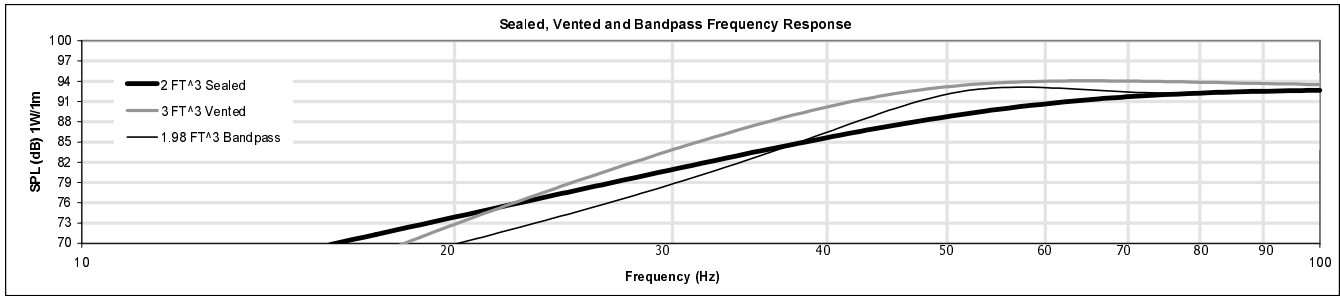




15RS Technical Data Report

Coustic 15" 4 Ohm Subwoofer



Sealed Enclosures

Enclosure Volume	1.50 Ft ³ (42.5 l)	1.75 Ft ³ (49.6 l)	2.00 Ft ³ (56.6 l)	2.25 Ft ³ (63.7 l)	2.50 Ft ³ (70.8 l)
F3	57 Hz	54 Hz	54 Hz	51 Hz	50 Hz
Ripple	.00dB	.00dB	.00dB	.00dB	.00dB
Qtc	.87	.81	.77	.74	.71
Net Volume	1.38 Ft ³ (39.1 l)	1.63 Ft ³ (46.2 l)	1.88 Ft ³ (53.3 l)	2.13 Ft ³ (60.3 l)	2.38 Ft ³ (67.4 l)
Driver Volume	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)
Excursion Limited SPL	118dB	117dB	117dB	117dB	117dB
Excursion Limited Power	300 Watts	300 Watts	300 Watts	300 Watts	300 Watts

Vented Enclosures

Enclosure Volume	2.00 Ft ³ (56.6 l)	2.50 Ft ³ (70.8 l)	3.00 Ft ³ (85.0 l)	3.50 Ft ³ (99.1 l)	4.00 Ft ³ (113.3 l)
Vent Dimensions	4"x7.25"	4"x6.25"	4"x5.75"	4"x5.25"	4"x4.75"
F3	51 Hz	45 Hz	39 Hz	37 Hz	33 Hz
Tuning Frequency	43 Hz	40 Hz	37 Hz	35 Hz	34 Hz
Ripple	.57dB	.65dB	.57dB	.47dB	.39dB
Net Volume	1.83 Ft ³ (51.8 l)	2.34 Ft ³ (66.1 l)	2.84 Ft ³ (80.4 l)	3.34 Ft ³ (94.7 l)	3.85 Ft ³ (109.0 l)
Driver Volume	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)
Vent Volume	.05 Ft ³ (1.5 l)	.05 Ft ³ (1.3 l)	.04 Ft ³ (1.2 l)	.04 Ft ³ (1.0 l)	.03 Ft ³ (0.9 l)
Excursion Limited SPL	119dB	119dB	118dB	118dB	118dB
Excursion Limited Power	300 Watts	300 Watts	300 Watts	300 Watts	300 Watts

Single Reflex Bandpass Enclosures

s=0.5

Enclosure Volume	1.69 Ft ³ (47.9 l)	1.81 Ft ³ (51.3 l)	1.98 Ft ³ (56.1 l)	2.19 Ft ³ (62.0 l)	2.49 Ft ³ (70.5 l)
Bandpass	52 - 156	47 - 151	44 - 146	39 - 141	34 - 136
Bandpass Gain	1.8dB	.7dB	-.4dB	-1.7dB	-3.1dB
Vent Dimensions	(2)4"x5.25"	(2)4"x6.5"	(2)4"x8.25"	(2)4"x10.5"	(2)4"x13.25"
Tuning Frequency	92 Hz	86 Hz	80 Hz	74 Hz	68 Hz
Ripple	.91dB	.94dB	.96dB	.99dB	1.02dB
Sealed Volume	.66 Ft ³ (18.6 l)	.76 Ft ³ (21.5 l)	.89 Ft ³ (25.3 l)	1.07 Ft ³ (30.4 l)	1.32 Ft ³ (37.4 l)
Vented Volume	.84 Ft ³ (23.8 l)	.84 Ft ³ (23.8 l)	.84 Ft ³ (23.8 l)	.84 Ft ³ (23.8 l)	.84 Ft ³ (23.8 l)
Driver Volume	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)
Vent Volume	.07 Ft ³ (2.1 l)	.09 Ft ³ (2.7 l)	.12 Ft ³ (3.5 l)	.16 Ft ³ (4.5 l)	.21 Ft ³ (5.8 l)
Excursion Limited SPL	120dB	119dB	117dB	116dB	115dB
Excursion Limited Power	300 Watts	300 Watts	300 Watts	300 Watts	300 Watts

