

VHD8.10 Low Mid Module Technical Data Sheet

Product code: KVV 987 343

Introduction

When multiple low mid drivers are arrayed on a single axis, they sum providing a considerable increase in the amount of low mid energy present and available in the frequency range 200Hz - 500Hz. As more energy is required in this area in relation to higher frequency ranges, this summing effect helps deliver dynamic headroom in the system and keeps the overall sound presentation balanced. To provide the required energy in the low mid, needed to cover very large audiences, KV2 developed the VHD8.10 Low Mid Expansion Enclosure. The VHD8.10 carries a total of 8 front-loaded ten inch speakers and when a combination of 3 of these cabinets are added to each VHD5.0, a total of 32 ten inch speakers assure extended projection of low mid band frequencies with dynamic headroom over distance.



Application

Designed as a dedicated low mid enclosure to accompany the VHD5.0 mid high module as part of the VHD5 system

- Medium to large concert venues
- Fixed installation
- Outdoor events

System Acoustic Performance

Max SPL Long-term	135dB
Max SPL Peak	141dB
-3dB Response	45Hz to 400Hz (45Hz to 1100Hz when used standalone)
-10dB Response	45Hz to 400Hz (45Hz to 4200Hz when used standalone)
Crossover Point	400Hz
Impedance	4Ω
Sensitivity	104dB

Mid-Bass Section

Acoustic Design	Front Loaded - Bass Reflex
Mid-bass Amplifier Requirement	VHD5000S
Woofer Size / Voice Coil Diameter	8 x 10" / 2"
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium / Ferrite

Cabinet

Cabinet Material	Baltic birch
Handles	4
Color	Black (wear resistant polymer coating)

Physical Dimensions

Height	640 mm (25.20")
Width	1110 mm (43.7")
Depth	500 mm (19.69")
Weight	78 kg (172 lbs)

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Architectural Specifications

The Loudspeaker shall be a Direct Radiator Bass Reflex - extreme output design, using SLA Technology - (Super Live Audio), and shall only be driven and controlled by a dedicated – matched Amplifier Controller- the VHD5000S.

The Loudspeaker enclosure shall consist of Eight 10" Neodymium magnet structure Low Mid Frequency-high definition-output drivers.

The cabinet enclosure shall be made from re-enforced Baltic Birch Ply, with toughened impact and wear resistant plastic grain texture 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. The enclosure shall incorporate two side top and bottom propriety integrated flyware points, by employment of a dedicated PIN System for single or multiple suspension , as well as securing to the dedicated wheel cart for movement and transportation. The enclosure shall include four high impact, low friction feet on the bottom panel and multiple sunken locators on the top 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 LKI 09 MP.

The Loudspeaker shall have a maximum long term pressure level of 135dB, a measured frequency response of 45Hz to 400Hz (-3dB), 45Hz to 400Hz (-10dB).

The Enclosure dimensions shall be: 640 mm / 25.20" x 1110 mm / 43.7" x 500 mm / 19.69".

The Enclosure shall not exceed a weight of 78 kg / 172 lbs.

The Loudspeaker shall be the KV2 Audio VHD8.10. The dedicated Amplifier/Controller shall be the KV2 Audio VHD5000S.

The dedicated fly ware shall be the VHD8.10 FLYBAR System.

Dimensional Drawings

