## Subject: Wacky results for Rat Shack 90-1197 in PiAlign? <br> Posted by AudioLapDance on Fri, 09 Nov 2001 12:53:02 GMT <br> View Forum Message <> Reply to Message

Hey Wayne et all; long time, no see!Someone was looking for RS1197 (4" fullrange, factory "seconds" of Fostex FE103) TS specs a long time ago--I hope you're still lurking around. I found some over at the full range driver forum. It's now in the archives under "40-1197s for Home Theater???"The specs are:Fs=85HzQt=0.37, Qd=2.7Vad=0.17 cuft (4.9 I)I think PiAlign is having some problems with the low Vad because when I plug them in the Encl Vol=6.3 cuft and the Ideal $\mathrm{Q}=40.5$ !The dimensions indicate a reasonable $0.08 \mathrm{cuft} \mathrm{cab}\left(9.2^{\prime \prime} \times 6.6^{\prime \prime} \times 4.5 \mathrm{w} \mathbf{\mathrm { w }} 3 / 4\right.$ " wood) and 0.8 " dia X 2.2" port but I'm not sure if I should trust them?!Wayne, could you run these numbers for me? Thanks.For those interested, another cheap full range is the Pioneer B20FU20-51FW (I got mine for $\$ 40$ CND each!) Specs:Fs=36HzQt=0.25, Qd=4Vad=3.2 cuft (92 I)The results in a nice 0.8 cuft cab ( 18.5 " $\times 12.75^{\prime \prime} \times 9$ " w $3 / 4^{\prime \prime}$ wood) with a $2.2^{\prime \prime}$ diam $\times 2.3^{\prime \prime}$ port.l'll be finishing my Theater Seven Pi's this weekend (finally!). I'll keep you posted.Cheers,Jeff

## Subject: Re: Wacky results for Rat Shack 90-1197 in PiAlign? Posted by Chris R. on Fri, 09 Nov 2001 13:05:24 GMT <br> View Forum Message <> Reply to Message

I did finally find the data sheet on Fostex's site, but through a wierd path.Anyway, I made a pair of boxes with four each. I can't rememberthe dimensions. They sound OK. Obviously no real bass, and the highs roll off maybe around $10-12 \mathrm{~K}$, but they dohave very nice sound in the middle. RS is clearing theseout for $\$ 5$ ea.Thanks, Chris

## Subject: Exponential notation <br> Posted by Wayne Parham on Sat, 10 Nov 2001 01:20:14 GMT <br> View Forum Message <> Reply to Message

Enclosure volume for this loudspeaker is actually 104 cubic inches, which is $6.3 \times 10-2$ cubic feet. So the cabinet size is $7.1^{\prime \prime} \times 4.77$ " x 3.18" - even before calculating displacement volumes for the components inside or adding wood thickness. With wood thickness and driver displacements, $9.2^{\prime \prime} \times 6.6^{\prime \prime} \times 4.5^{\prime \prime}$ is just about right.

