

# Sector Series

# SC25

## Line Source Column Speaker

Two way horn-loaded loudspeaker  
6 x APG ISOTOP™ drivers

### Features

Proprietary technology  
Vertical line source network  
Long throw beam coverage

### Applications

High precision mid/high frequency  
High precision vocal application  
Additional long throw system

### Specifications

1200 W AES  
112 dB SPL @ 1W, 1m  
12 Ohm  
Horizontal opening 60°  
Vertical opening 20°  
62.2" x 11.3" x 23" (1580 x 286 x 584 mm)

Mono amplification  
LPSC25 processor mandatory  
Optional subwoofer

The Sector SC25 column speaker is a two-way mid/high frequency line source comprising a network of six APG ISOTOP™ drivers loaded by a common horn of 1,6 meter high.

The exclusive waveguide uses an Isophase acoustic impedance adapter providing an efficiency that is comparable to traditional compression chambers, but with noticeably lower distortion and increased bandwidth and power handling. In fact, each driver is specified at 300 W AES / 8 ohms.

The 6 x APG ISOTOP™ drivers, each with unitary 6° vertical opening, are linked together vertically with a 3° angle. The resulting acoustic beam provides a constant coverage of 60° horizontal by 20° vertical. This exclusive assembly has a useful bandwidth of 250 Hz to 19 kHz with an efficiency higher than 108 dB SPL in the 600 Hz – 19 kHz bandwidth. The use of the LPSC25 processor is mandatory. It allows the optimization and complete protection of the Sector SC25 system in wideband mode or combined with subwoofers when low frequency reinforcement is required.

APG recommends the use of the following subwoofers: SUB238S, TB115S or TB215S.



Sector SC25 Speaker

The APG Sector series is characterized by its particular performance in terms of directivity and atypical acoustic beam generated in the mid/high bandwidth.

The Sector SC25 loudspeaker features the same vertical arrangement that can be found in small line array but with 6 x ISOTOP™ drivers offering a fixed curvature radius resulting in a 20° vertical acoustic beam in the high frequency band particularly efficient for high precision long throw applications or in difficult acoustic environments.

The SC25 is the ideal alternative solution to small size line arrays commonly used in vocal applications.

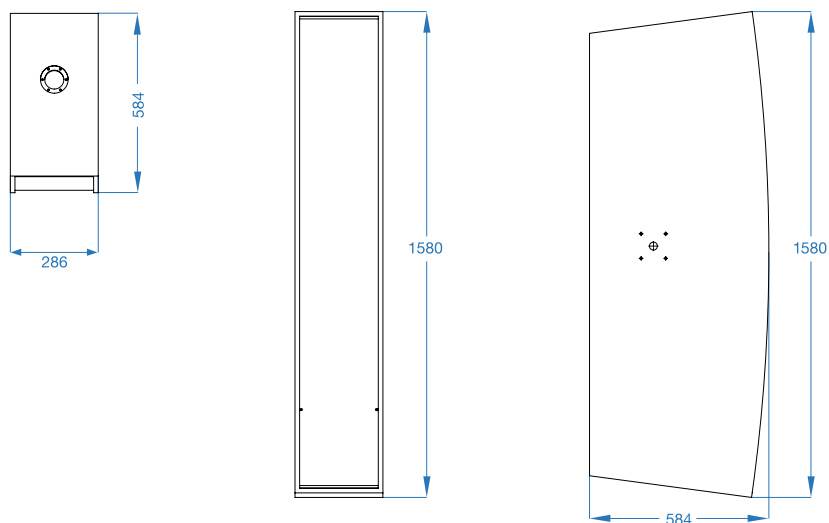
The application field of this speaker is very wide : vocal reproduction for stadiums, cathedrals, large outdoor sites, indoor theatre high precision reproduction, convention centers, opera houses, etc.

Since it uses the same collinear technology than the APG Matrix Array systems in the mid/high range, this loudspeaker can be used as complement in FOH systems constituted of APG4000 or APG6000 Matrix Array.

# APG

# SC25

## Technical Specifications



### Features

Frequency range with processor ( $\pm 3$ dB)	250Hz à 19 kHz
Sensitivity @1W 1m, $f > 500$ Hz	110 dB SPL
Maximum continuous level at 1m, $f > 500$ Hz	137 dB SPL
Peak level at 1m, $f > 500$ Hz	141 dB SPL
Directivity	60°H x 20°V (1)
Nominal impedance	6 Ohm

### High section

### Components

Transducers	6 x 6,5" + 6 x 1" HF coaxial driver
Coil diameter	50 mm (2") & 45 mm (1.75")
Type of load	Isotop™ et elliptical horn

### Power

Recommended amplifier	1200 to 2400 W / 4 Ohm
Peak	3600 W
AES (2)	1200 W

### Construction and characteristics

Cabinet	18 mm Finnish birch plywood
Coating	Black, impact resistant aquarethane
Connectors	2 SPEAKON NL4MP
Rigging	Specific lyre bracket ETSC25
Dimensions (H, W, D)	62.2" x 11.3" x 23" (1580 x 286 x 584 mm)
Net unit weight	154 lb (70 kg)

### Options and Accessories

ETSC25 (3)	Lyre bracket for SC25 speaker
INOX03 (4)	Stainless steel screws and waterproof treatment cone driver
TROPIC04 (5)	Full treatment : wooden cabinet, screws and HP
REPEINT07 (6)	Painting option according to RAL or PENTONE reference

### Signal Processing

The LPSC25 processor includes in addition to the standard functions, simulation of operating parameters that allows control of diaphragm displacement, voice coil temperature and amplifier clipping. This processor also provides selection and phase alignment of the subwoofers.

(1) Dispersion is controlled from 500Hz. The angles given here are irrelevant below this frequency.

(2) In order to take full benefit of the dynamic performance, sonic quality and reliability of the speakers, the recommended amplification must at least correspond to the AES rating. Lesser amplification is acceptable for applications requiring less power (near-field, distributed systems,...), whilst not being less than half the AES rating. The AES power handling corresponds to a 2 hour test using weighted pink noise (peak factor of 6dB) through a frequency range of one decade.

(3) ETSC25 is a steel bracket allowing installation of speakers on either wall or ceiling with angle adjustment.

(4) Stainless steel screws and waterproofing of speaker cones.

(5) Tropicalisation includes fiber-glass reinforced polyester coating of the cabinet, stainless steel screws and waterproofing of speaker cones.

(6) Paint preparation for the requested color.

**5 YEARS WARRANTY** \*A five years warranty covers passive filters, transducers and compression drivers. The warranty does not cover cosmetic damages and damages due to misuse, improper installation, or damages caused by alterations.

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