

# VHD4.18 Technical Data Sheet

## Introduction

The VHD4.18 is a quad 18" subwoofer system, comprising of four individual loudspeaker cabinets. The objective is to make the system easy to transport and setup. When assembled, the VHD4.18 system becomes a high efficiency neodymium subwoofer system with immense output. The system was designed with very high sensitivity in mind; it provides 110 dB at 1W/1m and a tremendous output of 149dB when running at full power. Each cabinet incorporates a large port area that becomes an optimized horn aperture when all four cabinets are stacked together. The quad 18" subwoofer system delivers extreme output and controlled low frequency resolution.

## Features

- Professional, Baltic birch construction with highly resistant polymer coating
- Very High Definition low frequency reproduction
- 146dB sustained output / 149dB peak (using 4 units of VHD4.18)
- Large chamber horn reflex acoustic design
- Single 18" low frequency driver with 4" (100 mm) inside/outside, epoxy baked, high temperature voice coil assembly and neodymium magnetic structure
- Proprietary side handles (6) for simplified handling and carrying
- High impact low friction feet, allowing lock-in to other VHD cabinets and easy cabinet movement
- Front locking aluminium VHD wheel boards with wraparound hardwood bumpers
- Weather proofing option and special paint finishes available on request



## Application

Specifically designed to accompany the VHD2.0 and VHD1.0 as a true full range high output system for live performance and music

- Hire and Production
- Concert venues
- Large Theatres
- Scalable into multiple large systems
- Fixed installation

System Acoustic Performance	
Max SPL Long-term	146dB (4x VHD4.18)
Max SPL Peak	149dB (4x VHD4.18)
-3dB Response	36Hz to 100Hz
-10dB Response	31Hz to 100Hz
Impedance	8Ω
Crossover Point	100Hz

Low Frequency Section	
Acoustic Design	Horn reflex loaded
Subwoofer Amplifier Requirement	800W /1x VHD4.18 (VHD3200 amp.)
Woofer Size / Voice Coil Diameter / Design	18" / 4" / Inside Outside
Magnet Type	Neodymium
Diaphragm Material	Epoxy Reinforced Cellulose

Speaker Input	
Speaker Input	AP4 male

Speaker Output	
Speaker Output	AP4 female

Cabinet	
Cabinet Material	Baltic birch
Handles	6
Color	"Orange peeled" Matt Black or any RAL

Physical Dimensions	
Height	600 mm (23.62")
Width	700 mm (27.55")
Depth	750 mm (29.52")
Weight	52 kg (114.4lbs)

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## Architectural Specifications

The Loudspeaker shall be a Hybrid- Horn Loaded extreme output design, using SLA Technology - (Super Live Audio), and shall only be driven and controlled by a dedicated – matched Amplifier Controller.

The Loudspeaker enclosure shall consist of one 18" Neodymium magnet structure Low Frequency-high definition-output driver.

The cabinet enclosure shall be made from re-enforced Baltic Birch Ply, with toughened impact and wear resistant paint finish. The Loudspeaker woofer component shall be protected by an acoustically full size transparent rigid metal grille supported by absorbent rubber seals.

The enclosure shall incorporate two ergonomically designed recessed handles in each side panel and shall incorporate an additional single handle on the top and bottom panels. The enclosure shall incorporate two Aeroquip fly track rails on each side panel, and two short fly track rails centrally on the rear panel to facilitate overhead vertical enclosure suspension and connection to other VHD enclosures, by employment of a dedicated FLYBAR System. The enclosure shall incorporate four corner recessed wheel troughs on the rear panel to facilitate stacking for wheeled movement and transportation. The enclosure shall include four high impact, low friction feet on the top and bottom panel to allow enclosure locking into other VHD cabinets and easy movement.

The enclosure shall incorporate a recessed connection panel with integral cable secure point and will be fitted with a single input Amphenol AP4 locking connector and a corresponding thru/output for connection to other VHD subwoofers. The enclosure shall include four recessed Butterfly clip receptacles on each side panel for attachment of a protective Wheel board.

