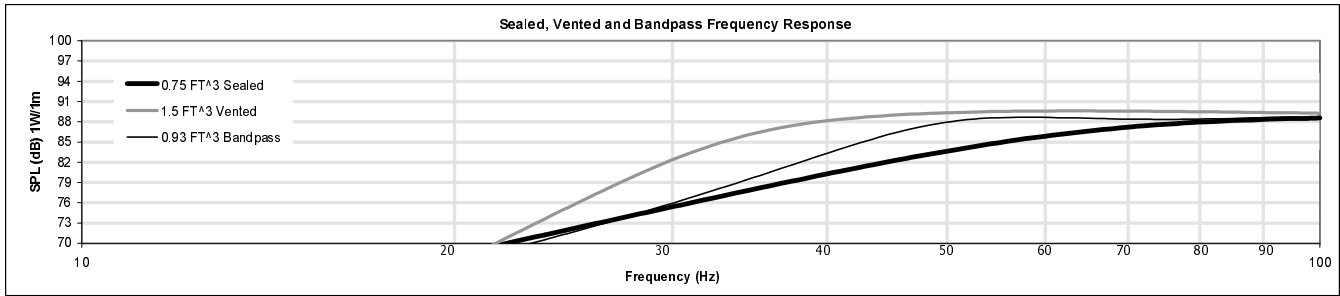




10RD Technical Data Report

Coustic 10" Dual 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	62 Hz	59 Hz	58 Hz	55 Hz	54 Hz
Ripple	.00dB	.00dB	.00dB	.00dB	.00dB
Qtc	.88	.82	.77	.74	.71
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	111dB	111dB	111dB	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"x9"	3"x8"	3"x7.5"	3"x6.75"	3"x6.5"
F3	44 Hz	37 Hz	33 Hz	31 Hz	30 Hz
Tuning Frequency	43 Hz	40 Hz	37 Hz	36 Hz	34 Hz
Ripple	.60dB	.53dB	.34dB	.24dB	.06dB
Net Volume	.91 Ft ³ (25.9 l)	1.17 Ft ³ (33.1 l)	1.42 Ft ³ (40.2 l)	1.67 Ft ³ (47.4 l)	1.92 Ft ³ (54.5 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	.04 Ft ³ (1.1 l)	.03 Ft ³ (0.9 l)	.03 Ft ³ (0.9 l)	.03 Ft ³ (0.8 l)	.03 Ft ³ (0.8 l)
Excursion Limited SPL	113dB	112dB	112dB	111dB	111dB
Excursion Limited Power	200 Watts	200 Watts	200 Watts	200 Watts	200 Watts

Single Reflex Bandpass Enclosures

s=0.6

Enclosure Volume	.76 Ft ³ (21.5 l)	.83 Ft ³ (23.5 l)	.93 Ft ³ (26.3 l)	1.08 Ft ³ (30.6 l)	1.32 Ft ³ (37.4 l)
Bandpass	53 - 140	48 - 135	43 - 130	38 - 125	32 - 120
Bandpass Gain	2.1dB	1.0dB	-.2dB	-1.5dB	-2.9dB
Vent Dimensions	4"x10.5"	4"x12.25"	4"x14.75"	4"x18"	4"x22"
Tuning Frequency	86 Hz	81 Hz	75 Hz	69 Hz	63 Hz
Ripple	.30dB	.31dB	.32dB	.34dB	.35dB
Sealed Volume	.29 Ft ³ (8.3 l)	.35 Ft ³ (9.9 l)	.43 Ft ³ (12.3 l)	.56 Ft ³ (15.7 l)	.76 Ft ³ (21.4 l)
Vented Volume	.34 Ft ³ (9.5 l)	.34 Ft ³ (9.5 l)	.34 Ft ³ (9.5 l)	.34 Ft ³ (9.5 l)	.34 Ft ³ (9.5 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 (2.3 l)	.09 Ft ³ (2.7 l)	.11 Ft ³ (3.3 l)	.14 Ft ³ (4.0 l)	.17 Ft ³ (4.9 l)
Excursion Limited SPL	113dB	112dB	111dB	110dB	108dB
Excursion Limited Power	200 Watts	200 Watts	200 Watts	200 Watts	200 Watts

