

ECO TKO

Series Subwoofers

For More Customized Box Volume Specifications
Please visit www.massiveaudio.com

	ECO 12S4	TKO 104	TKO 12S4	TKO 124
Mounting Depth (A)	5.59 in.	5.39 in.	5.83 in.	5.83 in.
Mounting Diamter (B)	12.09 in.	10.20in.	12.09 in.	12.09 in.
Mounting cut diameter (C)	10.87 in.	9.13 in.	10.87 in.	10.87 in.
Net weight (Lb)	7.72	8.82	9.92	9.92
Displacement (ft3)	0.075	0.048	0.078	0.078

Recommended Enclosures:

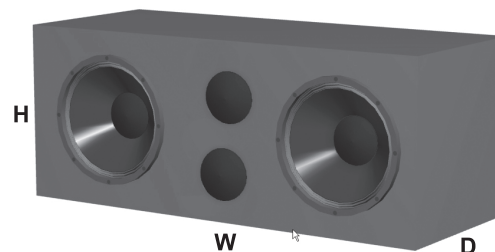
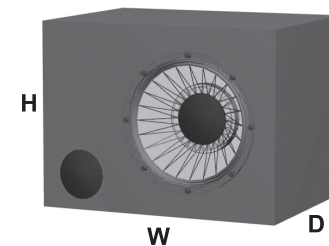
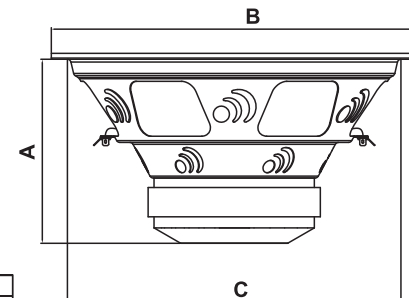
	ECO 12S4		TKO 104		TKO 12S4		TKO 124	
SEALED	Small	Large	Small	Large	Small	Large	Small	Large
Volume (cub. ft)	1.25	1.25	0.66	1	1.25	1.25	1.25	1.25
Internal Dimensions (in.)								
(width x Height x Depth)	12x12x12	12x13x14	10x11x11	12x13x14	12x12x12	12x13x14	12x12x12	12x13x14
F3 Hz	46	44	46	44	46	44	46	44
Qtc	0.801	0.787	0.811	0.792	0.801	0.787	0.801	0.787
PORTED	Small	Large	Small	Large	Small	Large	Small	Large
Volume (cub ft.)	1.5	2.0	1.25	1.6	1.5	2.0	1.5	2.0
Internal Volume (W x H x D)	12x14x15	14x14x18	12x13x14	14x14x14	12x14x15	14x14x18	12x14x15	14x14x18
Fb Hz	38	39	36	39	38	39	38	39
Cabin Gain dB/Hz	6@40	7@41	6@44	8@44	6@40	7@41	6@40	7@41
Port round (D x L)	4x12	4x8	3x10	4x10	4x12	4x8	4x12	4x8
Port Area sq. in.	12.56	12.56	7.07	12.56	12.56	12.56	12.56	12.56
Dual Sub Box Ported								
Volume (cub ft.)	3.0	3.5	2.4	3.0	3.0	3.5	3.0	3.5
Internal Volume (W x H x D)	12x14x18	24x14x18	12x14x14	20x16x16	12x14x18	24x14x18	12x14x18	24x14x18
Port (1) Sq.area in.	25	25	14.1	25	25	25	25	25
Port Length	8	8	10	12	8	8	8	8
Fb Hz	39	36	36	38	39	36	39	36

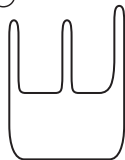
The port may have to be placed along the back wall facing the side. Place a brace between the subs about 4 inches wide on the inside.

