

Keep in a safe and dry place for future reference.

Model Number of your woofer \_\_\_\_\_

Serial Number \_\_\_\_\_

Place of purchase \_\_\_\_\_

Notes \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Your enclosure data (circle one)

Sealed                  Vented                  Bandpass                  Other

Total airspace \_\_\_\_\_

Enclosure Dimensions \_\_\_\_\_

Port type, area and length (if available) \_\_\_\_\_

drawing pad



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# SOUNDSTREAM

T E C H N O L O G I E S

PWS SERIES WOOFERS

OWNERS MANUAL



[www.SOUNDSTREAM.com](http://www.SOUNDSTREAM.com)

Congratulations and thank you for purchasing Soundstream products. We are confident you will enjoy your new subwoofer and appreciate the effort involved in bringing you the best engineered and crafted subwoofer in this category. Harmonic indulgence...Listen and feel.

We advise you to keep this manual in a safe and dry place. Write down any important information to reference from in the future, such as all of your enclosure information. Draw a simple diagram and write all the parameters of the enclosure incase you ever need to reference from it in the future.

**Specifications**

Model	PWS-10	PWS-12	PWS-15
Mounting Depth	*5.25"	*5.875"	*6.9375"
Outer Diameter	*10.375"	*12.625"	*15.625"
Cutout Diameter	9"	11.125"	13.8"
Driver Displacement	.09 cu.ft.	.11 cu. ft.	.13 cu. ft.
Impedance	Dual 4 ohm	Dual 4 ohm	Dual 4 ohm
RMS Power	300 watts	350 watts	400 watts
MAX Power	600 watts	700 watts	800 watts
PEAK Power	900 watts	1000 watts	1100 watts
Voice Coil	2"	2"	2"
Magnet Weight	60 oz	60 oz.	60 oz.
Frequency Response	25 - 500Hz	25 - 500Hz	25 - 500Hz
Resonant Frequency	37.977Hz	33.879Hz	28.738Hz
Qts	.598	.748	.710
Qms	5.089	5.626	4.328
Qes	.677	.863	.849
Vas	18.277 ltr	46.017 ltr	117.222 ltr
XMAX	10.5 mm	10.5 mm	10.5 mm
SPL	83.6 dB	85 dB	87 dB

\* These numbers are measured with the cosmetic rubber gasket in place. Please measure the driver yourself for precision dimensions or if necessary with out the gasket.

**NOTICE**

The following enclosure recommendations are only a few in variation of what the woofer requires. If you need specific information for a design and have questions regarding it, please contact our Technical Support Department with your details, via email at tech-support@soundstream.com. We strongly suggest you use or build an enclosure with in the following parameters for proper function and quality results from your woofer. Building an enclosure too far from the specified suggestions may cause undesired performance and/or damage to your woofer and in some cases your amplifier as well.

**Sealed Enclosure Recommendations for PWS-10**

**Optimum Enclosure**

NET Volume	.7 cuft / 19.8 ltrs
Enclosure Q	.688
Max Power	400 watts
Fill	50% Loose

**Other Enclosure Recommendations**

	Volume	MAX Power
Smallest	.5 cuft / 14.16 ltrs	350 watts
Largest	1.1 cuft / 31.14 ltrs	300 watts

All volume suggestions are "Net Volume" before any displacement. Please add accordingly to your design

**Sealed Enclosure Recommendations for PWS-12**

**Optimum Enclosure**

NET Volume	1 cuft / 28.3 ltrs
Enclosure Q	.6
Max Power	400 watts
Fill	50% Loose

**Other Enclosure Recommendations**

	Volume	MAX Power
Smallest	.7 cuft / 19.82 ltrs	375 watts
Largest	1.4 cuft / 39.64 ltrs	350 watts

All volume suggestions are "Net Volume" before any displacement. Please add accordingly to your design

**Sealed Enclosure Recommendations for PWS-15**

**Optimum Enclosure**

NET Volume	1.4 cuft / 39.64 ltrs
Enclosure Q	.812
Max Power	400 watts
Fill	50% Loose

**Other Enclosure Recommendations**

	Volume	MAX Power
Smallest	Not Recommended	
Largest	2.2 cuft / 62.3 ltrs	400 watts

All volume suggestions are "Net Volume" before any displacement. Please add accordingly to your design

**Vented Enclosure Recommendations for PWS-10**

**Optimum Enclosure**

NET Volume	1.1 cuft / 31.14 ltrs
Vent Design	3" X 8.25"
Tuning Freq	40Hz
Max Power	300 watts

**Other Enclosure Recommendations**

NET Volume	1.9 cuft / 53.8 ltrs
Vent Design	20 sqin X 11.75"
Tuning Freq	42Hz
Max Power	300 watts

All volume suggestions are "Net Volume" before any displacement. Please add accordingly to your design

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**Vented Enclosure Recommendations for PWS-12**

**Optimum Enclosure**

NET Volume	1.3 cuft / 36.81 ltrs
Vent Design	3" X 8.75"
Tuning Freq	36Hz
Max Power	350 watts

**Other Enclosure Recommendations**

NET Volume	2 cuft / 56.6 ltrs
Vent Design	4" X 11.25"
Tuning Freq	34Hz
Max Power	350 watts

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**Vented Enclosure Recommendations for PWS-15**

**Optimum Enclosure**

NET Volume	1.6 cuft / 45.31 ltrs
Vent Design	3" X 9"
Tuning Freq	32Hz
Max Power	400 watts

**Other Enclosure Recommendations**

NET Volume	2.5 cuft / 71 ltrs
Vent Design	4" X 8.25"
Tuning Freq	34Hz
Max Power	400 watts

All volume suggestions are "Net Volume" before any displacement. Please add accordingly to your design

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**Wiring Configurations**

There are a variety of impedance possibilities when using woofers equipped with multiple coils. It is "EXTREMELY" important that ALL coils are used and none are left as spares. Always provide the minimum impedance your amplifier requires. If you need assistance with wiring configurations, please consult a professional installer or contact our Technical Support Department with your questions.