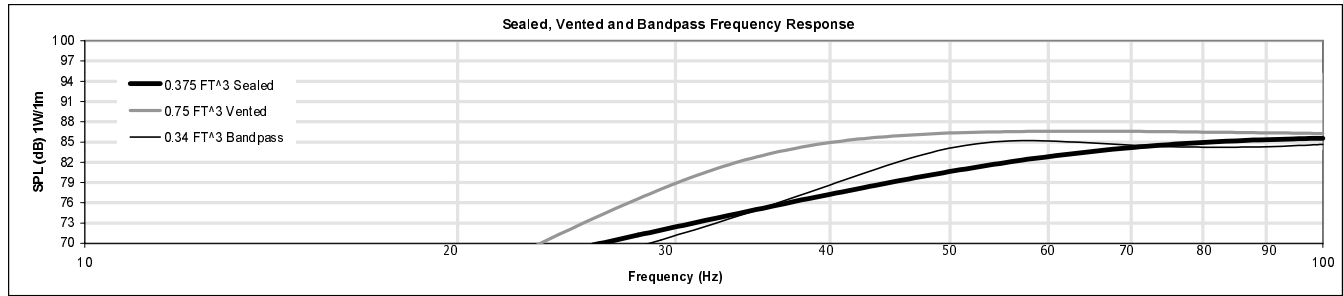




8RS Technical Data Report

Coustic 8" 4 Ohm Subwoofer



Sealed Enclosures

Enclosure Volume	.13 Ft ³ (3.5 l)	.25 Ft ³ (7.1 l)	.38 Ft ³ (10.6 l)	.50 Ft ³ (14.2 l)	.63 Ft ³ (17.7 l)
F3	81 Hz	64 Hz	58 Hz	54 Hz	54 Hz
Ripple	.00dB	.00dB	.00dB	.00dB	.00dB
Qtc	1.21	.89	.77	.71	.67
Net Volume	.10 Ft ³ (2.9 l)	.23 Ft ³ (6.4 l)	.35 Ft ³ (10.0 l)	.48 Ft ³ (13.5 l)	.60 Ft ³ (17.1 l)
Driver Volume	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)
Excursion Limited SPL	108dB	107dB	107dB	106dB	106dB
Excursion Limited Power	150 Watts	150 Watts	150 Watts	150 Watts	150 Watts

Vented Enclosures

Enclosure Volume	.50 Ft ³ (14.2 l)	.63 Ft ³ (17.7 l)	.75 Ft ³ (21.2 l)	.88 Ft ³ (24.8 l)	1.00 Ft ³ (28.3 l)
Vent Dimensions	2"x8.25"	2"x7.5"	2"x7"	2"x6.5"	2"x6"
F3	45 Hz	38 Hz	34 Hz	33 Hz	31 Hz
Tuning Frequency	44 Hz	40 Hz	37 Hz	36 Hz	34 Hz
Ripple	.58dB	.51dB	.35dB	.20dB	.09dB
Net Volume	.46 Ft ³ (13.0 l)	.59 Ft ³ (16.6 l)	.71 Ft ³ (20.2 l)	.84 Ft ³ (23.8 l)	.97 Ft ³ (27.3 l)
Driver Volume	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)
Vent Volume	.02 Ft ³ (0.5 l)	.02 Ft ³ (0.4 l)	.01 Ft ³ (0.4 l)	.01 Ft ³ (0.4 l)	.01 Ft ³ (0.3 l)
Excursion Limited SPL	109dB	108dB	108dB	107dB	107dB
Excursion Limited Power	150 Watts	150 Watts	150 Watts	150 Watts	150 Watts

Single Reflex Bandpass Enclosures

s=0.5

Enclosure Volume	.28 Ft ³ (7.9 l)	.31 Ft ³ (8.8 l)	.34 Ft ³ (9.6 l)	.38 Ft ³ (10.8 l)	.45 Ft ³ (12.7 l)
Bandpass	52 - 166	47 - 160	42 - 155	37 - 150	34 - 145
Bandpass Gain	.8dB	-.2dB	-1.4dB	-2.6dB	-4.0dB
Vent Dimensions	2"x6"	2"x7"	2"x8.25"	2"x10"	2"x12"
Tuning Frequency	94 Hz	89 Hz	83 Hz	76 Hz	70 Hz
Ripple	.94dB	.96dB	.99dB	1.01dB	1.04dB
Sealed Volume	.12 Ft ³ (3.5 l)	.14 Ft ³ (4.1 l)	.17 Ft ³ (4.9 l)	.21 Ft ³ (6.0 l)	.27 Ft ³ (7.7 l)
Vented Volume	.13 Ft ³ (3.6 l)	.13 Ft ³ (3.6 l)	.13 Ft ³ (3.6 l)	.13 Ft ³ (3.6 l)	.13 Ft ³ (3.6 l)
Driver Volume	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)
Vent Volume	.01 Ft ³ (0.3 l)	.01 Ft ³ (0.4 l)	.02 Ft ³ (0.5 l)	.02 Ft ³ (0.6 l)	.03 Ft ³ (0.7 l)
Excursion Limited SPL	108dB	107dB	106dB	105dB	104dB
Excursion Limited Power	150 Watts	150 Watts	150 Watts	150 Watts	150 Watts

