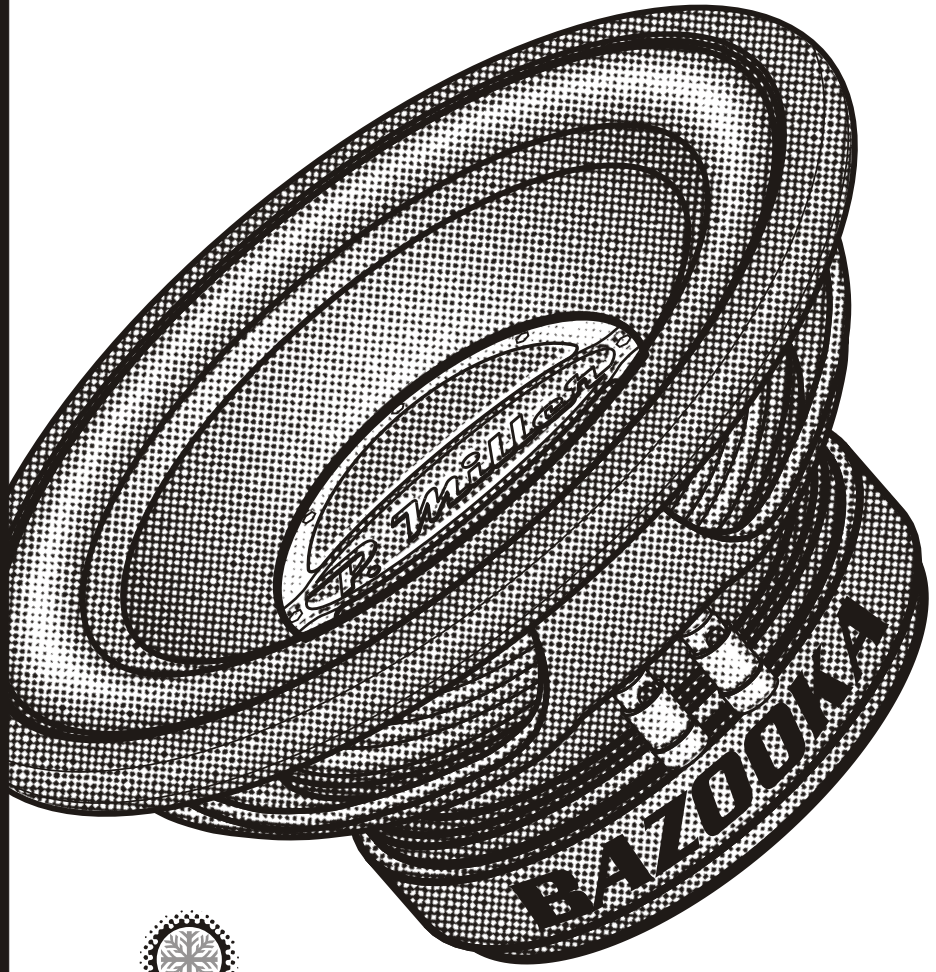




# *P MILLER SUBWOOFERS*

**PMW1024DVC, PMW1224DVC**



**CHIL  
COMPATIBLE**

**Installation Manual**

Dear customer,

Congratulations on your purchase of a Bazooka PMW high-performance subwoofer. At Bazooka we are fanatics about accurate music reproduction. Your selection of our products for your sound system indicates that quality sound is also important to you too. At SAS, we take great pride in manufacturing revolutionary audio products, and through the years of engineering expertise, hand craftsmanship and critical testing procedures, we have created the RSW high-performance series of subwoofers. We hope that you will take as much pride in owning and using one of these high-quality audio products as we do designing and manufacturing them.

When properly installed and operated, your Bazooka PMW subwoofer will give you years of clean uninterrupted sound reproduction. Therefore, we urge you to take a few minutes to carefully read through this manual. It will explain how to properly build an enclosure to optimize performance and longevity of the subwoofer.

