Subject: Re: PiAlign program
Posted by Wayne Parham on Thu, 22 Jan 2004 00:05:15 GMT
View Forum Message <> Reply to Message

PiAlign uses the terms Fre and Qe to describe cabinet tuning. Fre is the Helmholtz frequency and Qe expresses a ratio of cabinet volume to port area. But PiAlign also suggests a specific port and cabinet volume that reflect these values. You can substitute a different port if you wish, and just keep the cabinet tuning the same. But usually PiAlign does a pretty good job of fitting the biggest port it can into small cabinets, and chossing a reasonable size port for larger cabinets.Sometimes PiAlign "thinks" a smaller port is acceptable, sometimes it chooses a larger port. But, except in rare cases, I usually find its port suggestions are reasonable for the cabinet size suggested. The times you might choose a different port are times when port installation is difficult or sometimes when a high-excursion driver would make port turbuulence a problem at high power levels. These situations sometimes require special port placement or size considerations. It often depends on your cabinet layout and intended use. PiAlign is a software tool that I've found extremely useful, but ultimately, the design choices are still yours to make.