an monitor-style angled front face
- 600 watts total power handling at four ohms
- Bi-ampable
- High Efficiency Super Tweeter
- High Frequency Attenuator with an "OFF" position
- Extended Frequency Range - 32Hz - 20kHz (-6dB)
- Usable Low Frequency Limit - 25Hz (-10dB)
- Rugged plywood enclosure
- 16 gauge steel grills
- Heavy-duty detachable swivel casters

The SVT-50DL Three-way Isobaric full range bass speaker system offers distinct advantages over traditional multi-cabinet combinations. Perhaps the greatest advantage is its portability. The unit is designed to contain all elements of the large multi-cabinet systems in one compact enclosure. With the growing popularity of five and six string basses, many players use large bulky subwoofers to supplement their regular enclosures. This helps produce the fundamental frequencies below the traditional "E" string. (The fundamental frequency of the "E-string" is 42Hz, which is already at or below the cutoff frequency of most bass enclosures, and the "B-string" on a five string bass has a fundamental frequency of 32Hz, which means that the notes that are heard are either the second or the third harmonic). Ampeg's solution to the "unheard string" is the Isobaric (constant pressure) woofer configuration. Two 15" low frequency drivers are attached in a clamshell fashion; each facing the other. Wired out of phase from each other, the speakers maintain a consistent

tunnel of air as they move in unison like a piston. (By doing so, the overall compliance of the clamshell is half that of a single speaker). This transformation allows the inner cabinet volume to be considerably lower while achieving an incredible low frequency response. The Isovent section produces a low frequency response that matches enclosures twice its size (with a single 18" low frequency driver!) The computer designed cabinet is Thiele aligned with rear ports for extended bass response all the way down to 32Hz (-6dB).

Housed in their own enclosure inside the Isovent are two premium 10" speakers and a high efficiency Super tweeter. The monitor-style front face is angled to ensure optimum dispersion area for listening from three feet to over 20 feet. The tweeter can be locally controlled via an attenuator switch located on the crossover plate. This control even includes an "OFF" position.

The SVT-50DL is bi-ampable with each section capable of 300 watts RMS power handling or 600 watts in the "FULL RANGE" input.

OPERATION

To connect the SVT-50DL to your system, simply plug a 1/4" phone plug from your speaker cable into the "FULL RANGE" input. The "FULL RANGE" and the biamp "HIGH" are both hard wired together to allow multiple cabinets to be daisy-chained together, (subject to limitations of your amplifier).

For Biamp Operation: Once again, simply plug a 1/4" phone plug from the "High Out" of your crossover into either the "BIAMP HIGH" or "FULL RANGE" inputs and another from the "Low Out" of your crossover into the "BIAMP LOW" input on the jackplate. The input signal from the "FULL RANGE" or "BIAMP HIGH" jacks will be present at the SUB section until a plug is placed into the "BIAMP LOW" jack, where an internal switch disconnects the two. Each section has an impedance of 8 ohms and a power handling capability of 300 watts RMS.

SPECIFICATIONS

IMPEDANCE

NOMINAL	4.0 ohms
MINIMUM	3.5 ohms

RMS POWER HANDLING

600 watts (Full Range)
300 watts (Biamp)

MAXIMUM PEAK POWER

2400 watts

FREQUENCY RESPONSE

38Hz - 18kHz (-3dB)

FREQUENCY RANGE

32Hz - 22kHz (-6dB)

USABLE LOW FREQUENCY LIMIT (-10dB)

25Hz

NOMINAL SENSITIVITY

101dB 1w/1m

TRANSDUCER COMPLEMENT

2 - 15" Special Design Cast Frame Low Frequency Drivers
2 - 10" Premium Cast Frame Full Range Drivers
High Efficiency Super Tweeter

