

# B18HPC(A)

HIGH POWER CARDIOID SUBWOOFER 18"/12"

SELF-POWERED OR BI-AMPLIFIED



# PROPHON

SOUND SYSTEMS



MADE IN SWEDEN  
SINCE 1985

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## PRESENTATION

**The B18HPC** is the latest innovation from Prophon Audio.

With cardioid dispersion pattern, very high power handling, high sensitivity, in a compact format, the B18HPC takes Low frequency emission and control to a new level.

Whether using as a subwoofer in a portable system with top speakers or with ground-stacked Line array, or in large venues, festivals and for the tour industry, B18HPC will amaze you!

Very few subwoofers on the market can reproduce such high SPL, with cardioid control in such a small format.

The Cardioid cancellation behind and to the side of the speaker not only lowers SPL on stage and behind the system, it also focuses, and steers the energy, beaming it in a controlled pattern forwards and to the sides.

Resulting in a higher SPL forwards, with line source / horn behaviour reaching further compared to regular subwoofers, with a more even SPL in the area where the sound is wanted.

Cardioid subwoofers are ideal for use with Line array and horn-loaded speaker systems, and we recommend our HX-series for portable use, and any of the speakers in the PLA-series Line Array systems.

The B18HPC uses two DSP-controlled amplifier channels in the system amplifier, for best optimization and cardioid result.

The active version (A) features 2x1500W class-D amplifiers with advanced on-board DSP, including four different presets for different cardioid center frequency cancellation, with one preset muting the 12" woofer, for using as a 1x18" subwoofer where a cardioid setup is not possible, like when placing in front of a wall.

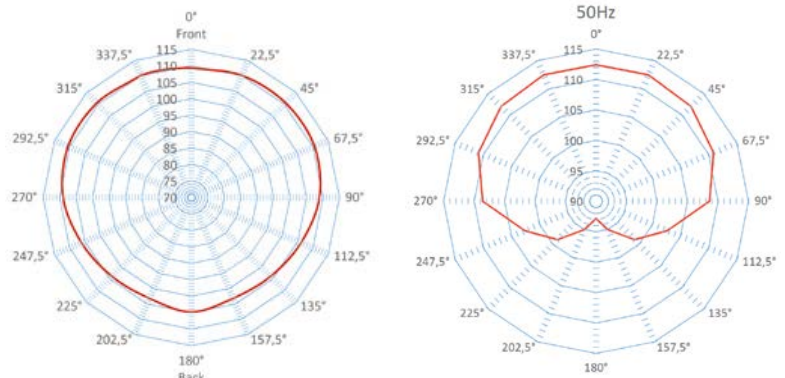


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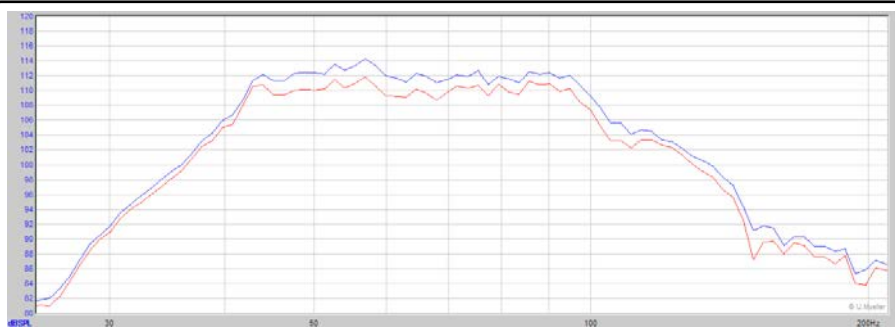
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## KEY FEATURES

- 18" / 12" Neodymium components
- Cardioid configuration with cancellation of SPL behind, and adding of SPL in front
- 4400W continuous power handling
- 139dB Max SPL cont. (142dB Peak)
- Line source behaviour with long throw and low loss of SPL over distance.
- Active (self-powered) and passive (Bi-amplified) versions available
- Passive version uses the 19" DSP systems-amplifier with 4 x 3kW power
- The active version houses 2 x 1500W class-D amplifiers with on-board DSP
- Several presets available depending on configuration and use.
- Designed for portable mobile use, installations and tour
- Six handles for easy rigging and handling
- castorplate / protection plate with easy snap-on hardwares on front and back.
- Stackable horisontal and vertical
- Designed, engineered, manufactured and assembled in Sweden



Comparison 50Hz, of a standard 18" subwoofer (to the left) with almost omnidirectional dispersion, with the B18HPC cardioid dispersion pattern (to the right) with cancellation behind and to the sides



Comparison of regular 18" subwoofer (red) and B18HPC (blue) SPL forwards. the 12" cardioid woofer not only create a cardioid pattern with cancellation behind and to the sides of the subwoofer, it also adds about 2dB forwards.

B18HPC as a high-power, compact portabel, mobile sound system with the HX8 - High Power 3-way horn-loaded point-source speaker, perfect for live performance, recorded music, events, tour, rental and installation, either as active self-powered system, or with 19" systems DSP-amplifiers.

## Technical specifications B18HPC - Cardioid subwoofer

Construction	Cardioid, frontloaded, bassreflex.
Components facing forwards	18" Neodymium woofer, with 4" voice coil
Components facing backwards	12" Neodymium woofer, with 4" voice coil
Sensitivity	101dB, 1W/1m.
Nominal impedance	2x8 ohm
Power handling RMS	1200W + 1000W
Power handling cont.	2400W + 2000W
Power handling peak	4800W + 4000W
Max SPL (calc.)	139dB cont 1441dB peak
Frequency response	35Hz - 110Hz (-6dB)
Measurements	H720 x W500 x D800
Weight	60 kg.
Applications	<ul style="list-style-type: none"><li>• Portable subwoofer</li><li>• Installation</li><li>• Tour</li></ul>
Input connections	Neutrik NL4MP 1+/- 18" woofer 2+/- 12" woofer
Recommended DSP amplifiers Tour / Installation	PX4DSP, PX8DSP, P41200DSP
Recommended top	HX8, HX10, PLA2611, CXL152MP
Active version	
Amplifiers	2 x 1500W class-D
DSP	96kHz
Power input	Neutrik PowerCon
Signal input	Neutrik XLR in / link out
Presets	4 presets

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