Subject: Volume = capacitance; Restriction = resistance
Posted by Wayne Parham on Tue, 22 Jan 2002 14:38:09 GMT
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92 sq. inches. Hmm. Hard to say what the effects will be. Might be interesting to model it. The things to consider are displacement and area, basically how much pressure is exerted across the hole verses how much flows through it. The volume of each chamber acts as a capacitance, and any restrictions through the connecting hole will act as a resistance. Another thing to consider is standing waves, but only in the midbasss and midrange where the distances involved start becoming acoustically large, i.e. greater than 1/4 wavelength. Above that point you will start to see response rippling but not beneath it. At low frequencies, chamber features will be sensitive to pressure and at high frequencies, to standing waves.