

Uniline Series

Dedicated UNILINE subwoofer

One Neodymium 18" driver
with 4" ventilated voice coil
Complex band-pass load

Features

Very low frequency range
High efficiency and high power handling
Captive mechanical and rigging system

Applications

Complex hanging and/or stacking bass system
Very low frequency sound reinforcement
for Uniline system
Cardioid and/or sub arc directivity applications

Specifications

25 Hz – 80 Hz
800 W AES
102 dB SPL @ 1W / 1m
137 dB SPL Max @ 1m
8 Ohm
20.9" x 27.6" x 29.7" (530 x 700 x 755 mm)

Single channel amplification
Processor mandatory

The UL118B is a line array very low frequency subwoofer. It is fitted with one convection cooled Neodymium 18" transducer loaded by a double interactive chamber acoustic load. This type of load results a 3 dB gain before feedback and reduced distortion thanks to excellent control over the diaphragm displacement. This, combined with the convection cooling technology used with the neodymium woofer, means that thermal compression is reduced by nearly 2 dB. All these optimizations lead to impressive dynamics and a very high maximum SPL.

The ergonomics of the UL118B are particularly well developed to enable easy and efficient combination with all the other Uniline system elements. The enclosure features a fully integrated 4-point rigging system, 16 recessed handles, two rear connectors and two front connectors dedicated to wiring of cardioid configurations. The UL118WB transport dolly will take up to three UL118Bs stacked and secured to the wheelboard by the rigging system. An optional cover is available for two UL118Bs. The ULTRUSS bumper is compatible with all Uniline loudspeaker elements whilst ULSTACK accessory is designed for single array, small format Uniline systems.

The use of APG digital processor is mandatory for UL118B.

UL118B



UNILINE UL118B very low frequency speaker

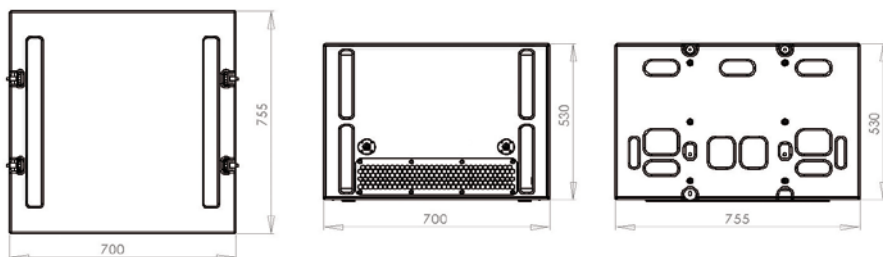
The UL118B is the dedicated infra-bass subwoofer of the APG Uniline line array system. Its sophisticated ergonomics enable easy, safe and intuitive transport and handling. The integrated 4-point rigging system is designed to enable cardioid configurations with multiple speakers inverted within a vertical or horizontal array. The rigging system allows all types of installation: Flying a single cluster of UL118Bs or complex groups combining UL118B and UL210/D. Indeed, the UL118B are perfectly designed to be coupled in a vertical array either with other UL118Bs or in combination with UL210/D line array speakers. Thus all bass system configurations are possible, from horizontal or vertical line arrays, to cardioid or arc configurations, or even cardioid arcs, flown or groundstacked.

Lifting and flying UL118B clusters is performed with the same bumper and accessories as the other Uniline system elements. The UL118B is aimed primarily at sub-bass reinforcement for the Uniline system, but is equally compatible with other APG speakers, such as the Dispersion range.

APG

UL118B

Technical specifications



Features

UL118B

Frequency range without processor (± 3 dB)	35 Hz to 110 Hz
Frequency range with processor (± 10 dB)	25 Hz to 80 Hz (1)
Sensitivity @ 1W / 1m	102 dB SPL
Maximum level @ 1m	131 dB SPL
Peak level @ 1m	137 dB SPL
Nominal impedance	8 Ohm

Enclosure Components

Transducers	1 x 18"
Coil Diameter	4" (100 mm)
Type of load	Band-pass

Power Requirements

Recommended Amplifier (2)	800 to 1600 W
Peak	2000 W
AES (3)	800 W

Construction and characteristics

Cabinet	15 mm Finnish Birch plywood
Coating	Black impact resistant Aquarethane paint
Protection Grill	Acoustically transparent perforated steel grill, 2.5 mm thick
Connectors	4 x SPEAKON NL4MP (4)
Handles	16 recessed handles
Dimensions (H, W, D)	20.9" x 27.6" x 29.7" (530 x 700 x 755 mm)
Net unit weight	123 lb (56 kg)

Options et Accessories

UL118WB	Wheel Board/Dolly for transport of UL118B (1 to 4 stacked speakers)
SCUL118BH2	Soft cover for 2 x UL118B on dolly
UL118WBBS	Wheel Board/Dolly for transport of one single UL118B
SCUL118B	Soft cover for 1 x UL118B on dolly UL118WBBS
ULTRUSS	Versatile steel frame for Uniline rigging and stacking
FC2ULTRUSS	Flight case for 2 x ULTRUSS
ULSTACK	Stacking part for small & medium size Uniline configuration

Signal Processing

The dedicated APG processors allow combination of different types of subwoofers with top speakers. These processors provide with active crossover, EQ, speakers protection, standard filtering functions for a stereo system including subwoofers. For digital processors, APG provides an exhausted bank of presets of system configuration allowing creative, quick and secure deployment and offering a high level of stock modularity and compatibility.

(1) The UL118B frequency response is generally limited to 80 Hz. However thanks to the processor it is adjustable between to 60Hz or 110Hz depending on the system configuration.

(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.

(3) 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.

(4) The 4 pins Speakon connectors are wired 1+, 1- for back input connectors and 2+, 2- for the front connector.

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 : August 2015

APG has a policy of research and development aimed at improving its products. As such, new materials, manufacturing methods and changes in principle can be introduced without prior warning. As a result, an APG product may differ in some aspects to its published description. However, unless otherwise indicated, measurements and features will only exceed previously published data.