CROSSOVER POINT

5kHz

CROSSOVER SLOPE

12dB/octave

DIMENSIONS

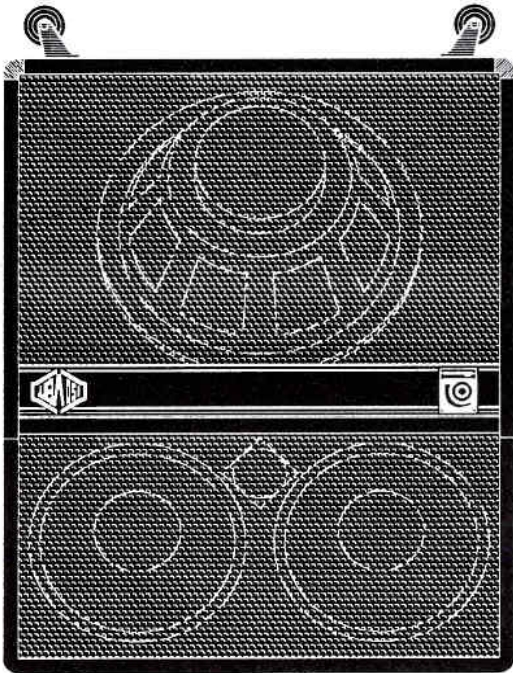
29" H x 23.75"W x 18.75"D

WEIGHT

134 lbs

Ampeg reserves the right to change specifications without notice.





SVT-50DL Isovent
Isobaric Three-Way
Extended Range Bass
Speaker System



Owner's Guide
for the



SVT-50 PRO/SVT-50 HE ISOVENT

INTRODUCTION

Designed to meet the needs of modern players, the SVT-50 PRO/SVT-50HE ISOVENT bass enclosures incorporate state-of-the-art acoustic engineering to accommodate the increasing popularity of five and six-string basses.

The SVT-50 PRO/SVT-50HE ISOVENT features include:

- Dual low frequency drivers in a vented isobaric enclosure
- Two midrange drivers in a monitor-style angled front face
- 600 watts total power handling at 4 ohms
- Biampability
- High efficiency Super Tweeter
- High frequency attenuator with an "off" position
- Extended frequency range: 32Hz to 20kHz (-6dB)
- Usable low frequency limit: 25Hz (-10dB)
- Rugged plywood enclosure
- 16 gauge steel grilles
- Heavy duty detachable swivel casters

The SVT-50 PRO/SVT-50HE three-way isobaric full range bass speaker system offers distinct advantages over traditional multiple cabinet combinations. Perhaps the greatest advantage is its portability. The unit is designed to contain all elements of large multiple cabinet systems in one compact enclosure. With the growing popularity of five and six-string basses, many players use large, bulky subwoofers to supplement their regular enclosures. This helps produce the fundamental frequencies below the "E" string (the fundamental frequency of the "E" string is 42Hz, which is already at or below the cutoff frequency of most bass enclosures, and the "B" string on a five-string bass has a fundamental frequency of 32Hz, which means that the notes heard are either the second or the third harmonic). AMPEG's solution to the "unheard string" is the isobaric (constant pressure) woofer configuration. Two 15" low frequency drivers are attached in a clamshell fashion; each facing the other. Wired out of phase from

each other, the speakers maintain a consistent tunnel of air as they move in unison like a piston. By doing so, the overall compliance of the clamshell is half that of a single speaker. This transformation allows the inner cabinet volume to be considerably lower while achieving an incredible low frequency response. The ISOVENT section produces a low frequency response that matches enclosures twice its size. The computer designed cabinet is Thiele aligned with front ports for extended bass response all the way down to 32Hz (-6dB).

Housed in their own enclosure inside the ISOVENT are two premium 10" speakers and a high frequency Super Tweeter. The monitor style front face is angled to ensure optimum dispersion area for listening three feet to over twenty feet. The tweeter can be locally controlled via an attenuator switch located on the crossover plate. This control even includes an "off" position.