Sound can be deceiving. Over time your hearing comfort level adapts to higher volumes of sound. What may have sounded normal can actually be too loud and harmful to your hearing. Guard against this by setting your equipment at a safe level before your hearing adapts.

To establish a "safe level",

- Start with your volume control at a low setting.
- Slowly increase the volume control until you can hear comfortably, clearly and without distortion.
- Once you have established a comfortable "sound level", make a note of this position and do not go above this setting

Taking a minute to do this will help prevent your hearing from being damaged and allow you to enjoy listening to music throughout your lifetime.

## CALCULATING ENCLOSURE VOLUME

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 air tight.

### Calculating External Volume

1.) To calculate box volume, measure the outside Width x Height x Depth of the enclosure.

$$\text{Example } 12'' \times 14'' \times 9'' = 1512''.$$

2.) Next you must convert cubic inches into cubic feet. To do this, you must divide the cubic inch total by 1728".

$$\text{Example } 1512 \div 1728 = .875 \text{ Cubic feet.}$$

### 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).

$$\text{Example } 3/4'' \times 2 = 1.5''.$$

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.) Multiply the new totals (H x W x D)

$$\text{Example: } 10.5 \times 12.5 \times 7.5 = 984.375$$

4.) Next you must convert cubic inches into cubic feet. To do this, you must divide the cubic inch total by 1728"

$$\text{Example } 984.375 \div 1728 = .5696 \text{ Cubic feet.}$$

## PRODUCT SPECIFICATIONS

### PMW1024DVC

		INDIVIDUAL	PARALLEL	SERIES
Free Air Resonance.	(FS)	34	34	34
Total Q of driver @ FS including all resistance.	(Qts)	.77	.40	.40
Q of driver @ FS including non electrical resistance.	(Qms)	8.93	8.93	8.93
Q of driver @ FS including electrical resistance.	(Qes)	.84	.42	.43
The driver's compliance expressed as an equivalent volume of air (Cubic Ft.).	(Vas)	1.08	1.08	1.08
The driver's linear displacement (Inches).	(Xmax)	1.12	1.12	1.12
The DC resistance of the driver's voice coil (ohms).	(Re)	3.4	1.7	6.8
RMS Power Handling (Standard/ With Liquid Cooling) (W)		300/400	300/400	300/400
Max Power handling (Standard/ With Liquid Cooling) (W)		500/500	500/500	500/500
The driver's voice coil inductance (millihenries).	(Le)	1.09	1.13	4.59
The drivers sensitivity (dB @ 1W 1M).	(Sens)	84	86	86

### PMW1224DVC

Free Air Resonance.	(FS)	32	32	32
Total Q of driver @ FS including all resistance.	(Qts)	.87	.48	.48
Q of driver @ FS including non electrical resistance.	(Qms)	8.05	8.05	8.05
Q of driver @ FS including electrical resistance.	(Qes)	.98	.50	.51
The driver's compliance expressed as an equivalent volume of air (Cubic Ft.).	(Vas)	2.34	2.34	2.34
The driver's linear displacement (Inches).	(Xmax)	1.12	1.12	1.12
The DC resistance of the driver's voice coil (ohms).	(Re)	3.4	1.7	6.8
RMS Power Handling (Standard/ With Liquid Cooling) (W)		300/400	300/400	300/400
Max Power handling (Standard/ With Liquid Cooling) (W)		500/500	500/500	500/500
The driver's voice coil inductance (millihenries).	(Le)	1.06	1.09	4.39
The drivers sensitivity (dB @ 1W 1M).	(Sens)	86	88	88



