



Ultimo Installation Guide

PowerSlim

PS104D
PS124D

Dear Customer,

Thank you for selecting the Morel Ultimo PowerSlim to satisfy your bass requirements.

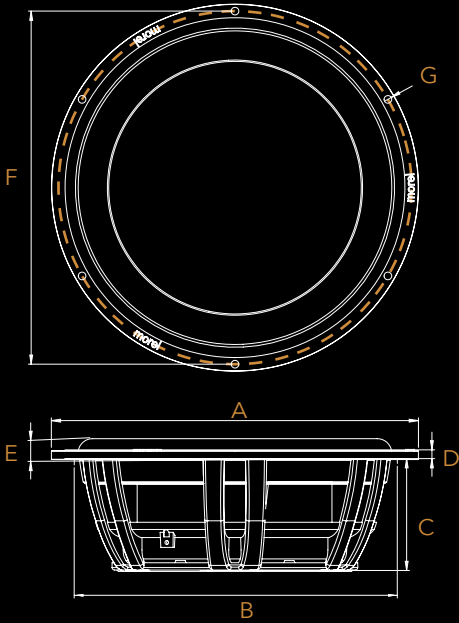
Since 1975, Morel has been focused on producing the best audio products in the industry. As a testament to our commitment, the Ultimo PowerSlim subwoofers were bestowed the esteemed EISA "Best In-Car Subwoofer" award for 2023-2024. This accolade defines Morel's relentless pledge to pioneer audio technology and delivering unparalleled sonic encounters.

Whether you chose them for their shallow dimensions and compact box requirements, or for high performance bass response, the Ultimo PowerSlim represent an extraordinary combination of audiophile bass quality, high power handling and ease of installation.

If you have any questions about the installation of your Ultimo PowerSlim, please contact your local authorized Morel retailer or our Morel support team at info@morelhifi.com or info@morelamerica.com.

We hope you enjoy your Ultimo PowerSlim subwoofers for years to come!

Dimensions



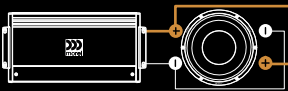
	PS104D	PS124D
A	10.35" (263 mm)	12" (305 mm)
B	9.1" (231.5 mm)	10.6" (268.6 mm)
C	3.15" (80.1 mm)	3.4" (86 mm)
D	0.25" (6.3 mm)	0.25" (6.3 mm)
E	0.6" (15 mm)	0.6" (15 mm)
F	9.96" (253 mm)	11.5" (292 mm)
G	0.22" (5.5 mm)	0.22" (5.5 mm)

Recommended Power

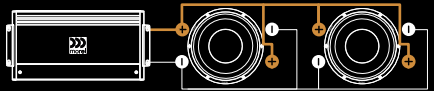
MODEL	MINIMUM	MAXIMUM
PS104D	350 w	700 w
PS124D	350 w	700 w

Voice coil wired in parallel (1-2 woofers)

2 Ω
Load

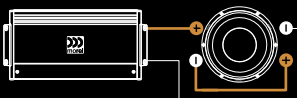


1 Ω
Load

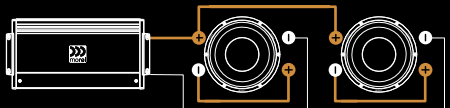


Voice coil wired in series (1-2 woofers)

8 Ω
Load



4 Ω
Load



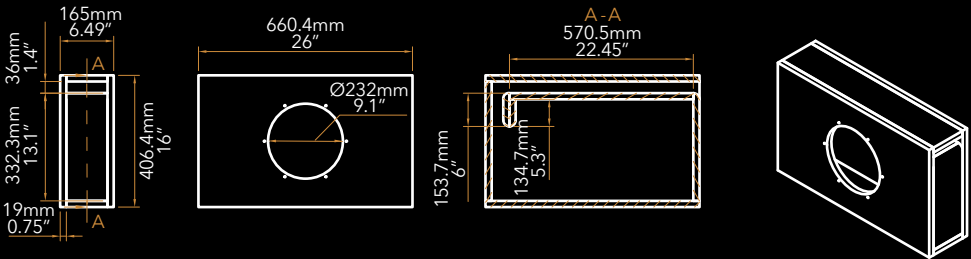
Enclosure Recommendations

The Ultimo PowerSlim series subwoofers were designed to perform, without compromise, in both vented (ported) and sealed enclosures. So how do you choose? If you are wanting to maximize the overall performance of your subwoofer, Morel highly advocates using a vented enclosure. However, if space is limited in your vehicle thus limiting it to a small enclosure, a sealed box is the desirable option.

Below are the recommended enclosures optimized to achieve a linear in-car bass response down to the lowest octave while optimizing power handling. For special enclosure recommendations, or for enclosures for multiple subwoofers, please contact the Morel technical department at info@morelhifi.com or tech@morelamerica.com.

