

 **CERWIN-VEGA!**[®]

HED SLIM ***SUBWOOFER***



HS10DU2/HS10DU4/HS12DU2/HS12DU4

MANUAL

Cerwin-Vega HED slim subwoofers are engineered for superior bass performance when mounting depth is at a premium, with cutting-edge design and materials for durability and precision output. HED subwoofers deliver deep, impactful bass with minimal distortion, ensuring a high-fidelity listening experience even at extreme volumes.

As Dual 2-ohm and Dual 4-ohm configurations, Cerwin-Vega subwoofers offer flexibility in system design, allowing for optimized impedance matching with various amplifiers for peak performance.

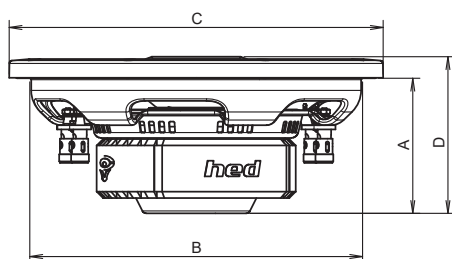
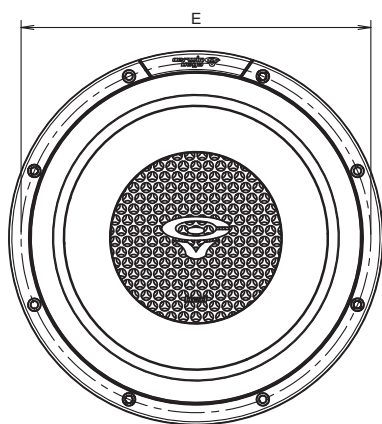
The HED Series slim subwoofers handle substantial power, making them ideal for high-output applications. With high excursion capabilities and solid hybrid polypropylene and treated paper cones, they maintain exceptional clarity and responsiveness under heavy loads, ensuring clean, powerful bass reproduction without compromise. Whether for everyday listening or competition-level performance, Cerwin Vega subwoofers deliver unmatched reliability and sound quality.

Features

HS10DV2/HS10DV4 - 10 INCH SUBWOOFER
HS12DV2/HS12DV4 - 12 INCH SUBWOOFER

- **Stitch-reinforced TPE Foam Surrounds**
- **Hybrid Polypropylene / Treated Paper Cone**
- **Strong Ferrite Motor Structure**

Dimension	Unit	HS10DV2/4	HS12DV2/4
Mounting Depth(A)	in.(mm)	3.74" (95mm)	4.25" (108mm)
Cut out Diameter(B)	in.(mm)	9.21" (234mm)	11.18" (284mm)
Over All Diameter(C)	in.(mm)	10.35" (263mm)	12.56" (319mm)
Over All Height(D)	in.(mm)	4.33" (110mm)	6.84" (123mm)
Outer edge diameter(E)	in.(mm)	9.68" (246mm)	11.73" (298mm)



Specifications

Specifications	HS10DV4	HS10DV2	HS12DV4	HS12DV2
SPL (dB)	80	82	83	84
Re (Ω) [Series]	4+4	2+2	4+4	2+2
Qms	4.49	4.91	4.59	6.6
Qes	0.81	0.75	0.76	0.83
Qts	0.69	0.65	0.66	0.74
Fs (Hz)	44	43	36	31
Vas (L)	17.15	17.27	48.94	52.05
Cms (mm/N)	0.084	0.084	0.105	0.119
Mms (g)	158.12	162.76	182.98	221.2
Sd (m ²)	149.75	154.39	167.49	206.39
BL (T*M)	9.53	14.84	9.47	14.35
Xmax (mm)	8	8	8	8
Pwr (W) NOM/MAX	350/1050	350/1050	400/1200	400/1200

Precautions

- **Connection Safety**
Keep speaker wires away from sharp edges and avoid pinching by trunk lid or moving parts. If no factory holes exist, drill carefully and protect wires with rubber grommets.
- **Installation**
Use provided mounting hardware and ensure a secure, stable fit without obstructing vehicle functions.
- **Electrical**
Use proper gauge wires with correct polarity. Ensure all connections are tight and inspect regularly.
- **Wire Protection**
All drilled holes must have rubber grommets for wire protection. Check wires for wear periodically.
- **Placement**
Adjust position for optimal bass response and balanced sound.
- **Maintenance**
Inspect regularly. Disconnect power if you notice distortion or unusual noises.

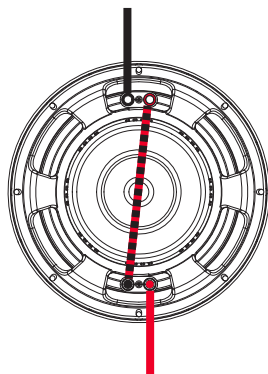
Wiring Configuration

HED slim subwoofers feature dual 2Ω or 4Ω voice coils. It is essential that both coils be connected to an amplification source. When the dual 2Ω voice coils are wired in parallel, they present a 1Ω load to the amplifier, while wiring them in series results in a 4Ω load. Similarly, for the dual 4Ω voice coils, a parallel connection yields a 2Ω load, and a series connection provides an 8Ω load. Make certain that your source unit or amplifier is rated for the appropriate ohm load to ensure proper operation.