# PMW1024DVC RECOMMENDED ENCLOSURES

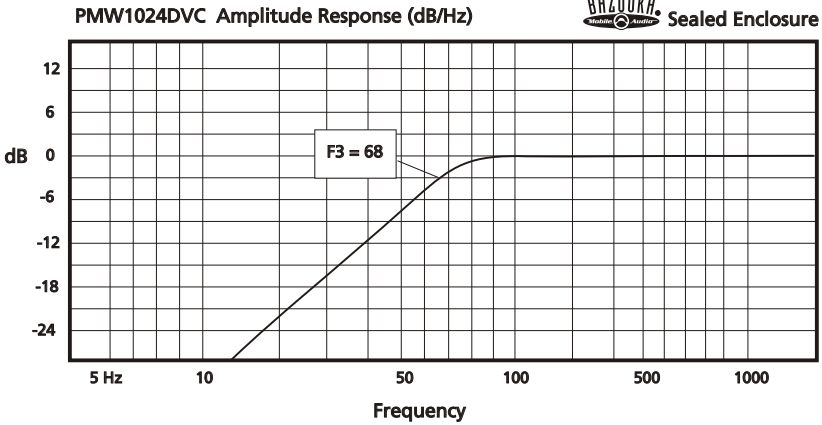
Please Note: Our suggested box volumes are given as internal air requirements with voice coils in parallel.

## Sealed Enclosure

Box Volume \* 0.56 Cu Ft.

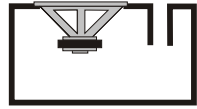


\* Box is given as internal air volume including driver Displacement.

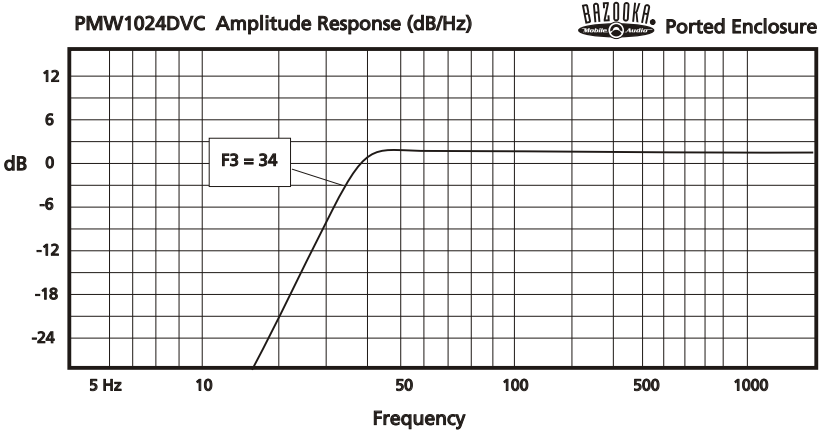


## Ported Enclosure

Box Volume \* 1.4 Cu Ft.  
 Port Frequency (Fb) 40Hz  
 Port Diameter 3 Inches  
 Port Length 7.31 Inches



\* Box is given as internal air volume including port and driver displacement.



# PMW1224DVC RECOMMENDED ENCLOSURES

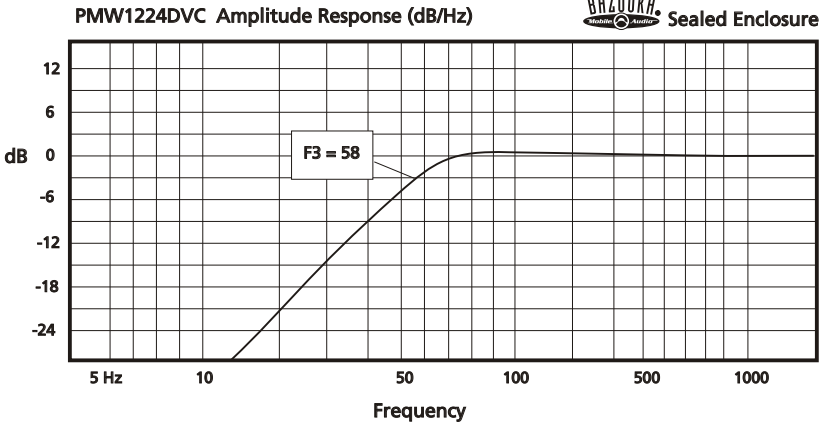
Please Note: Our suggested box volumes are given as internal air requirements with voice coils in parallel.

## Sealed Enclosure

Box Volume \* 1.00 Cu Ft.