Single Reflex Bandpass Enclosures

s=0.6

Enclosure Volume	.36 Ft ³ (10.2 l)	.40 Ft ³ (11.3 l)	.44 Ft ³ (12.5 l)	.50 Ft ³ (14.2 l)	.60 Ft ³ (17.0 l)
Bandpass	53 - 140	48 - 135	42 - 130	37 - 124	32 - 119
Bandpass Gain	2.0dB	1.0dB	-.2dB	-1.5dB	-2.9dB
Vent Dimensions	2"x4.75"	2"x5.5"	2"x6.75"	2"x8.25"	2"x10"
Tuning Frequency	86 Hz	81 Hz	75 Hz	69 Hz	63 Hz
Ripple	.27dB	.28dB	.29dB	.30dB	.31dB
Sealed Volume	.15 Ft ³ (4.3 l)	.18 Ft ³ (5.2 l)	.22 Ft ³ (6.3 l)	.28 Ft ³ (8.0 l)	.38 Ft ³ (10.8 l)
Vented Volume	.18 Ft ³ (5.1 l)	.18 Ft ³ (5.1 l)	.18 Ft ³ (5.1 l)	.18 Ft ³ (5.1 l)	.18 Ft ³ (5.1 l)
Driver Volume	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)	.02 Ft ³ (0.6 l)
Vent Volume	.01 Ft ³ (0.3 l)	.01 Ft ³ (0.3 l)	.01 Ft ³ (0.4 l)	.02 Ft ³ (0.5 l)	.02 Ft ³ (0.6 l)
Excursion Limited SPL	109dB	108dB	107dB	106dB	104dB
Excursion Limited Power	150 Watts	150 Watts	150 Watts	150 Watts	150 Watts

Limited Warranty

Coustic subwoofers purchased from an authorized dealer are guaranteed against defects in parts and workmanship for a period of one (1) year from the date of purchase. (Two years if installed by an authorized Coustic dealer). Speakers found defective during that period will be repaired by Coustic without charge for parts

This warranty is void if it is determined that unauthorized parties have attempted repairs or alterations of any nature. This warranty does not extend to cabinets or certain that all associated equipment is operating properly.

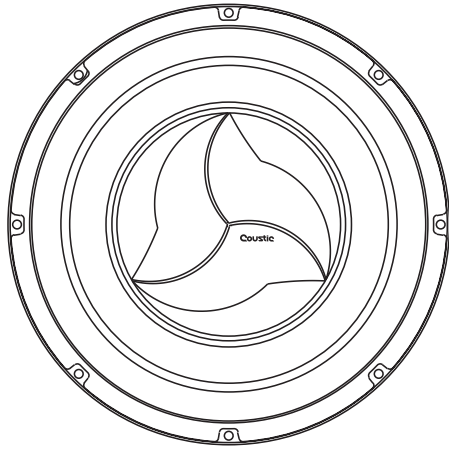
If a defect is present, your authorized Coustic dealer may be able to effect repairs. If not, you are responsible for providing transportation to the factory. Your Coustic dealer can recommend the safest method of transportation. Proof of purchase is required when requesting service, so please retain your sales slip.

Specifications subject to change without notice.



8RS Technical Data Report

Cooustic 8" 4 Ohm Subwoofer



Features

- 2" 4-Layer voice coil
- Kapton voice coil former
- Polylaminate cone
- Rubber magnet cover
- High energy strontium ferrite magnet
- Santoprene rubber surround
- Flat Progressive Spider
- Extended Vented Pole Piece

Specifications*

Free Air Resonance	Fs	41.1 Hz
Volume Acoustic Suspension	Vas	.52 Ft ³ (14.8 l)
Total Q	Qts	.49
Electrical Q	Qes	.51
Mechanical Q	Qms	11.45
DC Resistance	Re	3.44 Ohm
Linear Excursion (One Way)	Xmax	.36" (9.1 mm)
Effective Piston Diameter	D	6.500" (.1651 m)
RMS Power Handling	RMS	150 Watts
Total Power Handling	Total	300 Watts
Sensitivity 1W/1m	SPLo	85.5 dB
Reference Efficiency	No	0.19%
Frequency Response		41 - 150Hz
Voice Coil Inductance	Le	2.2 mH
Gap Height		.250" (6.4 mm)
Voice Coil Height		.875" (22.2 mm)
Voice Coil Diameter		1.5" (38.1 mm)
Magnet Weight		25 oz (709 g)
Motor Force	BL	10.64 Tm
Compliance	Cms	.230 mm/N
Total Moving Mass	Mms	65.3 g
Moving Mass of Driver	Mmd	63.5 g
Suspension Losses	Rms	1.47
Effective Surface Area	Sd	33.2 in ² (.0214m ²)
Mounting Diameter		7 1/8 " (181.0 mm)
Overall Diameter		8 1/4 " (209.6 mm)
Mounting Depth		3 3/4 " (95.3 mm)
Overall Depth		4 1/8 " (104.8 mm)
Speaker Displacement (Inside Box)		61in ² (1.0 l)
Speaker Displacement (Outside Box)		39in ² (0.6 l)

* Dual Voice Coil models measured with coils in parallel.