

Subwoofers

Low frequency speaker

1 x 15" ventilated cone driver, 3" voice coil
Dual interactive chamber

Features

Very compact dimensions
Good size/power ratio

Applications

Distributed sound
Discrete fixed installation
Integration in building design

Specifications

45 Hz - 300 Hz
100 dB SPL @ 1W / 1m
500 W AES
8 Ohm
14,2" x 19,3" x 21,3" (360 x 490 x 540 mm)

Single channel amplification
Processor mandatory

The APG SUB15MXN is a low frequency subwoofer conceived to provide low frequencies reinforcement for small and medium size sound system where space is limited.

It features a 15" ventilated cone driver loaded by a double interactive chamber. This technology allows to considerably reducing the air load volume, increase the efficiency on the bandwidth and gives perfect control on the excursion of the diaphragm. With a 500 W AES power, the SUB15MXN offers a SPL/size ratio very advantageous. The enclosure comprises one integrated grips and a 36 mm pole mount socket to allow configuration with APG loudspeaker.

Operation of this subwoofer requires the use of an APG stereo processor. All processors feature a mono subwoofer output.

SUB15MXN



Subwoofer SUB15MXN

The APG SUB15MXN is conceived to offer the best solution between dimensions and the low cut in the frequency response. They are exclusively dedicated to applications where space is limited.

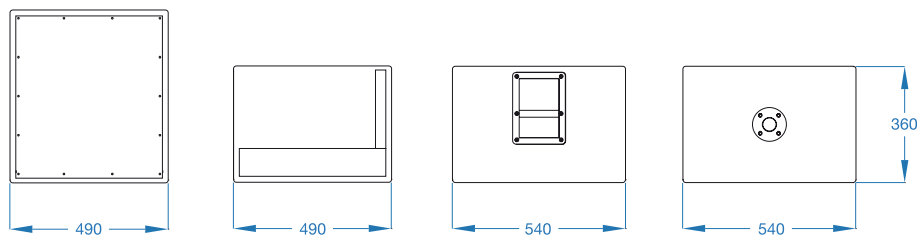
In fixed installation their minimum height allow to easily integrate them into the design of the place to be sounded, for example by putting them under seats or small stage or by fixing them on the ceiling. Their installation is ideal to provide nice and discrete low frequencies reinforcement for conference, congress or other audio visual applications. They creates efficient and compact FOH systems in bars, café concert and small discotheques. They are perfectly appropriate to distributed low frequencies reinforcement in large area.

The SUB15MXN start from 45Hz. They must be used with APG processors and with the loudspeakers they are recommended for.

APG

SUB15MXN

Technical Specifications



Features

SUB15MXN

Frequency range with processor (± 3 dB)	45 Hz to 100 Hz (1)
Sensitivity @ 1W / 1m	100 dB SPL
Maximum continuous level at 1m	125 dB SPL
Peak level at 1m	130 dB SPL
Nominal Impedance	8 Ohm

Components

Transducer	1 x 15"
Coil diameter	75 mm
Type of load	Double Interactive chamber

Power

Recommended amplifier (2)	500 to 1000 W
Peak	1500 W
AES (2)	500 W

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 1.5 mm
Front panel	Black, 10 mm acoustic foam
Connectors	2 x SPEAKON NLM4P (3)
Handles	1 x built-in metal bar
Top 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)
Net unit weight	60 lb (27 kg)
Gross weight packed	66 lb (30 kg)

Options and Accessories

FAERO4 (4)	4 Aeroquip™ flying rings
INOX02 (5)	Stainless steel screws and waterproof treatment cone driver
TROPIC02 (6)	Full treatment : wooden cabinet, screws and HP
REPEINT04 (7)	Painting option according to RAL or PENTONE reference

Signal Processing

The dedicated processors APG offers for its range of systems allow their combination with several types of subwoofers. These processors provide system alignment, cross-over, infrasonic and ultrasonic protection and distribution of signals for a stereo system including subwoofers.

(1) Frequency response is restricted to 100Hz in the processor. SUB15MXN provides useful response up to 300 Hz.

(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) The SPEAKON connectors are wired pin 1+ hot, pin 1- cold.

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

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

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

(7) 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.

Printing : October 2010

APG has a comprehensive research and development policy for the continual improvement of its products and service. Due to this, new materials, manufacturing methods and technological changes may be introduced without prior notice. As a result, an APG product can differ from its published description in certain areas. However, unless otherwise indicated, its characteristics will always equal or better the published specifications.