The SVT-50 PRO/SVT-50HE is biampable with each section capable of 300 watts RMS power handling or 600 watts in the "FULL RANGE" input.

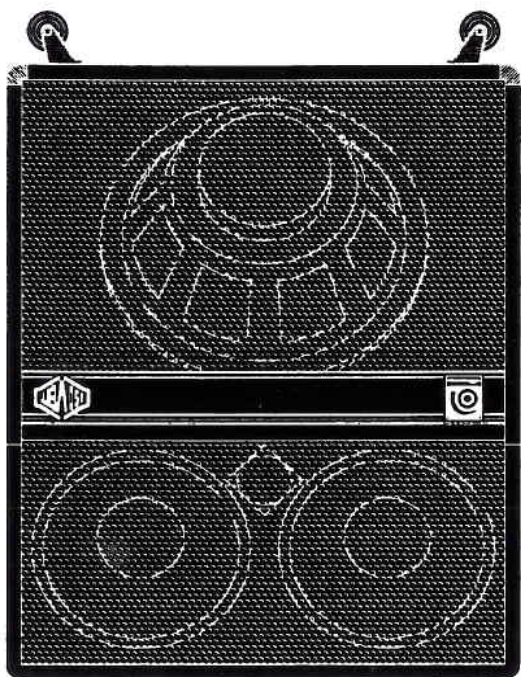
OPERATION

To connect the SVT-50 PRO/SVT-50HE to your system, simply plug a 1/4" phone plug from your speaker cable into the "FULL RANGE" input. The "FULL RANGE" and the biamp "HIGH" are both hard-wired together to allow multiple cabinets to daisy-chained (subject to limitations of your amplifier).

For biamp operation, simply plug a 1/4" phone plug from the "High Out" amplifier connector to your crossover into either the "BIAMP HIGH" or "FULL RANGE" inputs and another from the "Low Out" amplifier into the "BIAMP LOW" input on the jackplate. The input signal from the "FULL RANGE" or "BIAMP HIGH" jacks will be present at the SUB section until a plug is placed into the "BIAMP LOW" jack, where an internal SWITCH DISCONNECTS THE TWO. Each section has an impedance of 8 ohms and a power handling capacity of 300 watts.

SPECIFICATIONS	SVT-50 PRO	SVT-50HE
IMPEDANCE	NOMINAL 4.0 ohms MINIMUM 3.5 ohms	NOMINAL 4.0 ohms MINIMUM 3.5 ohms
RMS POWER HANDLING	600 watts @ 4ohms (full range) 300 watts @ 8 ohms (biamp)	600 watts @ 4ohms (full range) 300 watts @ 8 ohms (biamp)
MAXIMUM PEAK POWER	2400 watts	2400 watts
FREQUENCY RESPONSE	38Hz to 18kHz (-3dB)	38Hz to 18kHz (-3dB)
FREQUENCY RANGE	32Hz to 22kHz (-6dB)	32Hz to 22kHz (-6dB)
USABLE LOW FREQUENCY LIMIT (-10dB)	25Hz	25Hz
NOMINAL SENSITIVITY	101dB 1w/1m	101dB 1w/1m
TRANSDUCER COMPLEMENT	Two 15" Special Design cast frame low frequency drivers Two 10" premium Celestion drivers High efficiency Super Tweeter	Two 15" Special Design low frequency drivers Two 10" cast frame full range drivers High efficiency Super Tweeter
CROSSOVER POINT	5kHz	5kHz
CROSSOVER SLOPE	12dB/octave	12dB/octave
DIMENSIONS	29" H x 23.75" W x 18.75" D	29" H x 23.75" W x 18.75" D
WEIGHT	134 lbs.	134 lbs.

Ampeg reserves the right to change specifications without notice.



SVT-50 PRO/SVT-50 HE
ISOVENT

Harman

Owner's Guide
for the

*Isobaric Three-Way
Extended Range
Speaker System*