

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

REFERENCE R1 SERIES WOOFER OWNERS MANUAL/INSTALL GUIDE



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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	R1-12	R1-15
Mounting Depth	*7.5"	*8.75"
Outer Diameter	*10.375"	*15.625"
Cutout Diameter	11.125"	14.25"
Driver Displacement	.15 cu.ft.	.2 cu. ft.
Impedance	Dual 4 ohm	Dual 4 ohm
RMS Power	800 watts	900 watts
MAX Power	1200 watts	1300 watts
PEAK Power	2400 watts	2600 watts
Voice Coil	3"	3"
Magnet Weight	250 oz	250 oz.
Frequency Response	28 - 400Hz	29 - 400Hz
Resonant Frequency	26.795Hz	27.951Hz
Qts	.629	.680
Qms	5.260	4.453
Qes	.714	.803
Vas	52.372 ltr	98.539 ltr
XMAX	10 mm	10 mm
SPL	83.4 dB	86.2 dB

* These numbers are measured with the cosmetic rubber gasket in place. Please measure the driver yourself for precise 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 R1-12

Optimum Enclosure

NET Volume	1.1 cuft / 31 ltrs
Enclosure Q	.8
Max Power	800 watts
Fill	50% Medium

Other Enclosure Recommendations

	Volume	MAX Power
Smallest	.75 cuft / 21.2 ltrs	700 watts
Largest	2 cuft / 56.7 ltrs	800 watts

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

Sealed Enclosure Recommendations for R1-15

Optimum Enclosure

NET Volume	2 cuft / 56.7 ltrs
Enclosure Q	.6
Max Power	800 watts
Fill	50% Loose

Other Enclosure Recommendations

	Volume	MAX Power
Smallest	1.4 cuft / 39.6 ltrs	700 watts
Largest	3 cuft / 85 ltrs	750 watts

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

Vented Enclosure Recommendations for R1-12

Optimum Enclosure

NET Volume	2.2 cuft / 62.3 ltrs
Vent Design	4" X 11.25"
Tuning Freq	34Hz
Max Power	800 watts

Other Enclosure Recommendations

NET Volume	4 cuft / 113 ltrs
Vent Design	30 sqin X 14.5"
Tuning Freq	32Hz
Max Power	800 watts

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

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Vented Enclosure Recommendations for R1-15

Optimum Enclosure

NET Volume	3.5 cuft / 99 ltrs
Vent Design	35 sqin X 17.5"
Tuning Freq	34Hz
Max Power	800 watts

Other Enclosure Recommendations

NET Volume	5 cuft / 142 ltrs
Vent Design	40 sqin X 15"
Tuning Freq	32Hz
Max Power	800 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.

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