The Loudspeaker shall have a maximum long term pressure level of 146dB, (4 x VHD4.18), with a total peak power handling capacity of 800W, a measured frequency response of 36Hz to 100Hz (-3dB), 31Hz to 100Hz (-10dB). The Nominal Impedance shall be 8 ohm.

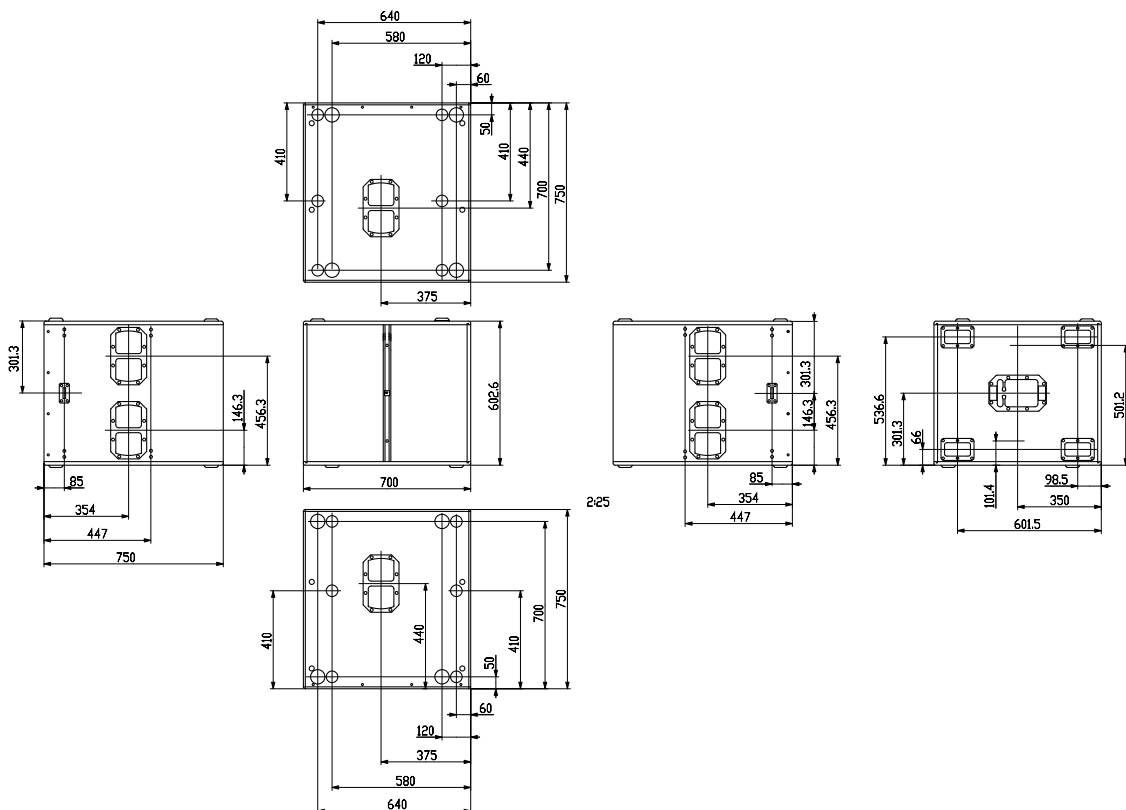
The Enclosure dimensions shall be: 600 mm / 23.62" x 700 mm / 27.55" x 750 mm / 29.52"

The Enclosure shall not exceed a weight of 52 kg / 114lbs.

The Loudspeaker shall be the KV2 Audio VHD4.18. The dedicated Amplifier/Controller shall be the KV2 Audio VHD3200.

The dedicated fly ware shall be the VHD FLYBAR System.

## Dimensional Drawings



The future of sound. Made perfectly clear.



KV2 Audio International, Nádražní 936, Milevsko 399 01, Czech Republic  
Tel.: +420 383 809 320  
Email: [info@kv2audio.com](mailto:info@kv2audio.com) | Web: [www.kv2audio.com](http://www.kv2audio.com)