

# Subwoofers

## Compact Subwoofer

1 x 15" ventilated cone driver  
SUB138P : 3" voice coil  
SUB138PS : 4" voice coil  
Dual interactive chamber

## Features

Minimum height and width  
Accuracy in low frequency reproduction  
Very dynamic response

## Applications

Fixed installation  
Very compact mobile system

## Specifications

45 Hz - 300 Hz  
100 dB SPL @ 1W à 1m  
8 ohms  
14.2" x 19.3" x 21.3" (360 x 490 x 540 mm)  
1 thermal protection

SUB138P : 500 W AES  
SUB138PS : 1000 W AES

Processor required

The SUB138P and SUB138PS are very compact and efficient subwoofers for either fixed installations or mobile applications. They use one 15" speaker loaded by a dual interactive chamber.

This technology offers the advantages of using a small volume for the load of the speaker, high efficiency in the usable bandwidth and perfect control of the excursion of the diaphragm.

These subwoofers are highly efficient and very accurate.

Using the acoustic load concept that is found in the APG Matrix Array systems, the SUB138P and SUB138PS offer very high dynamic capacity in regards to their very compact size.

The operation of the SUB138P and SUB138PS subwoofers requires the use of an APG processor. All APG stereo processors include a mono subwoofer output.

# SUB138P SUB138PS



Subwoofer SUB138PS

The SUB138P and SUB138PS are dedicated to low frequencies reinforcement of sound systems from small to large configurations when floor space saving become mandatory.

The SUB138PS, which acceptance power is twice the one of the SUB138P is perfect for critical configurations where acoustic pressure in the low frequencies must be optimum in accordance to available volume of a room.

In fixed installations, the minimum dimensions of the cabinet authorize to integrate them in the design of the place, for example below seats, small stage or flown on the ceiling.

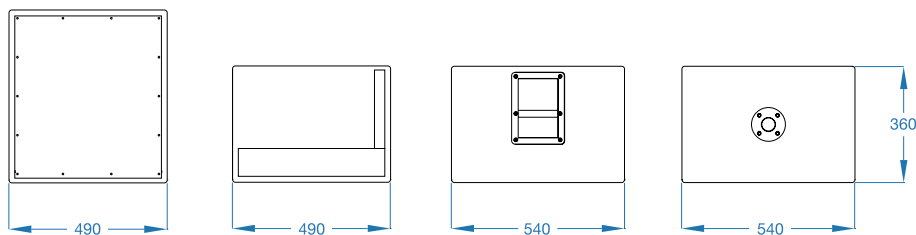
They are ideal for theatre, conference room or multi-media applications. They allow creating efficient and compact FOH in bars, small clubs or mobile sound systems. These subwoofers are perfect for distributed sound in large scale installations. Their compactness offers very discrete low frequency reinforcement for "drum fill" application.

The SUB138P/PS reproduces frequency band width from 45 Hz allowing very precise low frequencies even in unfavorable acoustic environment.

# APG

# SUB138P/SUB138PS

## Technical Specifications



### Features

	SUB138P	SUB138PS
Frequency range with processor ( $\pm 3$ dB)	45 Hz to 100 Hz (1)	45 Hz to 100 Hz (1)
Sensitivity @ 1W 1m	100 dB SPL	100 dB SPL
Maximum level @1m	125 dB SPL	128 dB SPL
Peak level @ 1m	129 dB SPL	132 dB SPL
Normal Impedance	8 ohms	8 ohms

### Components

	SUB138P	SUB138PS
Transducers	1x15" w / ventilated driver	1x15" w / ventilated driver
Coil diameter	75 mm (3")	100 mm (4")
Type of load	Double Interactive Chamber	Double Interactive Chamber

### Power

	SUB138P	SUB138PS
Recommended amplifier	500 to 1000 W (2)	1000 to 2000 W (2)
Peak	1000 W	3000 W
AES	500 W (3)	1000 W (3)

### Construction and characteristics

Cabinet	18 mm Finnish birch plywood	
Overload protection	Thermal circuit breakers with automatic reload	
Finish	Black, impact resistant aquarethane coating	
Protection grill	Acoustically transparent perforated steel, thickness 1.5mm	
Front panel	Black, 10 mm acoustic foam	
Connectors	2 x SPEAKON NLM4P (4)	
Handle	1 x built-in metal bar	
Satellite speaker set up	1 x 36 mm, built in stand fitting	
Dimensions (H, W, D)	14.2" x 19.3" x 21.3" (360 x 490 x 540 mm)	
Net unit weight	59,5lb (27 kg)	64lb (29 kg)
Gross weight packed	66,1lb (30 kg)	70,5lb (32 kg)

### Options and Accessories

FAERO4 (5)	4 Aeroquip™ flying rings
INOX02 (6)	Stainless steel screws and waterproof treatment cone driver
TROPICO2 (7)	Full treatment : wooden cabinet, screws and HP
REPEINT04 (8)	Painting option according to RAL or PENTONE reference

### Signal Processing

The dedicated APG processors we offer for our range of systems, allow to combine different types of subwoofers with loudspeakers satellite. These processors provide active crossover, EQ, speakers protection, standard filtering functions for a stereo system including subwoofers.

(1) The frequency response is limited to 100Hz by the low pass filters on the APG processors. However the SUB138P and SUB138PS can be used up to 300 Hz.

(2) These power levels apply to the use of one single enclosure (8 ohms), for two enclosures (4 ohms) the power level is doubled.

(3) 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.

(4) The SPEAKON connectors are wired pin 1+, pin 1- and pin 2+, pin 2-.

(5) AEROQUIP™ system to allow speaker installation with safety slings.

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

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

(8) 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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