

Hyper Hydra 10.1

2x18" Horn loaded subwoofer



Features

- Super impact horn
- Very high power sound emission
- Very limited rear emission problems
- Extreme sensitivity
- High energy efficiency with huge sound
- Unbeatable listening dynamics
- Excellent sound quality at all levels of listening
- Perfect adaptability to any musical genre
- Heavy duty composite construction, resistant to scratches and bumps
- All weather resistant
- Engineered for easy maintenance and repair
- Technologically advanced design
- Light weight for easy transport
- Simple installation and interface
- Customization of color and surface
- Unique design and appearance
- Reduced energy consumption compared to other powerful systems
- Cost per dB of SPL very reduced

Applications

- Large club spaces
- Outdoor events
- Medium/Big scale live events requiring high sound quality
- Impact events

Max Size of audience within the range of dispersion with two Hydra Hyper:

Indoor 2800
Outdoor 2000

(Recommendations vary depending on the type of subwoofer)

Introduction

The new Hydra Hyper subs are Pequod's new challenge in the field of horn-loaded subwoofers. The use of a pair of 18" high-power transducers, assembled in a specifically designed and optimized acoustic manifold, has allowed us to raise the bar a step forward, compared to the previous, already extremely high standard represented by Hydra Super. Like the standard Hydra, the new Hydra Hyper is a horn loaded subwoofer with circular section development, characterized by extreme sensitivity, dynamics and emission power, made with an incredibly rigid and light structure in durable composite materials. Unlike all other alternatives currently available, this low frequency loudspeaker has been realized without technical and dimensional compromises, being fully developed both in terms of length and radiating surface. Thus it achieves maximum acoustic performance combined with an elegant design and personality, always keeping dynamics and control front and center.

Nearly scratch proof surfaces and resistance to atmospheric agents combined with extremely high efficiency and world class sensitivity allow the Hydra to perform favorably compared with any product from the main competing brands. Hydra Hyper guarantees the perfect loading of low frequencies in sensitivity, depth, control and SPL expressed by the usage of few watts.

The most common subwoofers on the market (wooden box type) are horn loaded speakers with several internal turns, non-optimized sections and reduced length, leading to lower sensitivity, reflections that create distortions and ripples, and uneven loading. Therefore they need corrections by DSP with consequent mechanical stress caused by the excursion of the transducer, which creates more distortions while using the enormous amount of energy needed by the amplifier to obtain SPL. Hydra Hyper uses two manifolded high quality transducers of 18"(460mm). The structure is rigid, very light (considering the whole weight and the rate dB/Kg) The scenic impact is extraordinary and absolutely exclusive and unique on the professional sound market. The Hydra Hyper, folded version, is compact and reduced in height compared to the vertical version. Hydra Hyper 9.1 (vertical) and Hydra Hyper 10.1 (folded) have similar acoustic performance.



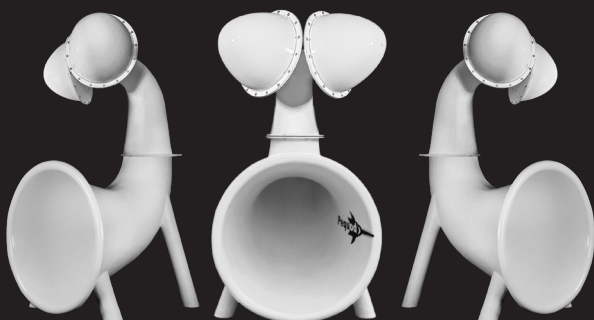
Architectural Specifications

Hydra Hyper is a super horn-loaded subwoofer that achieves very high performance. Built from high quality composite materials, highly resistant to damage from scratches and bumps. Absolute resistance to rain and sun. All metal parts are built from stainless steel. Hydra Hyper sensitivity starts from 113 dB 1W/1m, reaching the sensitivity of 115 dB 1W/1m depending on the configurations of the external environmental loading such as walls etc. Hydra Hyper uses two manifolded high quality transducers of 18" (460mm). All of this with a deep and controlled quality to the bass frequencies, with a reduced excursion of the two 18" transducers that decreases distortion and mechanical stress. The woofers are 18" (460 mm) Neodymium inside slug, 8 Ohm or 4 Ohm (depending on the versions); 3400W nominal power handling , 6800W power on continuous program. Hydra Hyper has a specific efficiency ratio 1.6 dB/Kg with 1W, and huge sensitivity 113 (115) dB 1W/1m. The above statistics show clearly a very low cost per dB of SPL. The frequency response, in a neutral environment, is linear and uniform, with no need for equalization corrections via DSP. Continuous power handling is 6800W, 8 Ohm or 4 Ohm (depending on the versions), is the recommended amplifier power to exploit, fully, the transducer without any clipping in the amplifier. corrections via DSP. Continuous power handling is 3400W, 8 Ohm or 4 Ohm (depending on the versions), is the recommended amplifier power to exploit, fully, the transducer without any clipping in the amplifier.

Warning

This is a professional audio system with very high efficiency and sensitivity with acoustic emissions that could potentially cause hearing damage. Installation and use intended for experienced and qualified personnel. Safety DSP devices with a limiter function are recommended.

TYPE	2x18" Horn loaded subwoofer
FREQUENCY RESPONSE	28 Hz – 140Hz (-3dB)
TOTAL SENSITIVITY	113 dB 1W/1m
SPL MAX	150 dB with 6800W
LOW FREQUENCIES	2x18" woofer @ 8 Ohm or 4 Ohm each (parallel connection), 3400W continuous power handling each, sensitivity 97 dB 1W/1m
NOMINAL IMPEDANCE	4 Ohm or 2 Ohm (depending on the version)
POWER HANDLING	6800W @ 4 Ohm or 2 Ohm with amplifier, 2 ohm stable
MANAGE	2 Ch amplifier to a couple of Hydra (stereo)+DSP to match to satellite. High-pass filter @25Hz, 24 dB/oct. But or higher slope ; Low-pass filter @100-120Hz, 24 dB/oct. LR.
RECOMMENDED AMPLIFIER	2 channel amplifier, around 7000W on each channel @ 2 ohm stable
DISPERSION	Specialized for frontal, reduced posterior
CONSTRUCTION MATERIALS	Fiber-reinforced composite, stainless steel
FINISH	all ral color and texture on order
CONNECTORS	1x Neutrik NL4 or custom preference
DIMENSIONS	(W) 1420 mm (H) 2760 mm (D) 1900 mm (W) 55 inch (H) 108 inch (D) 75 inch
WEIGHT	70 Kg (154 lb)



Pequod Acoustics Phone: +39 055 66 43 46