Make sure that the end of the port "inside the box" is at least the same distance away from the back wall as the port diameter. If port is 4" round = 4.5" from wall

Attention:

- *Box sizes account for driver and port displacement
- *For higher SPL shortening the port length 3 in. will rise frequency +/- 5 Hz
- *Box specifications are internal. for external dimensions add the width of the box material to these dimensions.
- *A square port (slot) is preferred in high power applications for less vent noise.
- *Port area = width x height
- *For dual speaker, double the volume and the number of ports but keep the same length.
- *If possible use a divided box.
- *If a common chamber box is to be used, internal bracing is highly recomm ended
- *Please contact Massive Audio for custom applications.





ECO TKO

Series Subwoofers

General Features

- * Heavy Gauge Steel Basket With Industrial Texture Painting
- * High Flux Y30 Strontium Ferrite Magnet
- * High Impedance Aluminum Former With EISV Voice Coil
- * Poly Cotton Spider With Woven Round Tinsel Leads
- * Laminated Paper Cone With Pressed Foam Surround
- * Round Shape PP Vacuum Dust Cap
- * ECO:6mm Top Plate/TKO:8mm Top Plate

Specifications

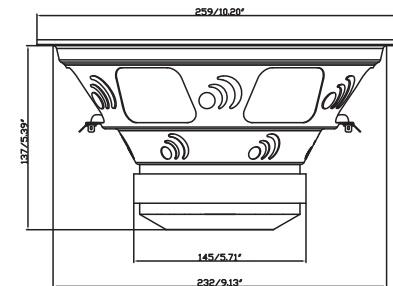
CONFIGURATION		ECO 12S4			TKO 104			TKO 12S4			TKO 124		
Voice Coil		Single 4 Ohm			Dual 4 Ohm			Single 4 Ohm			Dual 4 Ohm		
FS	Hz	37.5			39.2			35.4			36.1		
Qms		5.79			5.06			5.31			4.80		
Vas	liters	67.2			26.8			70.7			62.4		
Cms	um/N	0.19			0.18			0.20			0.17		
Mms	g	96.2			90.2			102.6			111.8		
SPL@2.83V/1m	dB	90			91			91			91		
Watts RMS	W	250			300			300			300		
Peak Power	W	500			600			600			600		
Xmax	mm	7			7			7			7		
Magnet Weight	oz	45			50			50			50		
Xmech	mm	21			25			25			25		
Dia	mm	254			202			254			254		
Sd	sq.m	0.0506			0.0320			0.0506			0.0506		
Vd	liters	0.793			0.523			0.802			0.802		
ELECTRICAL		Individual	Parallel	Series	Individual	Parallel	Series	Individual	Parallel	Series	Individual	Parallel	Series
Qes		1.04			1.07	0.57	0.56	0.63			1.07	0.59	0.67
Re	ohms	3.2			3.2	1.6	6.4	3.2			3.2	1.6	6.4
Le	mH	1.15			0.54	0.55	2.24	1.51			0.54	0.51	2.23
BL	Tm	6.4			7.8	7.9	16.7	10.8			7.95	8.10	15.6
Pe	Watts	250			150	300	300	300			150	300	300
ELECTROMECHANICAL		Individual	Parallel	Series	Individual	Parallel	Series	Individual	Parallel	Series	Individual	Parallel	Series
Qts		0.88			0.86	0.51	0.49	0.56			0.86	0.53	0.59
no	%	0.33			0.54	0.27	0.24	0.48			0.54	0.37	0.42
1-W-SPL	dB	87.2			85.3	86.4	85.8	88.8			86.7	89.6	88.3
2.8V SPL	dB	86.2			86.8	87.9	87.5	89.6			87.5	90.1	89.5

600
PEAK WATTS

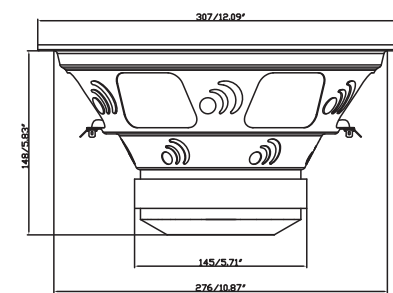


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TKO 104



TKO 124/TKO 12S4



ECO 12S4

