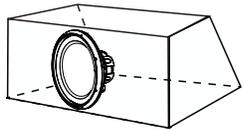
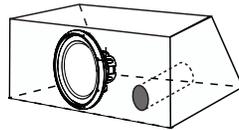


# Recommended Enclosures



sealed

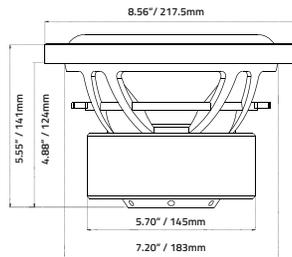


ported

## QWX4000/8D4

**Sealed Enclosure**  
Box Volume: .66 cu ft

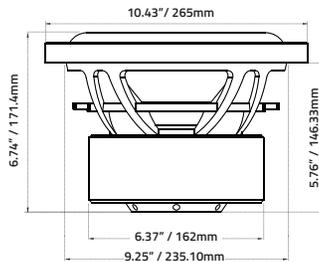
**Ported Enclosure**  
Box Volume: 1.16cu ft  
Box Tuning: 38 Hz  
Port Area: 9.62 sq in  
Port Length: 16in



## QWX4000/10D4

**Sealed Enclosure**  
Box Volume: 1.34cu ft

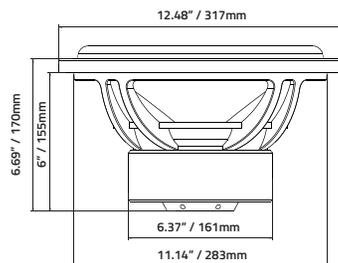
**Ported Enclosure**  
Box Volume: 1.57cu ft  
Box Tuning: 38 Hz  
Port Area: 12.57 sq in  
Port Length 15 in



## QWX4000/12D4

**Sealed Enclosure**  
Box Volume: 1.50cu ft

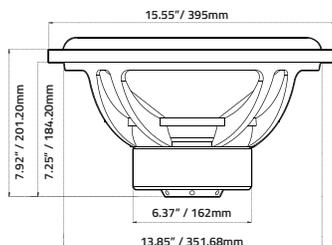
**Ported Enclosure**  
Box Volume: 1.85cu ft  
Box Tuning: 35Hz  
Port Area: 12.57sq in  
Port Length 14in



## QWX4000/15D4

**Sealed Enclosure**  
Box Volume: 2.82cu ft

**Ported Enclosure**  
Box Volume: 2.96cu ft  
Box Tuning: 35Hz  
Port Area: 19.63sq in  
Port Length 11in



**QWX4000/8D4**  
**QWX4000/10D4**  
**QWX4000/12D4**  
**QWX4000/15D4**

**Installation Instructions / Owner's Manual**



DB Research L.L.P.

DB Research L.L.P. ■ 302 Hanmore Industrial Parkway ■ Harlingen, TX 78550  
Ph: (877) 787-0101 ■ Fax: (956) 421-4513 ■ tech support: support@dbdrive.net

Please Note: Our suggested box volumes are given as internal air requirements

# INTRODUCTION

Congratulations on your purchase of a Quantum Audio state-of-the-art subwoofer component. Your selection of a Quantum Audio car audio product indicates a true appreciation of fine musical reproduction. Whether adding to an existing system or including a Quantum Audio subwoofer in a new system, you are certain to notice immediate performance benefits.

## KEEP YOUR SALES RECEIPT

Take this time to attach your sales receipt to the manual and put in a safe place. In case of any unforeseen reason this product may need warranty service, your receipt will be necessary to establish purchase date. For detailed warranty information please refer to enclosed warranty card, or visit QuantumAudio.net.

## RECOMMENDATION

A speaker's performance is only as good as it's enclosure. Proper installation, enclosure size and crossover frequency will maximize the overall performance of the subwoofer. To properly design and build an enclosure, knowledge of woodworking as well as the proper tools are required. We highly recommend that you have your enclosure built by an authorized Quantum Audio retailer. However, if you decide to install it yourself, we have included the parameters of each driver and recommended enclosure sizes. If after reviewing the enclosed information you have any addition questions, please feel free to contact our technical dept.

### WARNING!

**Exposure to high pressure levels can cause hearing loss or damage. Listening to your system at loud levels while driving, will impair your ability to hear traffic sounds and emergency vehicles. Use common sense when listening to your system.**

**While installing your subwoofer enclosure in the vehicle. Securely fasten it to the frame or floorpan. If the enclosure is not secured properly, there is danger of it becoming a projectile in a collision.**

Due to continuing product improvement, specifications and design are subject to change without notice.



# PRODUCT SPECIFICATIONS

	QWX4000/8D4	QWX4000/10D4	QWX4000/12D4	QWX4000/15D4
<b>Fs [Hz]</b>	51.30 Hz	42.76 Hz	45.48 Hz	37.904 Hz
<b>Re [Ohm]</b>	3.4 ohm+3.4 ohm	3.4 ohm+3.4 ohm	3.4 ohm+3.4 ohm	3.4 ohm+3.4 ohm
<b>BL</b>	9.87 N/A	9.782 N/A	15.007 N/A	10.631 N/A
<b>Cms</b>	106.587 um/N	84.22 um/N	30.818 um/N	68.080 um/N
<b>Mms</b>	90.280 g	164.483 g	397.289 g	258.97 g
<b>Sd</b>	18.869 mM <sup>2</sup>	31.416 mM <sup>2</sup>	49.087 mM <sup>2</sup>	80.425 mM <sup>2</sup>
<b>Qes</b>	0.478	0.739	0.857	0.873
<b>Qms</b>	3.122	4.258	4.596	4.648
<b>Qts</b>	0.415	0.630	0.722	0.735
<b>Vas</b>	5.389 L	11.803	10.545	62.530

## CALCULATING ENCLOSURES

It is difficult to give exact box dimensions that are universal for all cars and trucks. It is for this reason that you must be able to calculate the space in which you have available in order to achieve the proper air volume required.

It is recommended to build your enclosure from 3/4" thick MDF (medium density fiberboard). Make sure the enclosure is sealed airtight.

### Calculating External Volume

- 1.) To calculate box volume, measure the outside Width x Height x Depth of the enclosure. *Example 12" x 14" x 9"=1512 ÷ 1728" Cubic feet*
- 2.) Next you must convert cubic inches into cubic feet. To do this, you must divide the cubic inches total by 1728". *Example 1512 ÷ 1728=.875 Cubic feet*

### Calculating Internal Volume

- 1.) To calculate the internal (net) volume of the above box you must first multiply the thickness of the wood you are using by Two(2). *Example 3/4" x 2= 1.5"*
- 2.) Next subtract 1.5 from each of the outside measurements of the box.

Width	Height	Depth
12 - 1.5 = 10.5	14 - 1.5 = 12.5	9 - 1.5 = 7.5
- 3.) Multiple the new totals (H x W x D) *Example: 10.5 x 12.5 x 7.5 = .5696*
- 4.) Next you must convert cubic inches into cubic feet. To do this, you must divide the cubic inch total by 1728". *Example 984.375 ÷ 1728=.5696 cubic feet.*