

Brahma Power Handling

There's a common misconception that a power rating is a power requirement; in fact, the two are completely different things! Brahma is rated at 1600W RMS per IEC268-5 (a specific test signal). Does this mean you need 1600W to get full performance from your Brahma? NO! What it means that your Brahma can handle 1600W of power with the test signal (akin to typical musical spectral content). Below are some tables that show what amount of power is required to push a Brahma (10", 12", or 15") to full excursion in a sealed box. The tables break down a typical box alignment and show you the amount of power you need to reach full excursion below 30 Hz:

Brahma 10

Qtc	Size (liters)	Size (ft ³)	Power Handling
0.5	24.7	0.87	700W
0.577	14	0.49	1000W
0.707	7.5	0.27	<i>2000W</i>
0.8	5.4	0.19	<i>3000W</i>
0.9	4.0	0.14	<i>5000W</i>
1.0	3.1	0.11	<i>7000W</i>

Brahma 12

Qtc	Size (liters)	Size (ft ³)	Power Handling
0.5	170.5	6.01	400W
0.577	59.8	2.10	500W
0.707	25.9	0.92	900W
0.8	17.6	0.62	1300W
0.9	12.6	0.45	<i>2000W</i>
1.0	9.6	0.34	<i>2800W</i>

Brahma 15

Qtc	Size (liters)	Size (ft ³)	Power Handling
0.5	862.7	30.48	400W
0.577	204.5	7.26	500W
0.707	80.6	2.85	800W
0.8	53.4	1.89	1200W
0.9	37.9	1.34	<i>1800W</i>
1.0	28.6	1.01	<i>2500W</i>

Grey, italicized numbers are above thermal ratings and are NOT recommended!

One thing to note is that in most cases, you need less than 1000W of power to push a Brahma to its limits. Going beyond the power listed won't gain you more SPL - what it will do is simply slam the suspension, and cook the driver (because cooling relies heavily on cone motion, if power is increased and cone motion is not there can be cooling reduction). So, if you're looking to power a Brahma, take a look at the above sealed box sizes, and choose amplification accordingly!