

## Subwoofers

### 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 @-3dB  
2600 W AES  
150 dB SPL Max @ 1m  
4 Ohms

Single channel amplification

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 digital processor DMS48F.

The TB218S is ideally used for low frequency reinforcement with Matrix Array systems, Uniline series and loudspeakers from Dispersion series such as the DX15 or SMX15.

# TB218S



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.

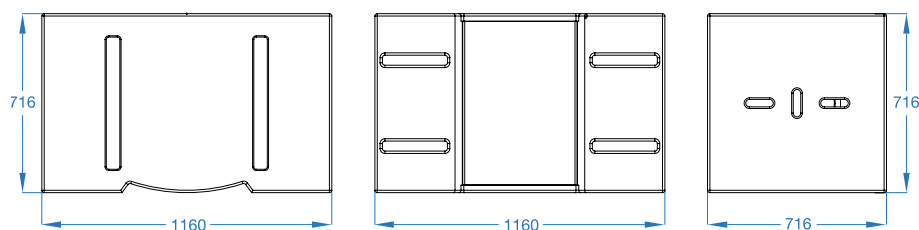
The TB218S is ideal for applications requiring high sound pressure at low frequencies. The frequency response, low distortion level and absence of thermal compression are up to the requirements of actual audio quality.

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 with processor ( $\pm 3$ dB)	35 Hz to 250 Hz (1)
Frequency range with processor ( $\pm 10$ dB)	28 Hz to 250 Hz
Efficiency dB SPL @1W/1m	105 dB SPL
Continuous dB SPL level @1m	138 dB SPL
dB SPL peak level @1m (3)	144 dB SPL
dB SPL max level @1m (2)	150 dB SPL
Nominal impedance	4 Ohms

### Components

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

### Power

Recommended amplification (4)	1800 to 5200 W
AES (4)	2600 W

### Construction and characteristics

Cabinet	15 mm Finnish Birch plywood / Black impact resistant aquarethane coating
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)
Connectors	2 x SPEAKON NL4MP (5)
Mechanical aspect: Handles	6 built-in metal bar & 2 side handles
Front face	Black, 10 mm acoustic foam / Acoustically transparent perforated steel, 2 mm thick
IP	43

### Options et Accessories

KR100 (6)	100 mm rotating wheels (x 4)
KR125 (6)	125 mm rotating wheels (x 4)
SCTB218S	Soft cover for 1 x TB218S
FAERO4 (7)	4 Aeroquip™ flying rings
INOX03 (8)	Stainless steel screws and waterproof treatment cone driver
TROPIC04 (9)	Full treatment : wooden cabinet, screws and HP
REPEINT07 (10)	Painting option according to RAL or PENTONE reference

### Electronics

Processors	DMS48F, DMS48F_D*
Amplifiers	SA20:2, SA30:2, SA100:2, DA15:4_D*, DA50:4_D*

D\* : Dante Option

(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) The AES2 Norm 1984 power handling corresponds to a 2 hour test using weighted pink noise (peak factor of 6dB) through a frequency range in 12dB/oct of one decade.

(3) AES2 Norm 2012 power handling corresponds to a 2 hour test using weighted pink noise (peak factor of 12dB) through a frequency range in 24dB/oct of one decade.

(4) 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.

(5) The 4 pins Speakon connectors are wired 1+, 1- in.

(6) The KR100 & KR125 options are respectively 100mm and 125mm rotating casters with brakes.

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

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

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

(10) 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.

Diffusion : November 2019

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.

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