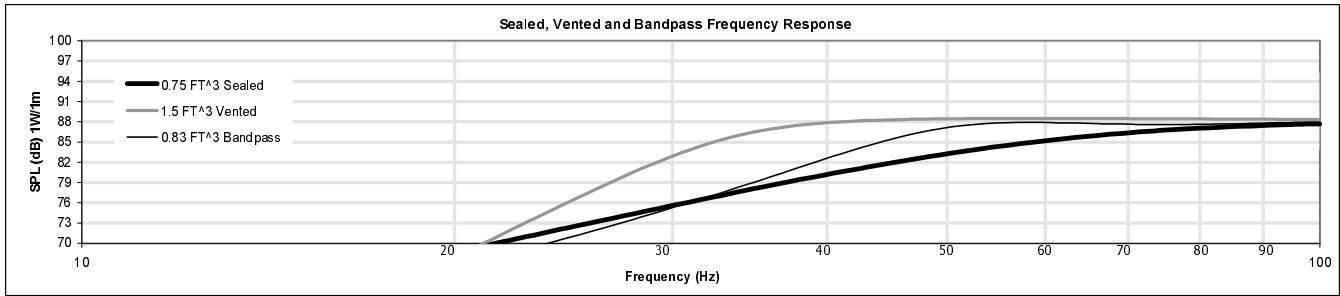




10RS Technical Data Report

Coustic 10" 4 Ohm Subwoofer



Sealed 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)
F3	60 Hz	57 Hz	55 Hz	54 Hz	53 Hz
Ripple	.00dB	.00dB	.00dB	.00dB	.00dB
Qtc	.81	.75	.71	.68	.66
Net Volume	.45 Ft ³ (12.8 l)	.58 Ft ³ (16.4 l)	.70 Ft ³ (19.9 l)	.83 Ft ³ (23.4 l)	.95 Ft ³ (27.0 l)
Driver Volume	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)
Excursion Limited SPL	111dB	110dB	110dB	110dB	110dB
Excursion Limited Power	200 Watts	200 Watts	200 Watts	200 Watts	200 Watts

Vented Enclosures

Enclosure Volume	1.00 Ft ³ (28.3 l)	1.25 Ft ³ (35.4 l)	1.50 Ft ³ (42.5 l)	1.75 Ft ³ (49.6 l)	2.00 Ft ³ (56.6 l)
Vent Dimensions	3"x10.25"	3"x9.25"	3"x8.5"	3"x8"	3"x7.5"
F3	41 Hz	36 Hz	31 Hz	29 Hz	27 Hz
Tuning Frequency	41 Hz	38 Hz	35 Hz	33 Hz	32 Hz
Ripple	.51dB	.36dB	.16dB	.00dB	.00dB
Net Volume	.91 Ft ³ (25.7 l)	1.16 Ft ³ (32.9 l)	1.42 Ft ³ (40.1 l)	1.67 Ft ³ (47.2 l)	1.92 Ft ³ (54.4 l)
Driver Volume	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)
Vent Volume	.05 Ft ³ (1.3 l)	.04 Ft ³ (1.2 l)	.04 Ft ³ (1.1 l)	.03 Ft ³ (1.0 l)	.03 Ft ³ (0.9 l)
Excursion Limited SPL	112dB	111dB	111dB	110dB	110dB
Excursion Limited Power	200 Watts	200 Watts	200 Watts	200 Watts	200 Watts

Single Reflex Bandpass Enclosures

s=0.6

Enclosure Volume	.68 Ft ³ (19.3 l)	.75 Ft ³ (21.2 l)	.83 Ft ³ (23.5 l)	.96 Ft ³ (27.2 l)	1.14 Ft ³ (32.3 l)
Bandpass	53 - 142	48 - 137	43 - 132	38 - 127	32 - 121
Bandpass Gain	1.8dB	.7dB	-.5dB	-1.8dB	-3.2dB
Vent Dimensions	4"x12.5"	4"x14.75"	4"x17.5"	4"x21"	4"x25.75"
Tuning Frequency	87 Hz	81 Hz	76 Hz	70 Hz	64 Hz
Ripple	.30dB	.31dB	.32dB	.33dB	.34dB
Sealed Volume	.25 Ft ³ (7.0 l)	.30 Ft ³ (8.4 l)	.36 Ft ³ (10.2 l)	.46 Ft ³ (12.9 l)	.60 Ft ³ (17.1 l)
Vented Volume	.29 Ft ³ (8.2 l)	.29 Ft ³ (8.2 l)	.29 Ft ³ (8.2 l)	.29 Ft ³ (8.2 l)	.29 Ft ³ (8.2 l)
Driver Volume	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)
Vent Volume	.10 Ft ³ (2.7 l)	.11 Ft ³ (3.3 l)	.14 Ft ³ (3.9 l)	.17 Ft ³ (4.7 l)	.21 Ft ³ (5.8 l)
Excursion Limited SPL	112dB	111dB	110dB	109dB	107dB
Excursion Limited Power	200 Watts	200 Watts	200 Watts	200 Watts	200 Watts