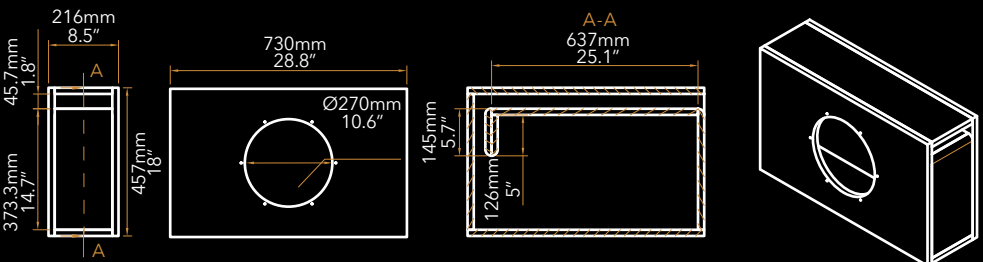
Recommended (Vented) Ported Enclosure

MODEL	VOLUME NET	PORT	TUNE TO
PS104D	0.8 cuft 22.7 L	W 5" x H 1.4" x L 32" W 127mm x H 35.6mm x L 813mm	26 Hz



* To help minimize noise from the vent, the inside corners and the vent opening should be radiused.

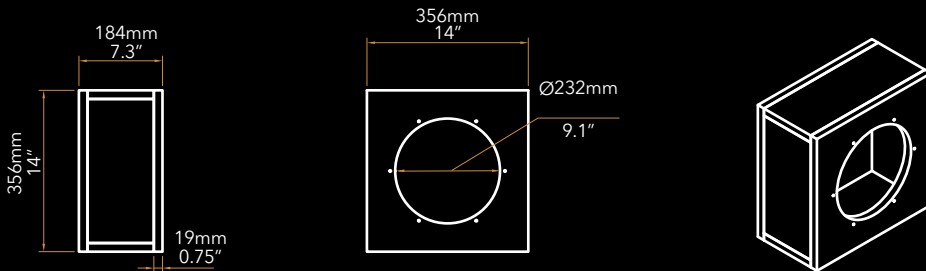
MODEL	VOLUME NET	PORT	TUNE TO
PS124D	1.4 cuft 39.36 L	W 7" x H 1.8" x L 35" W 177.8mm x H 45.7mm x L 889mm	24 Hz



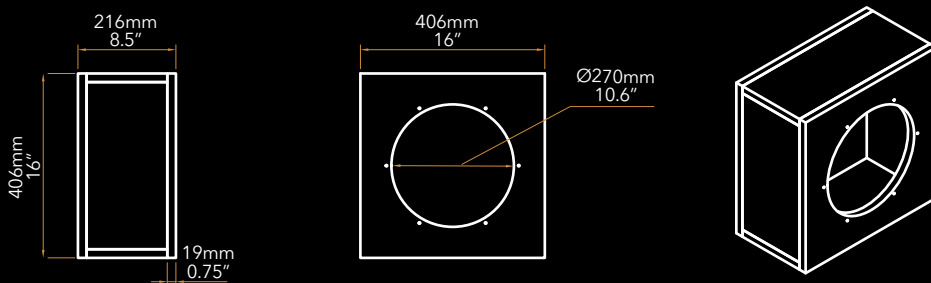
* To help minimize noise from the vent, the inside corners and the vent opening should be radiused.

Recommended Sealed Enclosure

MODEL	VOLUME NET	F3
PS104D	0.5 cuft 12.7 L	42 Hz



MODEL	VOLUME NET	F3
PS124D	0.8 cuft 22.7 L	36 Hz



*Please note that enclosure volumes are provided as net internal volumes. Speaker displacement (see parameters) and any internal bracing must be added to the net internal volume. If building a vented (ported) enclosure, be sure to add the total displacement of the vent including the construction materials used within the enclosure.

Specifications

	PS104D	PS124D
Overall Dimensions	10"	12"
Power Handling Wrms	700	700
Max. Trans. Pwr Handling Wrms	1800	2100
Sensitivity (2.83 V/1M) dB	82	83
Frequency response Hz	20-400	20-500
Resonance Freq. Fs Hz	29.1	24
Voice Coil Diameter mm (inch)	129.5(5.1)	129.5(5.1)
Voice Coil Height mm (inch)	30 (1.2)	30 (1.2)
Voice Coil Type/Formers	Aluminium	Aluminium
Voice Coil Wire	Hexatech™ Aluminium	Hexatech™ Aluminium
DC Resistance (ohm) * VC in parallel	1.6	1.6
Voice Coil Induct. @1 kHz (mH)	0.5	0.6
Magnet System	Double Magnet EVC	Double Magnet EVC
HE-Magnetic Gap Height mm (inch)	8 (0.3)	8 (0.3)
BL Product/BXL	8.1	9.1
Max. Linear Ex./Xmax mm (inch)	±11mm (0.31)	±11mm (0.31)
Electrical Q Factor QES	0.9	0.7
QTS	0.7	0.6
QMS	3.6	3.6
Moving Mass MMS - gr/os	203 (7.2)	252.1 (8.9)
Equiv. Can Air Load VAS - L (cu.ft)	25(0.9)	49.4 (1.7)
Effective Piston Area SD sq.cm (sq.inch)	346.4 (53.7)	452.4 (70.1)
Cone Type	Flat Honeycomb	Flat Honeycomb
Cone Material	4 Layers Carbon	4 Layers Carbon
Unit Diameter mm(inch)	262.6 (10.3)	305 (12)
Mounting Depth mm (inch)	79.6 (3.1)	86 (3.4)
Mounting Cutout	231.5 (9.1)	268.6 (10.6)
Net Weight gr	4720	5500

* Morel is constantly developing new technology and processes to improve its products. Morel reserves the right to modify specifications or change product design without notice.

Wishing you many years of sound enjoyment!



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