Subwoofers

TB118S

Low frequencies Subwoofer
One Neodymium 18" with 4" ventilated voice coil.
Dual chamber with K-horn™

Features
High efficiency and high power
Exceptional SPL Max & dynamic capacity
Low thermal compression and distortion
Compactedness & handiness

Applications
Low and Infra low sound reinforcement
High power & high precision
Versatile application FOH/Monitor

Specifications
35 Hz – 250 Hz
1300 W AES
SPL @ 1W / 1m 102 dB
SPL Max @ 1m 139 dB
8 Ohm
20.9" x 21.9" x 23.6" (530 x 810 x 600 mm)

Single channel amplification
Processor mandatory

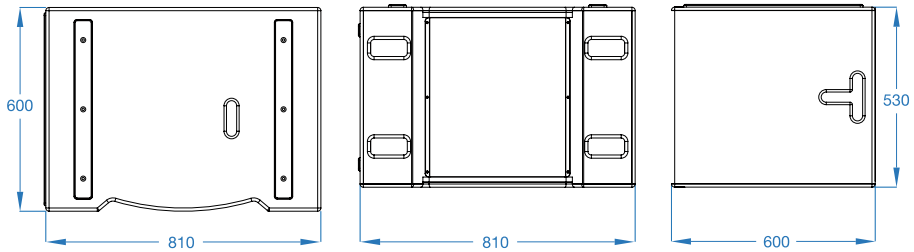
The APG TB118S is a subwoofer designed to provide low frequencies reinforcement from medium to high power systems.
It is equipped with a convection cooling Neodymium 18" woofer loaded by a low pass type double interactive chamber. This type of load allows limiting and distributing load's volume in order to obtain excellent ratio on size/acoustic power. The combination of Exclusive load (double chamber & K-horn) brings in the usable bandwidth an additional 4 dB gain compared to conventional direct radiation subwoofers.
Convection cooling technology used with the neodymium woofer reduces thermal compression by nearly 2 dB which confers to the TB118S an exceptional acoustic pressure capacity.
The ergonomics of the cabinet associated to the use of neodymium woofer allow substantial weight reduction. Handling is secured by 3 recess handles.
The KR100 or KR125 options features 4 rotating casters with wheels diameter of 100 mm and 125mm respectively.
The TB118S must be used with an APG dynamic processor for LP series, Matrix series or a digital processor (DMS26 or DMS48F).
The TB118S is ideally used for low frequency reinforcement with Matrix Array systems, Isoline series, Beam series and loudspeakers from Dispersion series such as the DX15 or SMX15.

Subwoofer TB118S

The TB118S subwoofer is a new generation infra bass subwoofer combining high acoustic performance with user-orientated ergonomics design.
It is characterized by its capability of producing high sound pressure level with accurate sound reproduction, precision and warmth.
The double interactive load offers an excellent control over the diaphragm displacement which increases the mechanical reliability and reduces the harmonic distortion, compared to conventional subwoofers featuring direct radiation.
Ergonomics allows all type of handling by only one person. The compactedness of the TB118S is suitable for the constraints of discreet fixed installation while the ease of handling will answer to the constraints of touring companies.
The TB118S subwoofer is specially designed to offers great musical quality optimized in the low frequency bandwidth.
The dimension of the TB118S is fully adapted to create network sources and manage low frequency directivity such as cardioids configuration, line source configuration, arc configuration, etc.

APG

TB118S
Technical Specifications



Features	TB118S
Frequency range without processor	(± 3 dB) 40 Hz to 140 Hz
Frequency range with processor	(± 3 dB) 35 Hz to 80 Hz (1)
Sensitivity @ 1W / 1m	102 dB SPL
Maximum continuous level@ 1m	133 dB SPL
Peak level @ 1m	139 dB SPL
nominal impedance	8 Ohm

Components

Transducers	1 x 18" neodymium with internal cooling
Coil Diameter	4" (100 mm)
Type of load	Interactive chamber + K-Horn type

Power

Recommended Amplifier (2)	1300 to 2600 W
Peak	3900 W
AES (2)	1300 W

Construction and characteristics

Cabinet	15 mm Finnish Birch plywood
Finish	Black impact resistant aquarethane coating
Protection Grill	Acoustically transparent perforated steel, 2 mm thick
Front panel	Black, 10 mm acoustic foam
Connectors	2 x SPEAKON NL4MP (3)
Handles	3 recessed handles
Dimensions (H, W, D)	20.9" x 31.9" x 23.6" (530 x 810 x 600 mm)
Net unit weight	95 lb (43 kg)
Gross weight, packed	103 lb (47 kg)

Options and Accessories

KR100 (4)	100 mm rotating wheels (x 4)
KR125 (4)	125 mm rotating wheels (x 4)
SCTB118S	Soft cover for 1 x TB118S
FAERO4 (5)	4 Aeroquip™ flying rings
INOX03 (6)	Stainless steel screws and waterproof treatment cone driver
TROPIC03 (7)	Full treatment : wooden cabinet, screws and HP
REPEINT06 (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 top speaker. These processors provide with active crossover, EQ, speakers protection, standard filtering functions for a stereo system including subwoofers.

(1) Frequency response is limited to 80 Hz by the low-pass filter of APG processors, however the TB118S can be used up to 140 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 KR100 & KR125 options are respectively 100mm and 125mm 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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