Single Reflex Bandpass Enclosures

s=0.7

Enclosure Volume	.82 Ft ³ (23.2 l)	.90 Ft ³ (25.5 l)	1.02 Ft ³ (28.9 l)	1.19 Ft ³ (33.7 l)	1.46 Ft ³ (41.3 l)
Bandpass	51 - 123	46 - 118	41 - 112	38 - 107	33 - 102
Bandpass Gain	2.7dB	1.6dB	.4dB	-.9dB	-2.4dB
Vent Dimensions	4"x10.25"	4"x12.25"	4"x14.75"	4"x18.25"	4"x22.5"
Tuning Frequency	80 Hz	75 Hz	69 Hz	64 Hz	58 Hz
Ripple	.01dB	.01dB	.01dB	.01dB	.02dB
Sealed Volume	.31 Ft ³ (8.7 l)	.37 Ft ³ (10.5 l)	.46 Ft ³ (13.1 l)	.60 Ft ³ (17.1 l)	.84 Ft ³ (23.8 l)
Vented Volume	.39 Ft ³ (11.1 l)	.39 Ft ³ (11.1 l)	.39 Ft ³ (11.1 l)	.39 Ft ³ (11.1 l)	.39 Ft ³ (11.1 l)
Driver Volume	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)	.05 Ft ³ (1.3 l)
Vent Volume	.08 Ft ³ (2.2 l)	.09 Ft ³ (2.7 l)	.11 Ft ³ (3.3 l)	.14 Ft ³ (4.1 l)	.18 Ft ³ (5.1 l)
Excursion Limited SPL	113dB	112dB	111dB	109dB	108dB
Excursion Limited Power	200 Watts	200 Watts	200 Watts	200 Watts	200 Watts

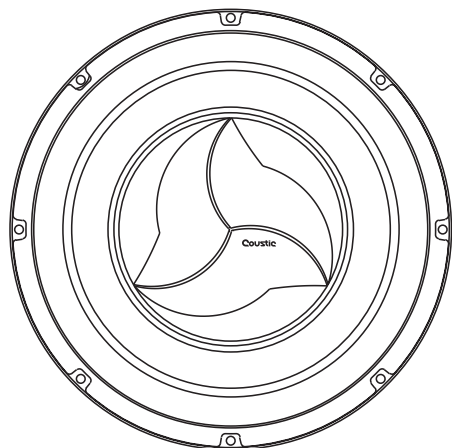
Limited Warranty

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.



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	40.3 Hz
Volume Acoustic Suspension	Vas	.91 Ft ³ (25.8 l)
Total Q	Qts	.47
Electrical Q	Qes	.49
Mechanical Q	Qms	11.99
DC Resistance	Re	3.38 Ohm
Linear Excursion (One Way)	Xmax	.37" (9.5 mm)
Effective Piston Diameter	D	8.350" (.2121 m)
RMS Power Handling	RMS	200 Watts
Total Power Handling	Total	400 Watts
Sensitivity 1W/1m	SPLo	87.9 dB
Reference Efficiency	No	0.33%
Frequency Response		40 - 150Hz
Voice Coil Inductance	Le	2.6 mH
Gap Height		.312" (7.9 mm)
Voice Coil Height		.961" (24.4 mm)
Voice Coil Diameter		2.0" (50.8 mm)
Magnet Weight		38 oz (1077 g)
Motor Force	BL	13.64 Tm
Compliance	Cms	.147 mm/N
Total Moving Mass	Mms	106.1 g
Moving Mass of Driver	Mmd	102.3 g
Suspension Losses	Rms	2.24
Effective Surface Area	Sd	54.8 in ² (.0353m ²)
Mounting Diameter		9 1/16" (230.2 mm)
Overall Diameter		10 1/8" (257.2 mm)
Mounting Depth		5" (127.0 mm)
Overall Depth		5 7/16" (138.1 mm)
Speaker Displacement (Inside Box)		114in ² (1.9 l)
Speaker Displacement (Outside Box)		82in ² (1.3 l)

* Dual Voice Coil models measured with coils in parallel.