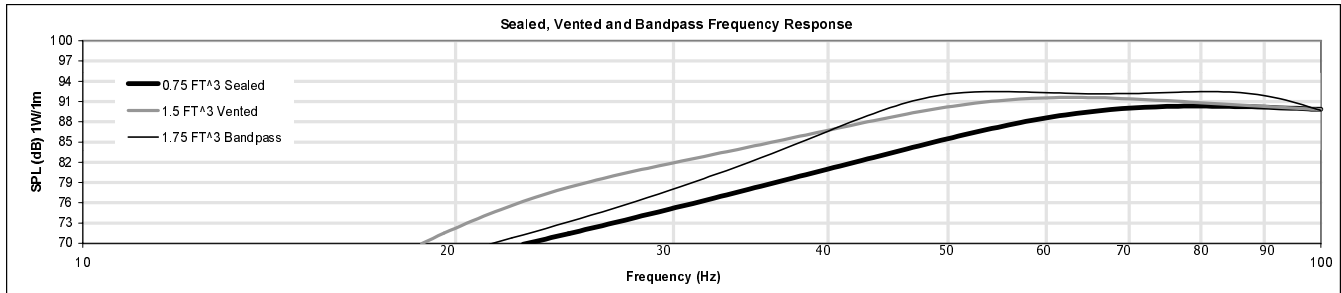




10FS Technical Data Report

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	64 Hz	56 Hz	52 Hz	49 Hz	47 Hz
Ripple	.30dB	.44dB	48dB	.47dB	.44dB
Qtc	1.40	1.28	1.19	1.12	1.07
Net Volume	.45 Ft ³ (12.6 l)	.57 Ft ³ (16.1 l)	.70 Ft ³ (19.7 l)	.82 Ft ³ (23.2 l)	.95 Ft ³ (26.8 l)
Driver Volume	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)
Excursion Limited SPL	114dB	113dB	112dB	112dB	112dB
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"x8.5"	3"x9.5"	3"x9"	3"x8.5"	3"x8"
F3	50 Hz	43 Hz	40 Hz	35 Hz	34 Hz
Tuning Frequency	44 Hz	38 Hz	35 Hz	33 Hz	31 Hz
Ripple	1.88dB	1.82dB	1.78dB	1.70dB	1.60dB
Net Volume	.91 Ft ³ (25.7 l)	1.15 Ft ³ (32.7 l)	1.41 Ft ³ (39.8 l)	1.66 Ft ³ (46.9 l)	1.91 Ft ³ (54.1 l)
Driver Volume	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)
Vent Volume	.04 Ft ³ (1.1 l)	.04 Ft ³ (1.2 l)	.04 Ft ³ (1.1 l)	.04 Ft ³ (1.1 l)	.03 Ft ³ (1.0 l)
Excursion Limited SPL	115dB	114dB	114dB	113dB	113dB
Excursion Limited Power	200 Watts	200 Watts	200 Watts	200 Watts	200 Watts

Single Reflex Bandpass Enclosures

s=0.6

Enclosure Volume	1.51 Ft ³ (42.8 l)	1.61 Ft ³ (45.6 l)	1.75 Ft ³ (49.6 l)	1.95 Ft ³ (55.2 l)	2.27 Ft ³ (64.3 l)
Bandpass	51 - 112	48 - 107	43 - 102	37 - 97	32 - 92
Bandpass Gain	6.8dB	5.7dB	4.5dB	3.2dB	1.7dB
Vent Dimensions	4"x2.75"	4"x3.5"	4"x4.75"	4"x6"	4"x8"
Tuning Frequency	77 Hz	72 Hz	66 Hz	61 Hz	56 Hz
Ripple	.29dB	.31dB	.33dB	.34dB	.36dB
Sealed Volume	.45 Ft ³ (12.9 l)	.54 Ft ³ (15.4 l)	.67 Ft ³ (19.0 l)	.86 Ft ³ (24.4 l)	1.17 Ft ³ (33.1 l)
Vented Volume	.99 Ft ³ (28.0 l)	.99 Ft ³ (28.0 l)	.99 Ft ³ (28.0 l)	.99 Ft ³ (28.0 l)	.99 Ft ³ (28.0 l)
Driver Volume	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)
Vent Volume	.02 Ft ³ (0.5 l)	.02 Ft ³ (0.6 l)	.03 Ft ³ (0.9 l)	.04 Ft ³ (1.2 l)	.06 Ft ³ (1.7 l)
Excursion Limited SPL	117dB	116dB	115dB	113dB	110dB
Excursion Limited Power	200 Watts	200 Watts	200 Watts	174 Watts	130 Watts

