

Single Peerless XXLS 830 847 in 46 litre sealed box with 0.7 Q Max power 250 watts = Xmax at 20 Hz.... **97 dB max SPL at 20 Hz.**

 AJ Sealed Designer 2.0

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File Units Box Calculator Help

Speaker Parameters	
Qtc: <input type="text" value="0.7"/>	Vas: <input type="text" value="144.2"/> liters
Qts: <input type="text" value="0.346"/>	Pmax: <input type="text" value="250"/> watts
Qes: <input type="text" value="0.37"/>	Diameter: <input type="text" value="27"/> cm
Fs: <input type="text" value="21.8"/> Hz	Xmax: <input type="text" value="12.5"/> mm

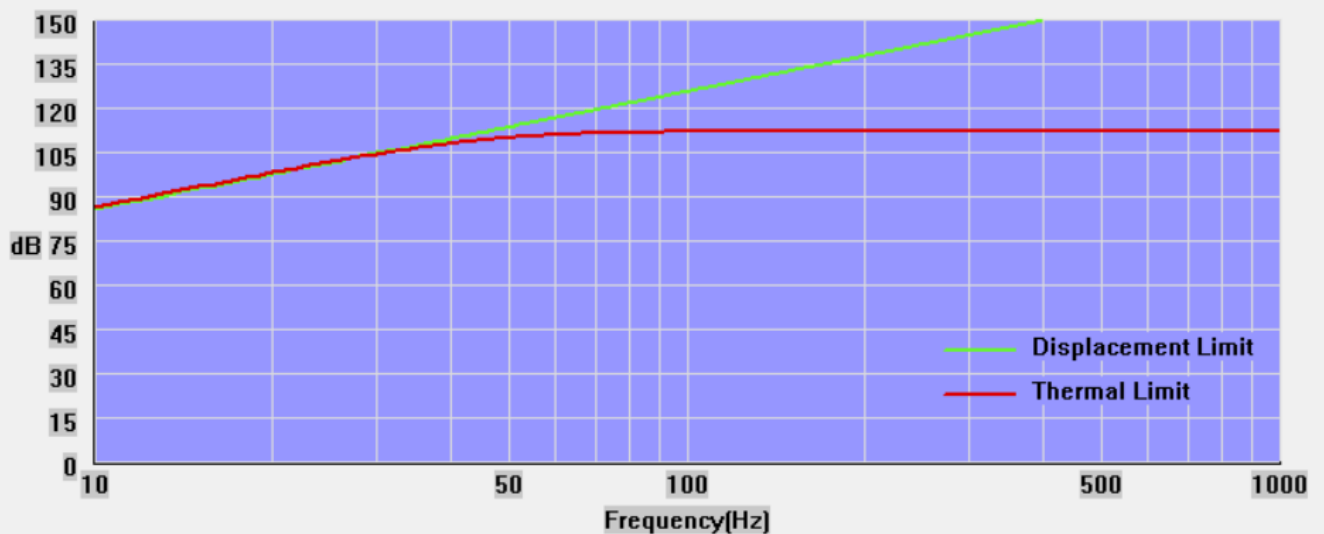
Calculate

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- ☐ Output Response
- ☒ Power Response

Box Results	
Vb: <input type="text" value="46.6211"/> liters	
Fb: <input type="text" value="44.104"/> Hz	
F3: <input type="text" value="44.5564"/> Hz	