Single Reflex Bandpass Enclosures

s=0.6

Enclosure Volume	2.17 Ft ³ (61.5 l)	2.33 Ft ³ (66.0 l)	2.53 Ft ³ (71.6 l)	2.80 Ft ³ (79.3 l)	3.20 Ft ³ (90.6 l)
Bandpass	53 - 133	48 - 128	42 - 123	37 - 117	32 - 112
Bandpass Gain	3.0dB	2.0dB	.8dB	-.5dB	-2.0dB
Vent Dimensions	(2)4"x3.5"	(2)4"x4.75"	(2)4"x6.25"	(2)4"x8"	(2)4"x10.5"
Tuning Frequency	84 Hz	79 Hz	73 Hz	67 Hz	61 Hz
Ripple	.26dB	.27dB	.28dB	.29dB	.31dB
Sealed Volume	.80 Ft ³ (22.6 l)	.93 Ft ³ (26.4 l)	1.11 Ft ³ (31.4 l)	1.35 Ft ³ (38.3 l)	1.70 Ft ³ (48.3 l)
Vented Volume	1.21 Ft ³ (34.3 l)	1.21 Ft ³ (34.3 l)	1.21 Ft ³ (34.3 l)	1.21 Ft ³ (34.3 l)	1.21 Ft ³ (34.3 l)
Driver Volume	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)	.12 Ft ³ (3.4 l)
Vent Volume	.05 Ft ³ (1.3 l)	.07 Ft ³ (1.9 l)	.09 Ft ³ (2.6 l)	.12 Ft ³ (3.4 l)	.16 Ft ³ (4.5 l)
Excursion Limited SPL	120dB	119dB	118dB	117dB	115dB
Excursion Limited Power	300 Watts	300 Watts	300 Watts	300 Watts	300 Watts

Limited Warranty

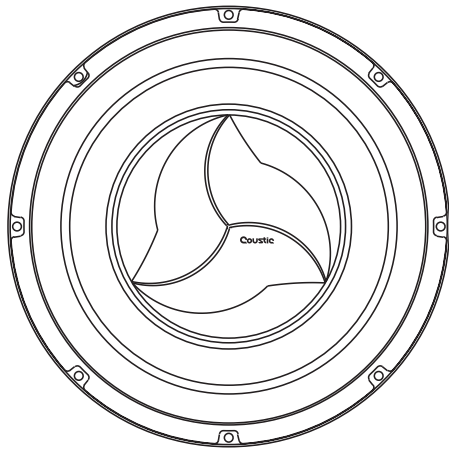
Coustic subwoofers purchased from an authorized dealer are guaranteed against defects in parts and workmanship for a period of one (1) year from the date of purchase. (Two years if installed by an authorized Coustic dealer). Speakers found defective during that period will be repaired by Coustic without 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	29.5 Hz	
Volume Acoustic Suspension	Vas	5.70 Ft ³	(161.4 l)
Total Q	Qts	.38	
Electrical Q	Qes	.40	
Mechanical Q	Qms	14.13	
DC Resistance	Re	3.60 Ohm	
Linear Excursion (One Way)	Xmax	.36"	(9.2 mm)
Effective Piston Diameter	D	13.000"	(.3302 m)
RMS Power Handling	RMS	300 Watts	
Total Power Handling	Total	600 Watts	
Sensitivity 1W/1m	SPLo	92.5 dB	
Reference Efficiency	No	1.00%	
Frequency Response		29 - 150Hz	
Voice Coil Inductance	Le	2.7 mH	
Gap Height		.375"	(9.5 mm)
Voice Coil Height		1.004"	(25.5 mm)
Voice Coil Diameter		2.0"	(50.8 mm)
Magnet Weight		76 oz	(2155 g)
Motor Force	BL	17.71 Tm	
Compliance	Cms	.157 mm/N	
Total Moving Mass	Mms	185.7 g	
Moving Mass of Driver	Mmd	171.3 g	
Suspension Losses	Rms	2.44	
Effective Surface Area	Sd	132.7 in ²	(.0856m ²)
Mounting Diameter		13 7/8 "	(352.4 mm)
Overall Diameter		15 3/16"	(385.8 mm)
Mounting Depth		7 3/16"	(182.6 mm)
Overall Depth		7 11/16"	(195.3 mm)
Speaker Displacement (Inside Box)		314in ²	(5.1 l)
Speaker Displacement (Outside Box)		206in ²	(3.4 l)

* Dual Voice Coil models measured with coils in parallel.