Subwoofers

TB218S

Very high power subwoofer

2 x 18" Neodymium with 4" ventilated voice coil.
Dual K-Horn™ Load

Features
Exceptional SPL Max / Dimension ratio
Exceptional sound pressure, warmth & precision
Unique internal convection cooling

Applications
Touring concert
High power low frequency extension
Large stacking application

Specifications
35 Hz - 250 Hz
2300 W AES
SPL @ 1W / 1m 105 dB
SPL Max @ 1m 144 dB
4 Ohm
28.2" x 45.7" x 28.2" (716 x 1160 x 716 mm)

Single channel amplification
Processor mandatory

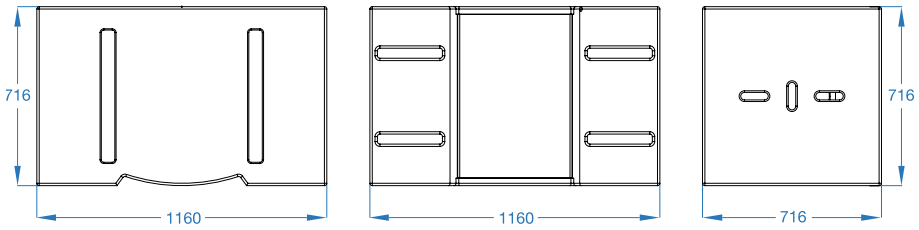
The APG TB218S is a low frequency subwoofer designed to complement high power sound systems. It is equipped with two Neodymium 18" cone speakers, mounted in a new generation dual interactive K-horn™ chamber.
This specific arrangement allows reducing load volume and creating a horn effect that increase efficiency by 4 dB and allows controlling cone excursion.
The TB218S boasts a very high {efficiency X bandwidth} product, making it one of the most efficient on the market.
Extensive study of ergonomics has been conducted to ensure the highest level of comfort in handling, transportation and storage. The optional KR100 and KR125 offers the possibility to the TB218S to receive four large rotating casters, allowing “convoy” style haulage, or “wheelbarrow” style handling.
A total of eight handles for all types of manipulation associated to its limited weight (163 lb) makes it easy to handle in any environment
Optimization of the shapes and internal bracings has allowed 20% weight reduction whilst offering increased rigidity.
The TB218S must be used with an APG dynamic processor from LP series, Matrix series or a digital processor (DMS26 or DMS48).
The TB218S 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 TB218S

The TB218S is a new generation high-power subwoofer, combining the latest technological breakthroughs with user-oriented ergonomic design.
It is capable of producing exceptionally high sound pressure level, whilst offering punch, warmth and precision. The structural design of the cabinet, in conjunction with the use of neodymium magnets account for a significant weight reduction in comparison with traditional designs, to the point where all handling and shifting, except straight lifting, can be done handily.
The TB218S is ideal for applications requiring high sound pressure at low frequencies. The frequency response, low distortion level and absence of thermal compression are up to the requirements of actual audio quality.
The TB218S is the complement of choice for Matrix Array systems, for Isoline Series, for Beam Series and large-scale systems based on DX15 or SMX15. The TB218S must be used with a suitable
APG dynamic processor.

APG

TB218S
Technical Specifications



Features	TB218S
Frequency range without processor	(± 3 dB) 35 Hz to 250 Hz
Frequency range with processor	(± 3 dB) 35 Hz to 80 Hz (1)
Sensitivity @ 1W / 1m	105 dB SPL
Maximum continuous level@ 1m	138 dB SPL
Peak level @ 1m	144 dB SPL
nominal impedance	4 Ohm

Components

Transducers	2 x 18" neodymium with internal cooling
Coil Diameter	4" (100 mm)
Type load	Reversed double K-Horn Load

Power

Recommended Amplifier (2)	2600 to 5200 W
Peak	7800 W
AES (2)	2600 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	6 built-in metal bar & 2 side handles
Dimensions (H, W, D)	28.2" x 45.7" x 28.2" (716 x 1160 x 716 mm)
Net unit weight	163 lb (74 kg)
Gross weight, packed	175 lb (79 kg)

Options and Accessories

KR100 (4)	100 mm rotating wheels (x 4)
KR125 (4)	125 mm rotating wheels (x 4)
SCTB218S	Soft cover for 1 x TB218S
FAERO4 (5)	4 Aeroquip™ flying rings
INOX03 (6)	Stainless steel screws and waterproof treatment cone driver
TROPIC04 (7)	Full treatment : wooden cabinet, screws and HP
REPEINT07 (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 TB218S is exploitable up to 250 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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