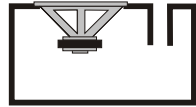


\* Box is given as internal air volume including driver Displacement.

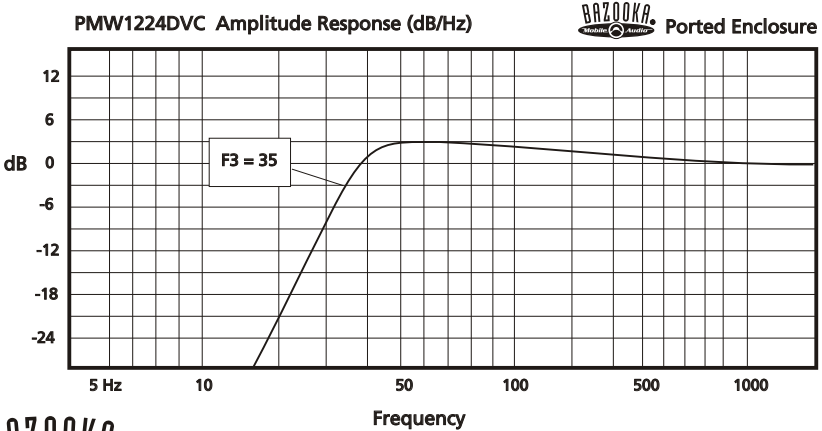


## Ported Enclosure

Box Volume \* 2.0 Cu Ft.  
 Port Frequency (Fb) 40Hz  
 Port Diameter 4 Inches  
 Port Length 8.35 Inches

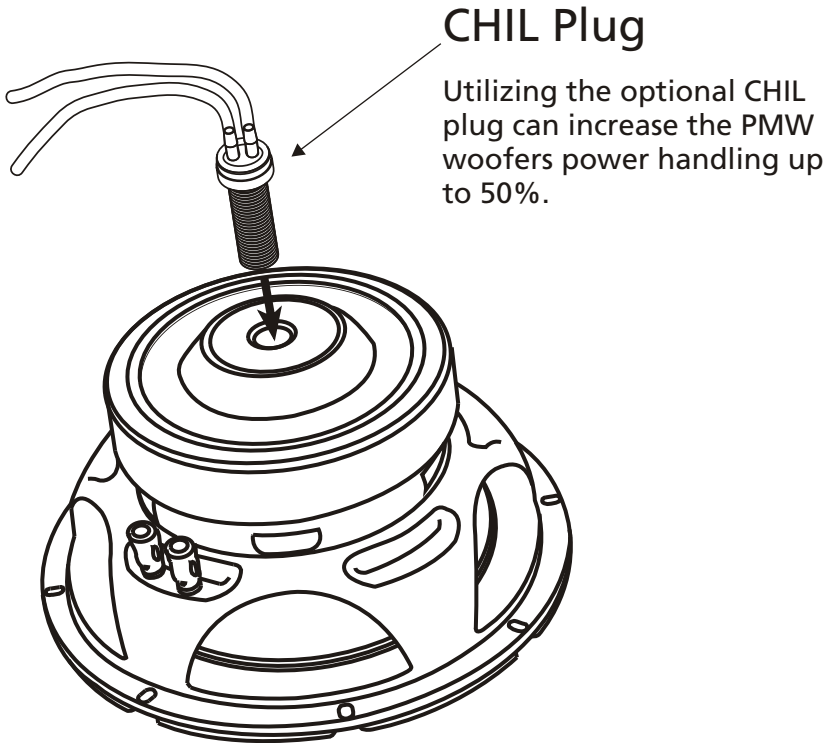


\* Box is given as internal air volume including port and driver displacement.



# ***LIQUID COOLING***

The innovative design of the PMW component Woofers allows you to liquid cool the voice coil motor assembly for maximum power handling capability. With the addition of the CHIL PLUG and the CHIL KIT from your local dealer, or directly from SAS, you can easily add liquid cooling to your PMW Series Component Woofer.





**If you have any questions contact the SAS Technical Support Department at:**

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