Series Wiring

Dual 2Ω Voice Coils = 4Ω Load

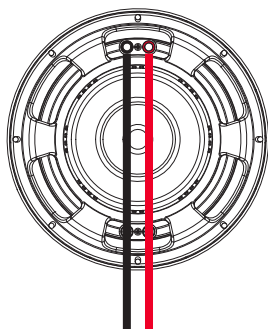
Dual 4Ω Voice Coils = 8Ω Load



Parallel Wiring

Dual 2Ω Voice Coils = 1Ω Load

Dual 4Ω Voice Coils = 2Ω Load



SUBWOOFER SIZE (All measurements are calculated Using 3/4" MDF)	SEALED ENCLOSURE			PORTED ENCLOSURE		
	Volume (net int.)	External Dimensions Width x Height x Depth	Volume (net int.)	Enclosure External Dimensions Width x Height x Depth	Slot Port Internal Dimensions Port Width x Port Height x Port Length	Port Extension Length "PE"
HS10DV2/4	1.0 ft ³	11" x 14.5" x 15.5" 279.4mm x 368.3mm x 393.7mm	1.25 ft ³	12" x 14.25" x 17.5" 304.8mm x 361.95mm x 444.5mm	1.25" x 12" x 21" 31.75mm x 304mm x 533.4mm	10.5" 266.7mm
HS12DV2/4	1.25 ft ³	13" x 14.5" x 16" 330.2mm x 368.3mm x 406.4mm	1.75 ft ³	14" x 16" x 18.25" 355.6mm x 406.4mm x 463.55mm	1.5" x 14" x 21" 38.1mm x 355.6mm x 533.4mm	12.5" 317.5mm

The graph shows Sound Pressure Level (SPL) in dB on the y-axis (ranging from 80 to 120) versus Frequency in Hz on the x-axis (logarithmic scale from 20 to 20,000). A solid blue line represents the 'Sealed Box' response, showing a smooth roll-off at high frequencies. A dashed red line represents the 'Vented Box' response, showing a sharp resonance peak around 40 Hz followed by a steeper roll-off at higher frequencies.

Two 3D perspective diagrams of rectangular enclosures. The left diagram shows a sealed enclosure with dimensions Width (W), Depth (D), and Height (H) labeled. The right diagram shows a ported enclosure with a circular port on one of the side faces, with dimensions W, D, H, and Port Diameter (PH) labeled.

A detailed cross-sectional diagram of the port. It shows the Port Length (PL), Port Extension Length (PE), and Port Width (PW) with arrows indicating the measurement directions.

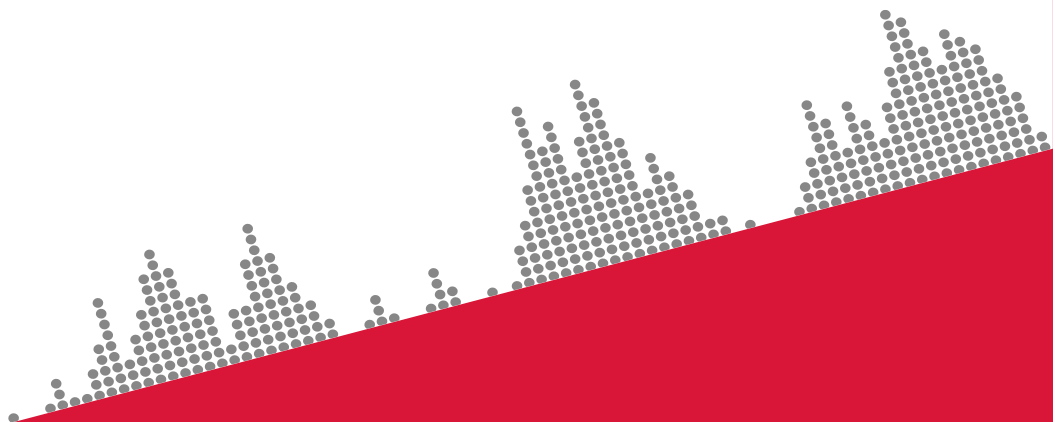
CAUTION
(The use of a sub-sonic filter set at a minimum of 30Hz is recommended on all vented enclosures.)

Warranty

CERWIN VEGA (a division of CV & DA Holdings, Inc.) warrants this product to be free from defects in material and workmanship for a period of one (1) year from the original date of purchase provided, it was purchased from an authorized Cerwin Vega, retailer within the United States.

THIS WARRANTY IS NOT TRANSFERABLE AND APPLIES ONLY TO THE ORIGINAL PURCHASE OF THIS PRODUCT IN ITS ORIGINAL INSTALLATION. The original purchaser must reside in the United States and be able to provide proof of purchase and installation with the sales from the authorized Cerwin Vega retailer and completion of online registration that sold and installed the product.

Should a manufacturing defect occur during above said warranty period, Cerwin Vega will replace or repair the defective product with a product of the same or equivalent value and performance. Damage or failure caused by any of the following is not covered under this warranty policy: burnt voice coils, negligence, improper use, abuse, product modification, unauthorized repair attempts, accident, acts of God, misrepresentations by Cerwin Vega retailers, and improper/inadequate packaging during return shipping.



 **CERWIN-VEGA!**

cerwinvega.com