Single Reflex Bandpass Enclosures

s=0.7

Enclosure Volume	1.95 Ft ³ (55.2 l)	2.08 Ft ³ (58.9 l)	2.26 Ft ³ (64.0 l)	2.53 Ft ³ (71.6 l)	3.02 Ft ³ (85.5 l)
Bandpass	52 - 99	47 - 94	41 - 89	38 - 84	33 - 79
Bandpass Gain	7.8dB	6.7dB	5.5dB	4.2dB	2.6dB
Vent Dimensions	4"x1.75"	4"x2.5"	4"x3.5"	4"x4.75"	4"x6.5"
Tuning Frequency	72 Hz	67 Hz	62 Hz	57 Hz	51 Hz
Ripple	.02dB	.02dB	.02dB	.03dB	.03dB
Sealed Volume	.54 Ft ³ (15.4 l)	.66 Ft ³ (18.7 l)	.83 Ft ³ (23.5 l)	1.10 Ft ³ (31.1 l)	1.57 Ft ³ (44.4 l)
Vented Volume	1.35 Ft ³ (38.1 l)	1.35 Ft ³ (38.1 l)	1.35 Ft ³ (38.1 l)	1.35 Ft ³ (38.1 l)	1.35 Ft ³ (38.1 l)
Driver Volume	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)	.05 Ft ³ (1.6 l)
Vent Volume	.01 Ft ³ (0.2 l)	.01 Ft ³ (0.4 l)	.02 Ft ³ (0.6 l)	.03 Ft ³ (0.9 l)	.05 Ft ³ (1.3 l)
Excursion Limited SPL	118dB	117dB	115dB	113dB	110dB
Excursion Limited Power	200 Watts	200 Watts	195 Watts	150 Watts	111 Watts

Limited Warranty

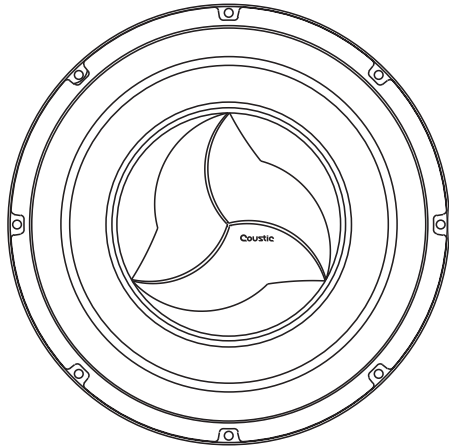
Coustic subwoofers purchased from an authorized dealer are guaranteed against defects in parts and workmanship for a period of one (1) year from the date of purchase. (Two years if installed by an authorized Coustic dealer). Speakers found defective during that period will be repaired by Coustic without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

- 1.5" High temperature voice coil
- Kapton voice coil former
- High energy strontium ferrite magnet
- Polyether foam surround
- Flat Progressive Spider
- Extended Vented Pole Piece

Specifications*

Free Air Resonance	Fs	35.9 Hz	
Volume Acoustic Suspension	Vas	1.63 Ft ³	(46.2 l)
Total Q	Qts	.65	
Electrical Q	Qes	.70	
Mechanical Q	Qms	8.96	
DC Resistance	Re	3.30 Ohm	
Linear Excursion (One Way)	Xmax	.36"	(9.1 mm)
Effective Piston Diameter	D	8.375"	(.2127 m)
RMS Power Handling	RMS	200 Watts	
Total Power Handling	Total	400 Watts	
Sensitivity 1W/1m	SPLo	87.5 dB	
Reference Efficiency	No	0.29%	
Frequency Response		35 - 150Hz	
Voice Coil Inductance	Le	1.4 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	8.96 Tm	
Compliance	Cms	.260 mm/N	
Total Moving Mass	Mms	75.5 g	
Moving Mass of Driver	Mmd	71.7 g	
Suspension Losses	Rms	1.90	
Effective Surface Area	Sd	55.1 in ²	(.0355m ²)
Mounting Diameter		9 1/16"	(230.2 mm)
Overall Diameter		10 1/16"	(255.6 mm)
Mounting Depth		4 13/16"	(122.2 mm)
Overall Depth		5 1/4 "	(133.4 mm)
Speaker Displacement (Inside Box)		130in ²	(2.1 l)
Speaker Displacement (Outside Box)		95in ²	(1.6 l)

* Dual Voice Coil models measured with coils in parallel.