Power Response: Power vs. Frequency



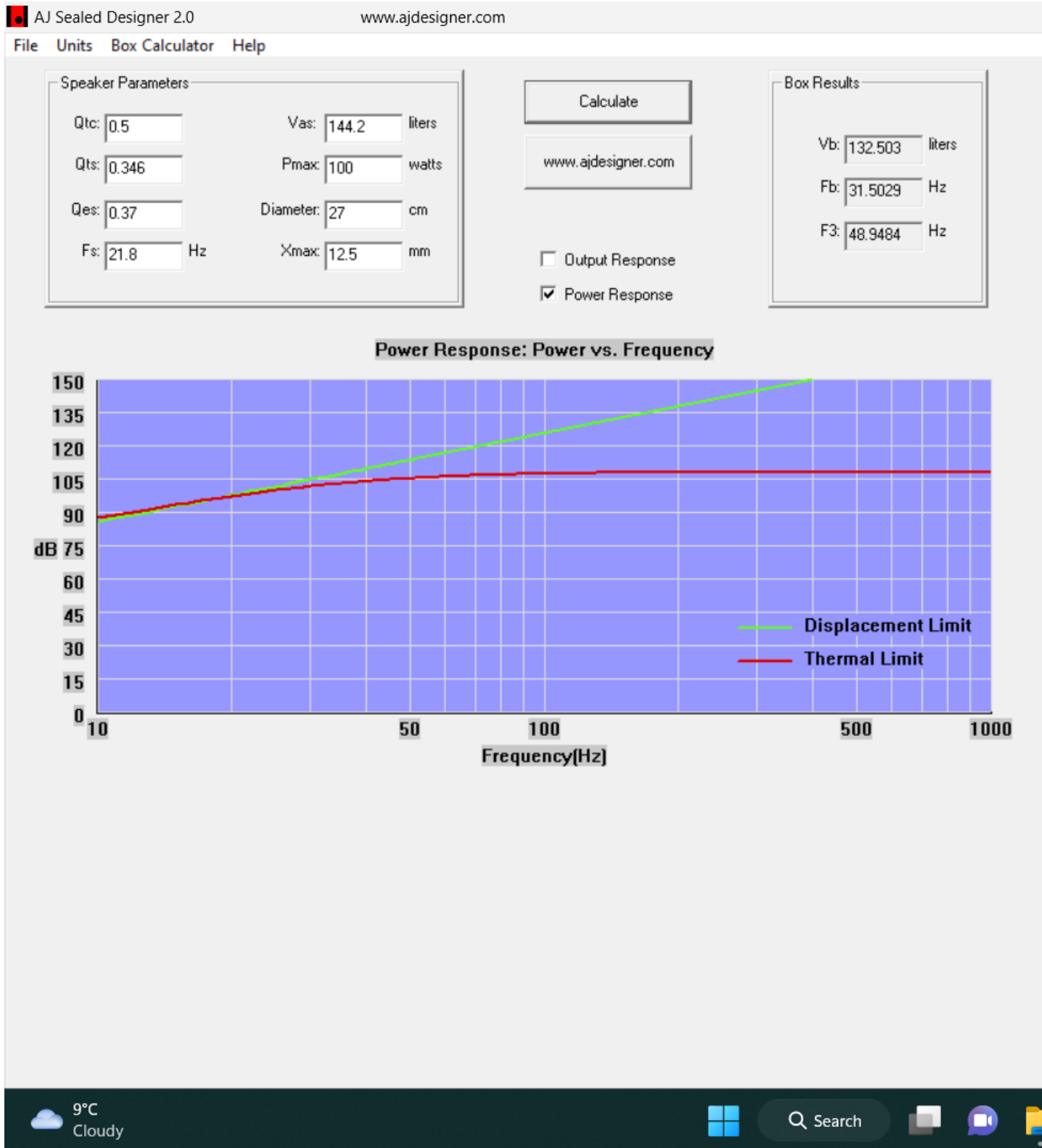
 9°C  
Cloudy



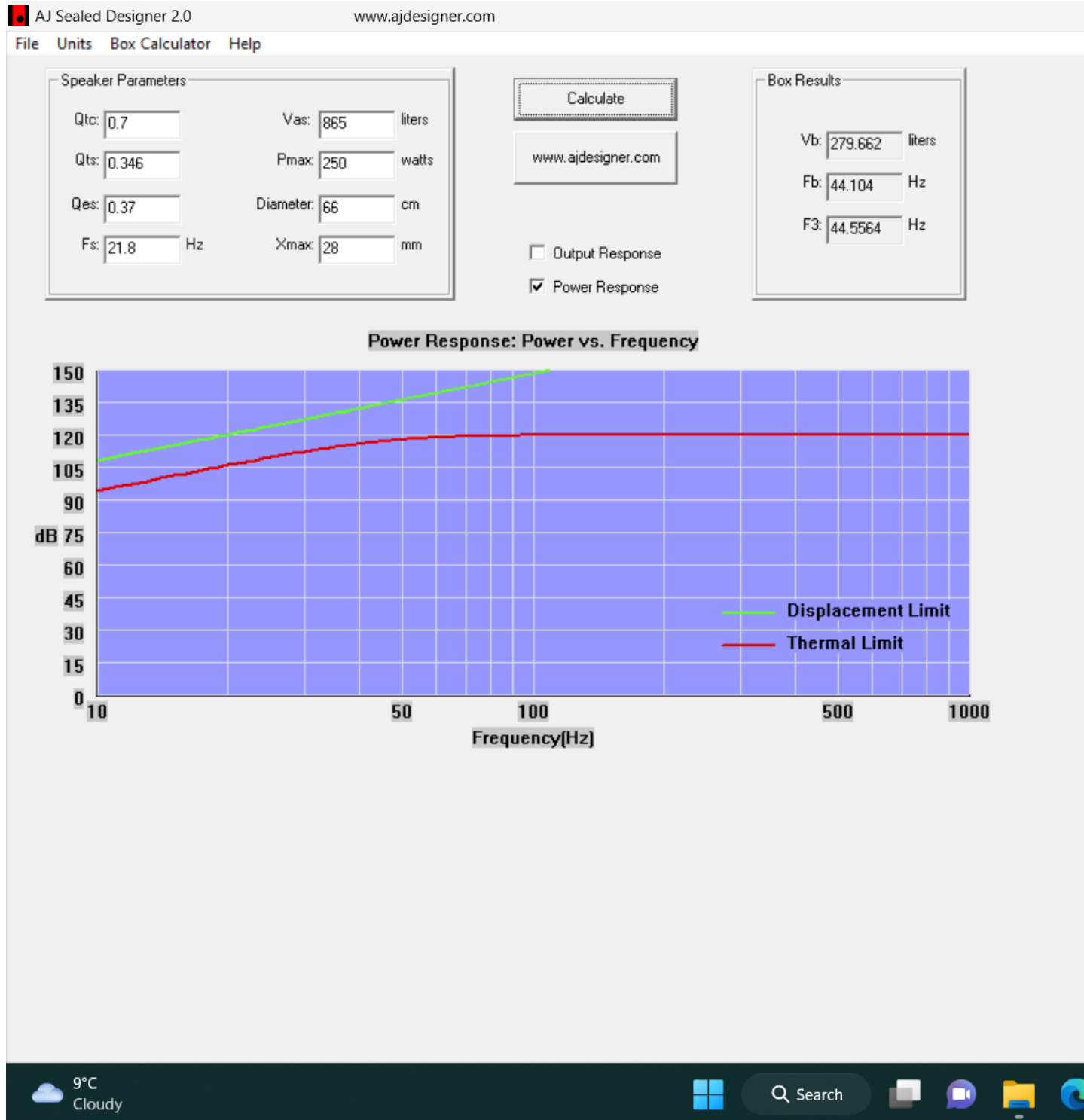
Search



XXLS 830 847 sealed box with 0.5 Q- Box increases to 132 litres but Xmax limit remains unchanged so max output remains at 97dB but it is achieved with 100 watts Vs 250 watts.



**SIX** Peerless XXLS 830 847 - diameter = 66cm (24 inch driver has 60cm diameter) sealed box with 0.7 Q (865 VAS) = box 279 litre box- Requires 28mm (!) Xmax to reach 120dB at 20Hz. Power handling limit = 106dB.



Six Peerless XXLS 830 847 sealed box with 0.5 Q (vas 865) = box 794 (!) liters. This requires 28mm (!) Xmax to reach 120 dB at 20 Hz and is still limited to 109 dB max SPL with 250 watts.

