

Subwoofers

Low frequencies Subwoofer

One Neodymium 15" with 4" ventilated voice coil.
Dual Interactive chamber with K-Horn™.

Features

High efficiency and high power
Low thermal compression and distortion
Compactedness & handiness

Applications

Low frequency sound reinforcement
High power & high precision
Versatile application FOH/Monitor

Specifications

45 Hz – 200 Hz
1150W AES
SPL @ 1W / 1m 102 dB
SPL Max @ 1m 138 dB
8 Ohm
20.8" x 23.6" x 23.6" (530 x 600 x 600 mm)

Single channel amplification
Processor mandatory

The APG TB115S is a subwoofer designed to provide low frequencies reinforcement from medium to high power systems.

It is equipped with one convection cooling Neodymium 15" woofer loaded by a low pass type double interactive chamber. This type of load allows optimizing the efficiency by 3 dB gain on the bandwidth. The front chamber opens on a K-horn™ design giving it an additional 3 dB gain.

Associated to the convection cooling technology used with the neodymium woofer thermal compression is reduced by nearly 2 dB. All these optimization naturally conduct to a very impressive dynamic and an important Max SPL.

The ergonomics of the cabinet associated to the use of neodymium woofer allow substantial weight reduction. Handling is secured by 2 recess handles. The KR80 option features 4 rotating casters allowing "convoy" style haulage.

The TB115S must be used with an APG dynamic processor from LP series or a digital processor (DMS26 or DMS48F).

The TB115S has been designed for low frequency reinforcement of DX8, DX12, MC1, MC2, MX1, MX2, MX4N, SC25 speakers.

TB115S



Subwoofer TB115S

The TB115S subwoofer offers high quality ergonomics and sound performances.

It provides a power/size ratio extremely advantageous. Its sound pressure capacity associated to its high quality sound reproduction generates strong impact feelings.

The acoustic load provides an excellent control over the diaphragm displacement increasing the mechanical reliability while diminishing the harmonic distortion. Its acoustic performances are far higher than conventional bass-reflex subwoofers equipped with direct radiation drivers.

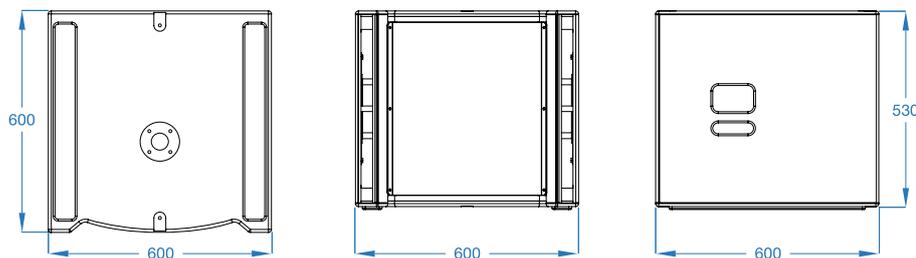
Design & ergonomics are studied to allow all type of handling by only one person. The TB115S is suitable for various configurations: network line, cardioids source, "arc sub" design, etc. APG supply software and parameters for all mentioned configurations.

The TB115S must exclusively used with APG processors and loudspeakers.

APG

TB115S

Technical Specifications



Features

TB115S

Frequency range without processor (± 3 dB)	50 Hz to 200 Hz
Frequency range with processor (± 3 dB)	45 Hz to 80 Hz (1)
Sensitivity @ 1W / 1m	102 dB SPL
Maximum level @ 1m	132 dB SPL
Peak level @ 1m	138 dB SPL
Nominal impedance	8 Ohm

Components

Transducers	1 x 15" with internal cooling
Coil Diameter	4" (100 mm)
Type of load	Interactive chamber + K-Horn™ type

Power

Recommended Amplifier	1150 to 2300 W
Peak	3500 W
AES (2)	1150 W

Construction and characteristics

Cabinet	15 mm Finnish Birch plywood
Coating	Black impact resistant aquarethane coating
Protection Grill	Acoustically transparent perforated steel, 2mm thick
Front panel	Black, 10 mm acoustic foam
Connectors	2 x SPEAKON NL4MP (3)
Handles	3 recessed handles
Dimensions (H, W, D)	20.8" x 23.6" x 23.6" (530 x 600 x 600 mm)
Net unit weight	79 lb (36 kg)
Gross weight, packed	84 lb (38 kg)

Options and accessories

KR80 (4)	80 mm rotating wheels (x 4)
SCTB115S	Soft cover for 1 x TB115S
FAERO4 (5)	4 Aeroquip hooks
INOX03 (6)	Stainless steel screws & cone driver waterproof treatment
TROPIC03 (7)	Full treatment: cabinet, screws & cone driver waterproof treatment
REPEINT06 (8)	Painting option according to RAL or PANTONE reference.

Signal Processing

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

(1) Depending on the system used, the frequency response is generally limited to 80 Hz and sometimes limited to 60Hz or 100Hz by the APG processors. However the TB115S can be used up to 200 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 4 pins Speakon connectors are wired 1+, 1- in.

(4) The KR80 option comprises 80 mm rotating casters with brakes.

(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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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.