Single Reflex Bandpass Enclosures

s=0.7

Enclosure Volume	.93 Ft ³ (26.3 l)	1.03 Ft ³ (29.2 l)	1.17 Ft ³ (33.1 l)	1.38 Ft ³ (39.1 l)	1.75 Ft ³ (49.6 l)
Bandpass	52 - 121	46 - 116	41 - 111	38 - 106	33 - 101
Bandpass Gain	3.0dB	1.9dB	.7dB	-.6dB	-2.1dB
Vent Dimensions	4"x8.5"	4"x10.25"	4"x12.5"	4"x15.25"	4"x19"
Tuning Frequency	80 Hz	74 Hz	69 Hz	63 Hz	58 Hz
Ripple	.01dB	.01dB	.01dB	.02dB	.02dB
Sealed Volume	.36 Ft ³ (10.3 l)	.44 Ft ³ (12.6 l)	.56 Ft ³ (16.0 l)	.75 Ft ³ (21.3 l)	1.10 Ft ³ (31.1 l)
Vented Volume	.46 Ft ³ (13.0 l)	.46 Ft ³ (13.0 l)	.46 Ft ³ (13.0 l)	.46 Ft ³ (13.0 l)	.46 Ft ³ (13.0 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)
Vent Volume	.06 Ft ³ (1.8 l)	.08 Ft ³ (2.2 l)	.10 Ft ³ (2.7 l)	.12 Ft ³ (3.4 l)	.15 Ft ³ (4.2 l)
Excursion Limited SPL	114dB	113dB	111dB	110dB	109dB
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.

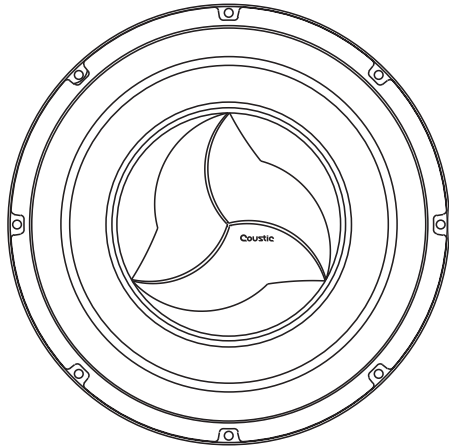
If a defect is present, your authorized Coustic dealer may be able to effect repairs. If not, you are responsible for providing transportation to the factory. Your Coustic dealer can recommend the safest method of transportation. Proof of purchase is required when requesting service, so please retain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

Specifications subject to change without notice.



10RD Technical Data Report

Cooustic 10" Dual 4 Ohm Subwoofer



Features

- 2" Dual 4-ohm 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	42.8 Hz	
Volume Acoustic Suspension	Vas	.90 Ft ³	(25.5 l)
Total Q	Qts	.51	
Electrical Q	Qes	.53	
Mechanical Q	Qms	11.85	
DC Resistance	Re	1.64 Ohm	
Linear Excursion (One Way)	Xmax	.36"	(9.2 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	88.4 dB	
Reference Efficiency	No	0.36%	
Frequency Response		42 - 150Hz	
Voice Coil Inductance	Le	1.0 mH	
Gap Height		.312"	(7.9 mm)
Voice Coil Height		.945"	(24.0 mm)
Voice Coil Diameter		2.0"	(50.8 mm)
Magnet Weight		38 oz	(1077 g)
Motor Force	BL	8.91 Tm	
Compliance	Cms	.144 mm/N	
Total Moving Mass	Mms	96.2 g	
Moving Mass of Driver	Mmd	92.4 g	
Suspension Losses	Rms	2.18	
Effective Surface Area	Sd	55.1 in ²	(.0355m 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.